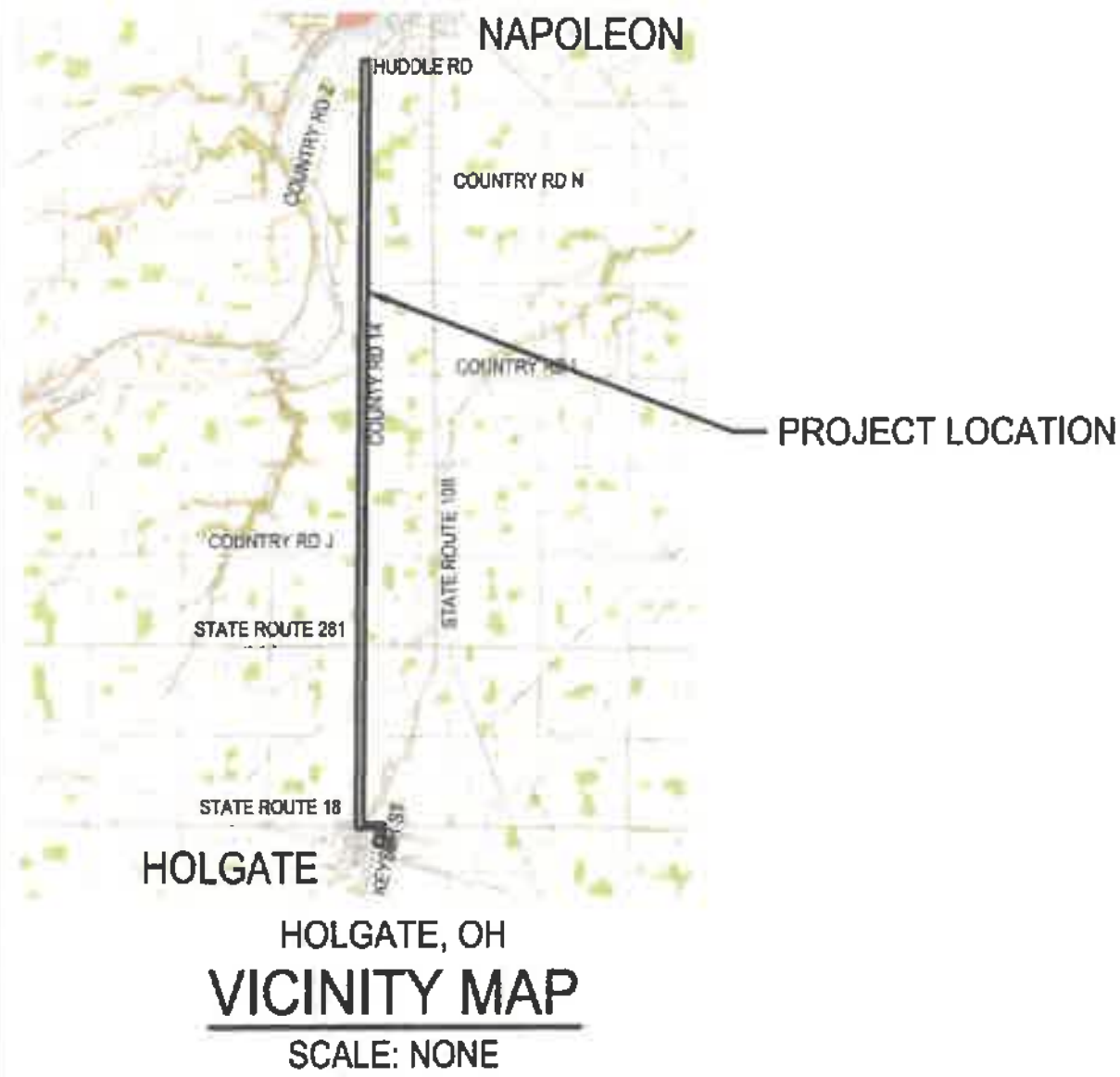


# WATER SYSTEM IMPROVEMENTS CONTRACT A NEW WATER TRANSMISSION MAIN FOR THE VILLAGE OF HOLGATE, OHIO



STATE LOCATION MAP  
SCALE: NONE



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PROJECT NO. 703222-04-001

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DRAWINGS PREPARED FOR:

VILLAGE COUNCIL

CHRIS HEALY, PRESIDENT

JAMIE HOHENBERGER, MEMBER

JEFFERY ROTHMAN, MEMBER

NICHOLAS STEPHEY, MEMBER

MIKE MEDINA, MEMBER

RICARDO VALDEZ, MEMBER

I HEREBY STATE THAT THESE PLANS HAVE BEEN PREPARED WITH OUR KNOWLEDGE AND CONCURRENCE AND REPRESENT OUR INTENT AND INTEREST

ELVA POSADAS-WYANDT, MAYOR

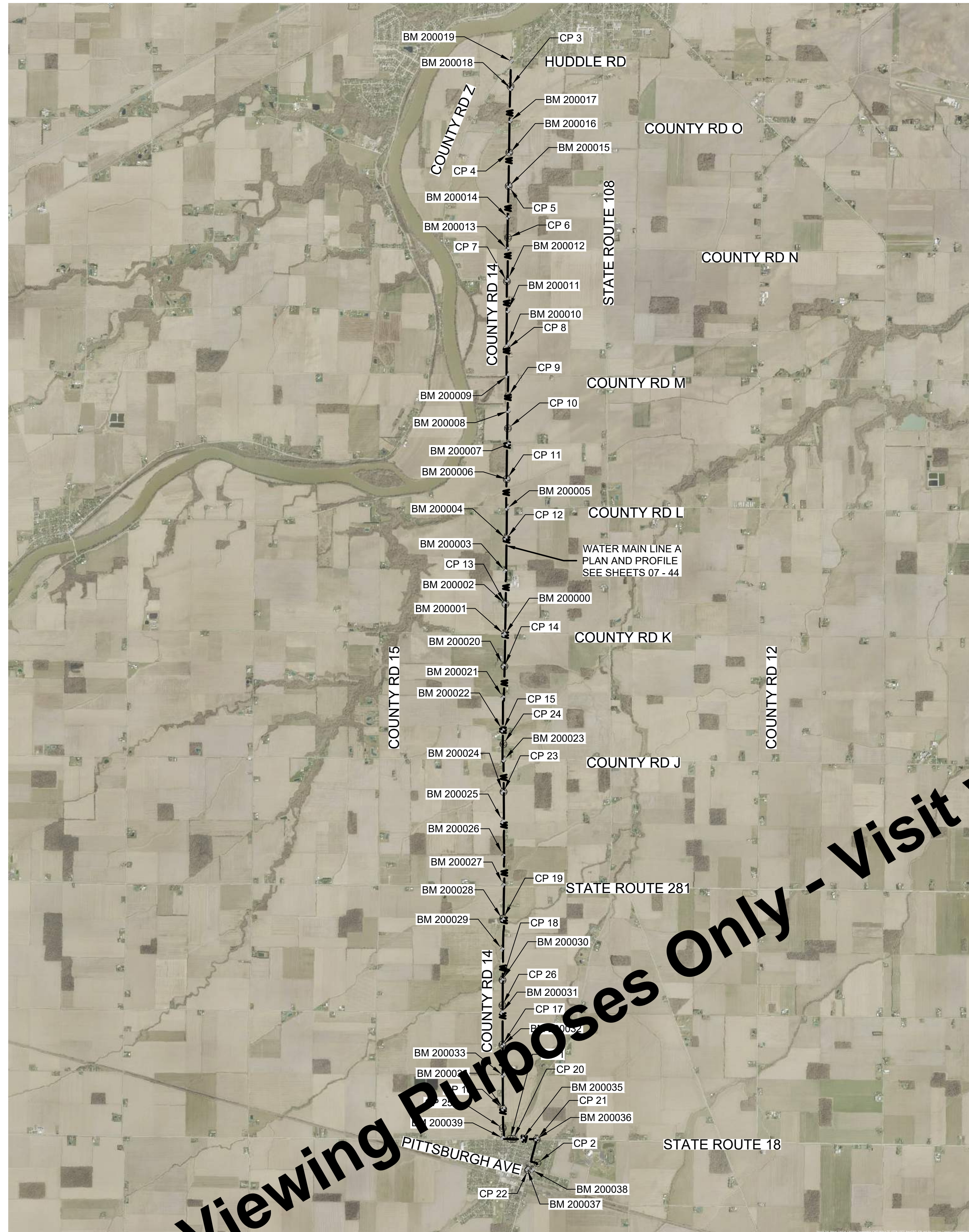
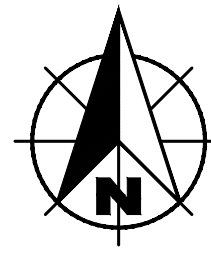
JASON MICHEL, VILLAGE ADMINISTRATOR

CHAD LULFS, NAPOLEON DIRECTOR OF PUBLIC WORKS

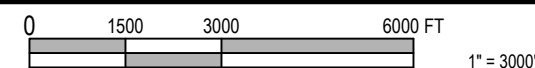


ADAM SITKA  
REGISTERED ENGINEER STATE OF OHIO NO. E-88514

**FEBRUARY 2026**



LOCATION AND SCOPE OF WORK PLAN



**SURVEYORS REPORT  
VILLAGE OF HOLGATE WATERLINE**

BOCKRATH & ASSOCIATES ENGINEERING AND SURVEYING, LLC PERFORMED A TOPOGRAPHIC SURVEY OF APPROXIMATELY 9 MILES OF ROADWAY CONSISTING OF COUNTY ROAD 14 LOCATED IN SECTIONS 23, 24, 25, 26, 35, 36 OF NAPOLEON TOWNSHIP, TOWN 5 NORTH, RANGE 6 EAST, AND SECTIONS 1, 2, 11, 12, 13, 14, 23, 24, 25, 26, 35, & 36 OF FLATROCK TOWNSHIP, TOWN 4 NORTH, RANGE 6 EAST, AND JOE E BROWN AVENUE (STATE ROUTE 18) AND KEYSER STREET LOCATED IN THE VILLAGE OF HOLGATE. ALL WITHIN HENRY COUNTY, OHIO.

SURVEY CONTROL WAS PERFORMED IN SEPTEMBER, OCTOBER, AND NOVEMBER 2024 AND WAS ESTABLISHED USING DUAL FREQUENCY TRIMBLE R10 GNSS SYSTEM. SUBSEQUENT SURVEY LOCATIONS WERE OBTAINED USING A COMBINATION OF THE GPS (RTK) AND TRIMBLE S5 ROBOTIC TOTAL STATION WITH A RELATIVE POSITIONAL ACCURACY OF 0.010 METERS. THE INITIAL CONTROL WAS SCALED TO GROUND USING A COMBINED SCALE FACTOR OF 1.0000795732. PROJECT WAS SCALED TO GROUND ON A RAILROAD SPIKE FOUND AT THE INTERSECTION OF COUNTY ROAD 14 AND COUNTY ROAD K. SAID RAILROAD SPIKE HAVING A NORTHRING COORDINATE OF 603475.15 AND AN EASTING COORDINATE OF 1519649.37.

THE BASIS OF BEARINGS ARE BASED ON THE OHIO NORTH ZONE STATE PLANE COORDINATE SYSTEM, NAD 83, OBTAINED FROM THE OHIO DOT VRS NETWORK.

HORIZONTAL CONTROL INFORMATION				
POINT NUMBER	GROUND COORDINATES		ELEVATION	DESCRIPTION
	NORTHING	EASTING		
1	582385.85	1519878.61	707.44	MAG
2	581375.53	1521017.25	707.95	MAG
3	626394.72	1519888.42	675.89	MAG
4	623627.07	1519836.04	683.1	MAG
5	622225.97	1519814.57	683.62	MAG
6	620063.14	1519784.91	684.59	MAG
7	618241.51	1519737.31	686.22	MAG
8	615399.50	1519720.50	686.5	MAG
9	613428.61	1519786.03	685.09	MAG
10	612095.43	1519780.98	685.09	MAG
11	609971.15	1519731.08	685.09	MAG
12	607483.84	1519715.37	683.35	MAG
13	604752.54	1519698.37	689.77	MAG
14	602141.22	1519682.24	690.78	MAG
15	599479.91	1519577.89	690.37	MAG
16	596817.60	1519577.35	706.49	MAG
17	594155.29	1519548.68	703.85	MAG
18	591492.98	1519554.25	700.4	MAG
19	588830.67	1519581.72	698.31	MAG
20	586168.36	1520005.51	707.56	MAG
21	583506.05	1520988.60	708.7	MAG
22	580843.74	1520627.84	709.53	MAG
23	578181.43	1519597.55	695.19	MAG
24	575519.12	1519592.03	692.11	MAG
25	572856.81	1519565.48	705.69	MAG
26	570194.50	1519549.10	701.46	MAG

VERTICAL CONTROL INFORMATION (not to be used for Horizontal Control)				
POINT NUMBER	GROUND COORDINATES		ELEVATION	DESCRIPTION
	NORTHING	EASTING		
200000	604538.8	1519634.81	689.68	MAG SET IN PAVEMENT
200001	603994.79	1519618.09	689.53	BENCHM SET IN UTILITY POLE
200002	604777.07	1519640.10	689.51	BENCHM SET IN UTILITY POLE
200003	606128.09	1519665.23	689.25	BENCHM SET IN UTILITY POLE
200004	607498.34	1519684.52	688.56	BENCHM SET IN UTILITY POLE
200005	608747.35	1519747.32	687.98	BENCHM SET IN UTILITY POLE
200006	609665.68	1519756.03	682.16	BENCHM SET IN UTILITY POLE
200007	611436.71	1519778.64	684.72	BENCHM SET IN UTILITY POLE
200008	612820.24	1519801.91	685.08	BENCHM SET IN UTILITY POLE
200009	614293.09	1519753.45	685.78	BENCHM SET IN UTILITY POLE
200010	615693.27	1519767.08	685.45	BENCHM SET IN UTILITY POLE
200011	617003.12	1519780.96	685.89	BENCHM SET IN UTILITY POLE
200012	618290.31	1519765.21	685.65	BENCHM SET IN UTILITY POLE
200013	619565.13	1519758.33	684.29	MAG SET IN PAVEMENT
200014	620914.79	1519786.38	684.21	MAG SET IN PAVEMENT
200015	622229.42	1519836.88	683.57	BENCHM SET IN UTILITY POLE
200016	623600.45	1519860.90	683.12	BENCHM SET IN UTILITY POLE
200017	624948.61	1519887.10	677.63	BENCHM SET IN UTILITY POLE
200018	626296.68	1519915.30	675.72	BENCHM SET IN UTILITY POLE
200019	627448.32	1519932.98	672.65	BENCHM SET IN UTILITY POLE
200020	602162.96	1519602.63	690.87	BENCHM SET IN UTILITY POLE
200021	600840.97	1519579.11	691.04	BENCHM SET IN UTILITY POLE
200022	599472.10	1519563.24	689.4	BENCHM SET IN UTILITY POLE
200023	598224.10	1519609.72	694.88	BENCHM SET IN UTILITY POLE
200024	596889.82	1519565.27	694.27	BENCHM SET IN UTILITY POLE
200025	595649.28	1519573.40	694.91	BENCHM SET IN UTILITY POLE
200026	594224.38	1519597.30	697.05	MAG SET IN PAVEMENT
200027	592992.12	1519595.96	697.92	BENCHM SET IN UTILITY POLE
200028	591554.96	1519566.37	698.59	BENCHM SET IN UTILITY POLE
200029	590307.01	1519545.76	698.75	BENCHM SET IN UTILITY POLE
200030	589021.77	1519535.13	699.91	BENCHM SET IN UTILITY POLE
200031	587666.84	1519529.35	701.21	BENCHM SET IN UTILITY POLE
200032	586303.60	1519574.31	704.18	BENCHM SET IN UTILITY POLE
200033	585037.93	1519578.62	705.92	BENCHM SET IN UTILITY POLE
200034	583637.16	1519589.71	706.35	BENCHM SET IN UTILITY POLE
200035	582388.71	1520396.20	707.88	BENCHM SET IN UTILITY POLE
200036	582381.31	1520977.36	707.51	BENCHM SET IN UTILITY POLE
200037	581118.81	1520593.04	709.88	BENCHM SET IN UTILITY POLE
200038	581077.31	1520808.91	709.04	MAG SET IN PAVEMENT
200039	582427.71	1519559.10	706.34	BENCHM SET IN UTILITY POLE

DRAWING INDEX	
SHEET NO.	DESCRIPTION
GENERAL	
01	COVER SHEET
02	LOCATION PLAN AND SCOPE OF WORK PLAN AND DRAWING INDEX
03	SYMBOLS, ABBREVIATIONS AND GENERAL NOTES
MAINTENANCE OF TRAFFIC	
04 - 05	MAINTENANCE OF TRAFFIC
06 - 07	MAINTENANCE OF TRAFFIC DETAILS
PLAN AND PROFILE SHEETS	
07 - 44	PLAN AND PROFILE - LINE A
MISCELLANEOUS DETAILS	
45 - 46	MISCELLANEOUS DETAILS
47 - 50	EROSION CONTROL DETAILS

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Drawing: X:\Hogdale\_OH\703222\_Hogdale\_Village\_WTP\_Contract\_A-Water\_Main\DWG\Sheets\703222-GS.dwg | Layout: 102 | Plotter: 01/22/26 @ 10:17:35 | LastSavedBy: traval

SCALE VERIFICATION	DRAWN BY	TWL	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	ACH				
	APPROVED BY	AMS				
	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				

**W**  
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**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOLGATE, OHIO

**LOCATION PLAN AND SCOPE OF WORK PLAN AND DRAWING INDEX**

SHEET NO.  
**02**

TOTAL SHEETS  
**50**

ENV-4113  
02/20/2026



**EXISTING FEATURES LEGEND**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BENCH MARK		CISTERN		EASEMENT - CONSTRUCTION/PERMANENT
	TEMPORARY BENCH MARK		ELECTRIC METER		LOT BOUNDARY
	SOIL BORING LOCATION		AIR CONDITIONING UNIT		PROPERTY BOUNDARY
	SECTION CORNER		UTILITY RISER (DEFINED BY UTILITY)		RIGHT-OF-WAY - TEMPORARY/PERMANENT
	DRILL HOLE IN CONCRETE/HARRISON MONUMENT		UTILITY PEDESTAL (DEFINED BY UTILITY)		SECTION BOUNDARY
	CONTROL POINT (SET/FOUND)		UTILITY MARKER (DEFINED BY UTILITY)		WETLANDS
	MAGNETIC NAIL (SET/FOUND)		JOINT POWER/TELEPHONE POLE		CONTOUR - INTERMEDIATE ELEVATION
	BOAT SPIKE (SET/FOUND)		LIGHT POLE		CONTOUR - INDEX ELEVATION
	PK NAIL (SET/FOUND)		LIGHT ON POWER POLE		OVERHEAD ELECTRIC
	RAILROAD SPIKE (SET/FOUND)		LIGHT ON JOINT POLE		OVERHEAD CABLE TV
	R/W MARKER - CONCRETE/GRANITE/STONE		POWER POLE		OVERHEAD TELEPHONE
	IRON PIPE/IRON PIN/REBAR (WITH DIAMETER)		TELEPHONE POLE		UNDERGROUND CABLE TV
	BRASS PLUG		LAMP POST		UNDERGROUND ELECTRIC
	CABLE TV MANHOLE		GUY ANCHOR		UNDERGROUND FIBER OPTIC
	ELECTRIC MANHOLE		GUY POLE OR STUB		GAS MAIN
	GAS MANHOLE		CONTROLLER CABINET		DIGESTER GAS
	OTHER MANHOLE		FLAG POLE		PETROLEUM MAIN
	TELEPHONE MANHOLE		POST		UNDERGROUND TELEPHONE
	TELEPHONE VAULT		GROUND LIGHT		WATER MAIN
	TRAFFIC MANHOLE		MAILBOX		WATER SERVICE
	TRAFFIC HANDHOLE		DOUBLE/MULTIPLE MAILBOX		FORCE MAIN
	WATER MANHOLE		MAST ARM POLE		GRAVITY SEWER PIPE
	AIR RELEASE VALVE		TRAFFIC SIGNAL STRAIN POLE		PLANT CHLORINE PIPE
	SANITARY SEWER MANHOLE		SIGNAL LOOP DETECTOR BOX		TOP OF BANK/SLOPE OF SLOPE
	DRAINAGE/STORM SEWER MANHOLE		SIGNAL LOOP DETECTOR LOOP		CENTERLINE OF DITCH/SWALE/STREAM
	SANITARY SEWER CLEANOUT		SIGN - SINGLE POST		FENCE - FIELD
	SEPTIC TANK		SIGN - DOUBLE POST		FENCE - METAL
	VALVE VAULT		SIGN - RAILROAD SIGNAL		FENCE - WOOD
	BEEHIVE INLET		SIGN - RAILROAD CROSSING		GUARDRAIL
	CURB INLET		BUSH		STREAM
	DROP INLET		STUMP		TREE/BRUSH LINE
	CATCH BASIN		TREE - CONIFEROUS		
	DOWNSPOUT		TREE - DECIDUOUS		
	GAS METER		ROCK OUTCROP		
	GAS VALVE		SATELLITE		
	GAS SERVICE VALVE		SPRINKLER CONTROL VALVE		
	PETROLEUM VALVE		WATER METER		
	PETROLEUM SHUTOFF VALVE		WATER VALVE		
	GAS STATION MONITORING WELL		WATER SERVICE VALVE		
	GAS STATION FILL CAP		WATER WELL		
	NATURAL GAS WELL/STORAGE WELL		WET WELL		
	SPRINKLER HEAD		WET WELL		
	YARD HYDRANT		PROCESS VALVE		

\*NOTE: THIS TABLE IS A LISTING OF TYPICAL SYMBOLS AND MAY NOT INCLUDE ALL EXISTING SYMBOLS FOUND WITHIN THIS PLAN SET. IF A QUESTION ARISES ON THE MEANING OF ANY SYMBOL NOT LISTED IN THIS TABLE, PLEASE CONTACT THE ENGINEER FOR CLARIFICATION. THE SYMBOLS ARE NOT TO SCALE.

**TABLE OF ABBREVIATIONS**

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	LB	POUND(S)
ALUM	ALUMINUM	LF	LINEAR FEET
APP	APPARENT	LN	LANE
APPROX	APPROXIMATE(LY)	LS	LIFT STATION
ASPH	ASPHALT	MA EX	MATCH EXISTING
ASSOC	ASSOCIATES	MJ	MECHANICAL JOINT
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS	MATL	MATERIAL
AVE	AVENUE	MAX	MAXIMUM
AVG	AVERAGE	MH	MANHOLE
BLDG	BUILDING	MIN	MINIMUM
BLVD	BOULEVARD	MISC	MISCELLANEOUS
BM	BENCHMARK	MNFR	MANUFACTURER
CO	CLEANOUT	NN	NORTHING, NORTH
CI	CAST IRON	NGS	NATIONAL GEODETIC SURVEY
CL	CENTER LINE	NO.	NUMBER
CMA	COLD MIX ASPHALT	OC	ON CENTER
CMP	CORRUGATED METAL PIPE	OD	OUTSIDE DIAMETER
CMU	CONCRETE MASONRY UNIT	ODOT	OHIO DEPARTMENT OF TRANSPORTATION
CONC	CONCRETE	PC	POINT OF CURVE (BEGIN CURVE)
CONT	CONTINUOUS	POLY	POLYETHYLENE
CNR	CORNER	PI	POINT OF INTERSECTION
CP	CONTROL POINT	POT	POINT ON TANGENT
CPP	CORRUGATED PLASTIC PIPE	PT	POINT OF TANGENT (END CURVE)
CR STN	CRUSHED STONE	PSI	POUNDS PER SQUARE INCH
CYD	CUBIC YARD	PT	POINT
D	DEPTH	PVC	POLYVINYL CHLORIDE
DI	DUCTILE IRON	R	RADIUS
DI MJ	DUCTILE IRON MECHANICAL JOINT	ROW	RIGHT-OF-WAY
DBL	DOUBLE	RCP	REINFORCED CONCRETE PIPE
DIA	DIAMETER	RD	ROAD
DIP	DUCTILE IRON PIPE	S	SOUTH
DIPS	DUCTILE IRON PIPE SIZE	SR	STATE ROUTE
DR	DRIVE	SS	STAINLESS STEEL
E	EASTING, EAST	SVA	SERVICE VALVE ASSEMBLY
EF	EACH FACE	SB	SOIL BORING
EW	EACH WAY	SCHED	SCHEDULE
EA	EACH	SDR	STANDARD DIMENSION RATIO
EJ	EAST JAPAN IRON WORKS	SECT	SECTION
EL	ELEVATION	SF	SQUARE FEET
EX	EXISTING	SHT	SHEET
EXP	EXPANSION	SPECS	SPECIFICATION(S)
FIN	FINISH FLOOR ELEVATION	SQ	SQUARE
FM	FORCE MAIN	SRF	STATE REVOLVING FUND
FT	FEET	ST	STREET
FTG	FOOTING	STA	STATION
GALV	GALVANIZED	SYD	SQUARE YARD
GPS	GLOBAL POSITIONING SYSTEM	TBM	TEMPORARY BENCHMARK
HMA	HOT MIX ASPHALT	TC	TOP OF CASTING
HDPE	HIGH DENSITY POLYETHYLENE	TYP	TYPICAL
HORIZ	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
ID	INSIDE DIAMETER	USGS	US GEOLOGICAL SURVEY
IE	INVERT ELEVATION	VERT	VERTICAL
INC	INCORPORATED	VLV	VALVE
INSTR	INSTRUMENT	W	WIDTH, WEST
INV	INVERT	WSE	WATER SURFACE ELEVATION
IPS	IRON PIPE SIZE	YR	YEAR

\*NOTE: THIS TABLE IS A LISTING OF TYPICAL ABBREVIATIONS AND MAY NOT INCLUDE ALL ABBREVIATIONS FOUND WITHIN THIS PLAN SET. IF A QUESTION ARISES ON THE MEANING OF AN ABBREVIATION NOT LISTED IN THIS TABLE, PLEASE CONTACT THE ENGINEER FOR CLARIFICATION.

**GENERAL NOTES:**

- NOTIFY THE ENGINEER IF ANY CONFLICTING INFORMATION BECOMES APPARENT IN THE CONTRACT DOCUMENTS AS SOON AS POSSIBLE AND PRIOR TO THE COMMENCEMENT OF ANY WORK IN THE VICINITY OF OR RELATIVE TO THE APPARENT CONFLICT SO THAT CLARIFICATION MAY OCCUR PRIOR TO CONSTRUCTION.
- ANY ALTERATIONS TO THESE DRAWINGS NOT AUTHORIZED BY WESSLER ENGINEERING AND NOT IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS AND RECORDS ON FILE AT WESSLER ENGINEERING SHALL RELIEVE WESSLER ENGINEERING OF ANY RESPONSIBILITY FOR THE ACCURACY OF THE DRAWINGS.
- USE CAUTION DURING THE EXECUTION OF WORK TO PREVENT DAMAGE TO STATE, COUNTY, MUNICIPAL, AND PRIVATE PROPERTY. REPAIR ALL DAMAGES AS A RESULT OF OPERATIONS, INCLUDING DAMAGE TO DRAINAGE STRUCTURES, FIELD TILES, PUBLIC/PRIVATE ROADS, AND LANDSCAPING (INCLUDING FENCING). REPAIR AND REPLACE DAMAGED ITEMS AT NO ADDITIONAL COST TO THE OWNER. PERFORM ALL REPAIR AND REPLACEMENT WORK TO THE SATISFACTION OF THE PERMITTING AGENCY, THE OWNER AND THE ENGINEER.
- TAKE CARE TO AVOID DAMAGE TO PAVED AREAS WHICH ARE NOT SPECIFICALLY CALLED OUT FOR REPAIR OR REPLACEMENT. REPAIR, OR REPLACE ALL SUCH PAVEMENTS WHICH ARE DAMAGED BY CONSTRUCTION ACTIVITIES AND CONSTRUCTION TRAFFIC AT NO ADDITIONAL COST TO THE OWNER.
- OBTAIN ALL TEMPORARY EASEMENTS REQUIRED FOR THE CONSTRUCTION OF THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.
- COMPLY WITH ALL APPLICABLE PERMITS AND REGULATIONS. APPLICABLE PERMITS ISSUED TO THE OWNER WILL BE MADE AVAILABLE TO THE CONTRACTOR. CONTACT ALL APPLICABLE PERMITTING AGENCIES WITHIN THE TIME PERIOD SPECIFIED BY THAT AGENCY PRIOR TO BEGINNING OF CONSTRUCTION.
- ALL PRIVATE WELL LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. FIELD VERIFY AND DETERMINE EXACT LOCATIONS OF ALL PRIVATE WELLS IN THE PROJECT AREA.
- ALL EXISTING AND NEW UTILITY INFORMATION, INCLUDING BUT NOT LIMITED TO LOCATION, SIZE AND INVERT ELEVATION, IS SHOWN BASED UPON AVAILABLE INFORMATION. THE ENGINEER DOES NOT GUARANTEE OR ASSUME SUCH INFORMATION TO BE TRUE, ACCURATE, COMPLETE, INCLUSIVE OR EVEN APPROXIMATE. CONTACT THE OHIO UTILITIES PROTECTION SERVICE (UAPS) AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY. CONTACT NON-MEMBER UTILITIES DIRECTLY.
- DETERMINE WHICH UTILITIES MAY CONFLICT WITH WORK AND VERIFY THEIR LOCATION, SIZE AND ELEVATION PRIOR TO CONSTRUCTION. DETERMINE IF THERE ARE ANY DISCREPANCIES OR CONFLICTS. IF ANY DISCREPANCIES OR CONFLICTS ARE DISCOVERED, NOTIFY THE ENGINEER AS SOON AS POSSIBLE.
- EXISTING UTILITY SERVICE LINES TO INDIVIDUAL CUSTOMERS MAY NOT BE SHOWN ON THE DRAWINGS. ASSUME THAT ALL UNDERGROUND SERVICE LINES FOR ALL UTILITIES EXIST TO EACH PROPERTY ALONG THE ROUTE OF THE PLANNED IMPROVEMENTS.
- COORDINATE ALL WORK WITH THE RESPECTIVE UTILITIES. SCHEDULE WORK ACCORDINGLY, AND NOTIFY ALL UTILITIES A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY.
- COORDINATE PLANNED UTILITY SERVICE INTERRUPTIONS WITH THE RESPECTIVE UTILITIES AND THE UTILITIES' AFFECTED CUSTOMERS. SERVICE INTERRUPTIONS SHOULD NOT LAST MORE THAN FOUR (4) HOURS. GIVE WRITTEN NOTICE TO ALL AFFECTED UTILITY CUSTOMERS AND PROPERTY OWNERS AT LEAST TWENTY-FOUR (24) HOURS BUT NOT MORE THAN SEVENTY-TWO (72) HOURS PRIOR TO ANY PLANNED INTERRUPTION OF UTILITY SERVICE.
- USE CAUTION DURING THE EXECUTION OF WORK TO PREVENT DAMAGE TO EXISTING UTILITIES. REPAIR OR REPLACE ALL PUBLIC AND PRIVATE FACILITIES DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS. BRACE AND PROTECT ALL UTILITY POLES AND EXISTING STRUCTURES ADJACENT TO NEW EXCAVATIONS. UTILITY POLE BRACING SHALL BE AS DIRECTED BY THE GOVERNING UTILITY.
- MAINTAIN EXISTING STORMWATER DRAINAGE AND SANITARY CONVEYANCE FOR THE ENTIRE DURATION OF THE PROJECT.
- DO NOT DISTURB EXISTING MANHOLES OR INLETS, UNLESS NOTED OTHERWISE.
- ALL EQUIPMENT, APPURTENANCES AND PIPING REMOVED AS PART OF THE DEMOLITION SHALL FIRST BE OFFERED TO THE OWNER FOR SALVAGE. DELIVER SALVAGED ITEMS SELECTED BY OWNER TO A LOCATION DESIGNATED BY THE OWNER OR ENGINEER. IN THE EVENT THE OWNER DOES NOT ELECT TO KEEP THE REMOVED ITEMS, REMOVE SUCH ITEMS FROM THE SITE AND DISPOSE OF AT A LOCATION APPROVED FOR SUCH DISPOSAL AT THE CONTRACTOR'S EXPENSE.
- COORDINATE STAGING AREA LOCATIONS WITH THE OWNER.
- ALL CONSTRUCTION TRAFFIC SHALL USE MAJOR ROADS. NO CONSTRUCTION TRAFFIC SHALL USE LOCAL STREETS FOR INDIRECT ACCESS.
- TO CONTROL DUST, REMOVE SOIL FROM STREETS USED BY CONSTRUCTION TRAFFIC DAILY. VACUUM AND WATER AS NECESSARY AND/OR AS DIRECTED BY THE OWNER.
- ALL EXISTING PIPING MAY NOT BE SHOWN. REFERENCE EXISTING RECORD DRAWINGS ON FILE WITH THE OWNER AND WESSLER ENGINEERING FOR ADDITIONAL INFORMATION OF EXISTING PIPING AND CONDUIT THROUGHOUT THE PLANT SITE.
- THE WORK SHOWN ON THESE DRAWINGS IS OCCURRING ON A PLANT SITE IN WHICH BURIED ELECTRICAL CONDUIT AND SMALL PIPING MAY EXIST THROUGHOUT AND IN THE VICINITY OF THE PROJECT AND MAY NOT BE SHOWN ON THESE DRAWINGS. EXPECT TO ENCOUNTER BURIED ELECTRICAL AND COMMUNICATIONS WIRING, WITH OR WITHOUT CONDUIT, SMALL PIPING, AND FIELD TILE WHILE DIGGING ON THIS SITE.
- NEW PIPING CARRYING LIQUIDS SHALL HAVE MINIMUM COVER AS DEFINED IN SPEC 02860 (60" MINIMUM), UNLESS SPECIFIC ELEVATIONS ON THE DRAWINGS INDICATE OTHERWISE.
- COMPLETELY REMOVE UNDERGROUND PIPING THAT HAS PREVIOUSLY BEEN OR WILL BE TAKEN OUT OF SERVICE, IN CONFLICT WITH THE NEW WORK. UNLESS OTHERWISE NOTED, ABANDON IN PLACE ALL UNDERGROUND PIPING NOT IN CONFLICT WITH THE NEW WORK. DO NOT LEAVE ABANDONED PIPING LIVE. SEE SPECIFICATION SECTION 02050 FOR DEMOLITION PROCEDURES. SEE SPECIFICATION SECTION 01550 FOR PLANT OPERATIONS DURING CONSTRUCTION FOR COORDINATION OF DEMOLITION WORK AND NEW CONSTRUCTION.
- LENGTHS OF SEWERS AS SHOWN ON THE DRAWINGS AND INDICATED AS LINEAR FEET (LF) ARE FROM CENTER TO CENTER OF STRUCTURES.
- VERIFY EXISTING SEWER INVERTS AND LOCATIONS PRIOR TO CONSTRUCTION AND DETERMINE IF THERE ARE ANY DISCREPANCIES OR CONFLICTS.
- RESET ALL MAILBOXES AND SIGNS DISTURBED BY CONSTRUCTION ACTIVITIES.
- IF REQUIRED, PLACE TEMPORARY OVERNIGHT AGGREGATE WEDGES AT DRIVEWAYS TO ALLOW PROPERTY OWNER ACCESS.

**UTILITY CONTACTS**

<p><b>WATER AND SEWER</b> VILLAGE OF HOLGATE 101 KAUFMAN ST. HOLGATE, OH 43527 419-604-0145 ATTN: JASON MICHEL</p> <p>CITY OF NAPOLEON 255 W. RIVERVIEW AVE. NAPOLEON, OH 43545 419-592-4010 ATTN: CHAD LULFS</p> <p><b>NATURAL GAS</b> OHIO GAS COMP ANY - WAUSEON 715 E. WILSON ST BRYAN, OH 43506 419-630-2233 ATTN: KRIS HANDSHOE</p> <p><b>NATURAL GAS TRANSMISSION MAIN</b> ENERGY TRANSFER 3990 CROOKED LAKE RD. HOWELL, MI 48843 419-309-2885 ATTN: RUSSEL LAYFIELD</p> <p>TC ENERGY 419-438-0208 ATTN: TODD FLORY</p> <p><b>TELEPHONE</b> AYERSVILLE TELEPHONE 27932 WATSON RD. DEFIANCE, OH 43512 419-395-2222 ATTN: PHIL MAAG</p> <p>RIDGEVILLE TELEPHONE S732 CO. RD. 20B RIDGEVILLE CORNERS, OH 43555 419-267-5285 ATTN: DAVID GOBROGGE</p>	<p><b>ELECTRIC</b> TOLEDO EDISON (USIC) 900 LEMOYNE RD NORTHWOOD, OH 43619 419-249-5094 ATTN: BRENT THORNE</p> <p>TRI COUNTY RURAL ELECTRIC COOPERATIVE 8945 COUNTY ROAD K2 MALINTA, OH 43535 ATTN: CHRIS OKULEY</p> <p>CITY OF NAPOLEON 255 W. RIVERVIEW AVE. NAPOLEON, OH 43545 419-592-4010 ATTN: CHAD LULFS</p>
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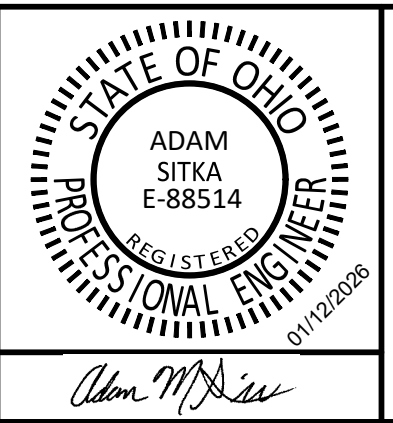
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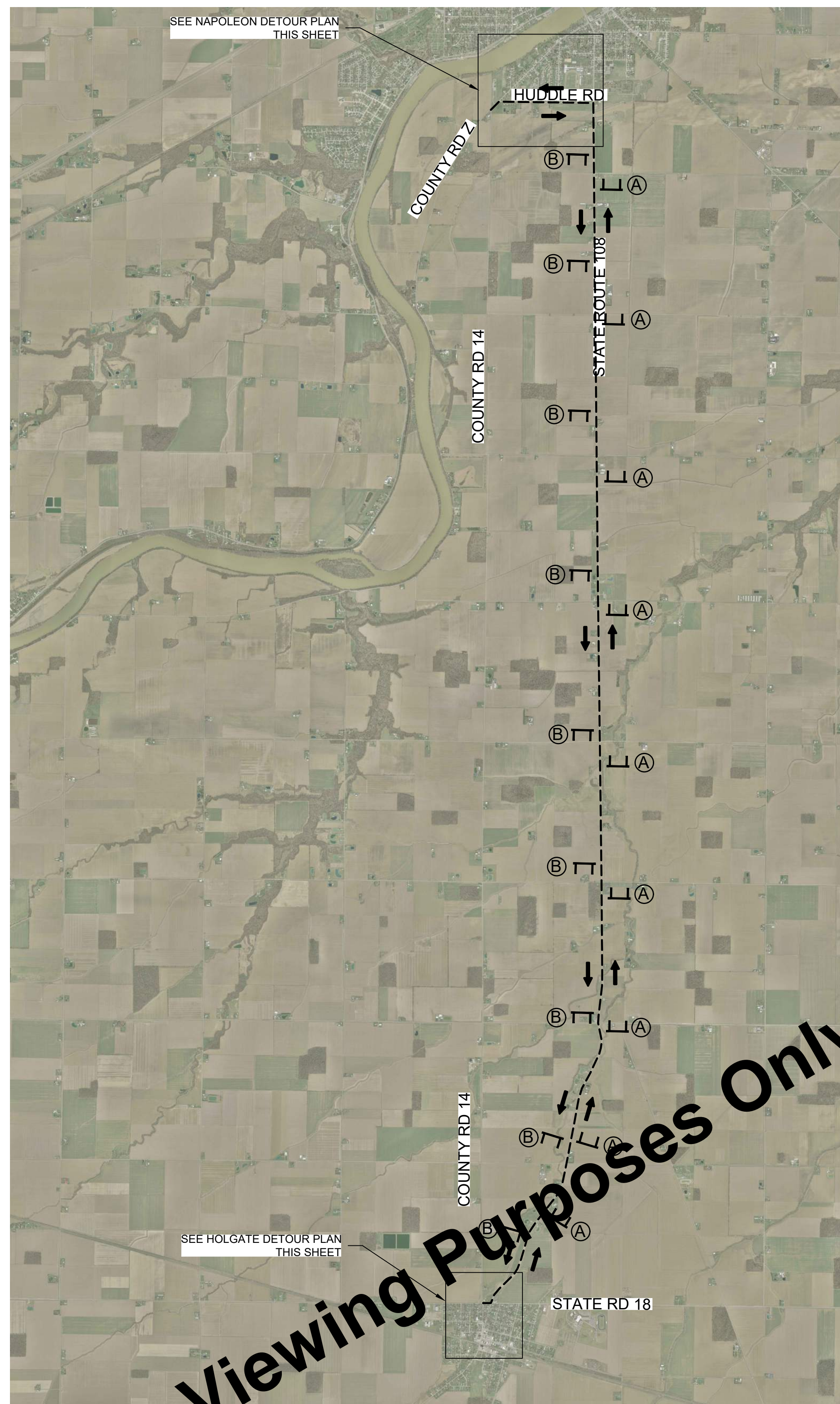
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	APPROVED BY	AMS				
	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				



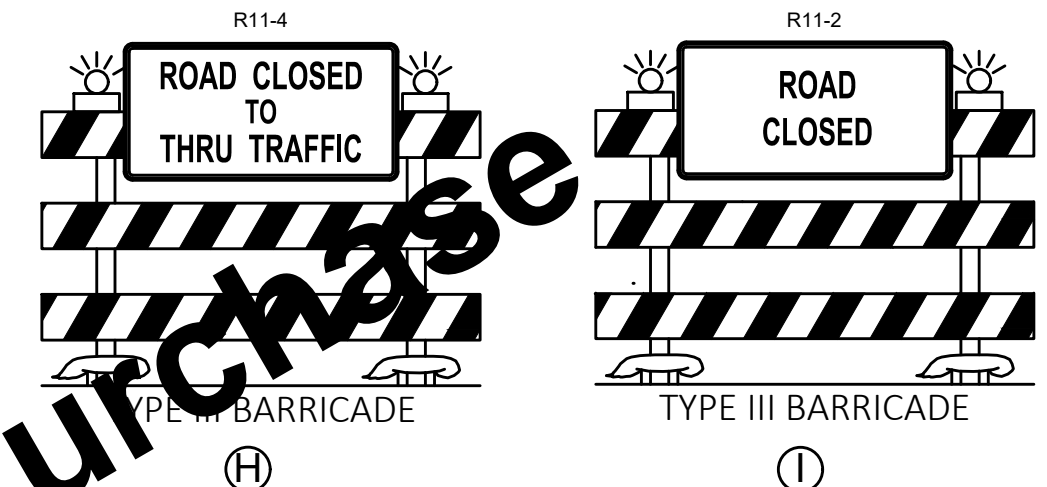
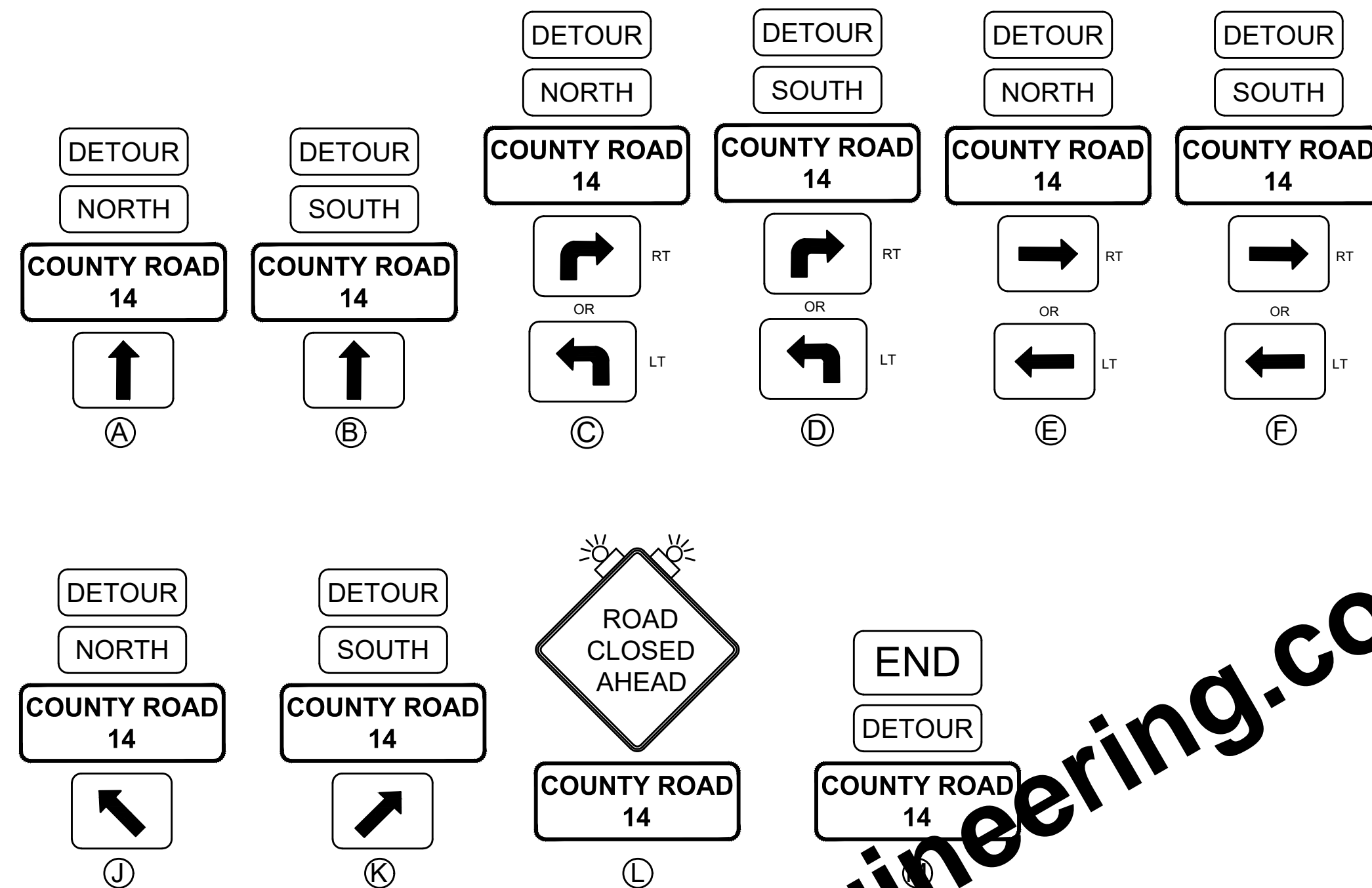
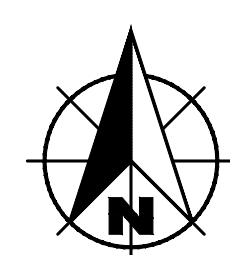
**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOLGATE, OHIO

**SYMBOLS, ABBREVIATIONS AND GENERAL NOTES**

SHEET NO.	03
TOTAL SHEETS	50



**OVERALL DETOUR PLAN**  
SCALE: 1" = 3000'



**TRAFFIC CONTROL LEGEND**

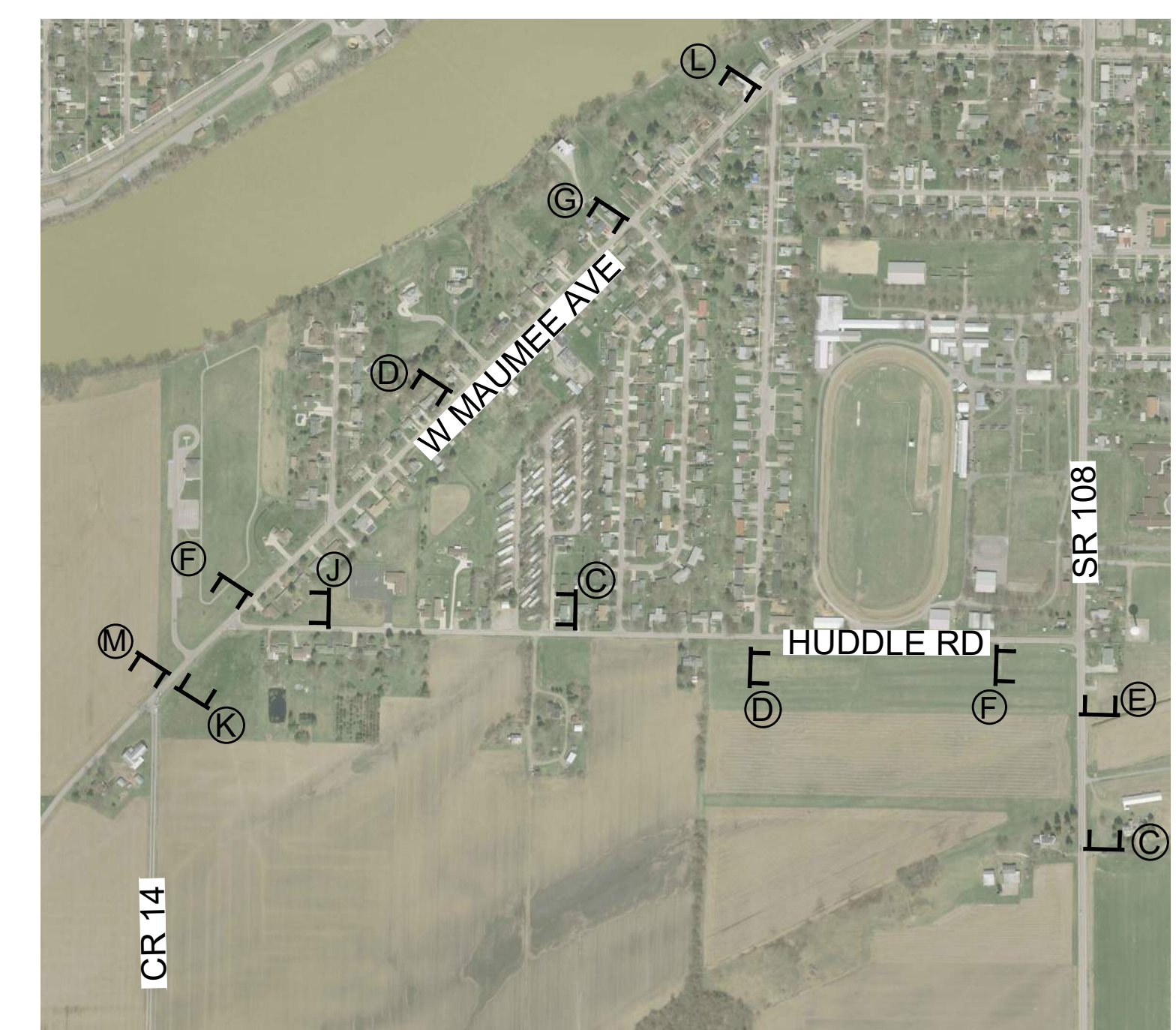
- DETOUR ROUTE
- TRAFFIC FLOW DIRECTION
- SIGN

**TRAFFIC CONTROL NOTES**

1. PROTECTION OF AND ACCESS FOR: PEDESTRIANS, EMERGENCY VEHICLES, AND ADJACENT RESIDENTIAL AND COMMERCIAL PROPERTIES SHALL BE MAINTAINED DURING CONSTRUCTION.
2. TEMPORARY DETOUR SIGNS SHALL BE INSTALLED ON POST DRIVEN INTO THE GROUND PER ODOT STANDARD DRAWINGS IN RURAL SETTINGS, OR ON SUPPORTS FABRICATED WITH TEE LEGS AND WEIGHTS IN AREAS WITH PAVEMENT, SIDEWALKS OR OTHER SURFACES IN URBAN AREAS WHERE POST HOLES ARE NOT DESIRABLE.
3. CONTRACTOR SHALL PATROL THE ENTIRE DETOUR ROUTE AT LEAST 3X PER WEEK TO REPLACE OR RESET ANY DAMAGED SIGNS.
4. PROVIDE SIGNS IN COMPLIANCE WITH THE ODOT (LATEST EDITION) AND THE CURRENT ODOT STANDARDS.
5. COORDINATE CLOSURES WITH ALL EMERGENCY AGENCIES AND SCHOOL DISTRICTS. THE CONTRACTOR IS TO NOTIFY THE SCHOOL DISTRICT AND OTHER RELEVANT LOCAL AGENCIES AT LEAST 2 WEEKS PRIOR TO THE ACTUAL DATE OF ROAD CLOSURE.
6. LIMIT ACTIVE WORK AREAS AS NECESSARY TO FACILITATE ACCESS TO RESIDENCES. WORK AREAS AND THEIR ASSOCIATED SIGNAGE SHALL BE ADJUSTED/MOVED AS NECESSARY WITH CONSTRUCTION PROGRESS.
7. NOTIFY EACH RESIDENT OR PROPERTY OWNER OF WORK WHICH WILL IMPACT THEIR PROPERTY A MINIMUM OF 2 BUSINESS DAYS IN ADVANCE OF RESTRICTING ACCESS TO THE PROPERTY.
8. REFERENCE SPECIFICATION SECTION 01010 AND 01500 FOR LANE RESTRICTIONS AND WORKING HOURS.
9. INSTALL SIGNS (A) AND (M) NO MORE THAN 2 MILES APART AND IMMEDIATELY FOLLOWING MAJOR INTERSECTIONS.
10. INSTALL SIGNS (C) AND (D) APPROXIMATELY 750 FT PRIOR TO TURN.
11. INSTALL SIGNS (E) AND (F) JUST PRIOR TO INTERSECTION.
12. USE THESE DETOUR PLANS IN CONJUNCTION WITH MAINTENANCE OF TRAFFIC DETAILS (SHEET 06) FOR WORK ALONG COUNTY ROAD 14.



**HOLGATE DETOUR PLAN**  
SCALE: 1" = 400'

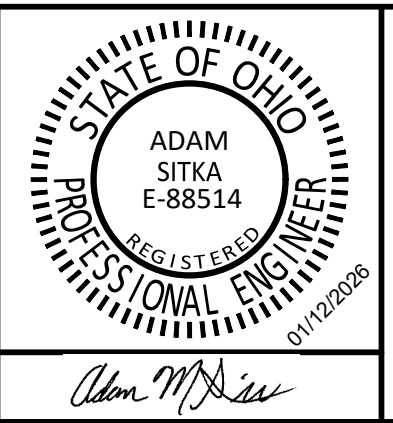


**NAPOLEON DETOUR PLAN**  
SCALE: 1" = 600'

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Drawing: X:\holgate\_oh\703222\Holgate WTP\Contract A - Water Main\DWG\Sheet\703222-PN-TR.dwg | Layout: 01 | Plotter: 012226 @ 10:18:33 | LastSavedBy: imsl

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	APPROVED BY	AMS				
	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				



**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOLGATE, OHIO

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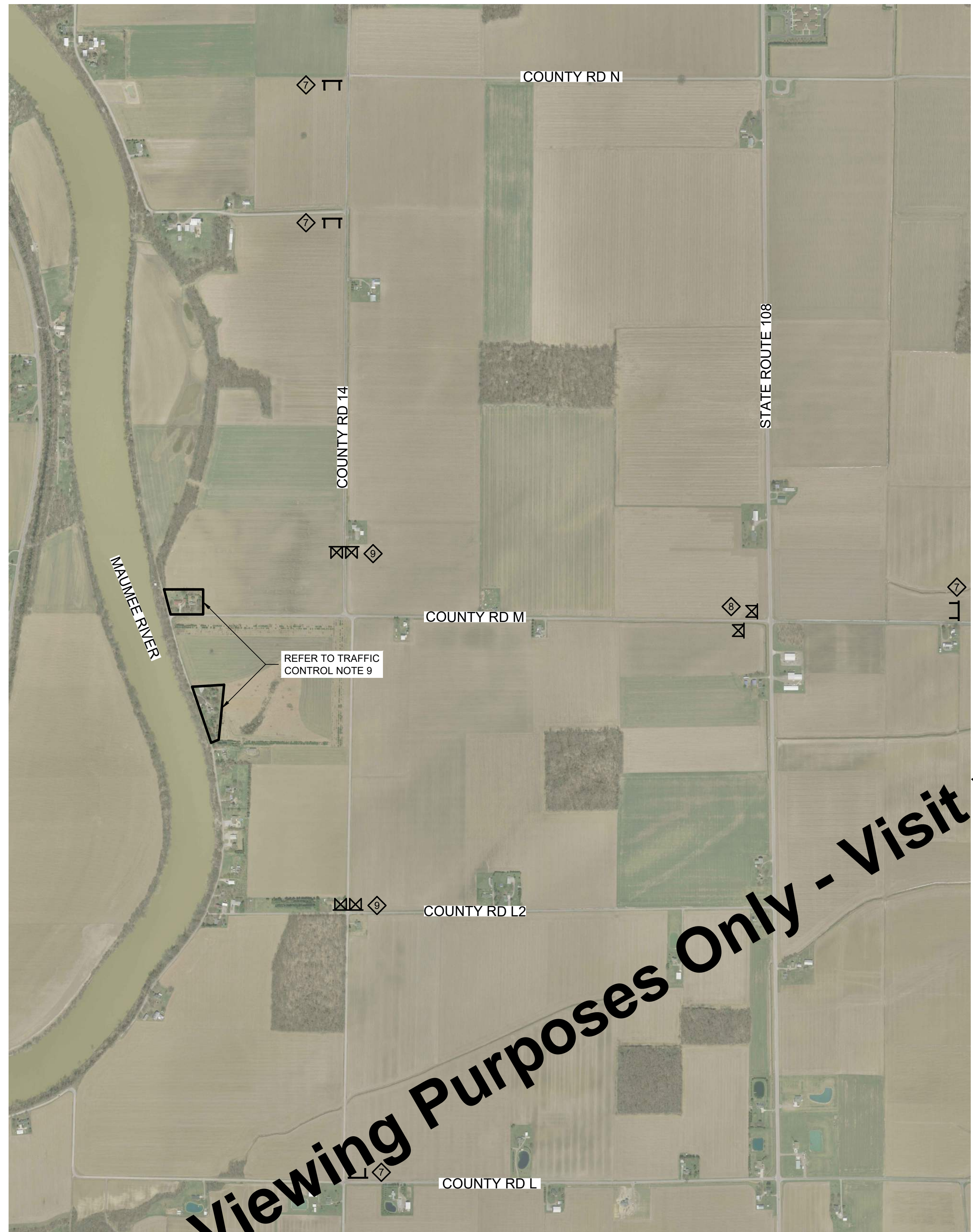
**MAINTENANCE OF TRAFFIC**

SHEET NO.  
**04**

TOTAL SHEETS  
**50**

JOB NO. W-4113  
DATE: 02/20/2026





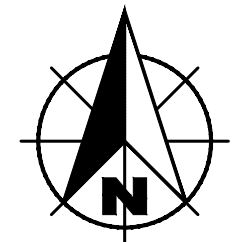
COUNTY ROADS M & 14 INTERSECTION WORK PLAN

SCALE: 1" = 700'



COUNTY ROADS L2 & 14 INTERSECTION WORK PLAN

SCALE: 1" = 600'



**TRAFFIC CONTROL LEGEND**

- "ROAD CLOSED AHEAD" (W20-3)
- "ROAD CLOSED TO THRU TRAFFIC" (R11-4)
- "ROAD CLOSED" (R11-2)
- ROAD CLOSURE SIGN ASSEMBLY, INCLUDES SPECIFIED SIGN, BARRICADE TYPE III B, AND TYPE B CONSTRUCTION WARNING LIGHT
- SIGN

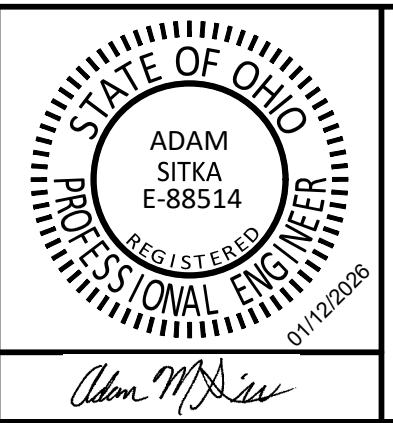
**TRAFFIC CONTROL NOTES**

1. PROTECTION OF AND ACCESS FOR: PEDESTRIANS, EMERGENCY VEHICLES, AND ADJACENT RESIDENTIAL AND COMMERCIAL PROPERTIES SHALL BE MAINTAINED DURING CONSTRUCTION.
2. TEMPORARY DETOUR SIGNS SHALL BE INSTALLED ON POST DRIVEN INTO THE GROUND PER ODOT STANDARD DRAWINGS IN RURAL SETTINGS, OR ON SUPPORTS FABRICATED WITH TEE LEGS AND WEIGHTS IN AREAS WITH PAVEMENT, SIDEWALKS OR OTHER SURFACES IN URBAN AREAS WHERE POST HOLES ARE NOT DESIRABLE.
3. CONTRACTOR SHALL PATROL THE ENTIRE DETOUR ROUTE AT LEAST 3X PER WEEK TO REPLACE OR RESET ANY DAMAGED SIGNS.
4. PROVIDE SIGNS IN COMPLIANCE WITH THE ODOTCD (LATEST EDITION) AND THE CURRENT ODOT STANDARDS.
5. COORDINATE CLOSURES WITH ALL EMERGENCY AGENCIES AND SCHOOL DISTRICTS. THE CONTRACTOR IS TO NOTIFY THE SCHOOL DISTRICT AND OTHER RELEVANT LOCAL AGENCIES AT LEAST 2 WEEKS PRIOR TO THE ACTUAL DATE OF ROAD CLOSURE.
6. LIMIT ACTIVE WORK AREAS AS NECESSARY TO FACILITATE ACCESS TO RESIDENCES. WORK AREAS AND THEIR ASSOCIATED SIGNAGE SHALL BE ADJUSTED/MOVED AS NECESSARY WITH CONSTRUCTION PROGRESS.
7. NOTIFY EACH RESIDENT OR PROPERTY OWNER OF WORK WHICH WILL IMPACT THEIR PROPERTY A MINIMUM OF 2 BUSINESS DAYS IN ADVANCE OF RESTRICTING ACCESS TO THE PROPERTY.
8. REFERENCE SPECIFICATION SECTION 01010 AND 01500 FOR LANE RESTRICTIONS AND WORKING HOURS.
9. SEVERAL PROPERTIES NEAR THE MAUMEE RIVER HAVE NO OUTLET OTHER THAN COUNTY ROAD M. THEREFORE, LIMITED ACCESS THROUGH COUNTY ROAD M HAS TO BE MAINTAINED DURING INTERSECTION WORK TO FACILITATE THEIR ACCESS TO PROPERTIES. COORDINATE IN ADVANCE WITH RESIDENTS AS NECESSARY.
10. THESE PROPERTIES NEAR THE MAUMEE RIVER HAVE NO OUTLET OTHER THAN COUNTY ROAD L2. THEREFORE, LIMITED ACCESS THROUGH COUNTY ROAD L2 HAS TO BE MAINTAINED DURING INTERSECTION WORK TO FACILITATE THEIR ACCESS TO PROPERTIES. COORDINATE IN ADVANCE WITH RESIDENTS AS NECESSARY.

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	APPROVED BY	AMS				
	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				



<b>WATER SYSTEM IMPROVEMENTS</b> CONTRACT A NEW WATER TRANSMISSION MAIN VILLAGE OF HOGDALE, OHIO	<b>MAINTENANCE OF TRAFFIC</b>
--	-------------------------------

SHEET NO.	<b>05</b>
TOTAL SHEETS	<b>50</b>



**TRAFFIC CONTROL NOTES**

1. PROTECTION OF AND ACCESS FOR: PEDESTRIANS, EMERGENCY VEHICLES, AND ADJACENT RESIDENTIAL AND COMMERCIAL PROPERTIES SHALL BE MAINTAINED DURING CONSTRUCTION.
2. TEMPORARY DETOUR SIGNS SHALL BE INSTALLED ON POST DRIVEN INTO THE GROUND PER ODOT STANDARD DRAWINGS IN RURAL SETTINGS, OR ON SUPPORTS FABRICATED WITH TEE LEGS AND WEIGHTS IN AREAS WITH PAVEMENT, SIDEWALKS OR OTHER SURFACES IN URBAN AREAS WHERE POST HOLES ARE NOT DESIRABLE.
3. CONTRACTOR SHALL PATROL THE ENTIRE DETOUR ROUTE AT LEAST 3X PER WEEK TO REPLACE OR RESET ANY DAMAGED SIGNS.
4. PROVIDE SIGNS IN COMPLIANCE WITH THE ODOTCD (LATEST EDITION) AND THE CURRENT ODOT STANDARDS.
5. COORDINATE CLOSURES WITH ALL EMERGENCY AGENCIES AND SCHOOL DISTRICTS. THE CONTRACTOR IS TO NOTIFY THE SCHOOL DISTRICT AND OTHER RELEVANT LOCAL AGENCIES AT LEAST 2 WEEKS PRIOR TO THE ACTUAL DATE OF ROAD CLOSURE.
6. LIMIT ACTIVE WORK AREAS AS NECESSARY TO FACILITATE ACCESS TO RESIDENCES. WORK AREAS AND THEIR ASSOCIATED SIGNAGE SHALL BE ADJUSTED/MOVED AS NECESSARY WITH CONSTRUCTION PROGRESS.
7. NOTIFY EACH RESIDENT OR PROPERTY OWNER OF WORK WHICH WILL IMPACT THEIR PROPERTY A MINIMUM OF 2 BUSINESS DAYS IN ADVANCE OF RESTRICTING ACCESS TO THE PROPERTY.
8. REFERENCE SPECIFICATION SECTION 01010 AND 01500 FOR LANE RESTRICTIONS AND WORKING HOURS.
9. WORK AREAS AS DEPICTED ARE TYPICAL AND MAY VARY FROM THE SIZES AND LOCATIONS SHOWN. IT IS ANTICIPATED THAT AREAS WILL MOVE WITH THE PROGRESSION OF WORK. APPLY SIMILAR CONCEPT TO THAT SHOWN AND DESCRIBED BELOW FOR ALL LOCAL STREET CONSTRUCTION AREAS WHERE APPLICABLE.
10. FOR STREET WORK IN TOWN, THE LENGTH (DISTANCE) OF FULL ROAD CLOSURE MUST BE COORDINATED WITH THE AFFECTED PROPERTY OWNERS TO ENSURE FEASIBLE ACCESS TO RESIDENTS/PROPERTY OWNERS.
11. OTHER MAINTENANCE OF TRAFFIC CONFIGURATIONS MAY BE USED PROVIDED THAT OPERATIONS ARE CONDUCTED IN ACCORDANCE WITH THE ODOTCD AND APPROVED BY THE OWNER PRIOR TO IMPLEMENTATION.

**Table 6H-3. Meaning of Letter Codes on Typical Application Diagrams**

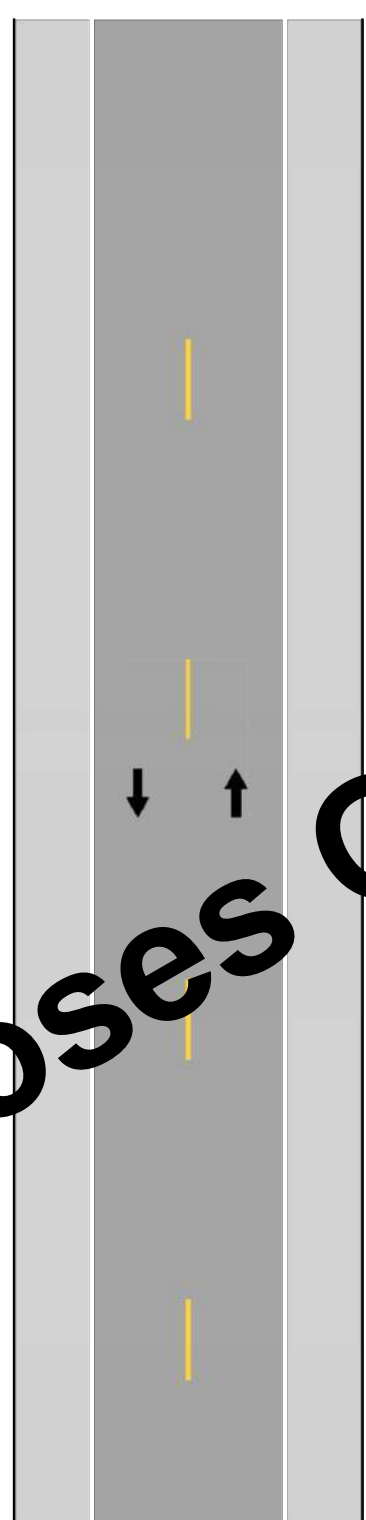
Road Type	Distance Between Signs**		
	A	B	C
Urban (low speed)*	100 feet	100 feet	100 feet
Urban (high speed)*	350 feet	350 feet	350 feet
Rural	500 feet	500 feet	500 feet
Expressway / Freeway	1,000 feet	1,500 feet	2,640 feet

\* Speed category to be determined by highway agency.  
 \*\* The column headings A, B, and C are the dimensions shown in Figures 6H-1 through 6H-46. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The "first sign" is the sign in a three-sign series that is closest to the TTC zone. The "third sign" is the sign that is furthest upstream from the TTC zone.)

**Notes for Figure 6H-1 Typical Application 1 Work Beyond the Shoulder**

- Guidance:**
1. If the work space is in the median of a divided highway, an advance warning sign should also be placed on the left side of the directional roadway.
- Option:**
2. The ROAD WORK AHEAD sign may be replaced with other appropriate signs such as the SHOULDER WORK sign. The SHOULDER WORK sign may be used for work adjacent to the shoulder.
  3. The ROAD WORK AHEAD sign may be omitted where the work space is behind a barrier, more than 24 inches behind the curb, or 15 feet or more from the edge of any roadway.
  4. For short-term, short duration or mobile operation, all signs and channelizing devices may be eliminated if a vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights is used.
  5. Vehicle hazard warning signals may be used to supplement high-intensity rotating, flashing, oscillating, or strobe lights.
- Standard:**
6. Vehicle hazard warning signals shall not be used instead of the vehicles high-intensity rotating, flashing, oscillating, or strobe lights.

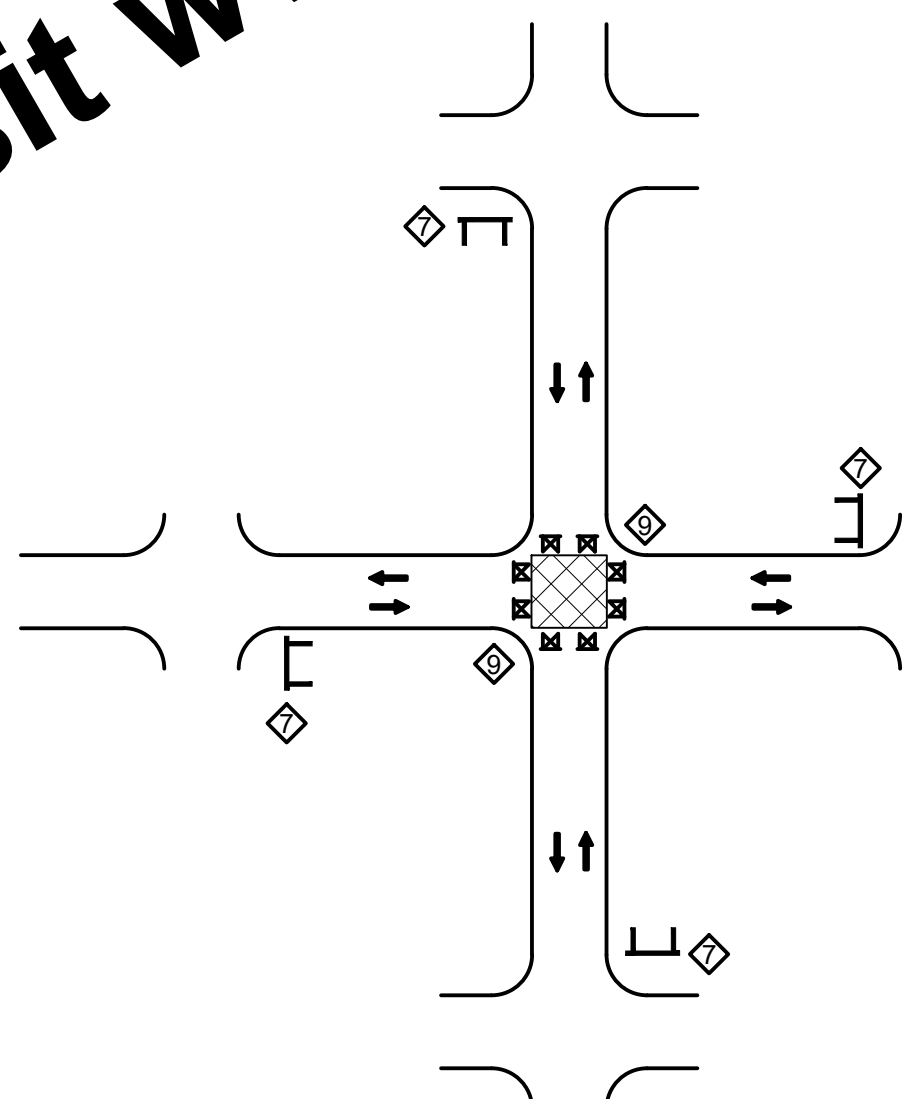
**Figure 6H-1. Work Beyond the Shoulder (TA-1)**



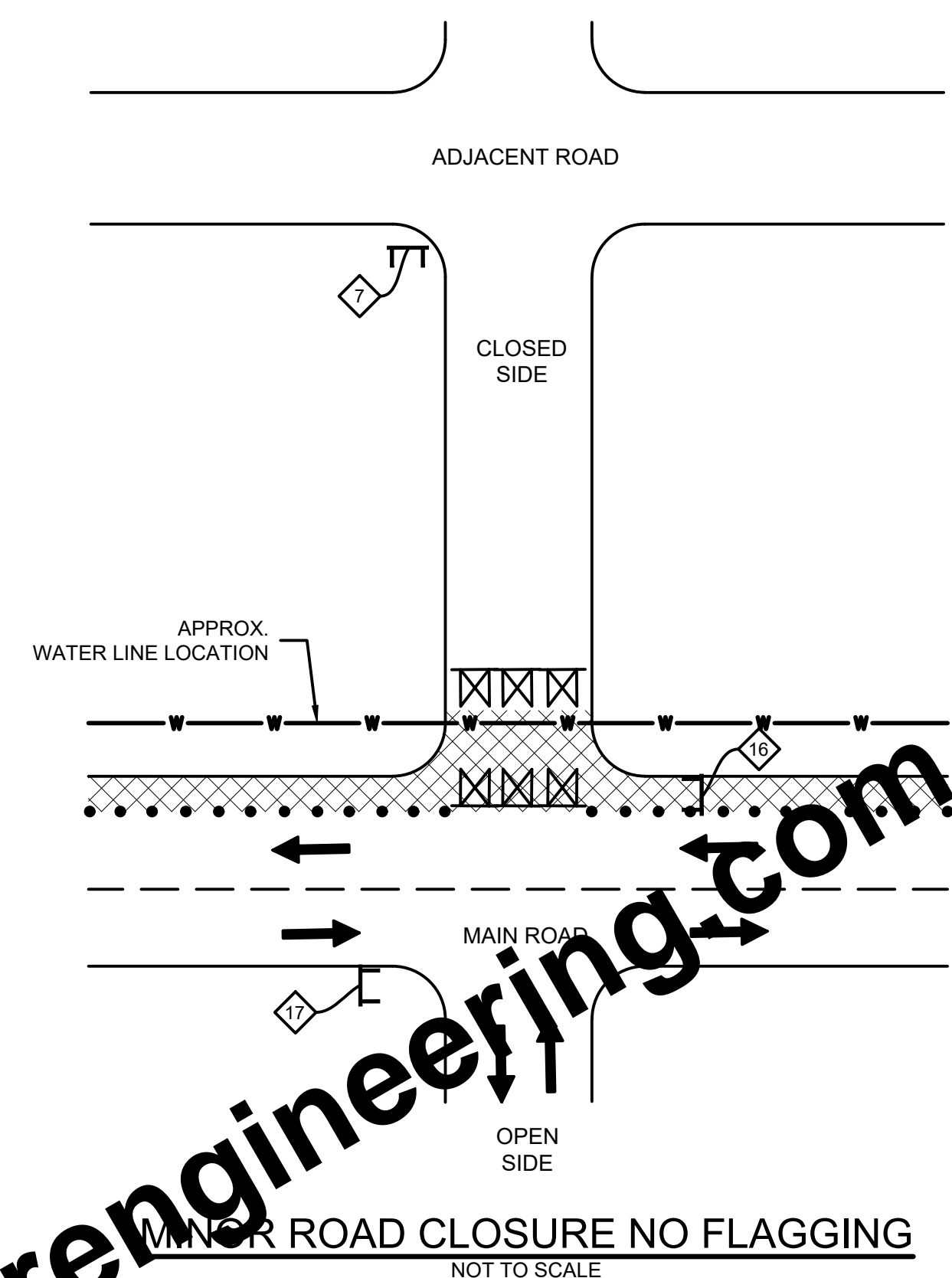
**Typical Application 1**

Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.

**STREET CLOSURE**  
SCALE: NONE

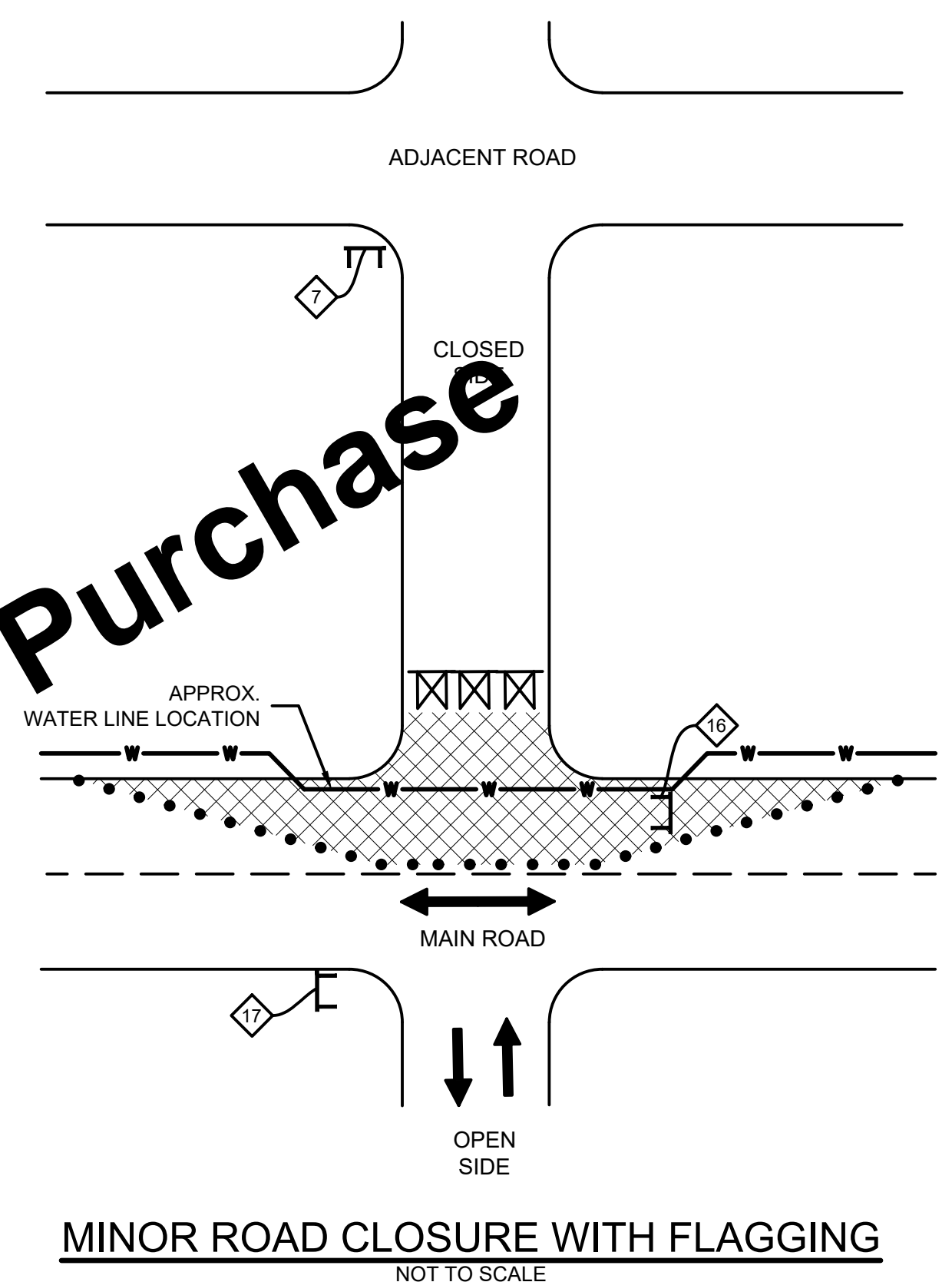


**INTERSECTION CLOSURE**  
SCALE: NONE



**MINOR ROAD CLOSURE NO FLAGGING**  
NOT TO SCALE

- NOTES**
1. THE TRAVEL LANES ON THE MAIN ROAD TO MAINTAIN AT LEAST A 10 FOOT WIDTH EACH. IF 10 FOOT WIDTHS CANNOT BE ESTABLISHED, THEN THE "MINOR ROAD CLOSURE WITH FLAGGING" DETAIL IS TO BE USED.
  2. IF NOT NECESSARY FOR CONSTRUCTION TO ENCROACH ONTO THE MAIN ROAD ADJACENT TRAVEL LANE, THEN SET UP BARRICADES ACROSS THE END OF THE CLOSED SIDE STREET AND OMIT THE TRAFFIC CONTROL DRUMS SHOWN ABOVE.



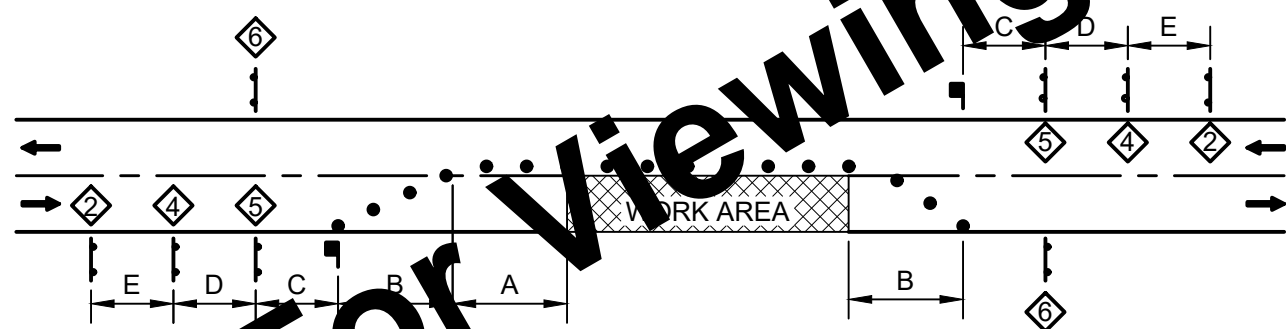
**MINOR ROAD CLOSURE WITH FLAGGING**  
NOT TO SCALE

- NOTES**
1. FOR THE MAIN ROAD ADJACENT TO CONSTRUCTION, USE IN CONJUNCTION WITH THE MAINTENANCE OF TRAFFIC DETAILS IN THE "TEMPORARY FLAGGER OPERATION" AND "ADVANCE WARNING SIGN AND FLAGGER OPERATION SPACING".

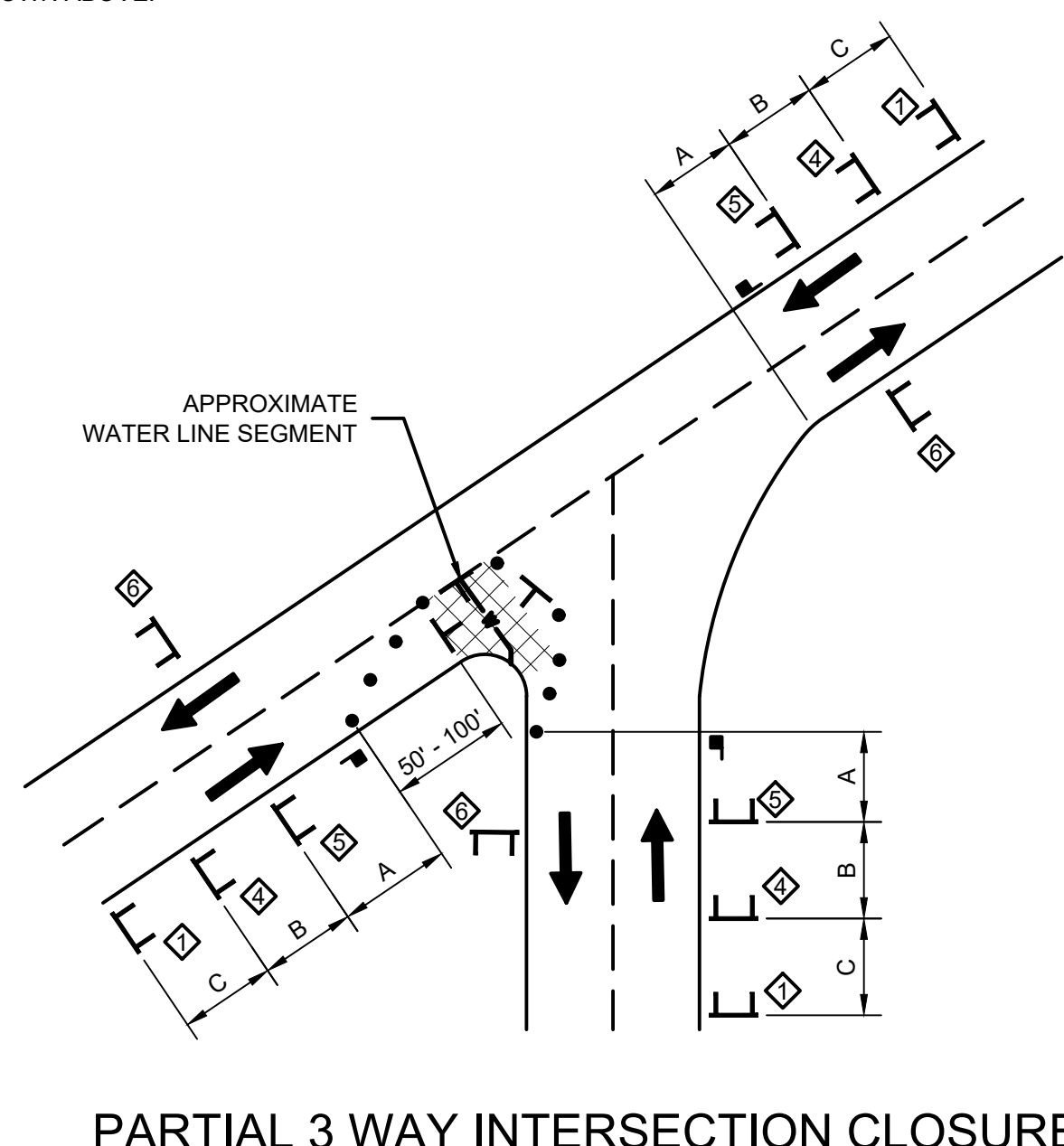
**ADVANCE WARNING SIGN AND FLAGGER OPERATION SPACING**

SPEED (MPH)	DISTANCE (FEET)				
	A	B	C	D	E
20 OR LESS	120	100	100	100	100
25	160	100	100	100	100
30	200	100	100	100	100
35	280	100	350	350	350
40	320	100	350	350	350
45	360	100	500	500	500
50	440	100	500	500	500
55	520	100	500	500	500
60	600	100	1,000	1,600	2,640
65	680	100	1,000	1,600	2,640
70	760	100	1,000	1,600	2,640

- NOTES**
1. DISTANCES SHOWN ARE APPROXIMATE. ADJUST SIGN FOR CURVES, HILLS, INTERSECTIONS, DRIVEWAYS, ETC TO IMPROVE SIGN VISIBILITY.
  2. THE SPACING OF CHANNELIZING DEVICES SHOULD BE A DISTANCE IN FEET EQUAL TO THE SPEED LIMIT IN MPH WHEN USED FOR TAPER CHANNELIZATION, AND A DISTANCE IN FEET EQUAL TO 2.0 TIMES THE SPEED LIMIT IN MPH USED FOR TANGENT CHANNELIZATION.



**TEMPORARY FLAGGER OPERATION**  
SCALE: NONE



**PARTIAL 3 WAY INTERSECTION CLOSURE**  
NOT TO SCALE

- NOTES**
1. REFER TO TABLE 6H-3 OF THE ODOTCD FOR THE SPACING OF SEGMENTS A, B, AND C.
  2. EXCEPT IN EMERGENCIES, FLAGGER STATIONS NEED TO BE ILLUMINATED AT NIGHT.

**TRAFFIC CONTROL LEGEND**

- ▣ WORK AREA(S)
- ◇ "ROAD WORK AHEAD" (W20-1)
- ◇ "UTILITY WORK AHEAD" (W21-7)
- ◇ "ONE LANE ROAD AHEAD" (W20-4)
- ◇ FLAGGER SIGN (W20-7)
- ◇ "END ROAD WORK" (G20-2)
- ◇ "ROAD CLOSED AHEAD" (W20-3)
- ◇ "ROAD CLOSED TO THRU TRAFFIC" (R11-4)
- ◇ "ROAD CLOSED" (R11-2)
- ◇ "NO RIGHT TURN" (R3-1)
- ◇ "NO LEFT TURN" (R3-2)
- LANE LINES
- TRAFFIC CONTROL DRUM
- TRAFFIC FLOW DIRECTION
- ▣ ROAD CLOSURE SIGN ASSEMBLY, INCLUDES SPECIFIED SIGN, BARRICADE TYPE III(B), AND TYPE B CONSTRUCTION WARNING LIGHT
- ▣ FLAGGER
- ▣ SIGN
- ▣ TYPE 3 BARRICADE

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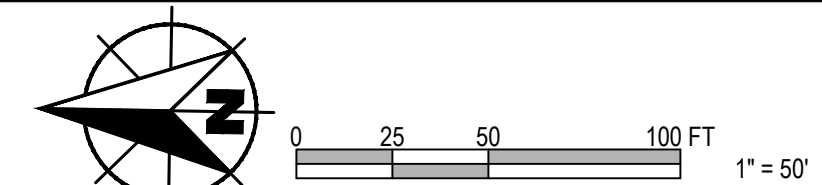
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	APPROVED BY	AMS				
	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				

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**WATER SYSTEM IMPROVEMENTS**  
 CONTRACT A NEW WATER TRANSMISSION MAIN  
 VILLAGE OF HOLGATE, OHIO  
  
**MAINTENANCE OF TRAFFIC DETAILS**

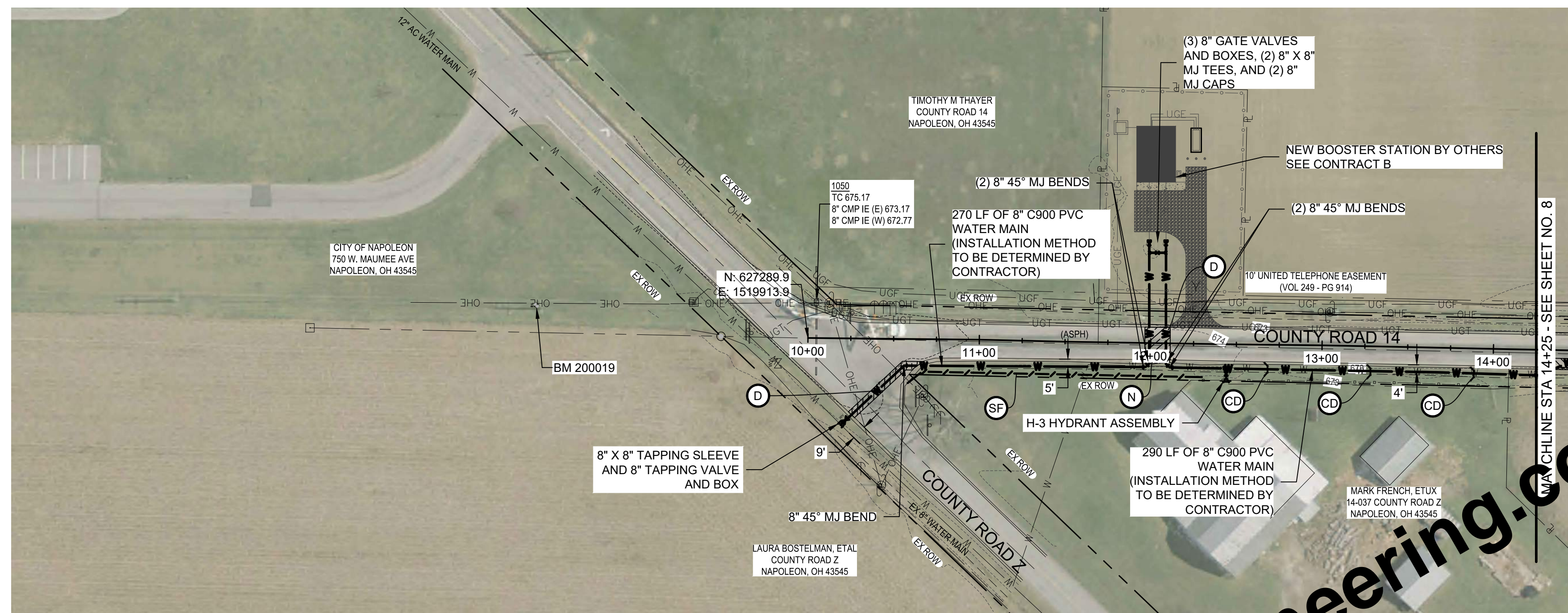
SHEET NO.  
**06**  
 TOTAL SHEETS  
**50**  
01/20/2026

APPROVED  
  
 Environmental Protection Agency



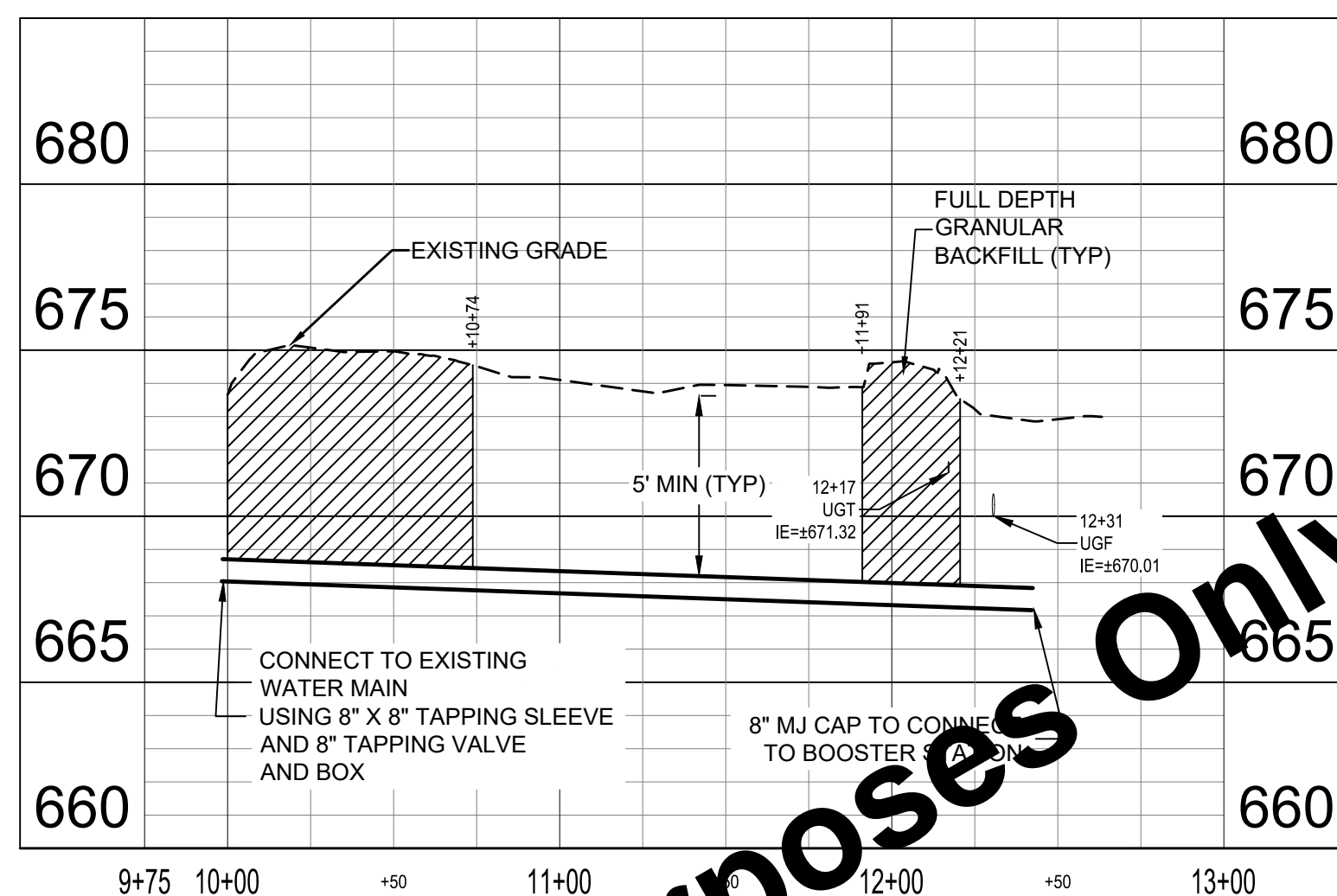
**GENERAL NOTES:**

- FOR WATER MAIN - INSTALLATION METHOD DETERMINED BY CONTRACTOR (SECTION 01990 PAY ITEM NO. 01) NOT SHOWN AS HDD. THE WATER MAIN PLAN SHEET INFORMATION, INCLUDING FITTINGS, RESTORATION, UTILITY CLEARANCES, AND OTHER ITEMS, IS BASED ON AN ASSUMED OPEN CUT INSTALLATION AND IS PROVIDED FOR CLARITY ONLY. IF HDD IS SELECTED, THEN CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE REQUIRED FITTINGS, PAVEMENT RESTORATION, GRANULAR BACKFILL, UTILITY CLEARANCES, AND OTHER ITEMS REQUIRED FOR A COMPLETE INSTALL.
- INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON PLAN SHEETS AND AS NECESSARY TO PROVIDE ADEQUATE CONTROL FOR THE CONSTRUCTION AREA. SEE SPECIFICATION 02101.
- CONTRACTOR TO REPAIR AND REINSTATE ANY DAMAGED FIELD TILE WITHIN 24 HOURS OF OCCURRENCE.
- IF WATER MAIN IS INSTALLED BY OPEN CUT AND ALIGNMENT IS WITHIN 7 FEET OF UTILITY POLES, SUPPORT POLES DURING CONSTRUCTION.
- NO CONSTRUCTION ACTIVITIES, EXCAVATIONS OR LAND DISTURBANCES PERMITTED WITHIN WETLAND.
- 93 ROCK SOUNDINGS WERE COMPLETED TO DETERMINE DEPTH TO ROCK ALONG THE WATER MAIN ALIGNMENT. ROCK WAS NOT ENCOUNTERED WITHIN THE EXPLORATION DEPTHS OF APPROXIMATELY 10 FT. REFER TO APPENDIX A OF THE SPECIFICATIONS FOR THE FULL GEOTECHNICAL EVALUATION.
- LOCATION OF EXISTING WATER MAIN SHOWN IS ESTIMATED BASED ON SURVEYED VALVES AND HYDRANTS AND HISTORIC SYSTEM MAPS. CONTRACTOR TO VERIFY LOCATION. DEPTHS OF UTILITIES SHOWN ON PROFILE VIEW ARE ASSUMED. CONTRACTOR TO VERIFY ANY CONFLICTS.
- BRIGHTSPEED FIBER LINES ARE EXPECTED ON BOTH SIDES OF THE ROAD ALONG THE WATER MAIN ROUTE, BUT EXACT LOCATION IS UNKNOWN. CONTRACTOR TO COORDINATE WITH UTILITY AND MAY BE REQUIRED TO SHIFT THE ALIGNMENT OF PROPOSED WATERLINE TO AVOID CONFLICTS WITH EXISTING FIBER LINES ENCOUNTERED DURING CONSTRUCTION. UGF MARKED IN BOLD ORANGE LINE ON PLAN SHEETS WERE NOT SURVEYED, BUT ADDED TO THE DRAWINGS FOR REFERENCE BASED ON UTILITY COORDINATION. CONTRACTOR TO CONFIRM.



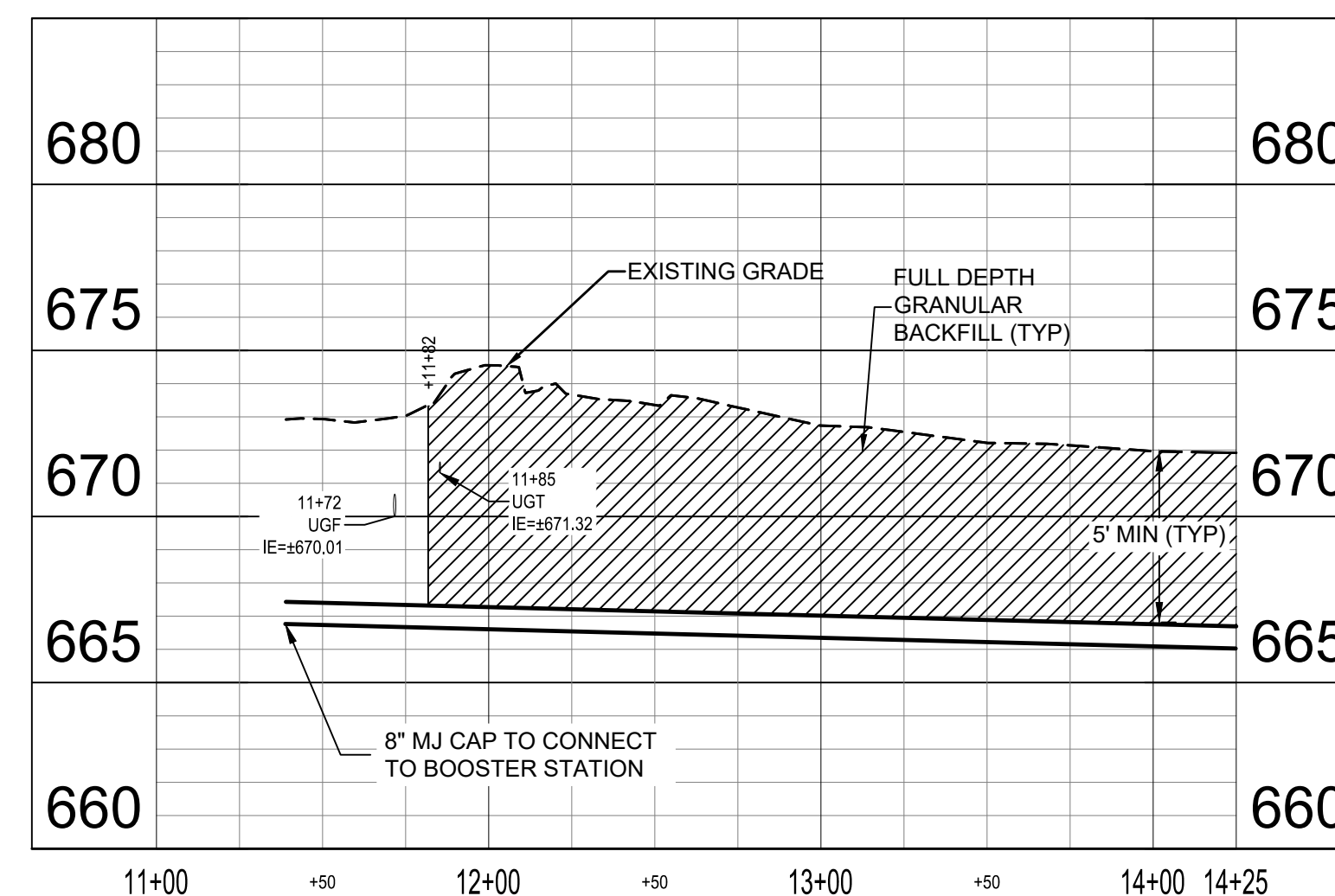
**PLAN - LINE A**

SCALE: 1" = 50'



**PROFILE - BOOSTER STATION INLET LINE**

HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 10'



**PROFILE - BOOSTER STATION EFFLUENT LINE**

HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 10'

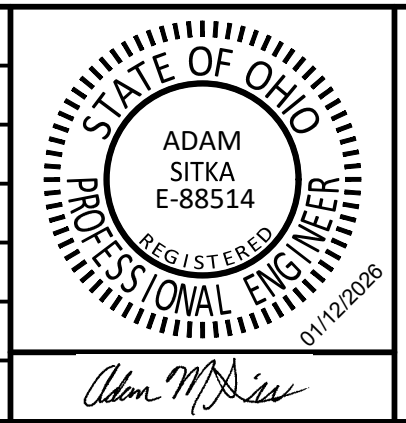
**KEYED NOTES**

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- X POTENTIAL UTILITY CONFLICT. FIELD VERIFY PRIOR TO CONSTRUCTION.

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Drawing: X:\Hogdale\_Oh\703222\_Hogdale WTP\Contract A - Water Main\DWG\Sheet\703222-PP-Plan.dwg | Layout: 00 | Plotter: 01/20/26 @ 11:14:01 | LussSawadyB7r7mval

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	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				



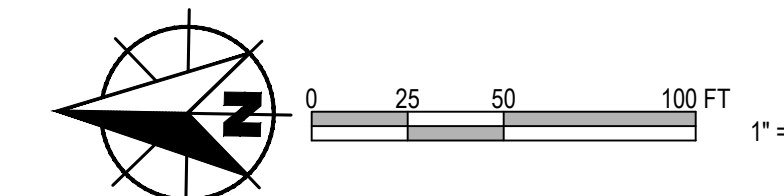
**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOGDALE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.  
**07**

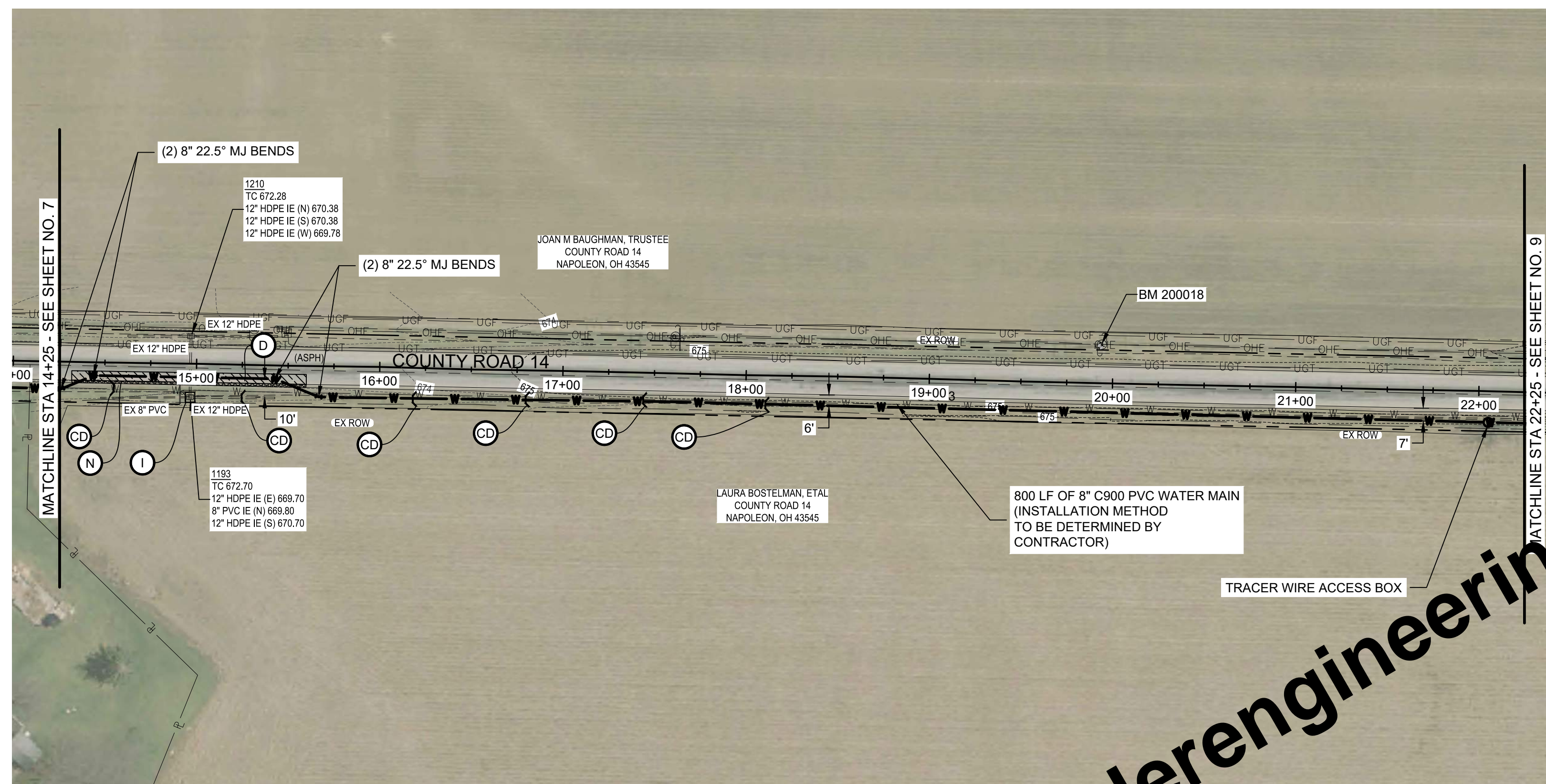
TOTAL SHEETS  
**50**

APPROVED Environmental Protection Agency 02/20/2026



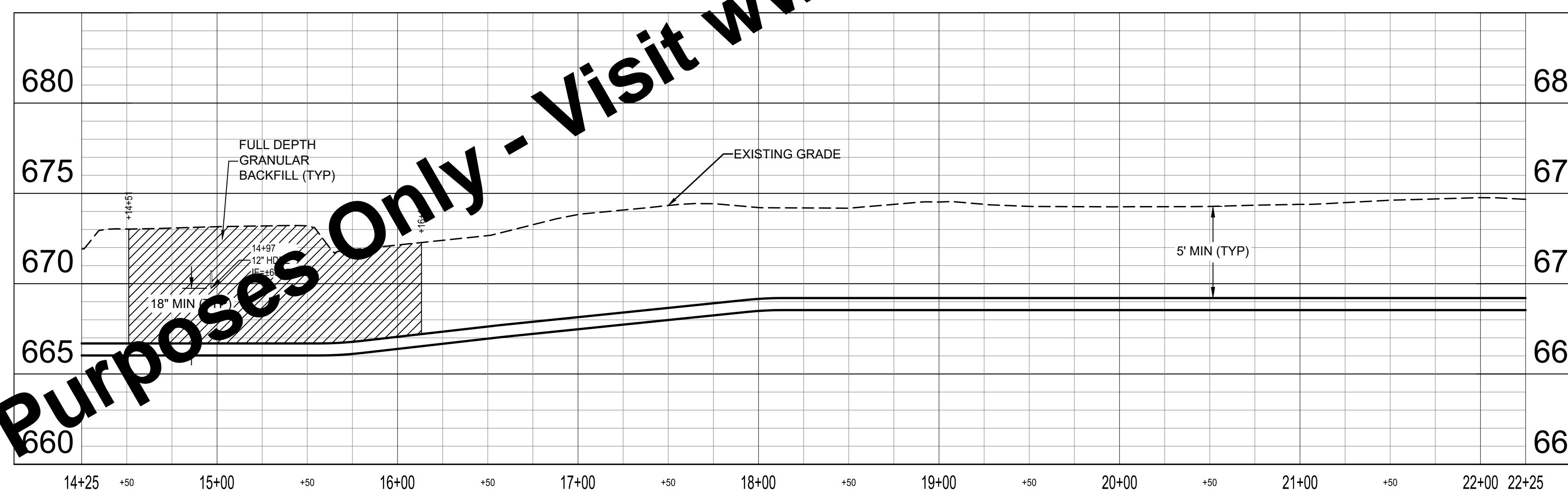
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**PLAN - LINE A**

SCALE: 1" = 50'



**PROFILE - LINE A**

HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 10'

**KEYED NOTES**

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	APPROVED BY	AMS				
	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				

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**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOLGATE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.  
**08**

TOTAL SHEETS  
**50**

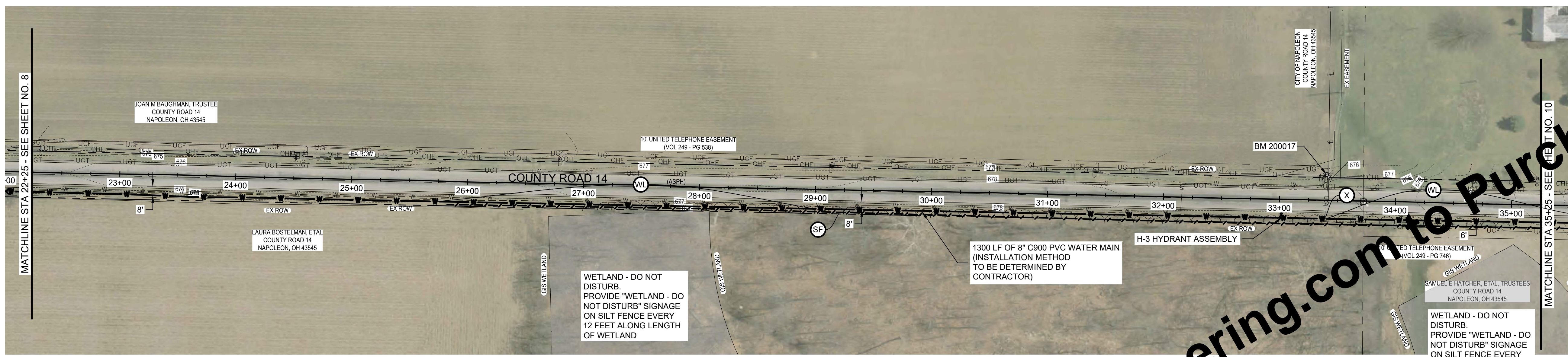
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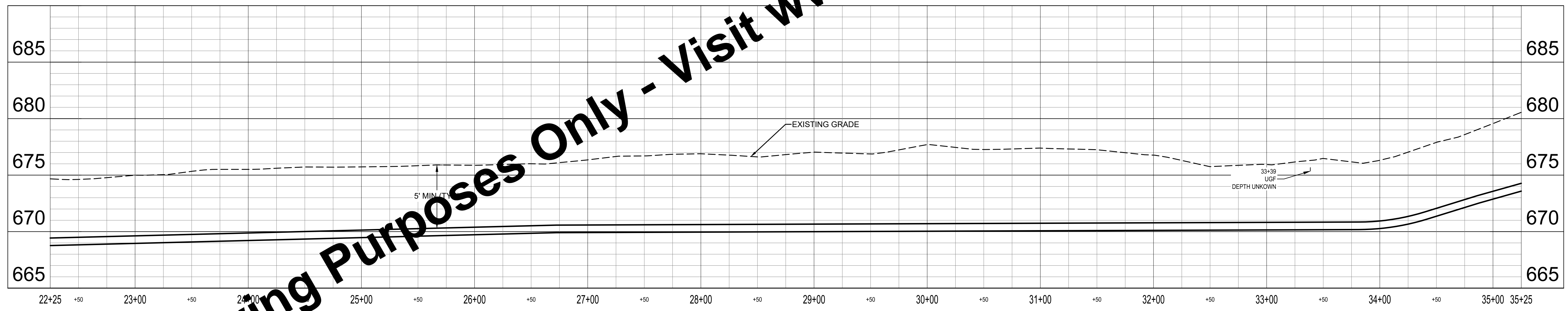
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**PLAN - LINE A**  
SCALE: 1" = 50'



**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 10'

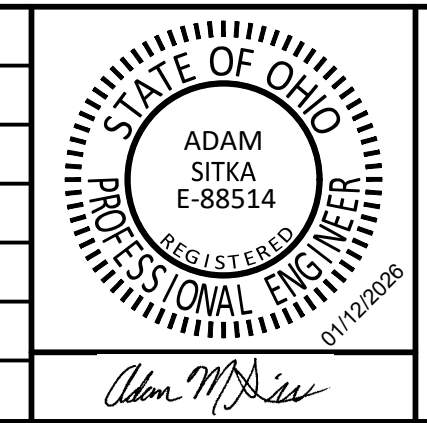
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	CHECKED BY	ACH				
	APPROVED BY	AMS				
	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				



**WATER SYSTEM IMPROVEMENTS**  
 CONTRACT A NEW WATER TRANSMISSION MAIN  
 VILLAGE OF HOGDALE, OHIO

**PLAN AND PROFILE - LINE A**

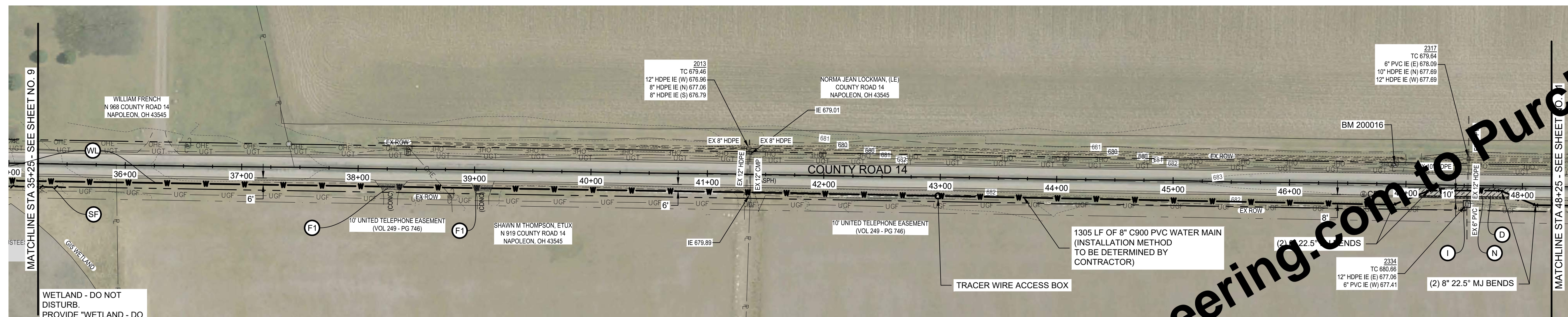
SHEET NO.  
**09**

TOTAL SHEETS  
**50**

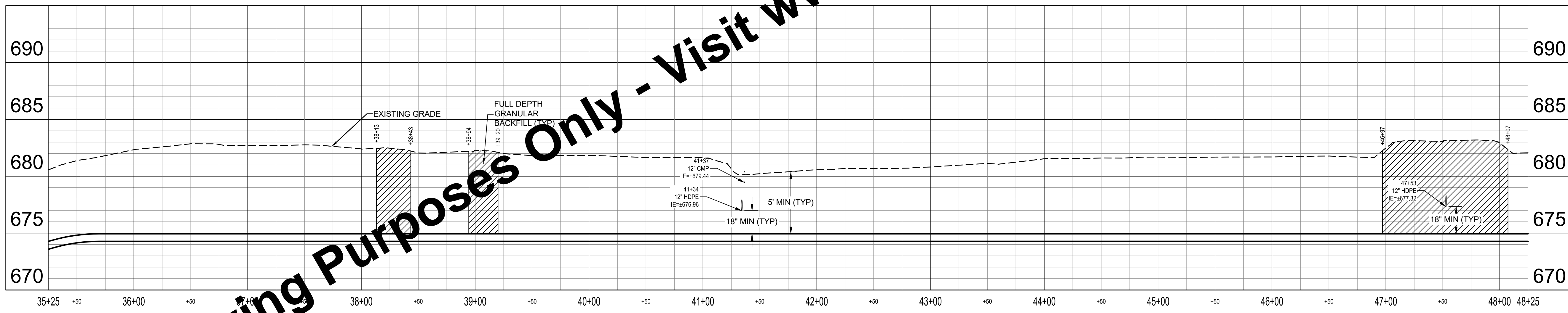
APPROVED  
  
 02/23/2026

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**PLAN - LINE A**  
SCALE: 1" = 50'



**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 10'

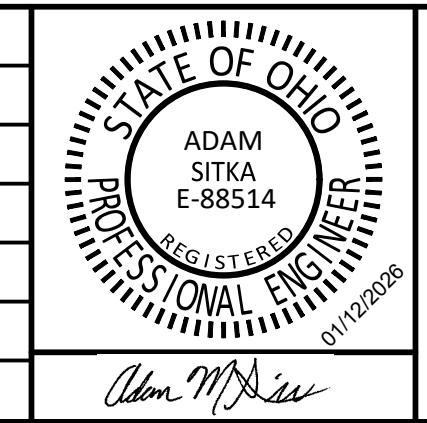
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	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				



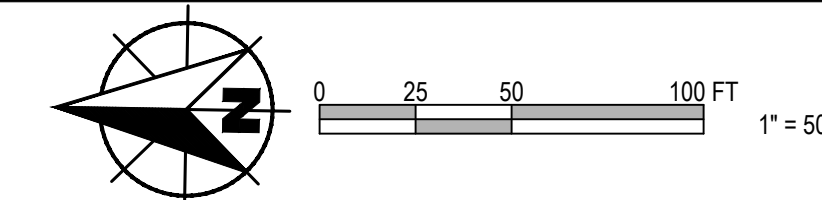
**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOGDALE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.  
**10**

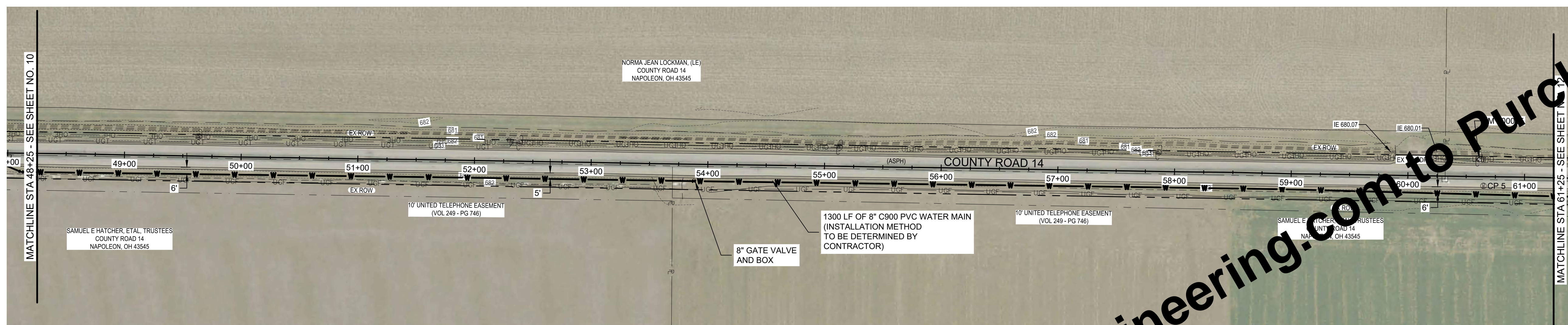
TOTAL SHEETS  
**50**

APPROVED  
Environmental Protection Agency  
02/20/2026



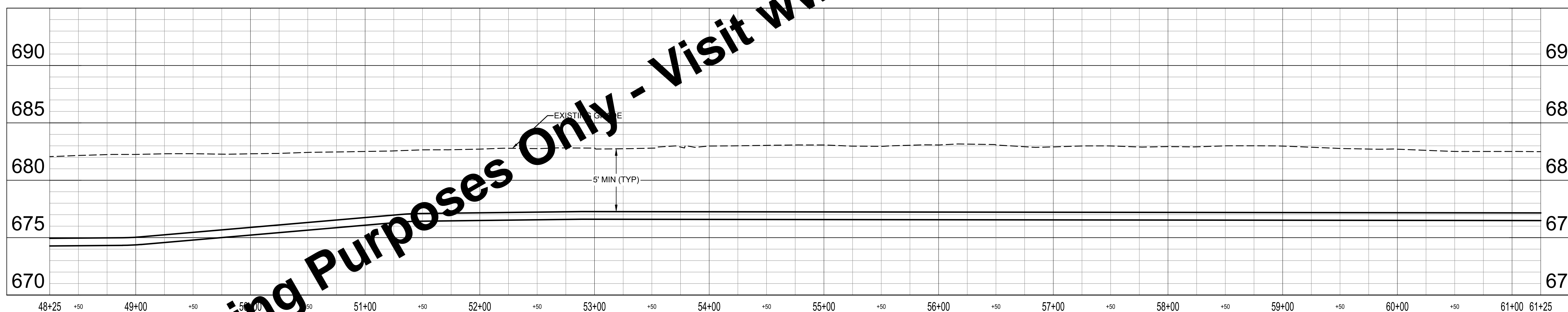
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**PLAN - LINE A**

SCALE: 1" = 50'



**PROFILE - LINE A**

HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 10'

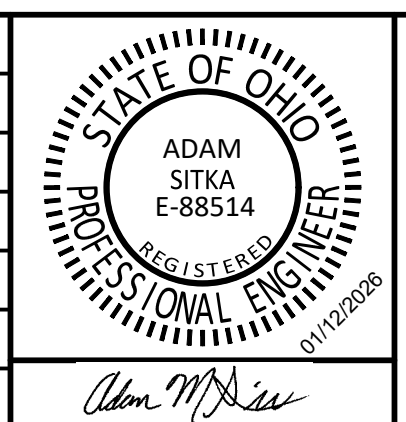
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	APPROVED BY	AMS				
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**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOGDALE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.  
**11**

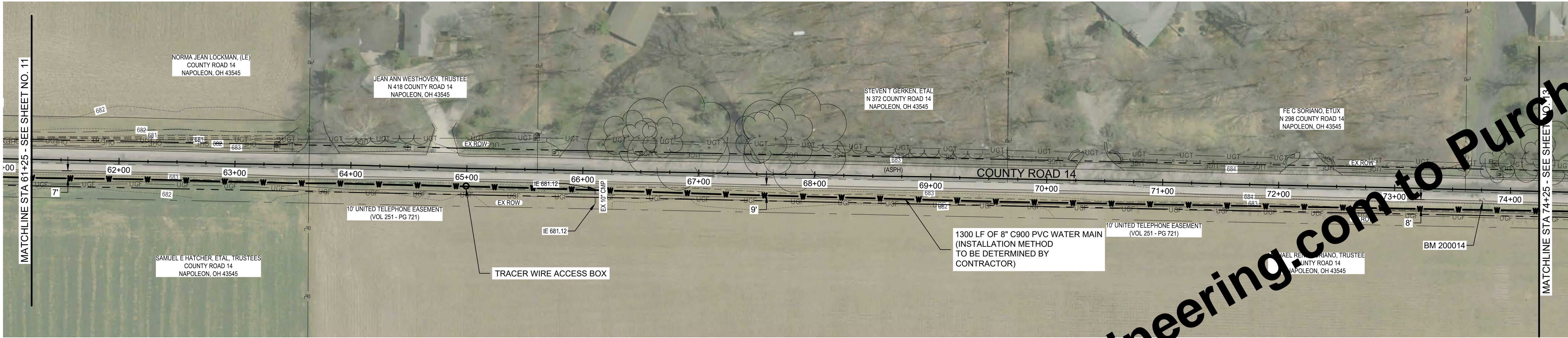
TOTAL SHEETS  
**50**

DATE: 01-17-2026

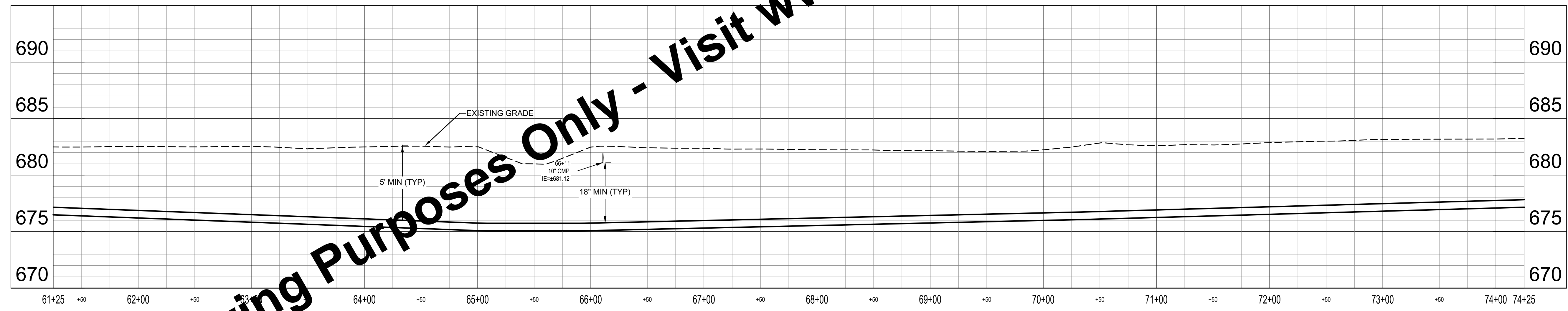


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SCALE: 1" = 50'



**PROFILE - LINE A**  
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VERT SCALE: 1" = 10'

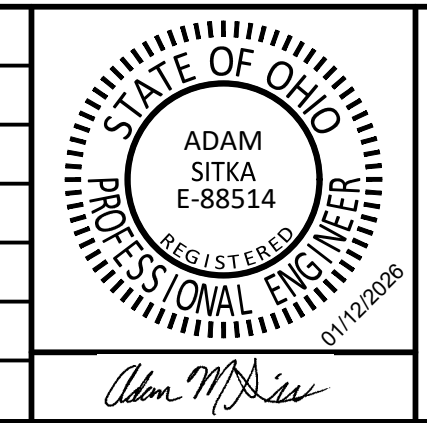
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Drawing: X:\hgd\gdc\703222\703222.dwg | Layout: 05 | Plotter: 01/20/26 @ 11:16:42 | LussSawerBy: lussal

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	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				



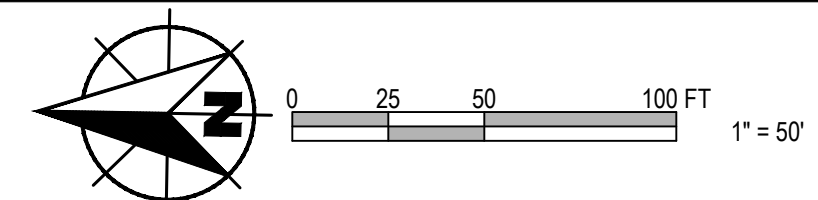
**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOLGATE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.  
**12**

TOTAL SHEETS  
**50**

APPROVED  
Environmental Protection Agency  
02/20/2026

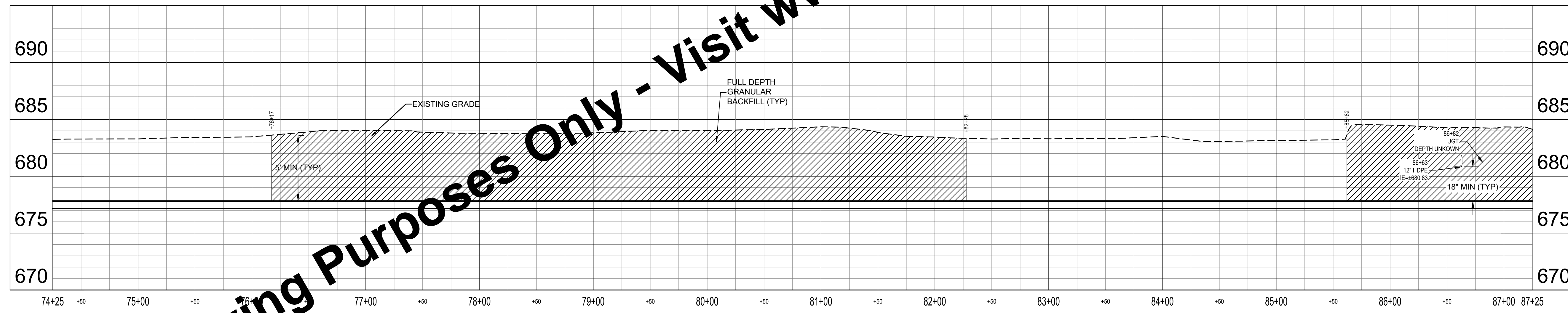


**GENERAL NOTES:**

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**PLAN - LINE A**  
SCALE: 1" = 50'



**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 10'

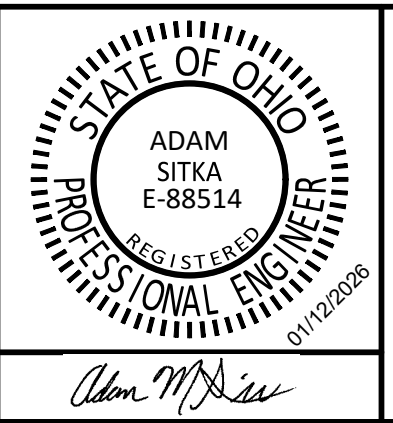
**KEYED NOTES**

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	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				



**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOGDALE, OHIO

**PLAN AND PROFILE - LINE A**

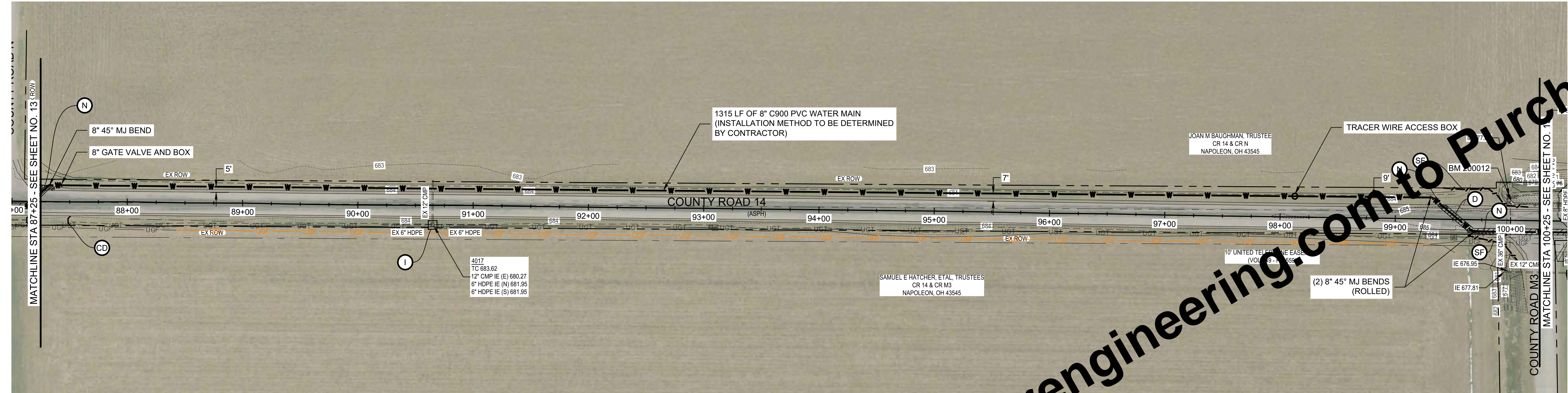
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TOTAL SHEETS  
**50**

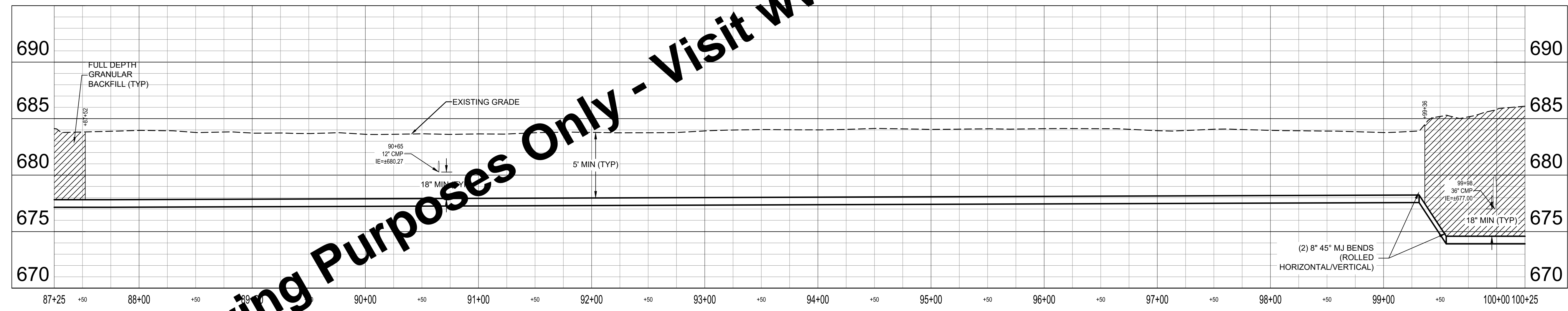
APPROVED  
Environmental  
Protection  
Agency  
02/20/2026

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**PLAN - LINE A**  
SCALE: 1" = 50'



**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 10'

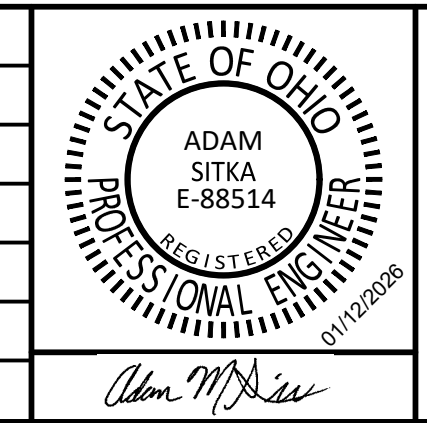
**KEYED NOTES**

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	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				



**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOLGATE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.  
**14**

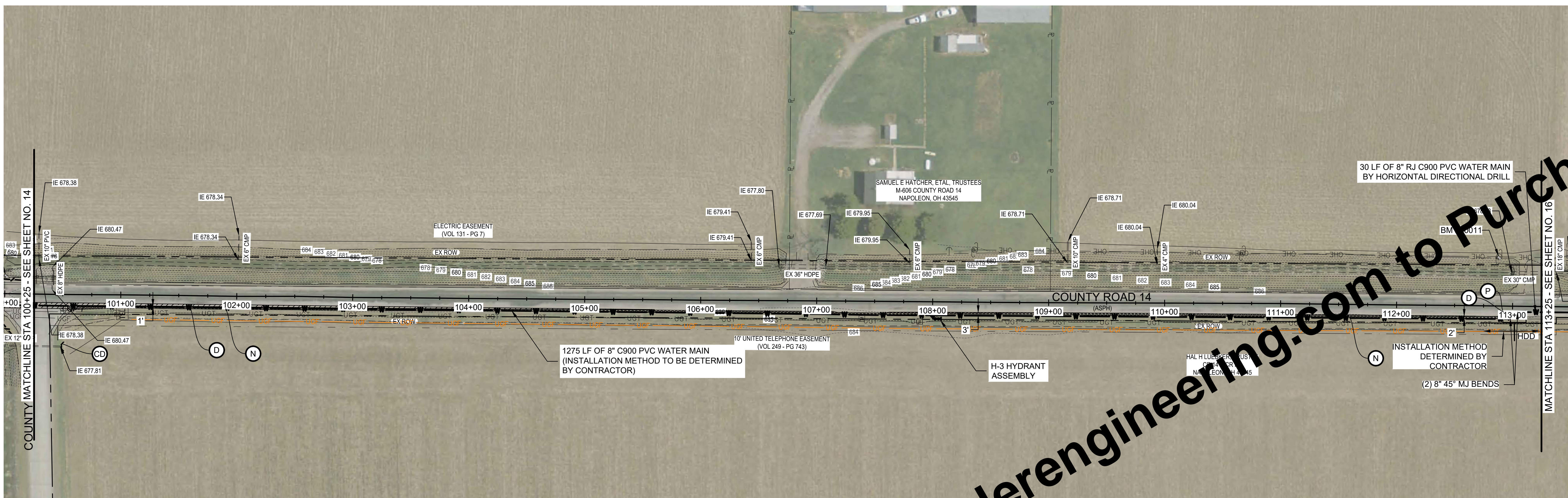
TOTAL SHEETS  
**50**

APPROVED  
Environmental  
Protection  
Agency  
02/20/2026  
JOB NO. 4113

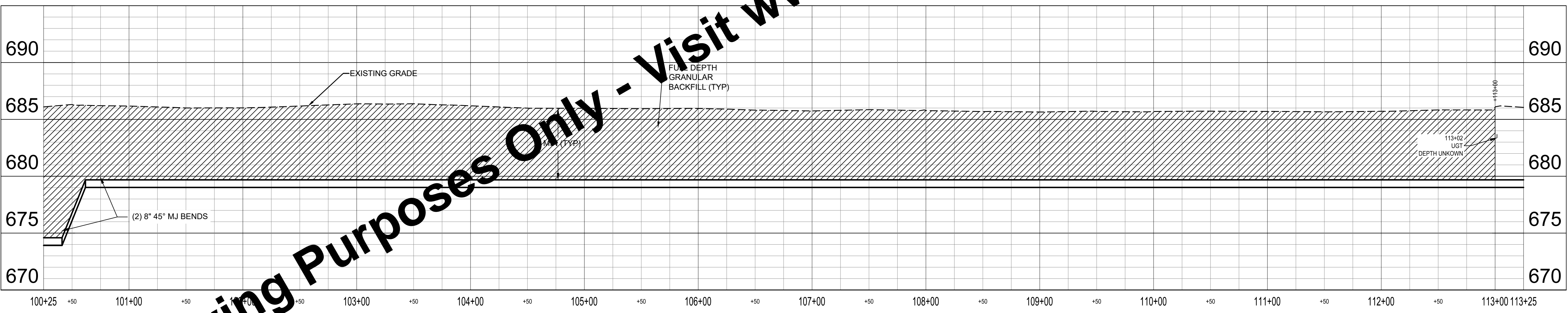
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**PLAN - LINE A**  
SCALE: 1" = 50'



**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 10'

**KEYED NOTES**

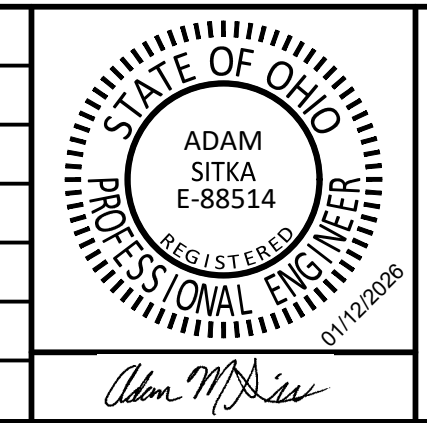
- D PAVEMENT REPAIR AND FULL DEPTH TYPE 1 BACKFILL
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	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				



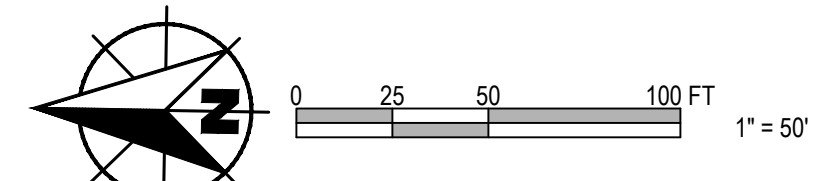
**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOGDALE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.  
**15**

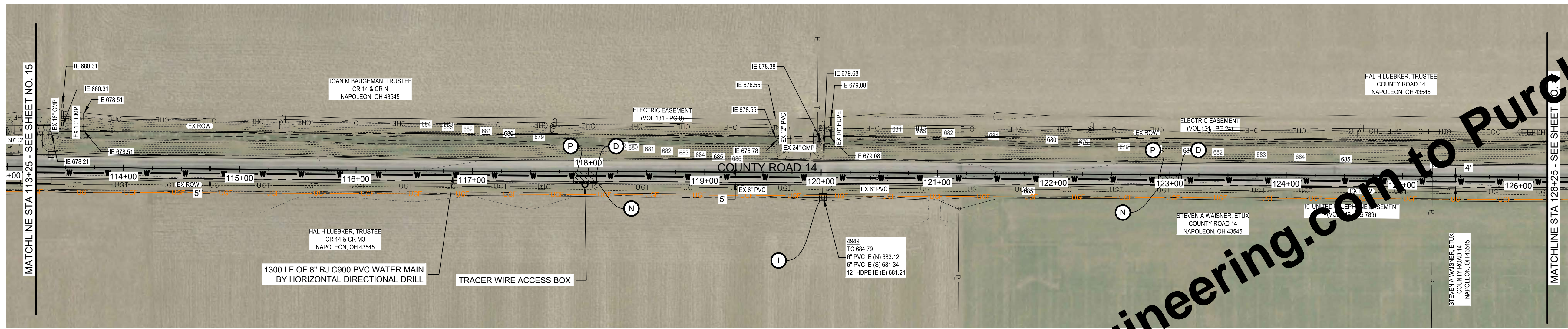
TOTAL SHEETS  
**50**

APPROVED  
Environmental  
Protection  
Agency  
02/20/2026  
DWG-4113

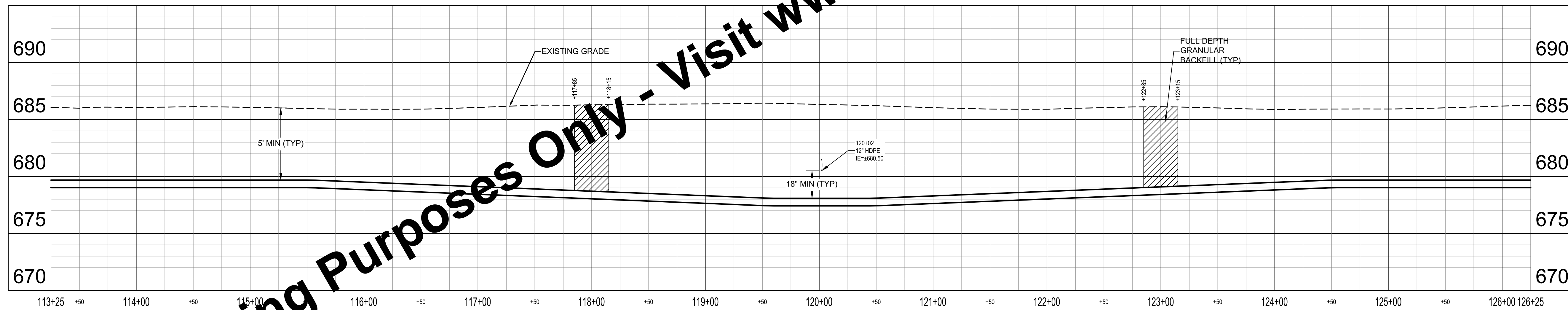


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**PLAN - LINE A**  
SCALE: 1" = 50'



**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 10'

**KEYED NOTES**

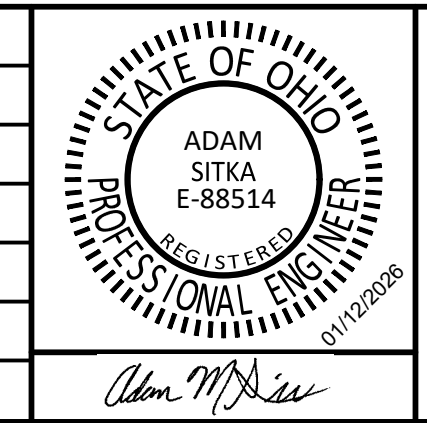
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**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOGDALE, OHIO

**PLAN AND PROFILE - LINE A**

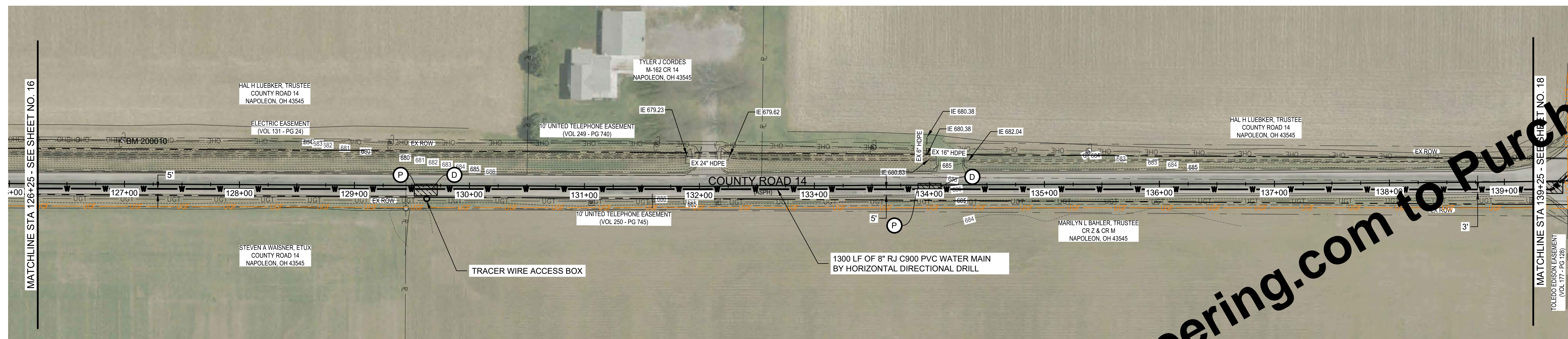
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TOTAL SHEETS  
**50**

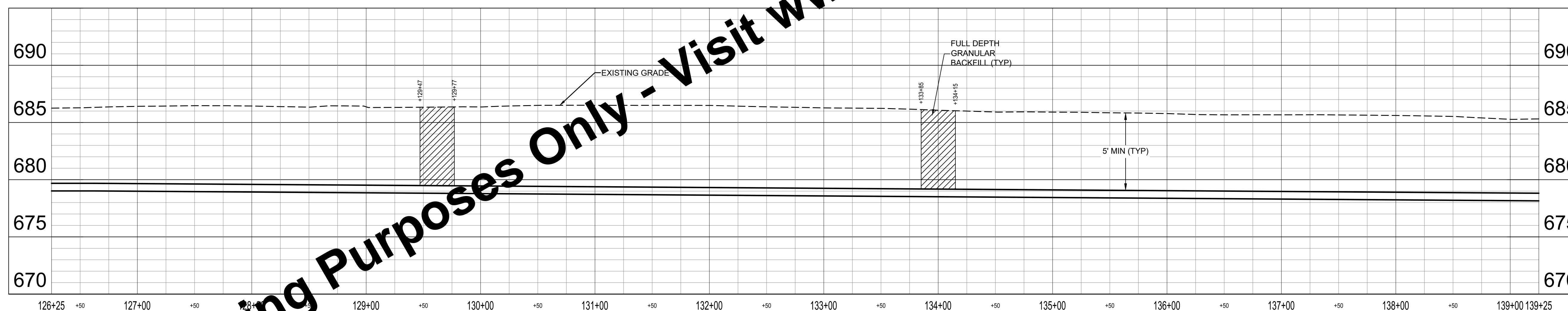
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Environmental Protection Agency  
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**PLAN - LINE A**  
SCALE: 1" = 50'



**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 10'

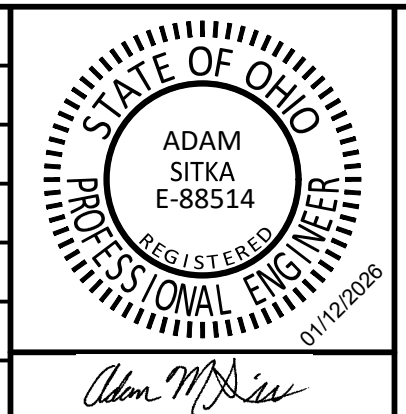
**KEYED NOTES**

- D PAVEMENT REPAIR AND FULL DEPTH TYPE 1 BACKFILL
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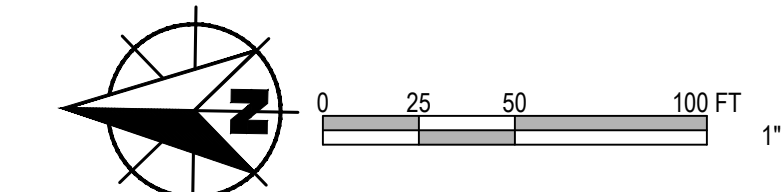
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BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	ACH				
	APPROVED BY	AMS				
	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				



**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOLGATE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.	<b>17</b>
TOTAL SHEETS	<b>50</b>



**GENERAL NOTES:**

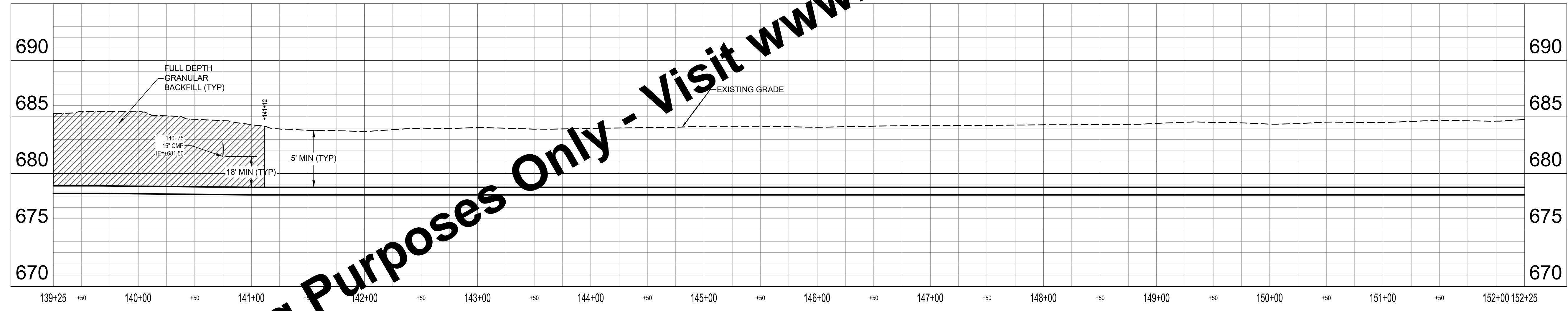
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- INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON PLAN SHEETS AND AS NECESSARY TO PROVIDE ADEQUATE CONTROL FOR THE CONSTRUCTION AREA. SEE SPECIFICATION 02101.
- CONTRACTOR TO REPAIR AND REINSTATE ANY DAMAGED FIELD TILE WITHIN 24 HOURS OF OCCURRENCE.
- IF WATER MAIN IS INSTALLED BY OPEN CUT AND ALIGNMENT IS WITHIN 7 FEET OF UTILITY POLES, SUPPORT POLES DURING CONSTRUCTION.
- NO CONSTRUCTION ACTIVITIES, EXCAVATIONS OR LAND DISTURBANCES PERMITTED WITHIN WETLAND.
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**KEYED NOTES**

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- CD CHECK DAM
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- P APPROXIMATE LOCATION OF DRILLING AND RECEIVING PIT
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**PLAN - LINE A**  
SCALE: 1" = 50'

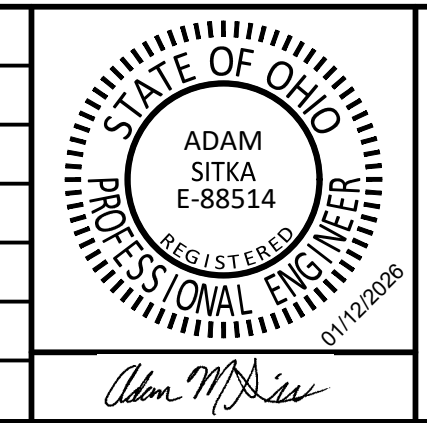


**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 5'

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BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	ACH				
	APPROVED BY	AMS				
	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				



**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOLGATE, OHIO

**PLAN AND PROFILE - LINE A**

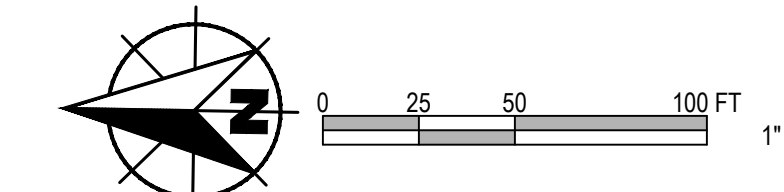
SHEET NO.  
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TOTAL SHEETS  
**50**

DATE: 02/20/2026  
PROJECT: 703222-04-001

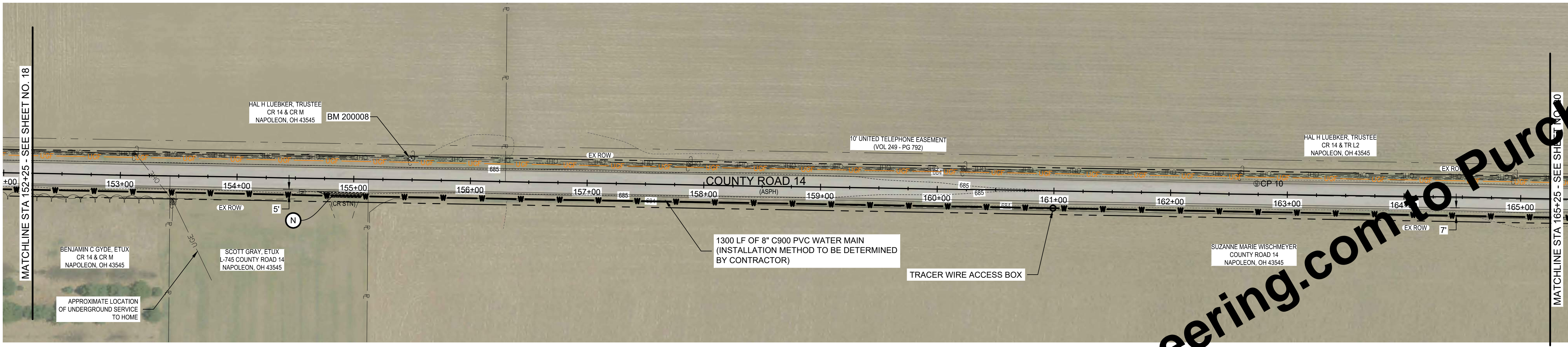


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SCALE: 1" = 50'



**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 5'

**KEYED NOTES**

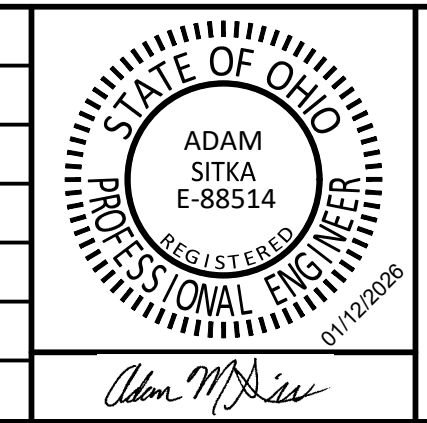
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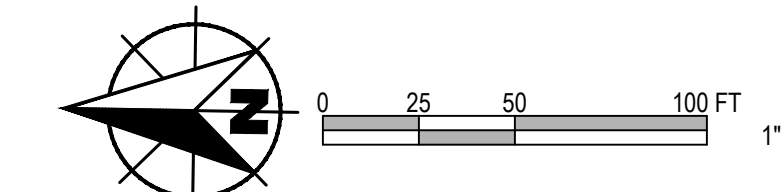
**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOGATE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.  
**19**

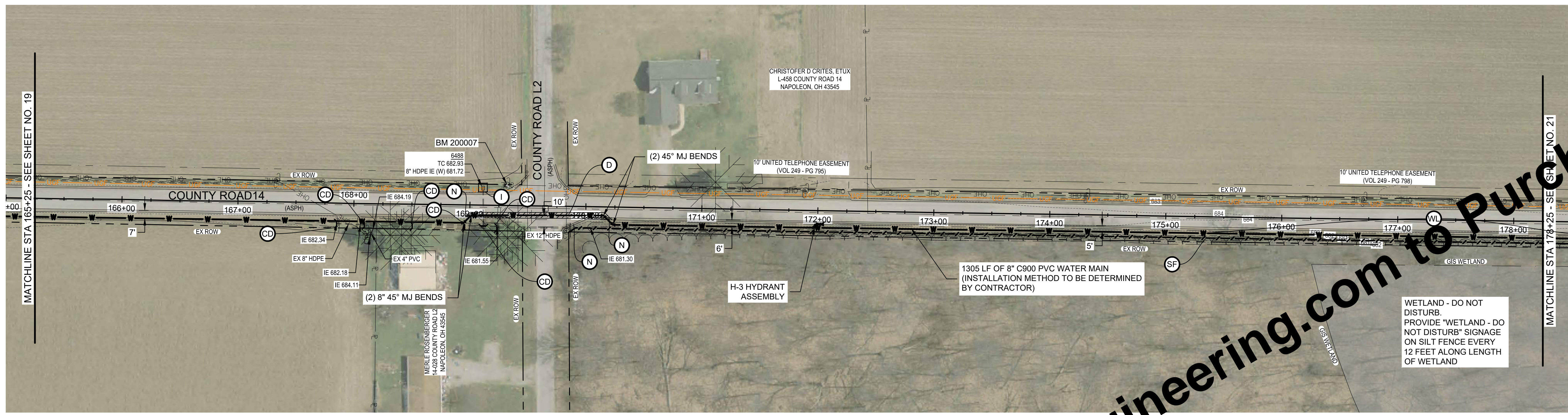
TOTAL SHEETS  
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APPROVED  
Environmental Protection Agency  
02/20/2026  
02/20/2026

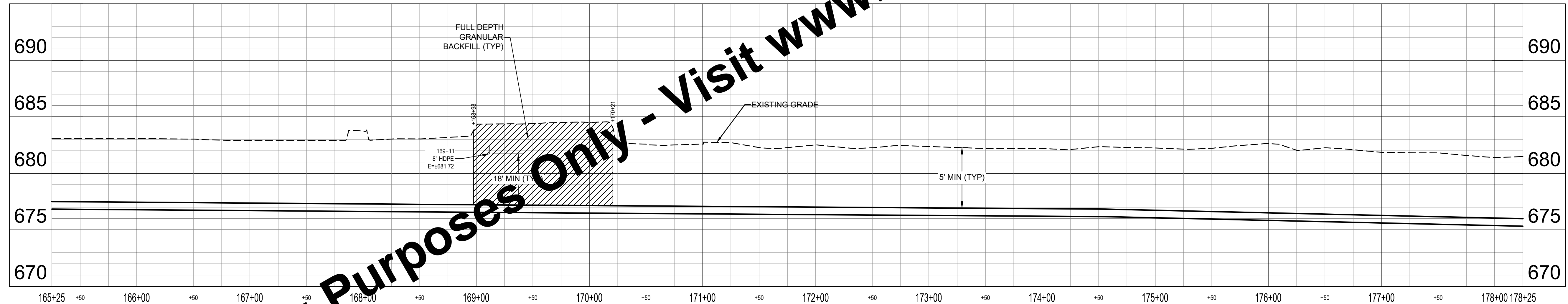


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**PLAN - LINE A**  
SCALE: 1" = 50'



**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 5'

**KEYED NOTES**

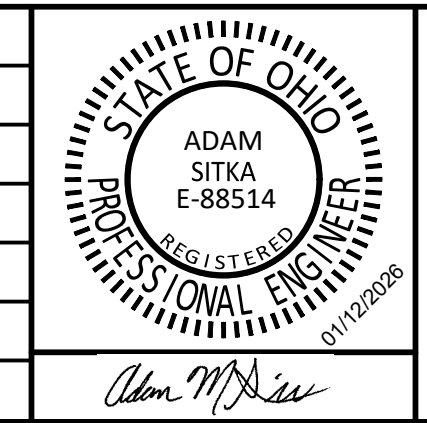
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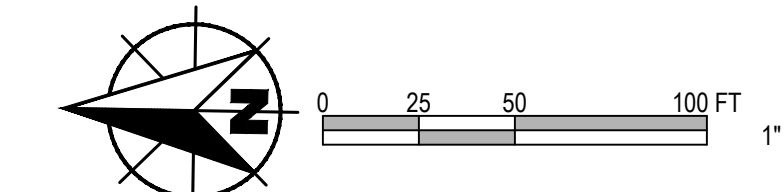
**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOGDALE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.  
**20**

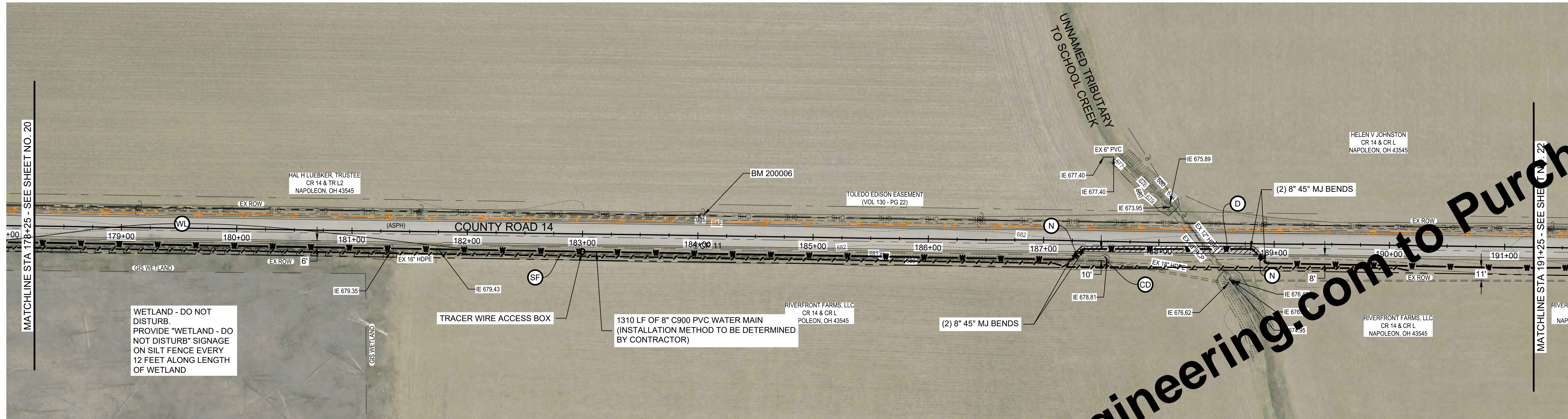
TOTAL SHEETS  
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APPROVED  
Environmental  
Protection  
Agency  
02/20/2026

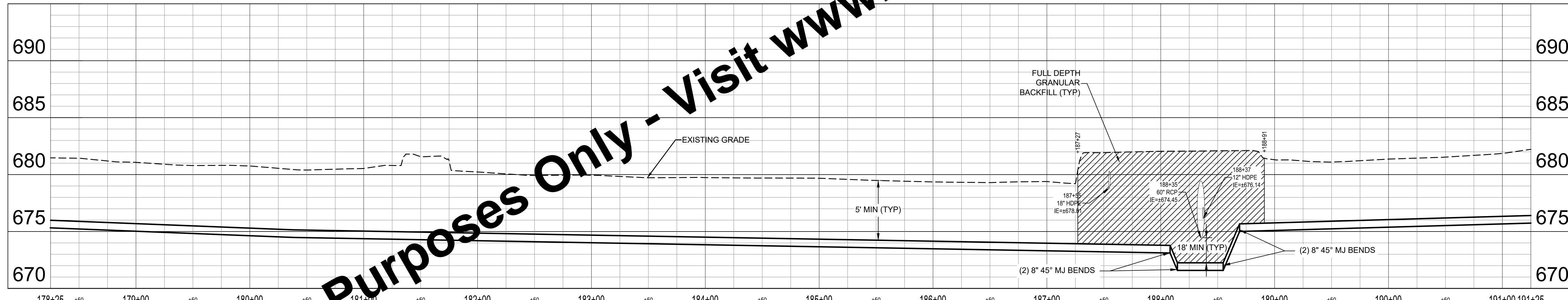


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**PLAN - LINE A**  
SCALE: 1" = 50'



**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 5'

**KEYED NOTES**

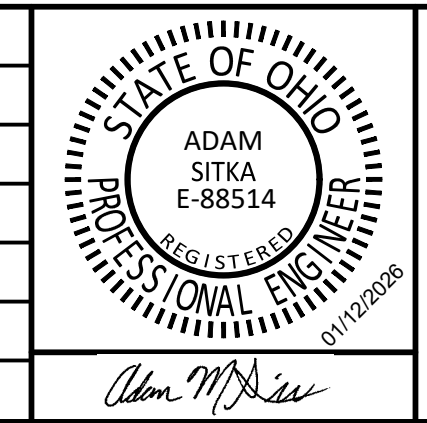
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**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOGDALE, OHIO

**PLAN AND PROFILE - LINE A**

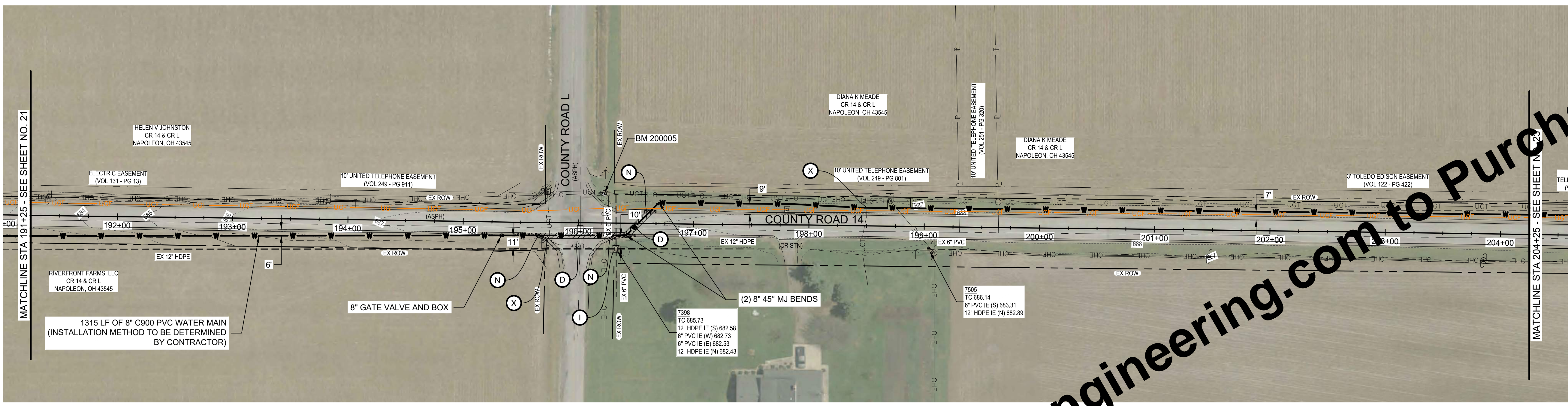
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TOTAL SHEETS  
**50**

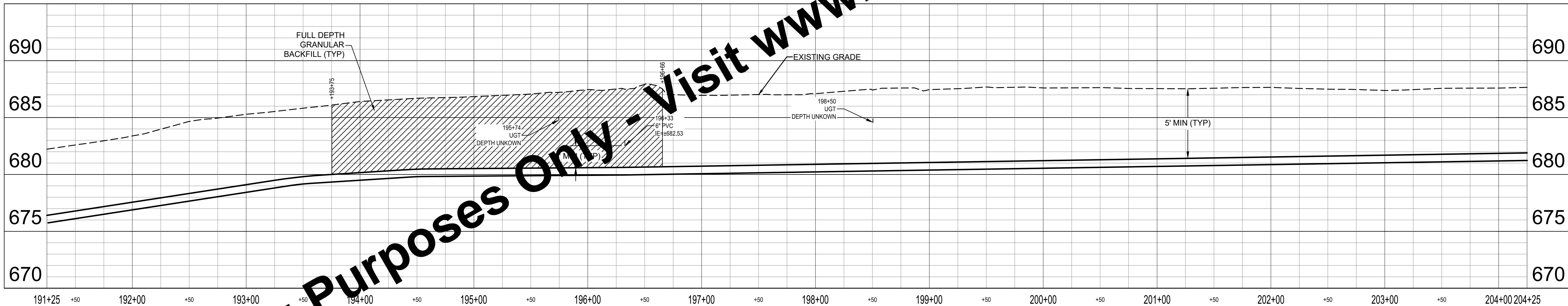
APPROVED  
Ohio Environmental Protection Agency  
02/20/2026

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**PLAN - LINE A**  
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**PROFILE - LINE A**  
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VERT SCALE: 1" = 5'

**KEYED NOTES**

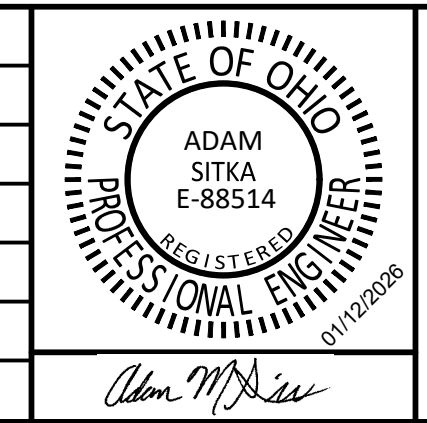
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	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				



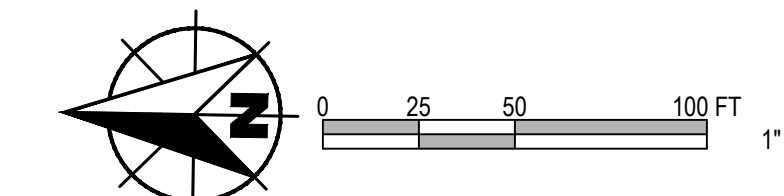
**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOGDALE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.  
**22**

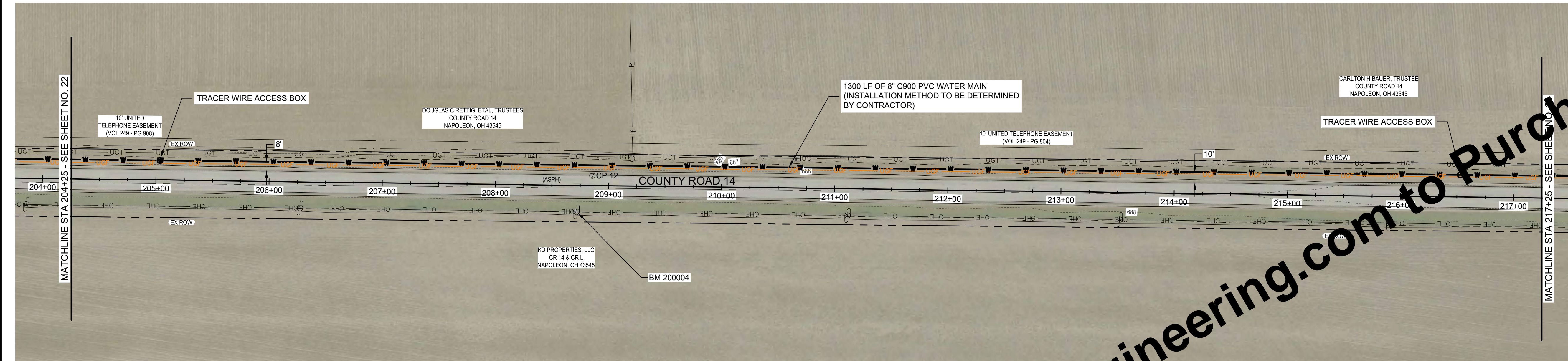
TOTAL SHEETS  
**50**

APPROVED  
Environmental Protection Agency  
02/20/2026

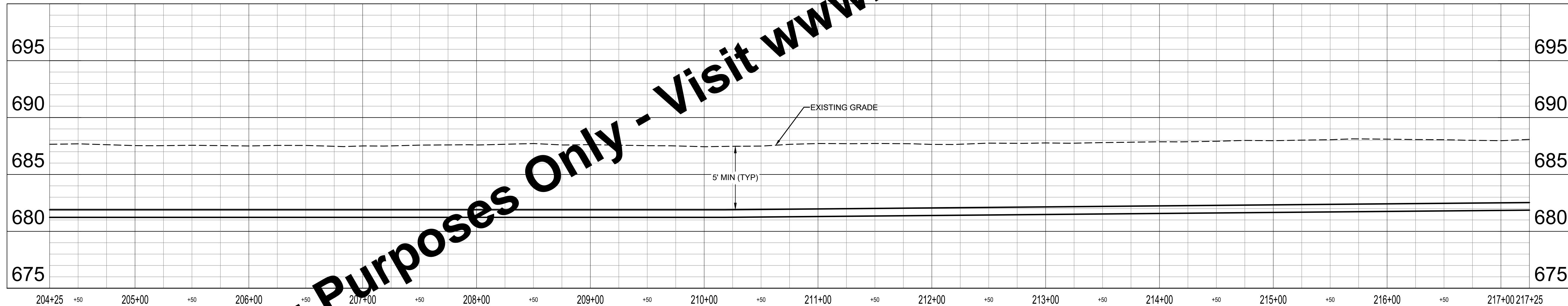


**GENERAL NOTES:**

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- INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON PLAN SHEETS AND AS NECESSARY TO PROVIDE ADEQUATE CONTROL FOR THE CONSTRUCTION AREA. SEE SPECIFICATION 02101.
- CONTRACTOR TO REPAIR AND REINSTATE ANY DAMAGED FIELD TILE WITHIN 24 HOURS OF OCCURRENCE.
- IF WATER MAIN IS INSTALLED BY OPEN CUT AND ALIGNMENT IS WITHIN 7 FEET OF UTILITY POLES, SUPPORT POLES DURING CONSTRUCTION.
- NO CONSTRUCTION ACTIVITIES, EXCAVATIONS OR LAND DISTURBANCES PERMITTED WITHIN WETLAND.
- 93 ROCK SOUNDINGS WERE COMPLETED TO DETERMINE DEPTH TO ROCK ALONG THE WATER MAIN ALIGNMENT. ROCK WAS NOT ENCOUNTERED WITHIN THE EXPLORATION DEPTHS OF APPROXIMATELY 10 FT. REFER TO APPENDIX A OF THE SPECIFICATIONS FOR THE FULL GEOTECHNICAL EVALUATION.
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**PLAN - LINE A**  
SCALE: 1" = 50'



**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 5'

**KEYED NOTES**

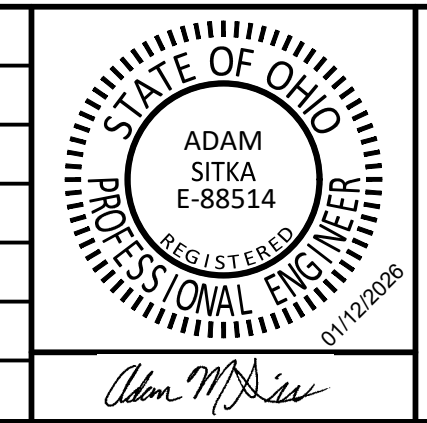
- D PAVEMENT REPAIR AND FULL DEPTH TYPE 1 BACKFILL
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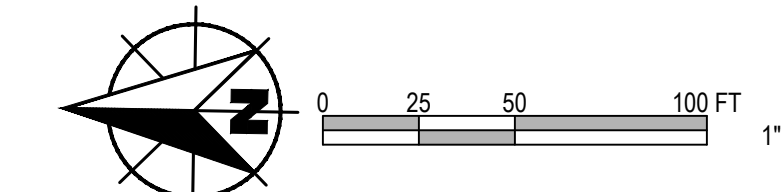
**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOGDALE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.  
**23**

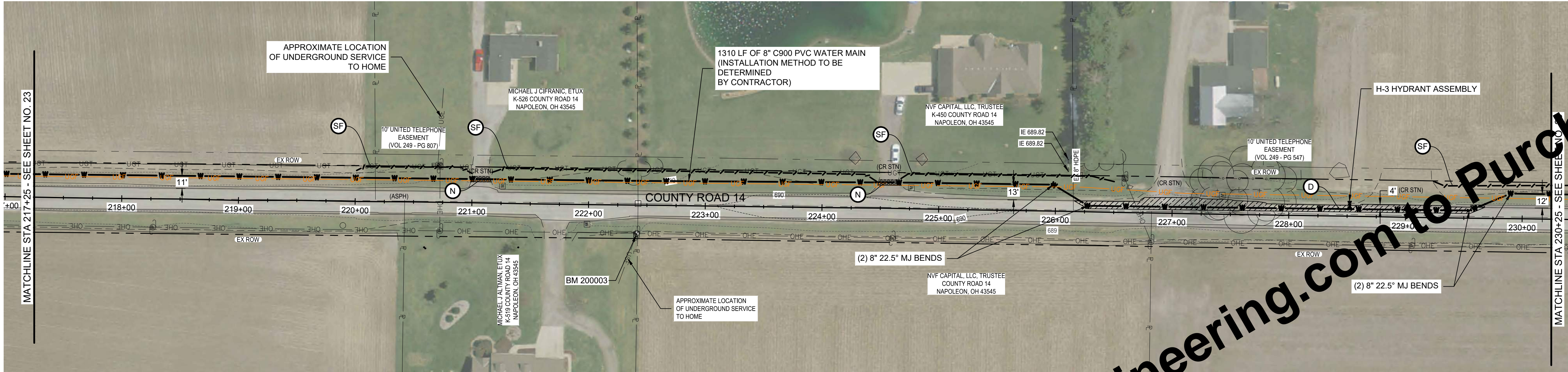
TOTAL SHEETS  
**50**

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Environmental Protection Agency  
02/20/2026



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**PLAN - LINE A**  
SCALE: 1" = 50'



**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 5'

**KEYED NOTES**

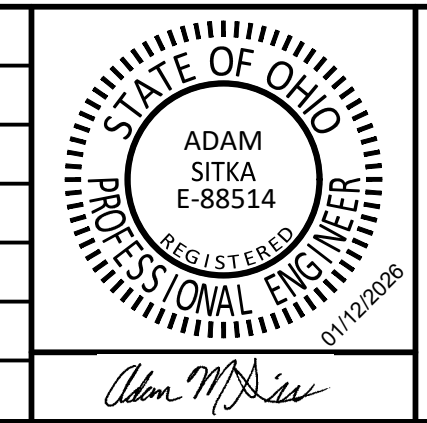
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	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				



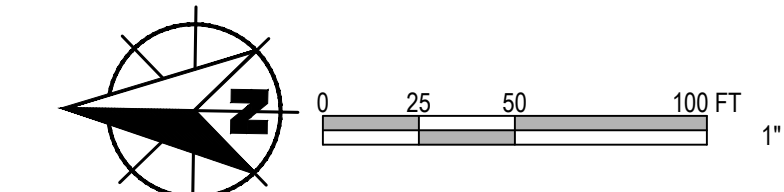
**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOGDALE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.  
**24**

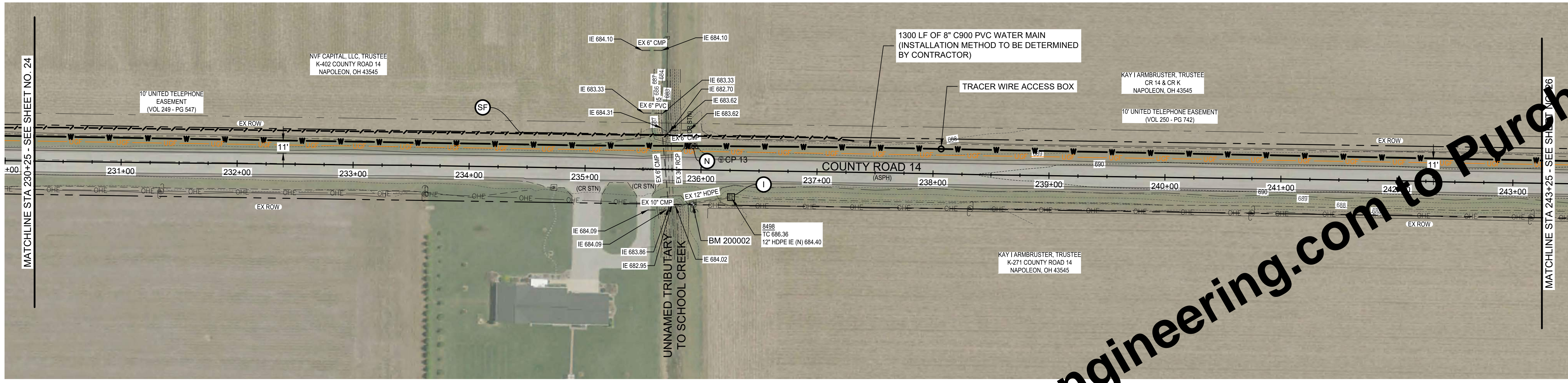
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**50**

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Environmental  
Protection  
Agency  
02/20/2026  
02/20/2026

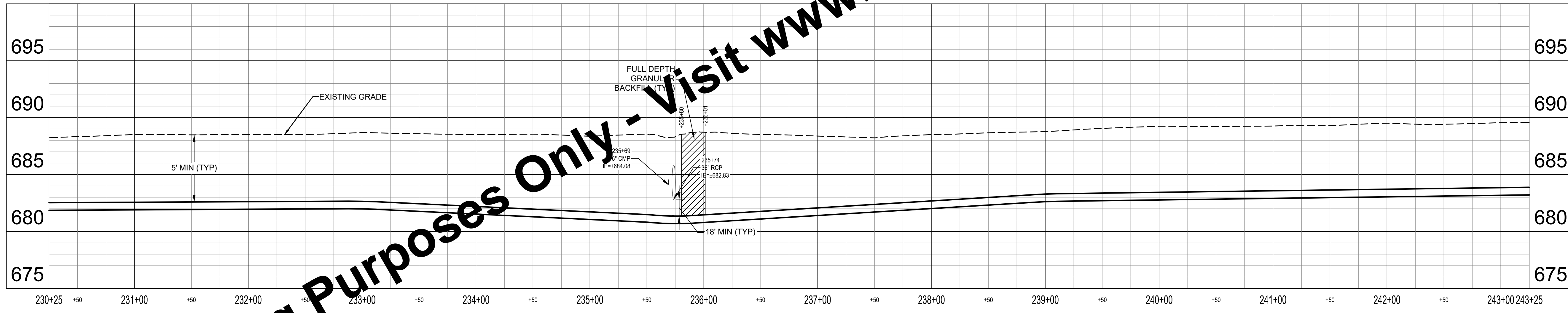


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**PLAN - LINE A**  
SCALE: 1" = 50'



**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 5'

**KEYED NOTES**

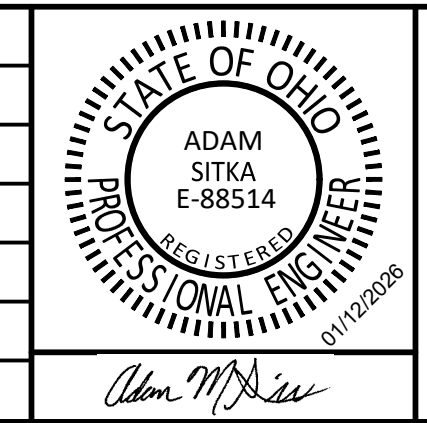
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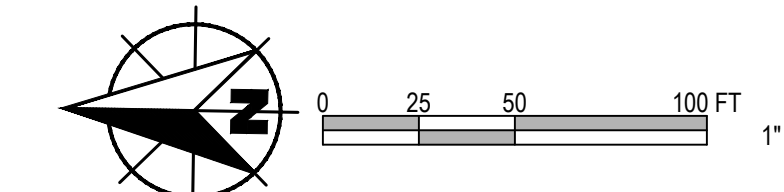
**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOGATE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.  
**25**

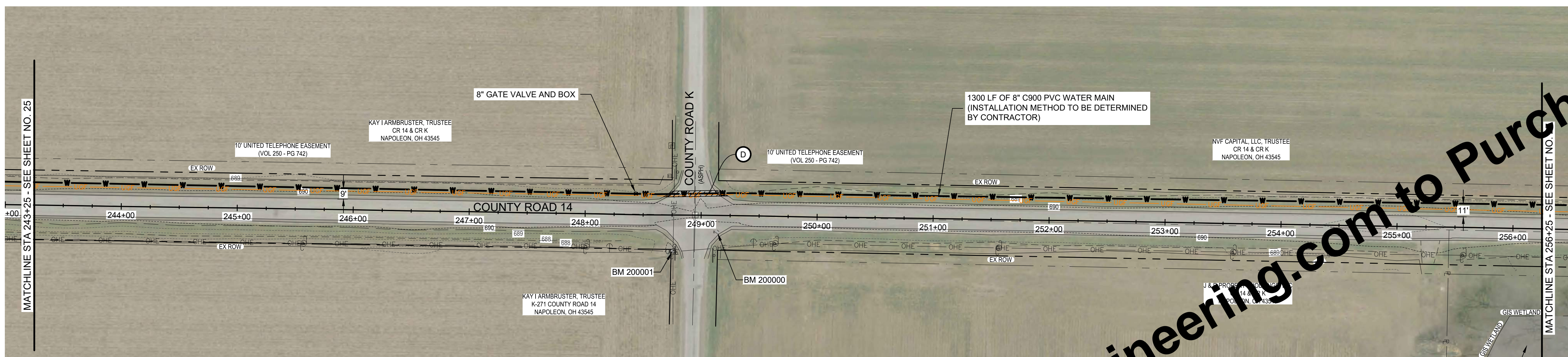
TOTAL SHEETS  
**50**

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Environmental Protection Agency  
02/20/2026



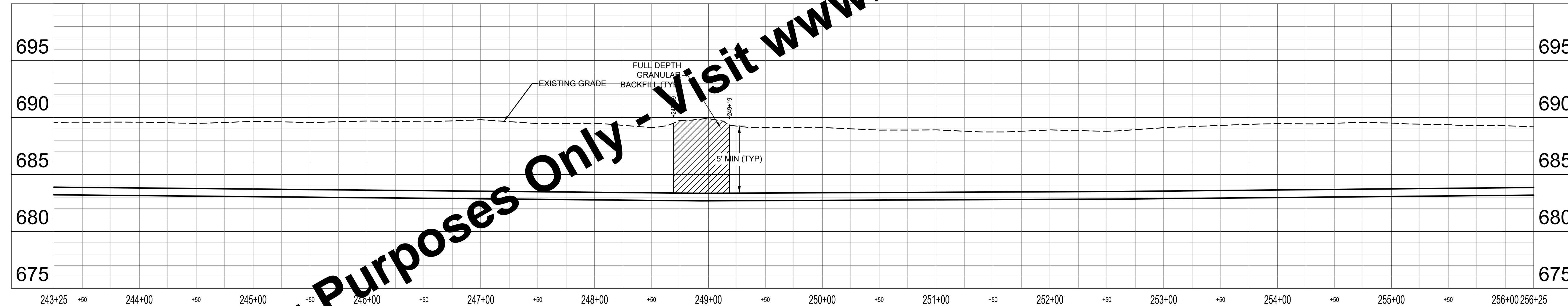
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**PLAN - LINE A**  
SCALE: 1" = 50'

WETLAND - DO NOT DISTURB. PROVIDE "WETLAND - DO NOT DISTURB" SIGNAGE ON SILT FENCE EVERY 12 FEET ALONG LENGTH OF WETLAND



**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 5'

**KEYED NOTES**

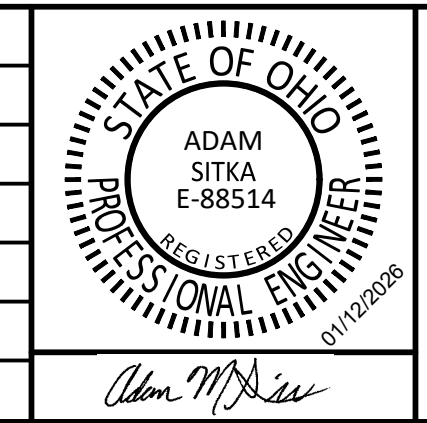
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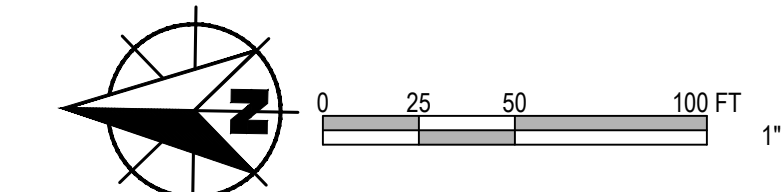
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CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOGDALE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.  
**26**

TOTAL SHEETS  
**50**

APPROVED  
Environmental Protection Agency  
02/20/2026

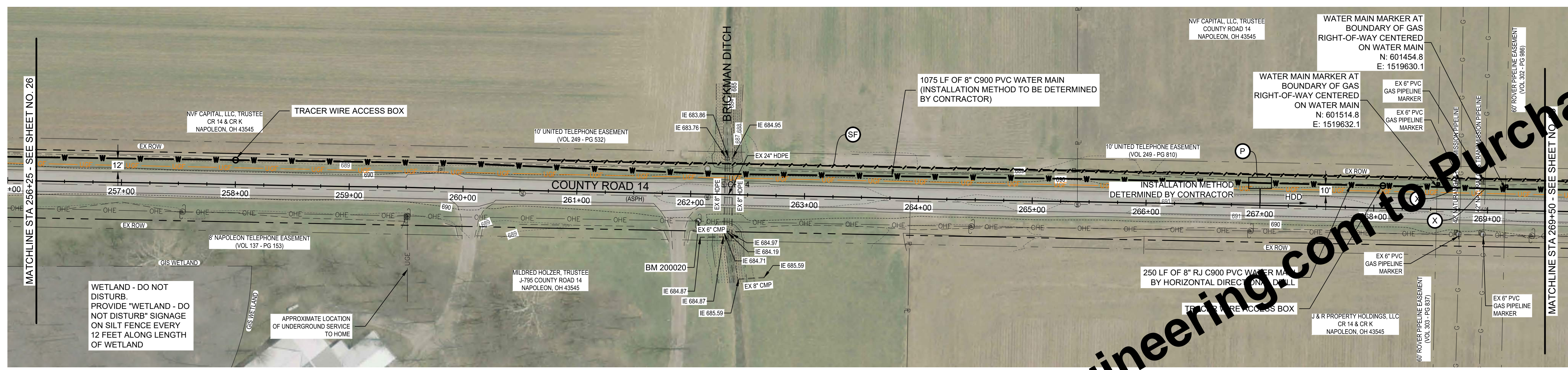


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- WL WORK TAKES PLACE WITHIN 100 FEET OF A WETLAND. EXCAVATIONS IN THIS AREA SHALL BE PROTECTED WITH PERIMETER PROTECTION MEASURES. RE TO SPECIFICATION 02101. EXCAVATION IS NOT PERMITTED IN WETLAND
- X POTENTIAL UTILITY CONFLICT. FIELD VERIFY PRIOR TO CONSTRUCTION.



**PLAN - LINE A**  
SCALE: 1" = 50'



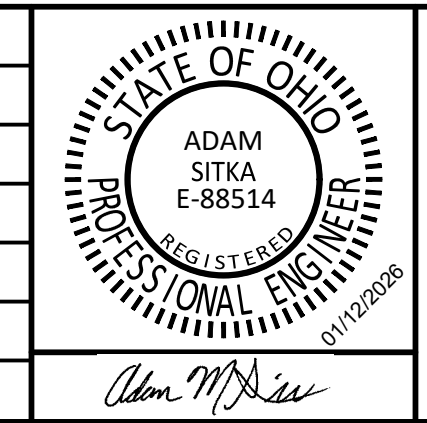
**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 5'

NOTE:  
\*WHEN CONDUCTING CONSTRUCTION ACTIVITIES IN OR AROUND ENERGY TRANSFER PIPELINE FACILITIES OR RIGHTS-OF-WAY, AN ENERGY TRANSFER REPRESENTATIVE SHALL BE PRESENT. NOTIFY ENERGY TRANSFER REPRESENTATIVE, RUSSELL LAYFIELD (419-309-2885) FORTY-EIGHT (48) HOURS PRIOR TO START OF CONSTRUCTION

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SCALE VERIFICATION BAR IS ONE INCH LONG ON ORIGINAL DRAWING	DRAWN BY	TWL	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
	CHECKED BY	ACH				
	APPROVED BY	AMS				
	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				



**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOLGATE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.  
**27**

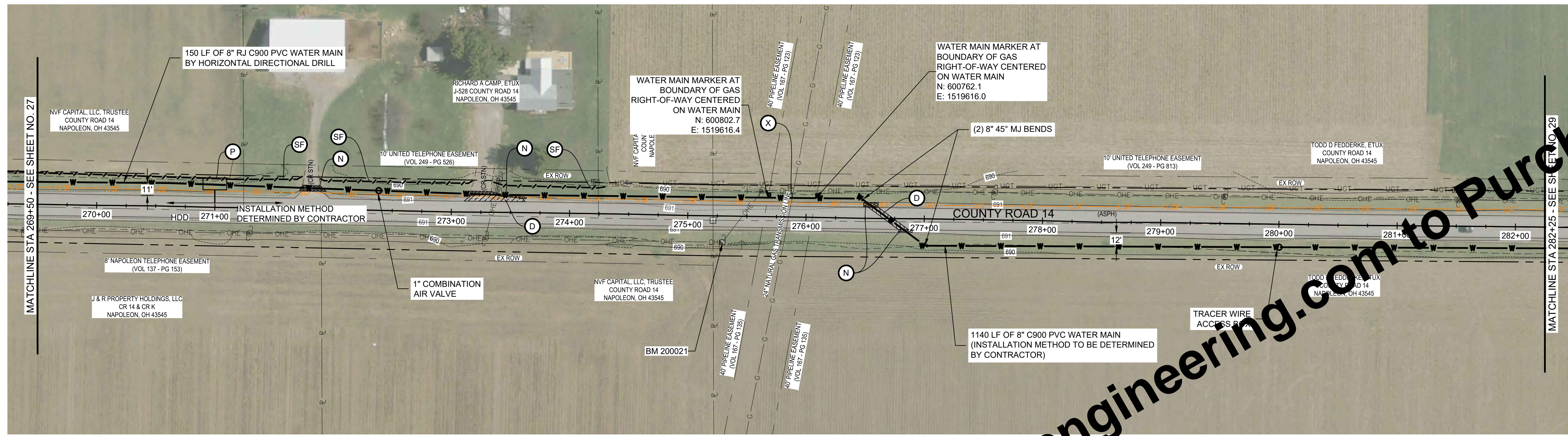
TOTAL SHEETS  
**50**

DATE: 02/20/2026  
PROJECT: 703222-04-001



**GENERAL NOTES:**

- FOR WATER MAIN - INSTALLATION METHOD DETERMINED BY CONTRACTOR (SECTION 01990 PAY ITEM NO. 01) NOT SHOWN AS HDD, THE WATER MAIN PLAN SHEET INFORMATION, INCLUDING FITTINGS, GRANULAR BACKFILL, PAVEMENT RESTORATION, UTILITY CLEARANCES, AND OTHER ITEMS, IS BASED ON AN ASSUMED OPEN CUT INSTALLATION AND IS PROVIDED FOR CLARITY ONLY. IF HDD IS SELECTED, THEN CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE REQUIRED FITTINGS, PAVEMENT RESTORATION, GRANULAR BACKFILL, UTILITY CLEARANCES, AND OTHER ITEMS REQUIRED FOR A COMPLETE INSTALL.
- INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON PLAN SHEETS AND AS NECESSARY TO PROVIDE ADEQUATE CONTROL FOR THE CONSTRUCTION AREA. SEE SPECIFICATION 02101.
- CONTRACTOR TO REPAIR AND REINSTATE ANY DAMAGED FIELD TILE WITHIN 24 HOURS OF OCCURRENCE.
- IF WATER MAIN IS INSTALLED BY OPEN CUT AND ALIGNMENT IS WITHIN 7 FEET OF UTILITY POLES, SUPPORT POLES DURING CONSTRUCTION.
- NO CONSTRUCTION ACTIVITIES, EXCAVATIONS OR LAND DISTURBANCES PERMITTED WITHIN WETLAND.
- 93 ROCK SOUNDINGS WERE COMPLETED TO DETERMINE DEPTH TO ROCK ALONG THE WATER MAIN ALIGNMENT. ROCK WAS NOT ENCOUNTERED WITHIN THE EXPLORATION DEPTHS OF APPROXIMATELY 10 FT. REFER TO APPENDIX A OF THE SPECIFICATIONS FOR THE FULL GEOTECHNICAL EVALUATION.
- LOCATION OF EXISTING WATER MAIN SHOWN IS ESTIMATED BASED ON SURVEYED VALVES AND HYDRANTS AND HISTORIC SYSTEM MAPS. CONTRACTOR TO VERIFY LOCATION. DEPTHS OF UTILITIES SHOWN ON PROFILE VIEW ARE ASSUMED. CONTRACTOR TO VERIFY ANY CONFLICTS.
- BRIGHTSPEED FIBER LINES ARE EXPECTED ON BOTH SIDES OF THE ROAD ALONG THE WATER MAIN ROUTE, BUT EXACT LOCATION IS UNKNOWN. CONTRACTOR TO COORDINATE WITH UTILITY AND MAY BE REQUIRED TO SHIFT THE ALIGNMENT OF PROPOSED WATERLINE TO AVOID CONFLICTS WITH EXISTING FIBER LINES ENCOUNTERED DURING CONSTRUCTION. UGF MARKED IN BOLD ORANGE LINE ON PLAN SHEETS WERE NOT SURVEYED, BUT ADDED TO THE DRAWINGS FOR REFERENCE BASED ON UTILITY COORDINATION. CONTRACTOR TO CONFIRM.



**PLAN - LINE A**  
SCALE: 1" = 50'



- NOTE:**
- WHEN CONDUCTING CONSTRUCTION ACTIVITIES IN OR AROUND TC ENERGY PIPELINE FACILITIES OR RIGHT-OF-WAY, A TC ENERGY REPRESENTATIVE SHALL BE PRESENT. NOTIFY TC ENERGY REPRESENTATIVE, TODD FLORY (419-438-0208) SEVENTY-TWO (72) HOURS PRIOR TO START OF CONSTRUCTION.
  - PLEASE NOTE THAT VOICE MESSAGES DO NOT CONSTITUTE 72-HOUR NOTICE. PERSON TO PERSON CONTACT MUST BE MADE.

**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 5'

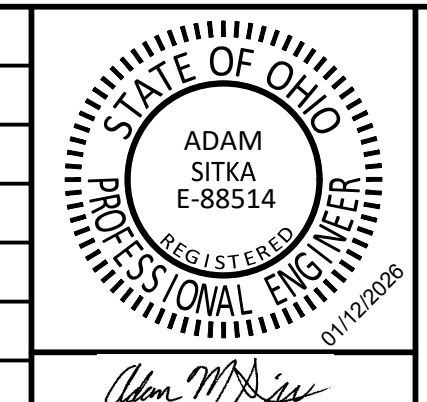
**KEYED NOTES**

- D PAVEMENT REPAIR AND FULL DEPTH TYPE 1 BACKFILL
- D1 ASPHALT DRIVE REPAIR AND FULL DEPTH TYPE 1 BACKFILL
- F1 CONCRETE DRIVE REPAIR AND FULL DEPTH TYPE 1 BACKFILL
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BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	ACH				
	APPROVED BY	AMS				
	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				



**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOLGATE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.  
**28**

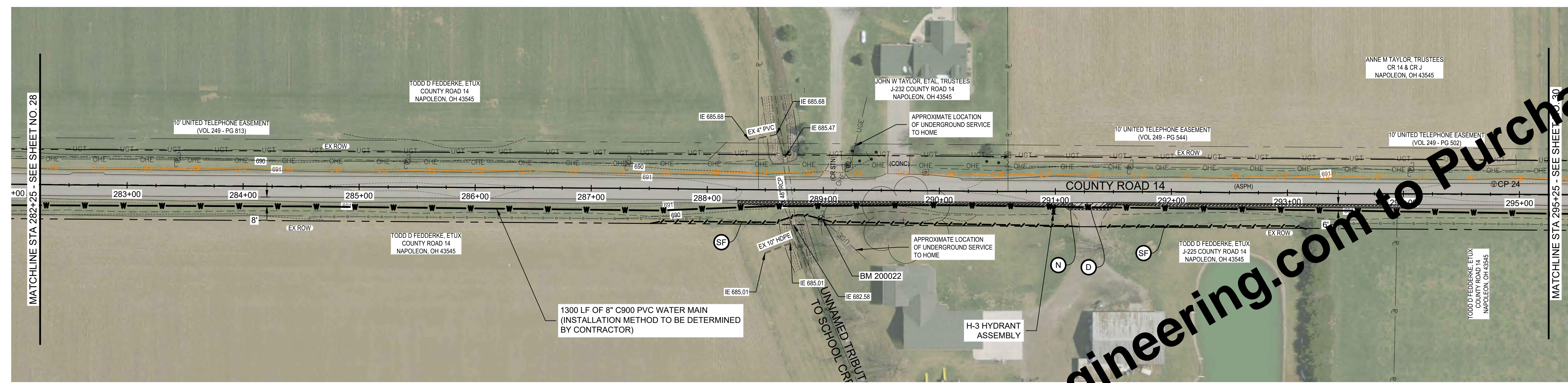
TOTAL SHEETS  
**50**

APPROVED  
Environmental Protection Agency  
02/20/2026

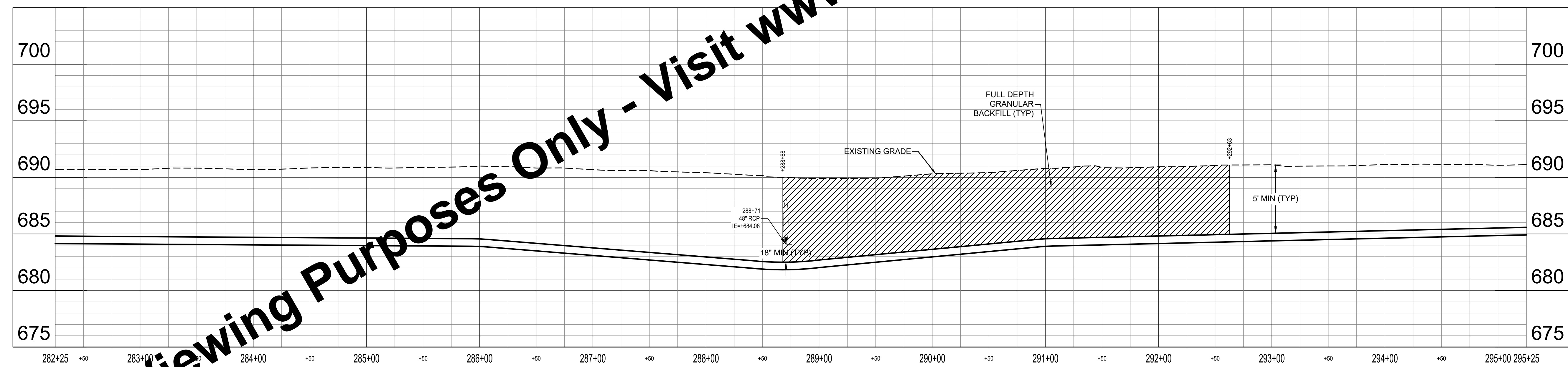
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**PLAN - LINE A**  
SCALE: 1" = 50'



**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 5'

**KEYED NOTES**

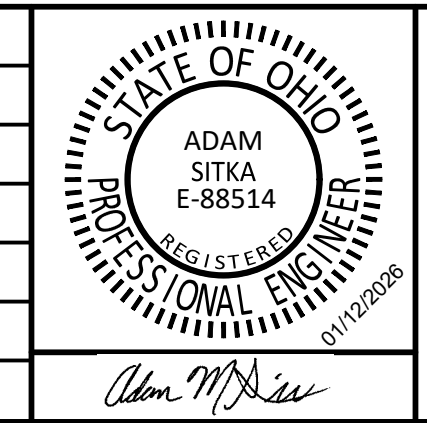
- D PAVEMENT REPAIR AND FULL DEPTH TYPE 1 BACKFILL
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	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				



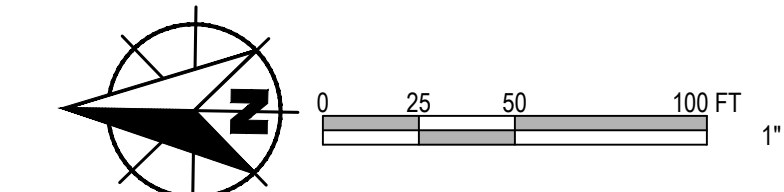
**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOLGATE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.  
**29**

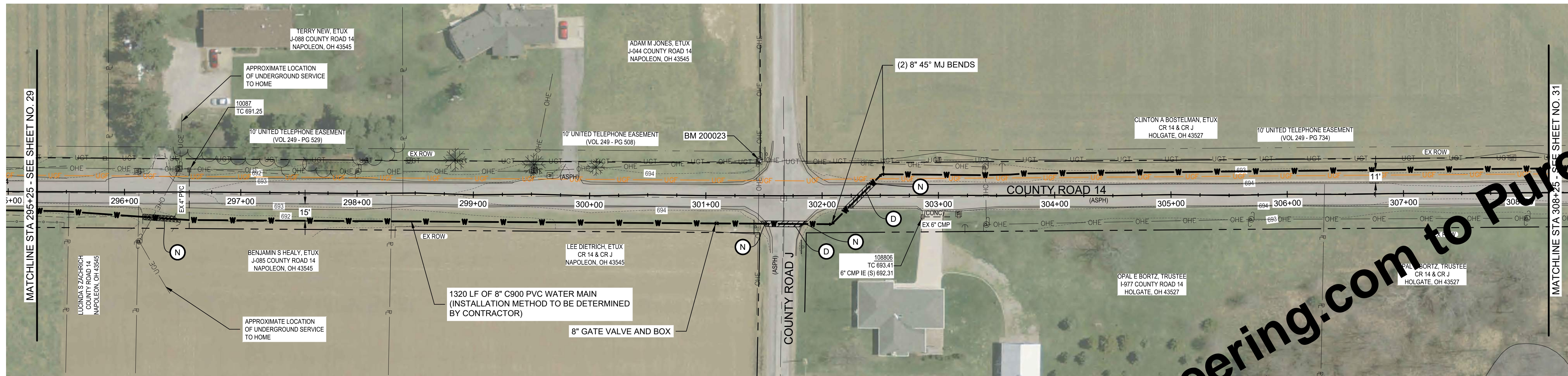
TOTAL SHEETS  
**50**

APPROVED  
Environmental  
Protection  
Agency  
02/20/2026

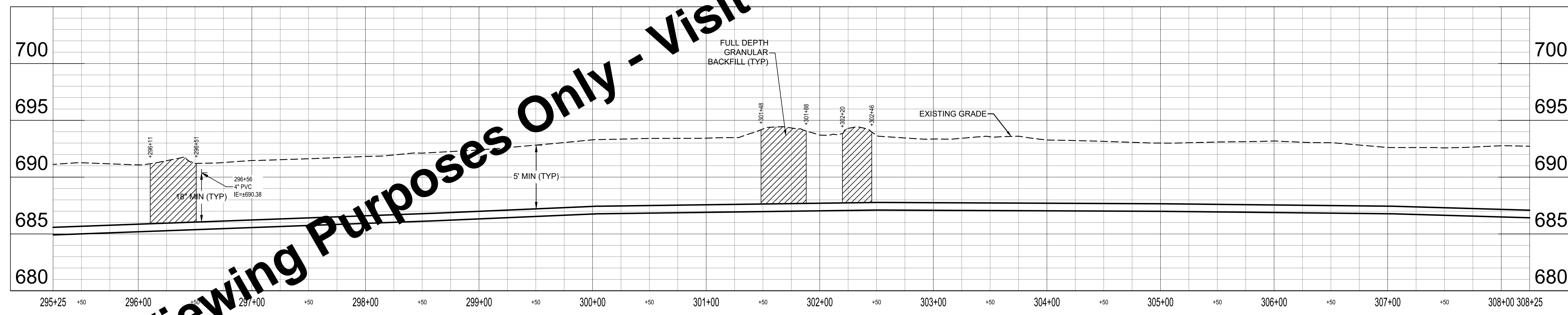


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**PLAN - LINE A**  
SCALE: 1" = 50'



**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 5'

**KEYED NOTES**

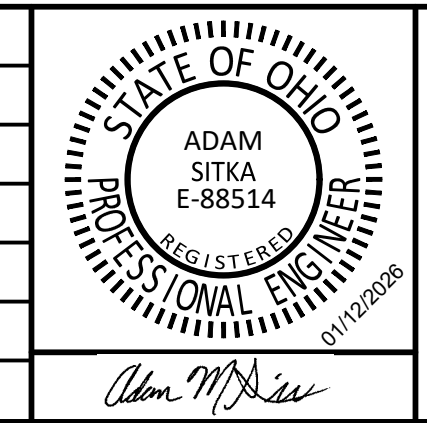
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	APPROVED BY	AMS				
	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				



**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOGDALE, OHIO

**PLAN AND PROFILE - LINE A**

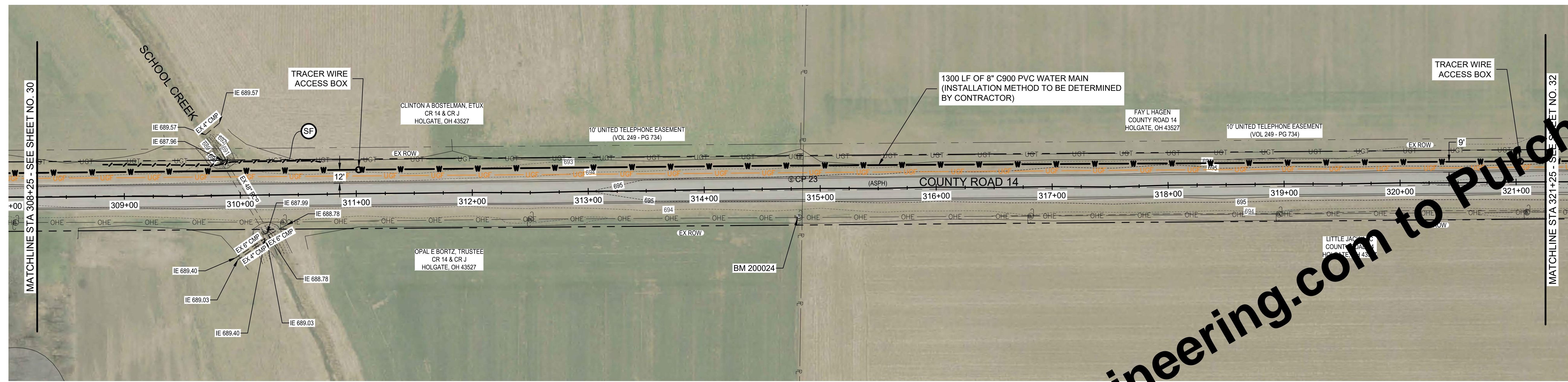
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TOTAL SHEETS  
**50**

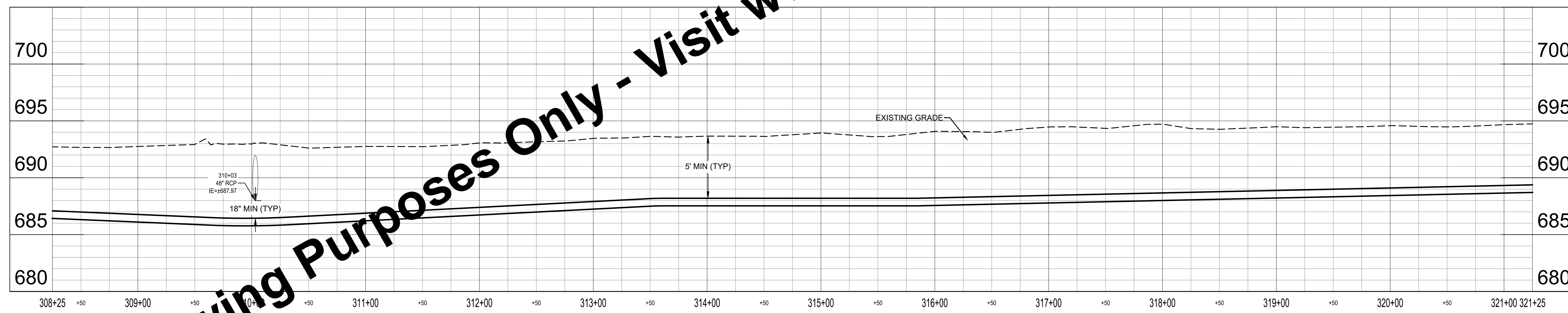
APPROVED  
Environmental Protection Agency  
02/20/2026

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**PLAN - LINE A**  
SCALE: 1" = 50'



**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 5'

**KEYED NOTES**

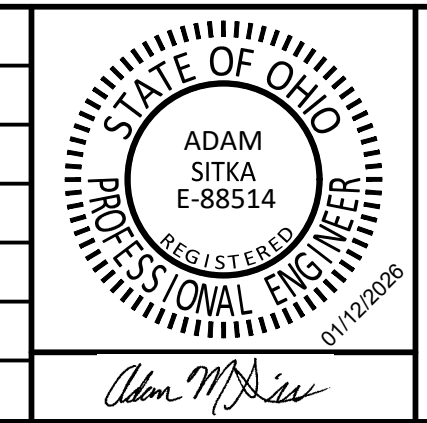
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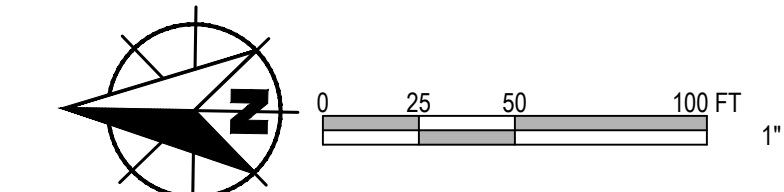
**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOLGATE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.  
**31**

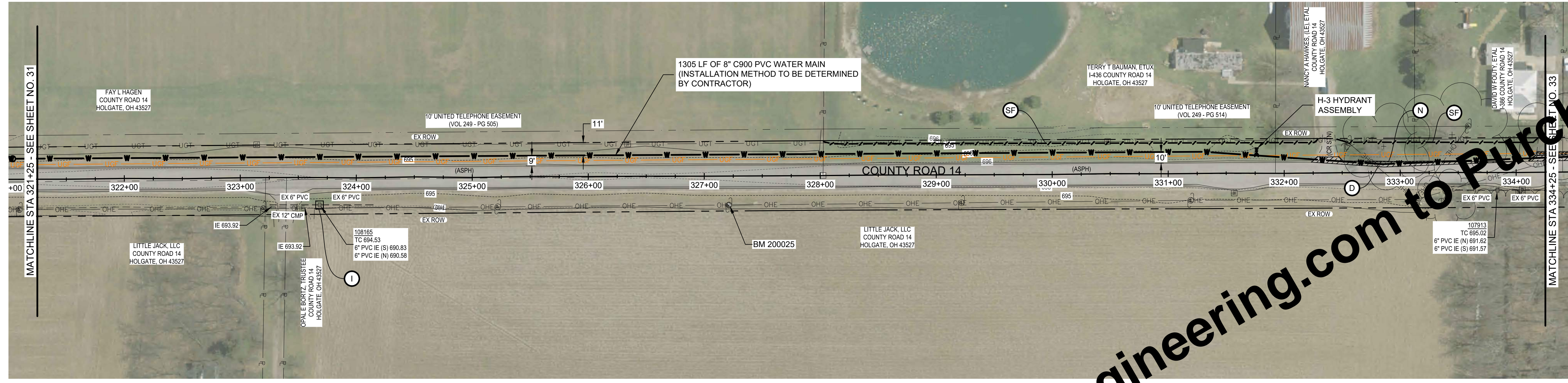
TOTAL SHEETS  
**50**

APPROVED  
Environmental Protection Agency  
02/20/2026

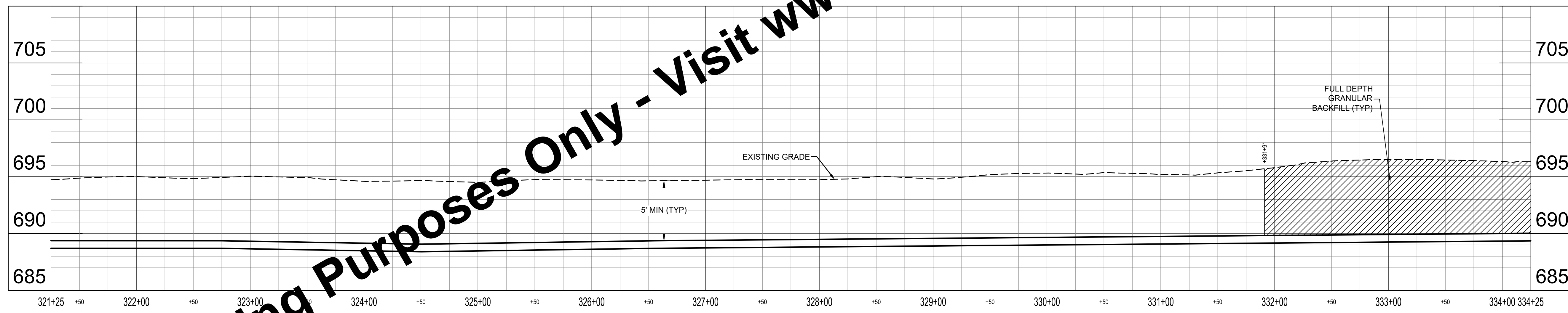


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**PLAN - LINE A**  
SCALE: 1" = 50'



**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 5'

**KEYED NOTES**

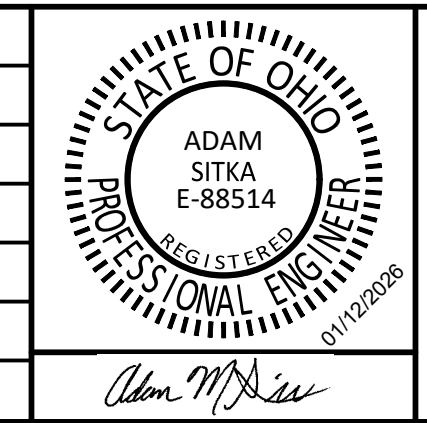
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- D1 ASPHALT DRIVE REPAIR AND FULL DEPTH TYPE 1 BACKFILL
- F1 CONCRETE DRIVE REPAIR AND FULL DEPTH TYPE 1 BACKFILL
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- CD CHECK DAM
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- P APPROXIMATE LOCATION OF DRILLING AND RECEIVING PIT
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- X POTENTIAL UTILITY CONFLICT. FIELD VERIFY PRIOR TO CONSTRUCTION.

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	PROJECT NUMBER	703222-04-001				



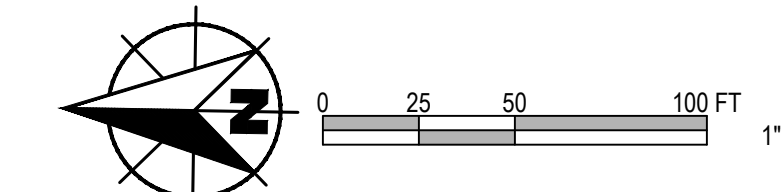
**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOGGATE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.  
**32**

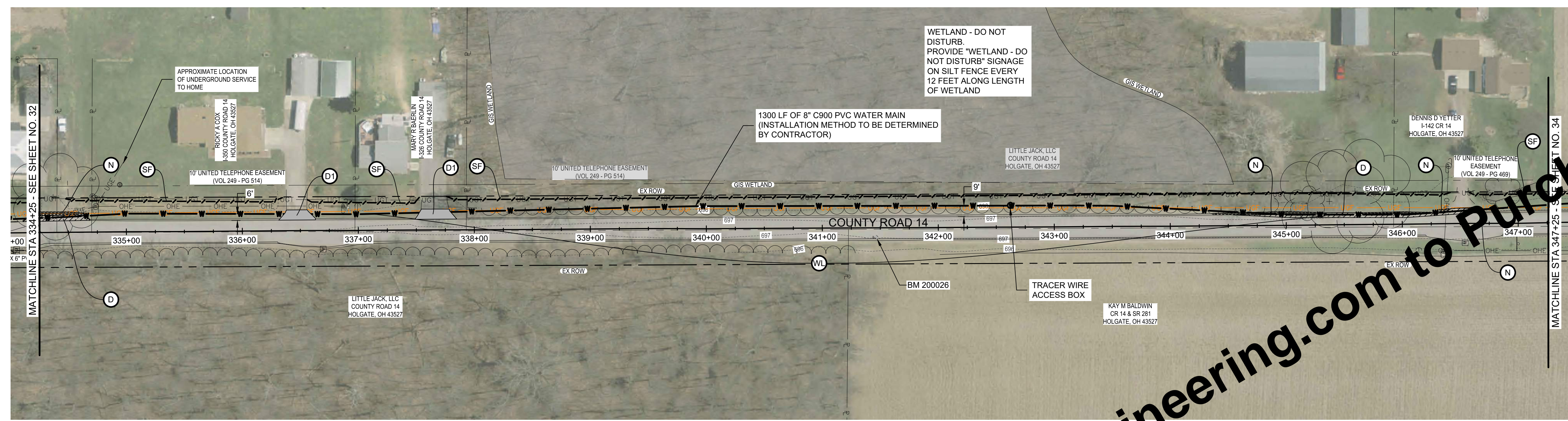
TOTAL SHEETS  
**50**

APPROVED  
Environmental  
Protection  
Agency  
02/20/2026

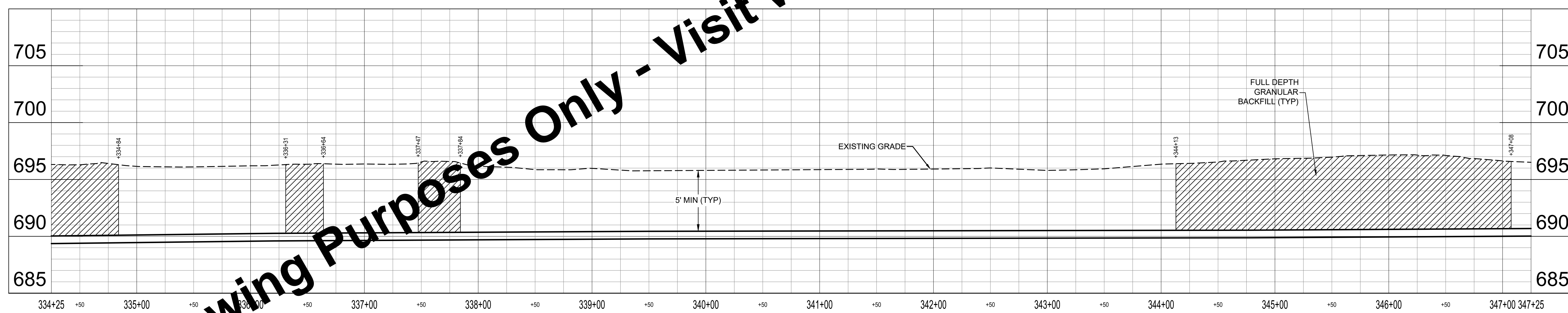


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- CONTRACTOR TO REPAIR AND REINSTATE ANY DAMAGED FIELD TILE WITHIN 24 HOURS OF OCCURRENCE.
- IF WATER MAIN IS INSTALLED BY OPEN CUT AND ALIGNMENT IS WITHIN 7 FEET OF UTILITY POLES, SUPPORT POLES DURING CONSTRUCTION.
- NO CONSTRUCTION ACTIVITIES, EXCAVATIONS OR LAND DISTURBANCES PERMITTED WITHIN WETLAND.
- 93 ROCK SOUNDINGS WERE COMPLETED TO DETERMINE DEPTH TO ROCK ALONG THE WATER MAIN ALIGNMENT. ROCK WAS NOT ENCOUNTERED WITHIN THE EXPLORATION DEPTHS OF APPROXIMATELY 10 FT. REFER TO APPENDIX A OF THE SPECIFICATIONS FOR THE FULL GEOTECHNICAL EVALUATION.
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**PLAN - LINE A**  
SCALE: 1" = 50'



**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 5'

**KEYED NOTES**

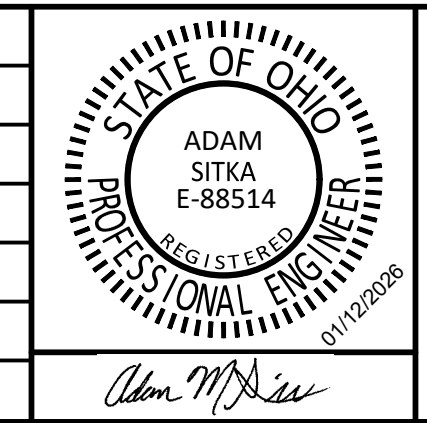
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	PROJECT NUMBER	703222-04-001				



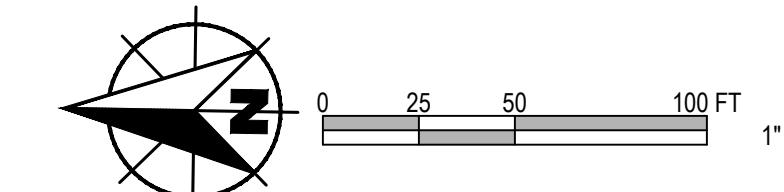
**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOGATE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.  
**33**

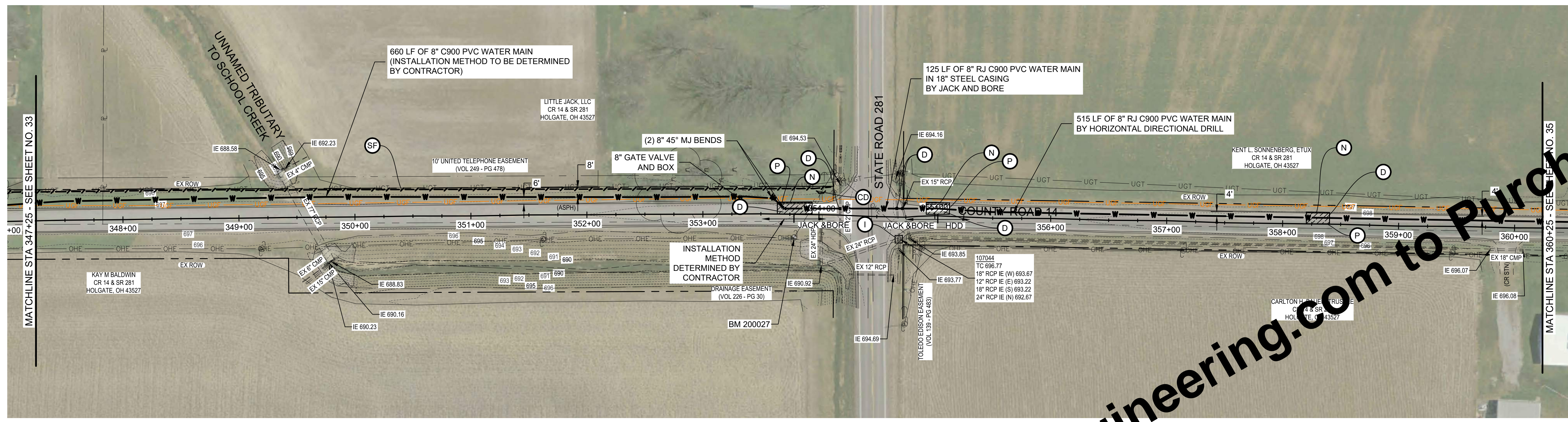
TOTAL SHEETS  
**50**

APPROVED  
Environmental Protection Agency  
02/20/2026



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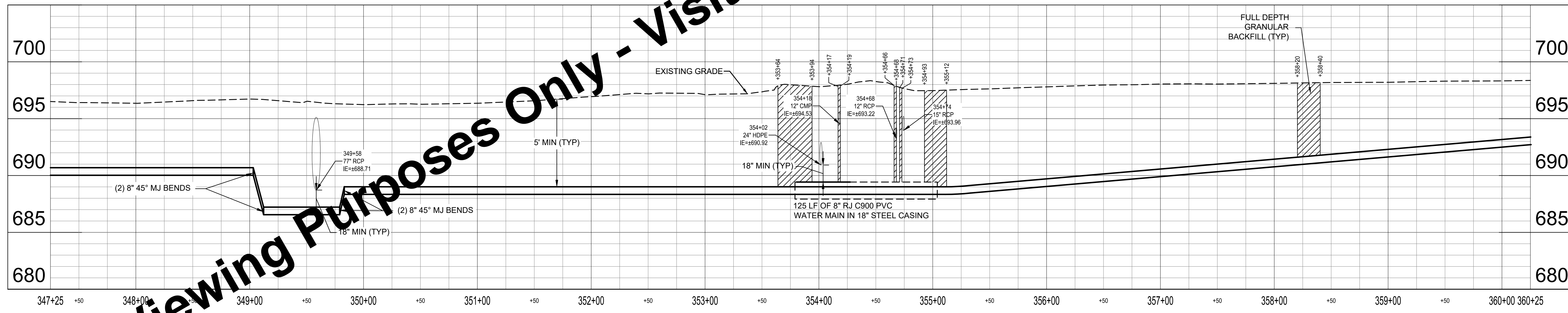


**PLAN - LINE A**  
SCALE: 1" = 50'

**NOTE:**  
1. FOR THE SR 281 CROSSING, NOTIFY ODOT REPRESENTATIVE 3 DAYS BEFORE WORK BEGINS AND WHEN WORK IS COMPLETED FOR FINAL INSPECTION.

**CONTACT INFORMATION:**  
DREW KRONBERG  
PERMIT TECHNICIAN 2  
317 E POE ROAD  
BOWLING GREEN, OHIO 43402  
419-373-4301 DESK  
419-409-0002 MOBILE

2. PHOTOGRAPH SR 281 CROSSING SITE PRIOR TO CONSTRUCTION. PHOTOS SHOULD INCLUDE PAVEMENT, PAVED SHOULDERS, MEDIANS, DITCH LINES, AND EMBANKMENTS. PHOTOS ARE TO BE SUBMITTED TO ODOT PRIOR TO ANY WORK IN ODOT RIGHT-OF-WAY.



**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 5'

**KEYED NOTES**

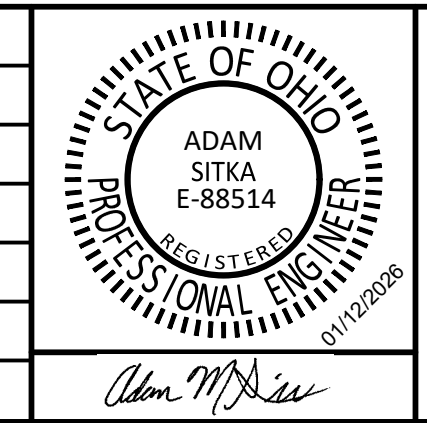
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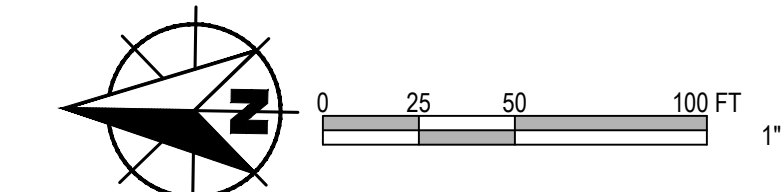
**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOGDALE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.  
**34**

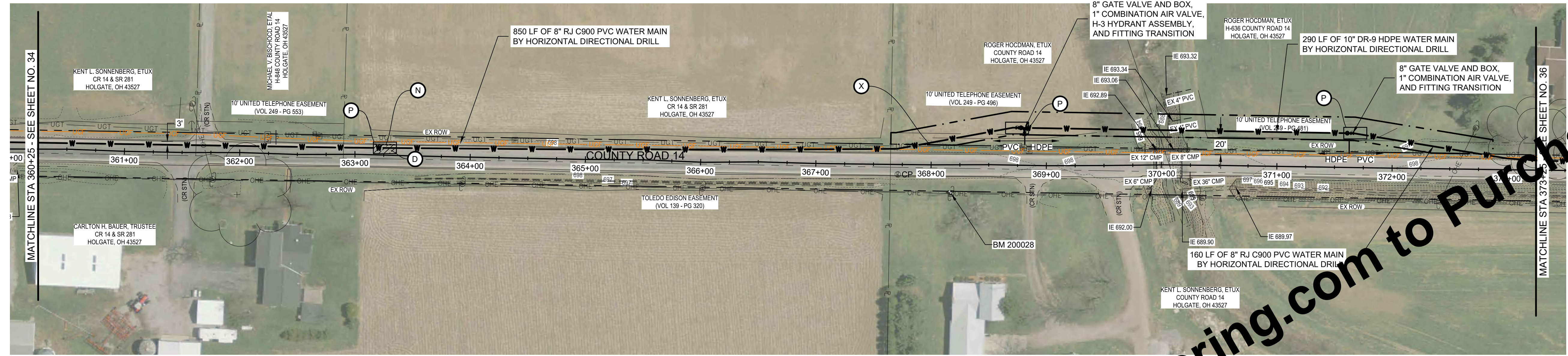
TOTAL SHEETS  
**50**

APPROVED  
Environmental Protection Agency  
02/20/2026



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**PLAN - LINE A**  
SCALE: 1" = 50'



**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 5'

**KEYED NOTES**

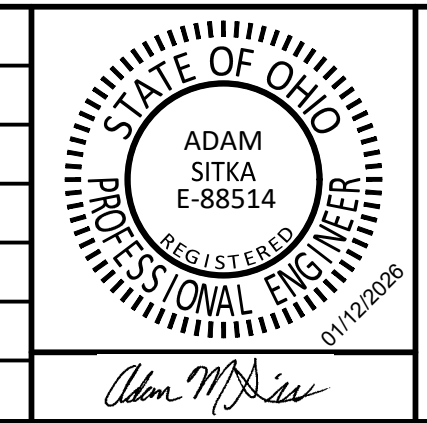
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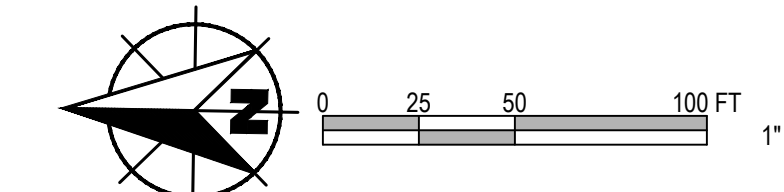
**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOGDALE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.  
**35**

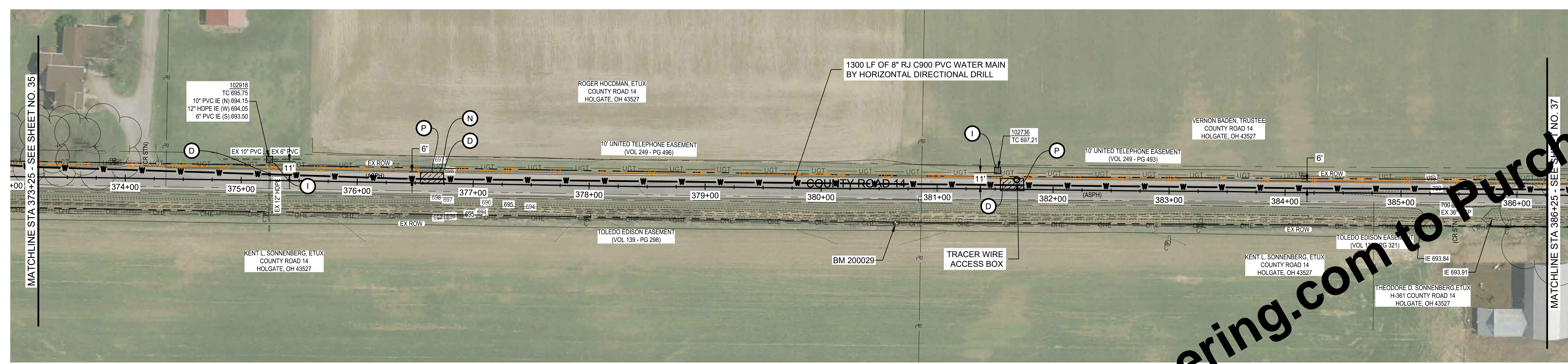
TOTAL SHEETS  
**50**

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Environmental Protection Agency  
02/20/2026

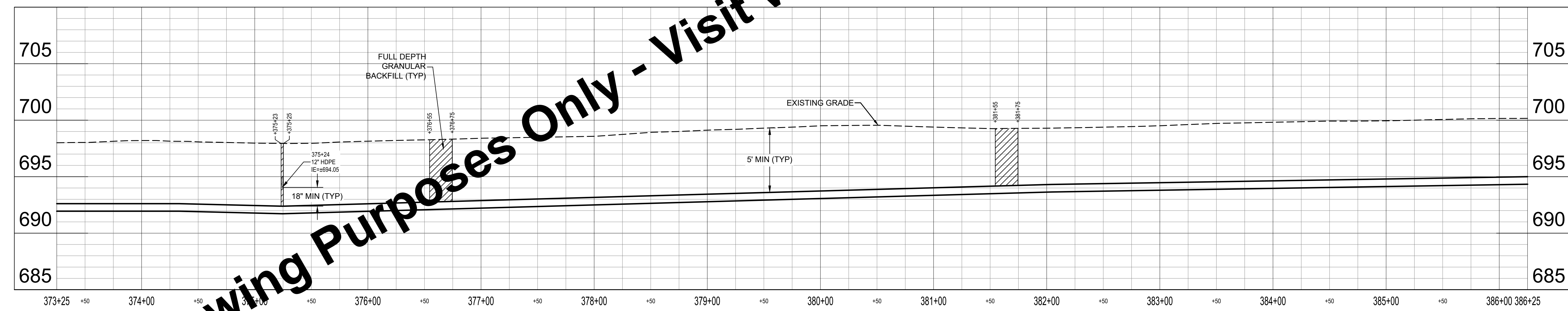


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**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
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**KEYED NOTES**

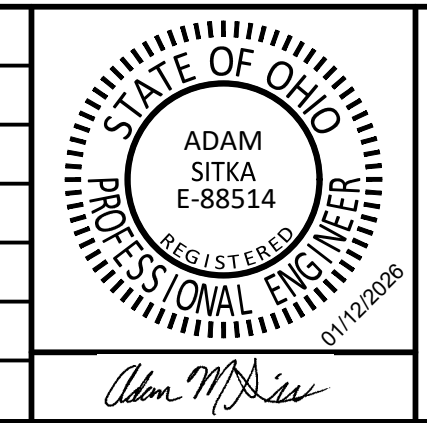
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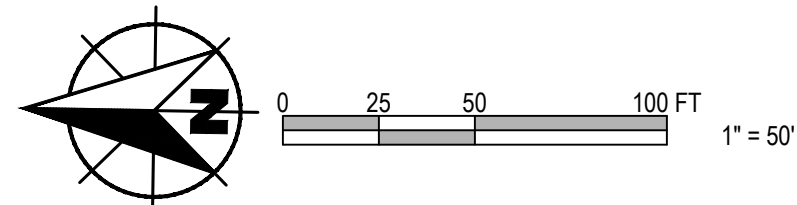
**WATER SYSTEM IMPROVEMENTS**  
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**PLAN AND PROFILE - LINE A**

SHEET NO.  
**36**

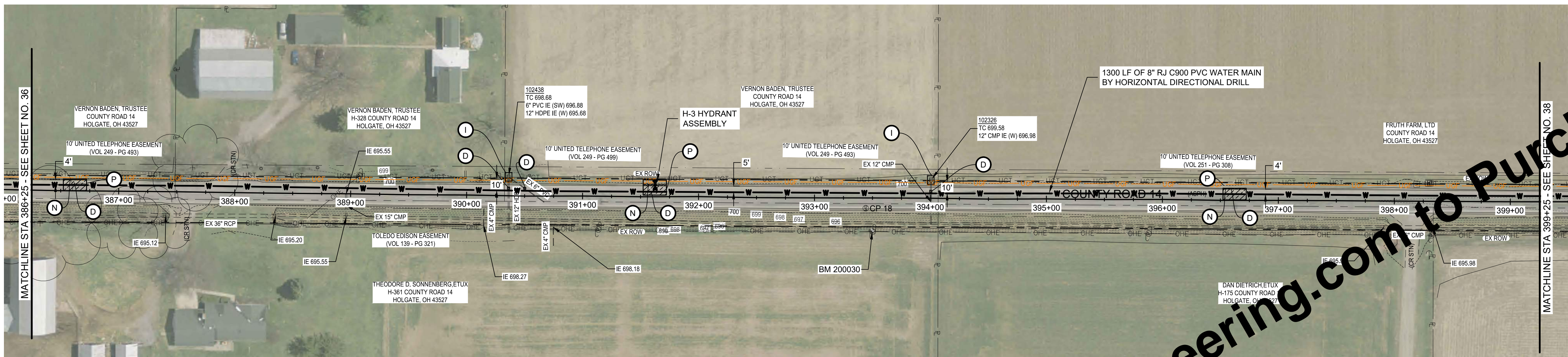
TOTAL SHEETS  
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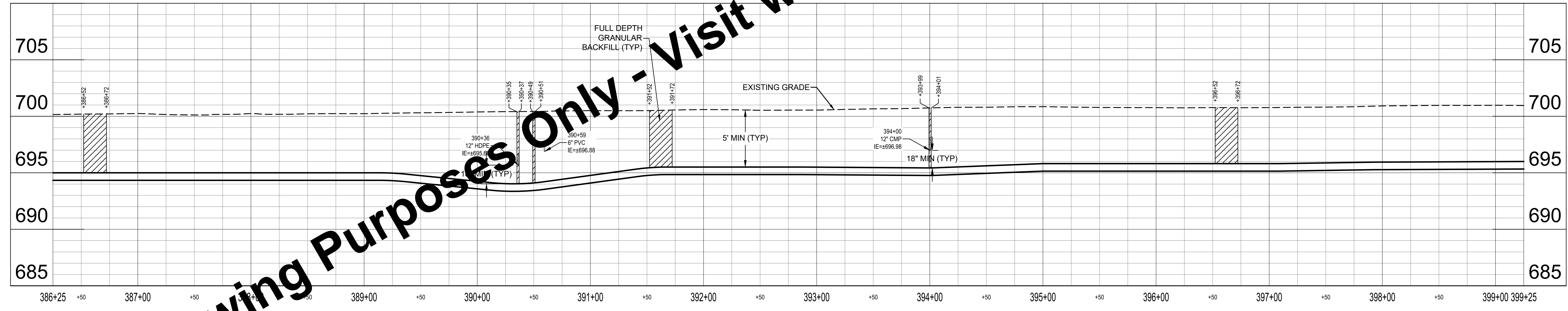


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- IF WATER MAIN IS INSTALLED BY OPEN CUT AND ALIGNMENT IS WITHIN 7 FEET OF UTILITY POLES, SUPPORT POLES DURING CONSTRUCTION.
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**PLAN - LINE A**  
SCALE: 1" = 50'



**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 5'

**KEYED NOTES**

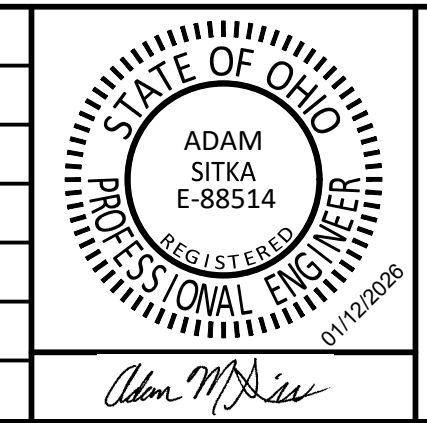
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	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				



**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOGDALE, OHIO

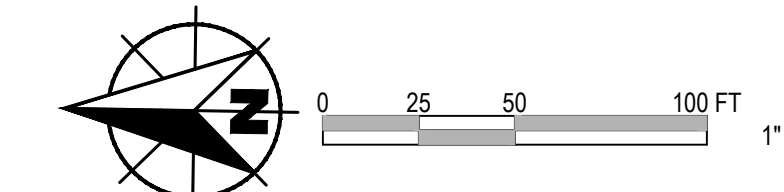
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SHEET NO.  
**37**

TOTAL SHEETS  
**50**

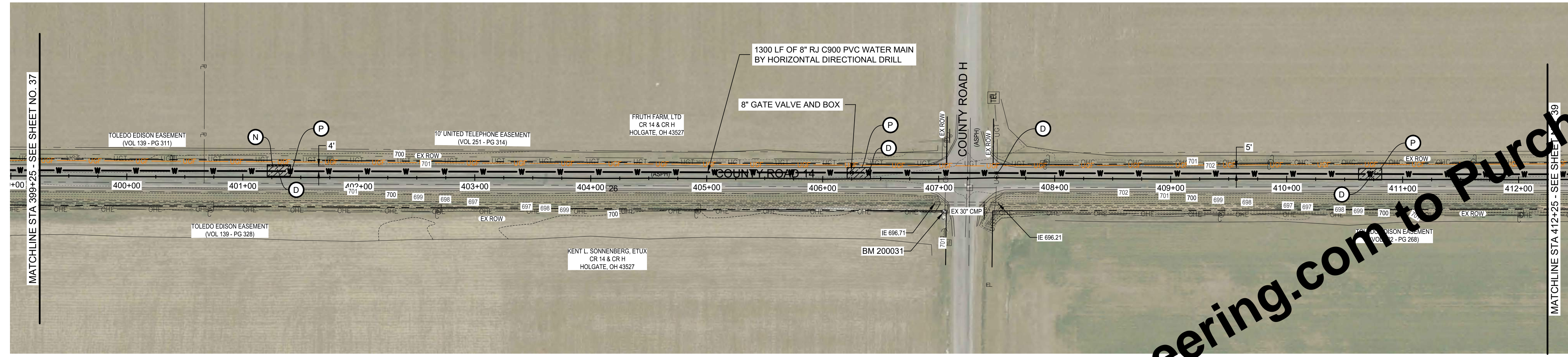
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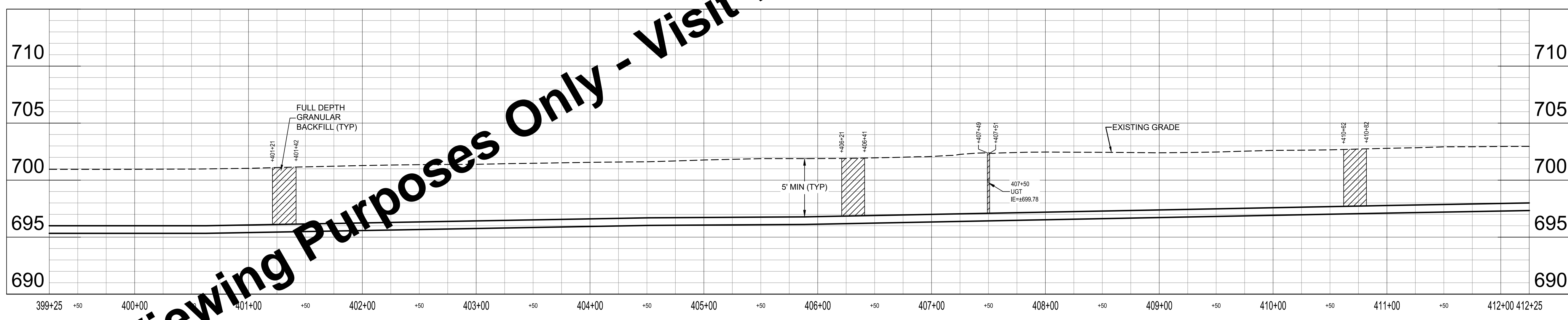


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**PLAN - LINE A**  
SCALE: 1" = 50'



**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 5'

**KEYED NOTES**

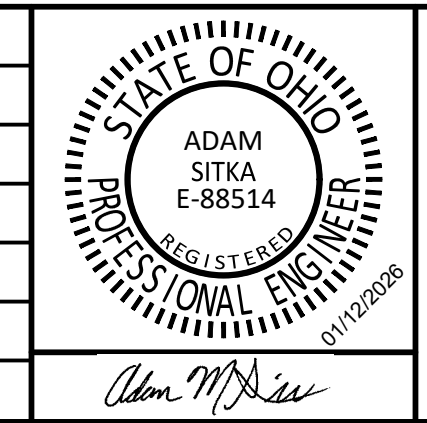
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	PROJECT NUMBER	703222-04-001				



**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOGGATE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.  
**38**

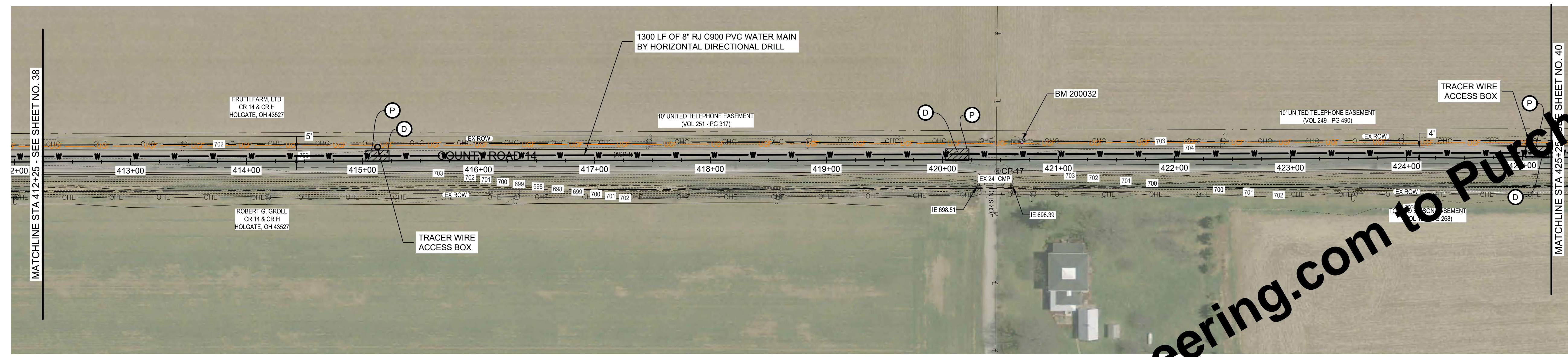
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DATE: 01-30-2026  
PROJECT: 703222-04-001

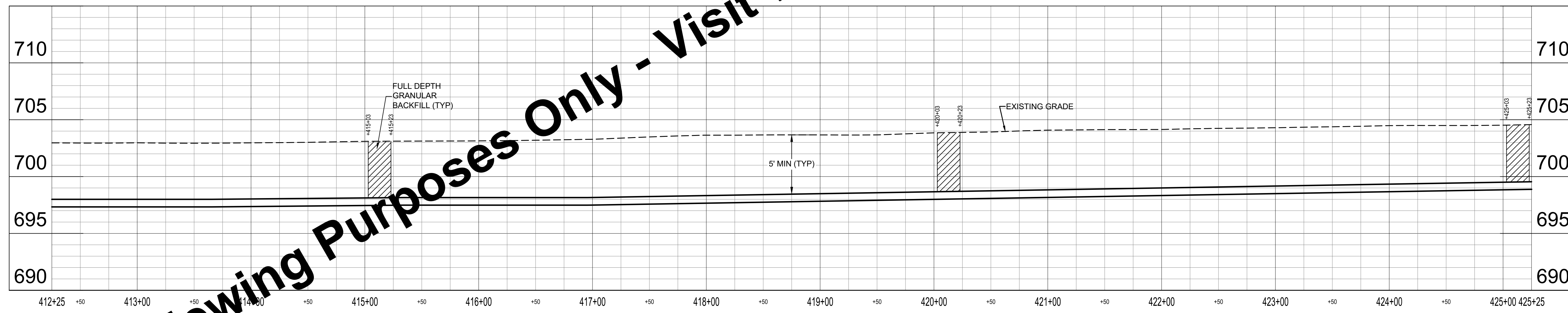


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**PLAN - LINE A**  
SCALE: 1" = 50'



**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 5'

**KEYED NOTES**

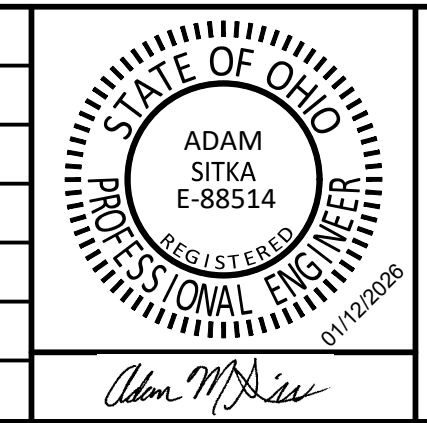
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	PROJECT NUMBER	703222-04-001				



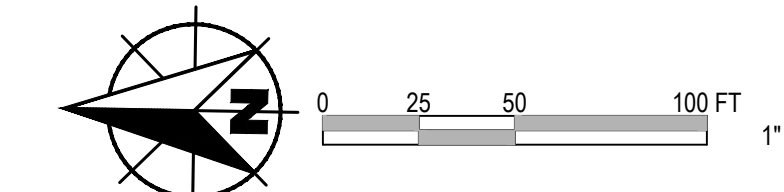
**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOGATE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.  
**39**

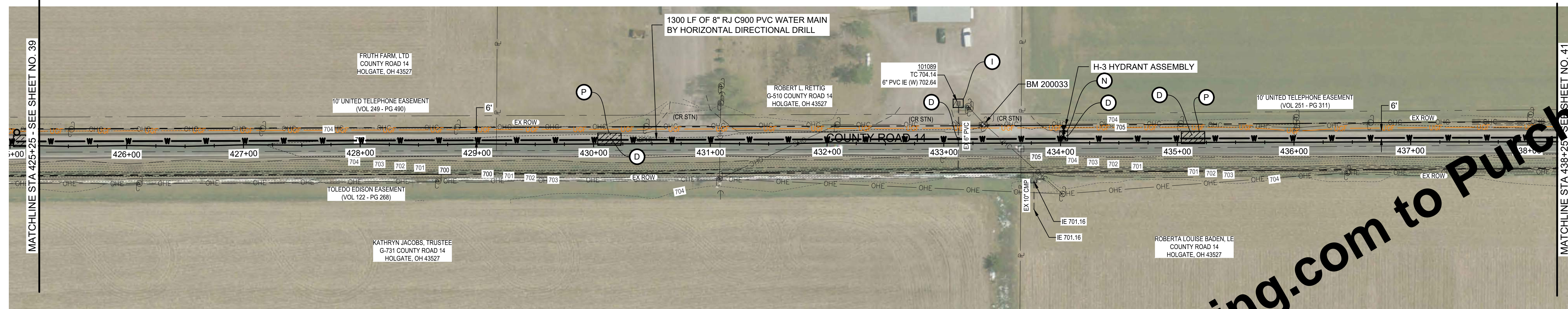
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APPROVED  
Ohio Environmental Protection Agency  
02/20/2026

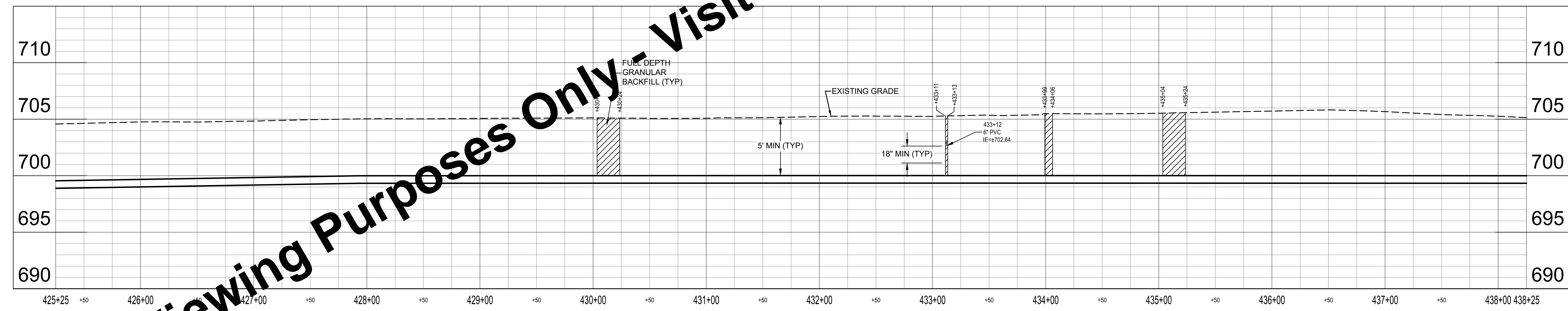


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**PLAN - LINE A**  
SCALE: 1" = 50'



**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 5'

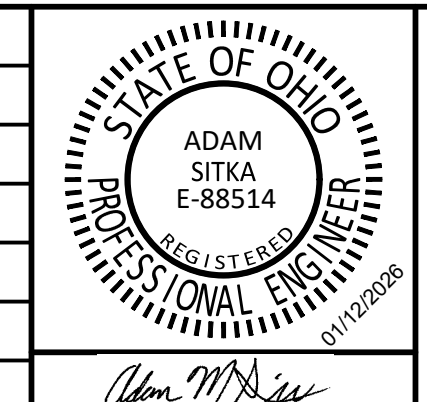
**KEYED NOTES**

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**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOLGATE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.  
**40**

TOTAL SHEETS  
**50**

DATE: 02/20/2026  
PROJECT: 703222-04-001



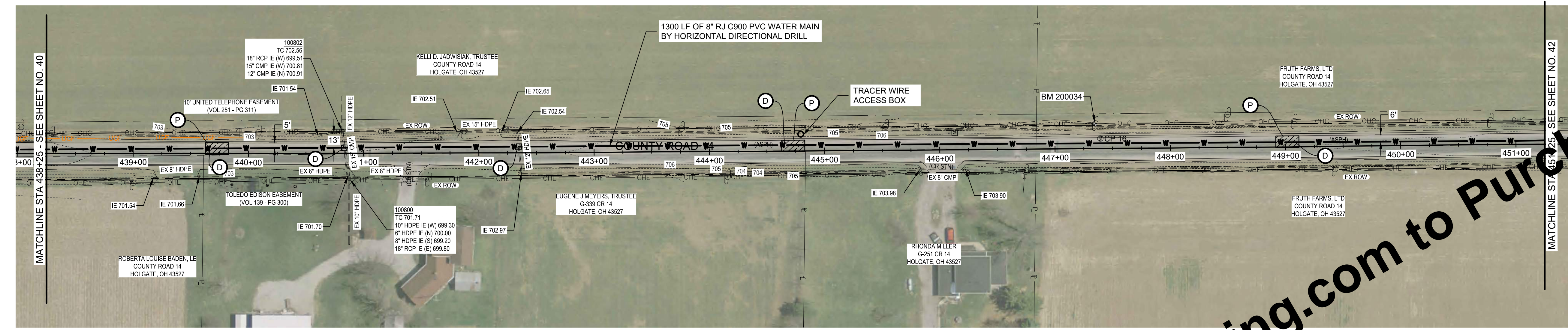
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**GENERAL NOTES:**

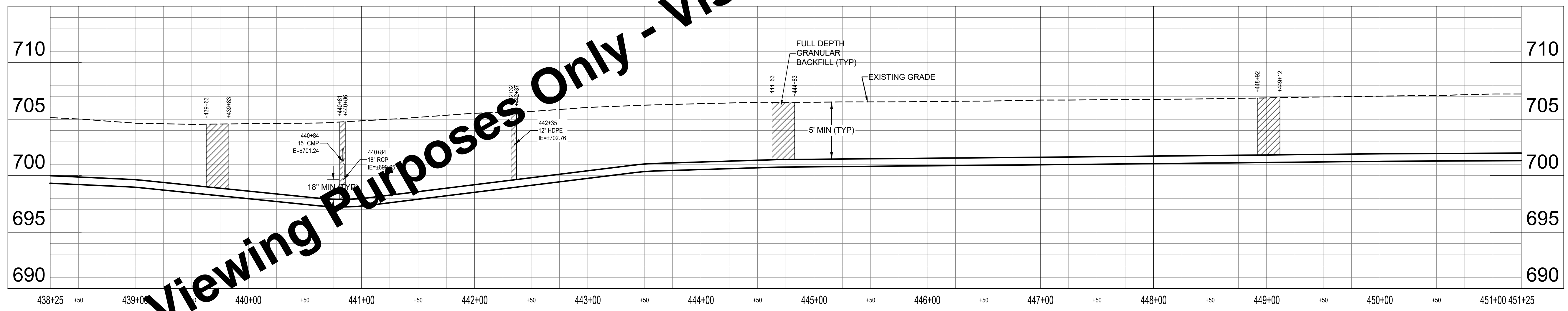
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SCALE: 1" = 50'



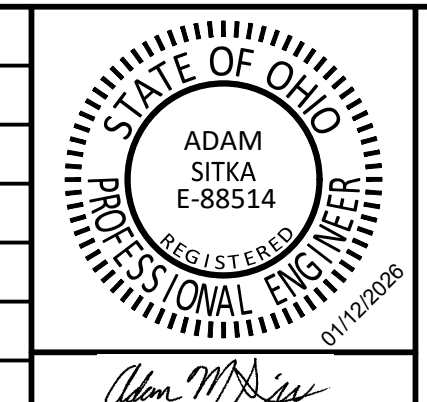
**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
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CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOLGATE, OHIO

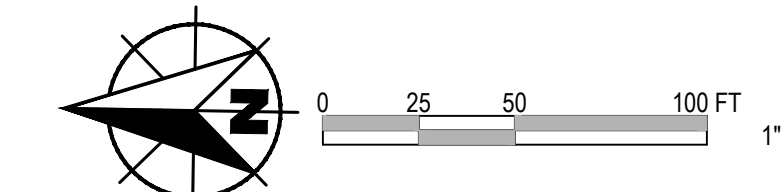
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SHEET NO.  
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TOTAL SHEETS  
**50**

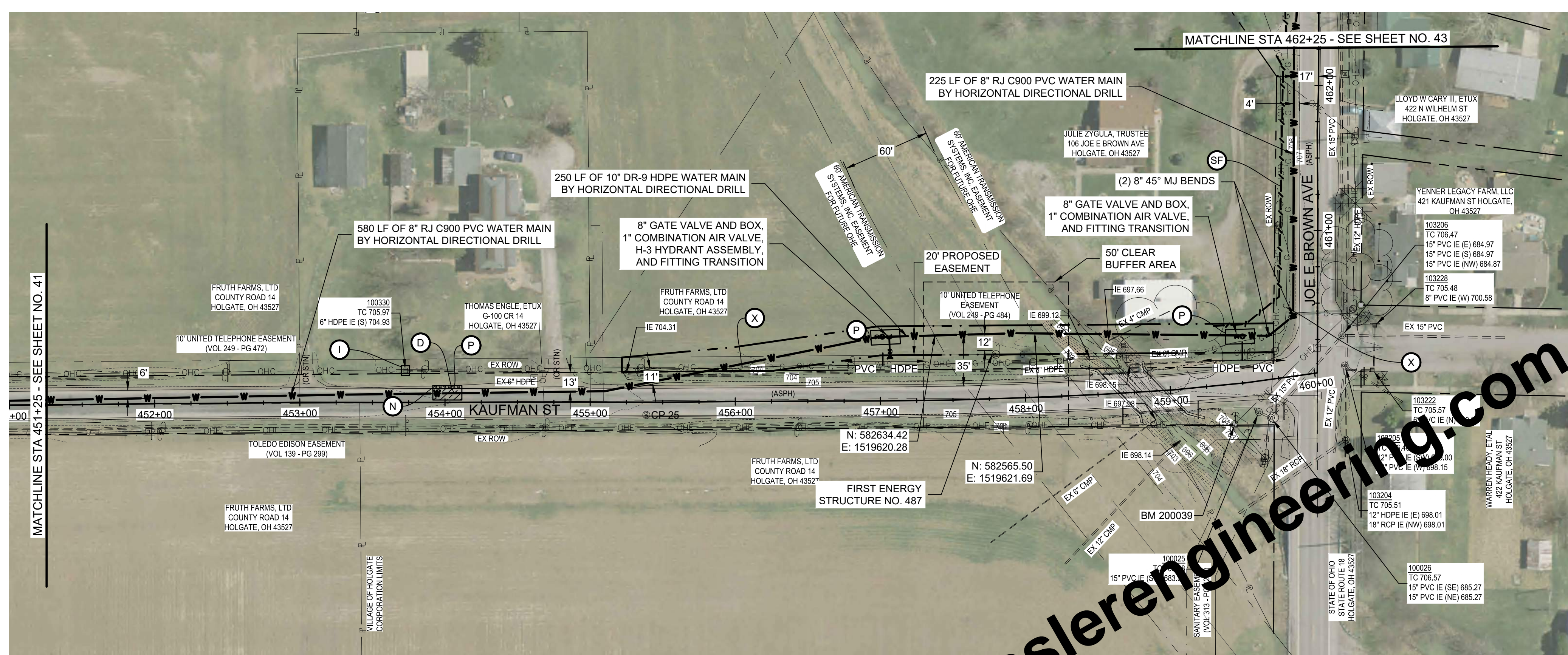
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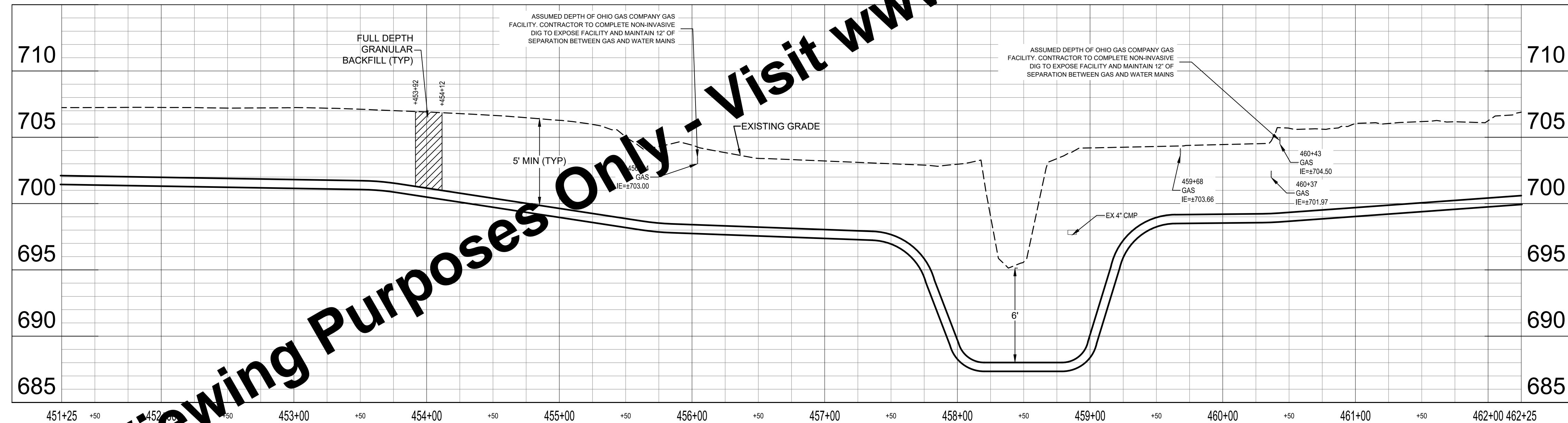


**GENERAL NOTES:**

- FOR WATER MAIN - INSTALLATION METHOD DETERMINED BY CONTRACTOR (SECTION 01990 PAY ITEM NO. 01) NOT SHOWN AS HDD. THE WATER MAIN PLAN SHEET INFORMATION, INCLUDING FITTINGS, GRANULAR BACKFILL, PAVEMENT RESTORATION, UTILITY CLEARANCES, AND OTHER ITEMS, IS BASED ON AN ASSUMED OPEN CUT INSTALLATION AND IS PROVIDED FOR CLARITY ONLY. IF HDD IS SELECTED, THEN CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE REQUIRED FITTINGS, PAVEMENT RESTORATION, GRANULAR BACKFILL, UTILITY CLEARANCES, AND OTHER ITEMS REQUIRED FOR A COMPLETE INSTALL.
- INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON PLAN SHEETS AND AS NECESSARY TO PROVIDE ADEQUATE CONTROL FOR THE CONSTRUCTION AREA. SEE SPECIFICATION 02101.
- CONTRACTOR TO REPAIR AND REINSTATE ANY DAMAGED FIELD TILE WITHIN 24 HOURS OF OCCURRENCE.
- IF WATER MAIN IS INSTALLED BY OPEN CUT AND ALIGNMENT IS WITHIN 7 FEET OF UTILITY POLES, SUPPORT POLES DURING CONSTRUCTION.
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**PLAN - LINE A**  
SCALE: 1" = 50'



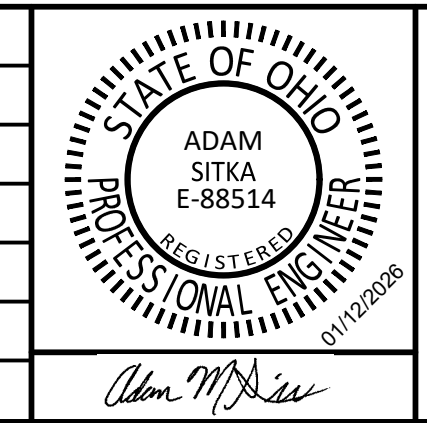
**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 5'

**KEYED NOTES**

- D PAVEMENT REPAIR AND FULL DEPTH TYPE 1 BACKFILL
- D1 ASPHALT DRIVE REPAIR AND FULL DEPTH TYPE 1 BACKFILL
- F1 CONCRETE DRIVE REPAIR AND FULL DEPTH TYPE 1 BACKFILL
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- SF SILT FENCE
- CD CHECK DAM
- I INLET PROTECTION
- P APPROXIMATE LOCATION OF DRILLING AND RECEIVING PIT
- WL WORK TAKES PLACE WITHIN 100 FEET OF A WETLAND. EXCAVATIONS IN THIS AREA SHALL BE PROTECTED WITH PERIMETER PROTECTION MEASURES. RE TO SPECIFICATION 02101. EXCAVATION IS NOT PERMITTED IN WETLAND
- X POTENTIAL UTILITY CONFLICT. FIELD VERIFY PRIOR TO CONSTRUCTION.

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	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				



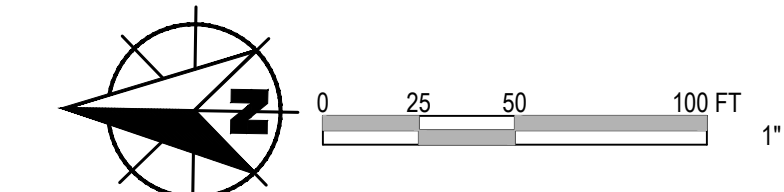
**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOLGATE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.	42
TOTAL SHEETS	50

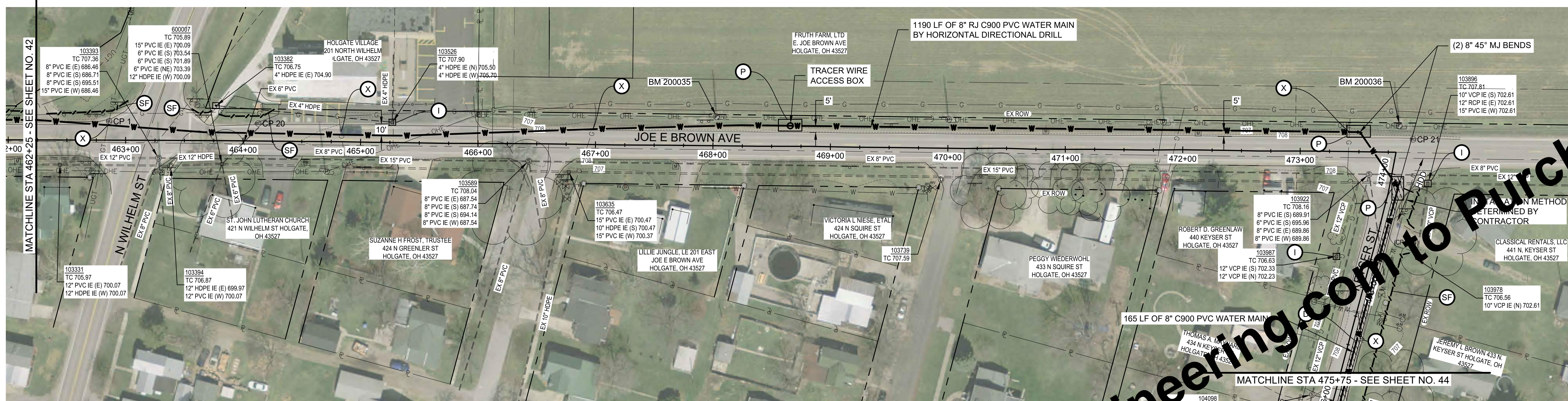


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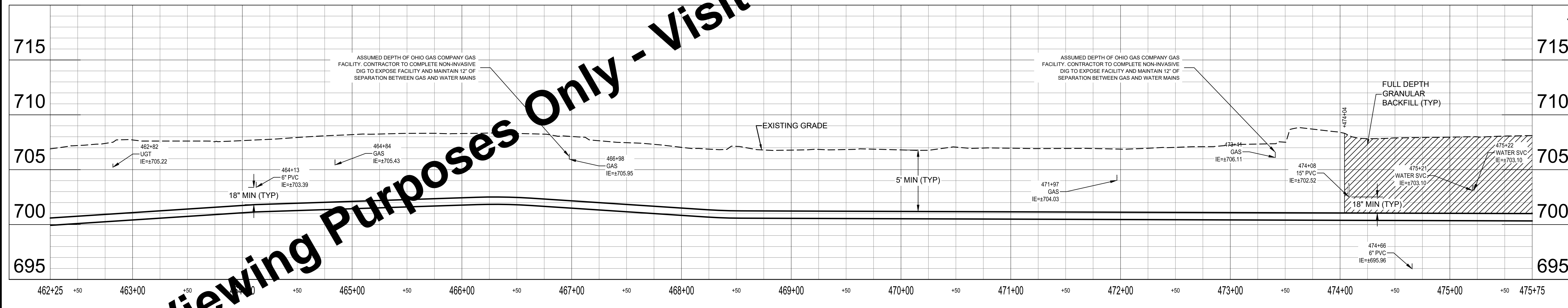


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- CONTRACTOR TO REPAIR AND REINSTATE ANY DAMAGED FIELD TILE WITHIN 24 HOURS OF OCCURRENCE.
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**PLAN - LINE A**  
SCALE: 1" = 50'



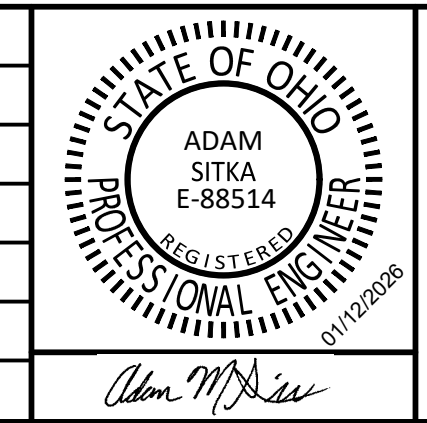
**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 5'

**KEYED NOTES**

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- D1 ASPHALT DRIVE REPAIR AND FULL DEPTH TYPE 1 BACKFILL
- F1 CONCRETE DRIVE REPAIR AND FULL DEPTH TYPE 1 BACKFILL
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	APPROVED BY	AMS				
	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				



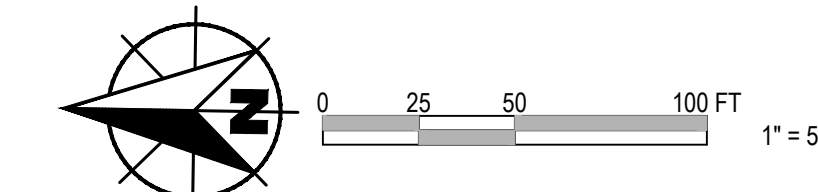
**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOLGATE, OHIO

**PLAN AND PROFILE - LINE A**

SHEET NO.	<b>43</b>
TOTAL SHEETS	<b>50</b>



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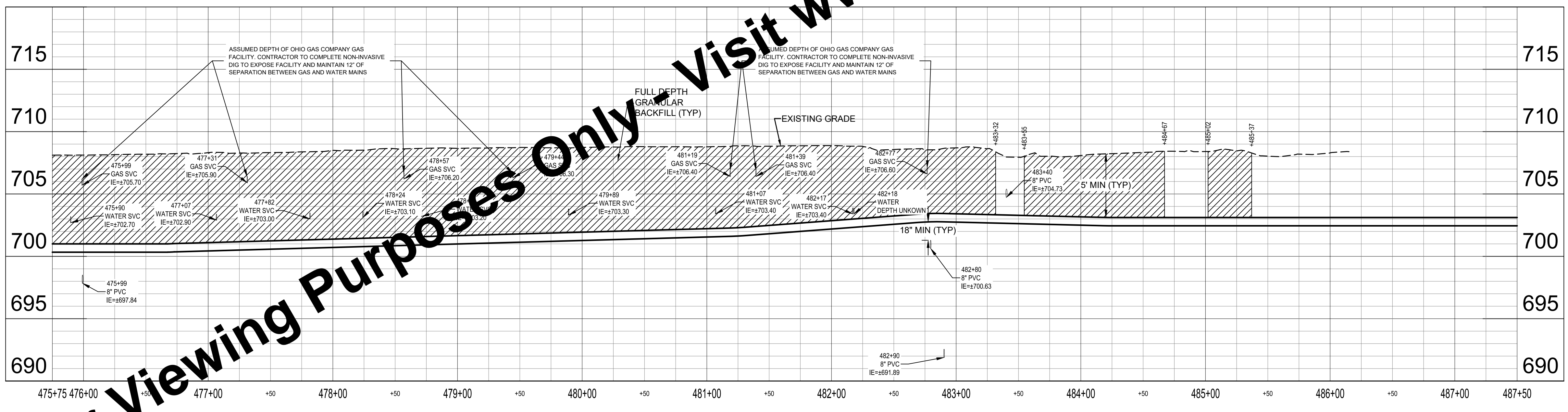


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**PLAN - LINE A**  
SCALE: 1" = 50'



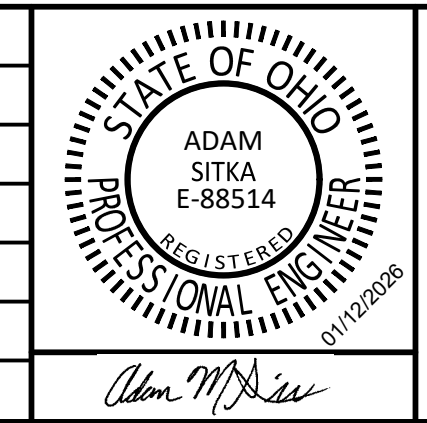
**PROFILE - LINE A**  
HORIZ SCALE: 1" = 50'  
VERT SCALE: 1" = 5'

**KEYED NOTES**

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	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				

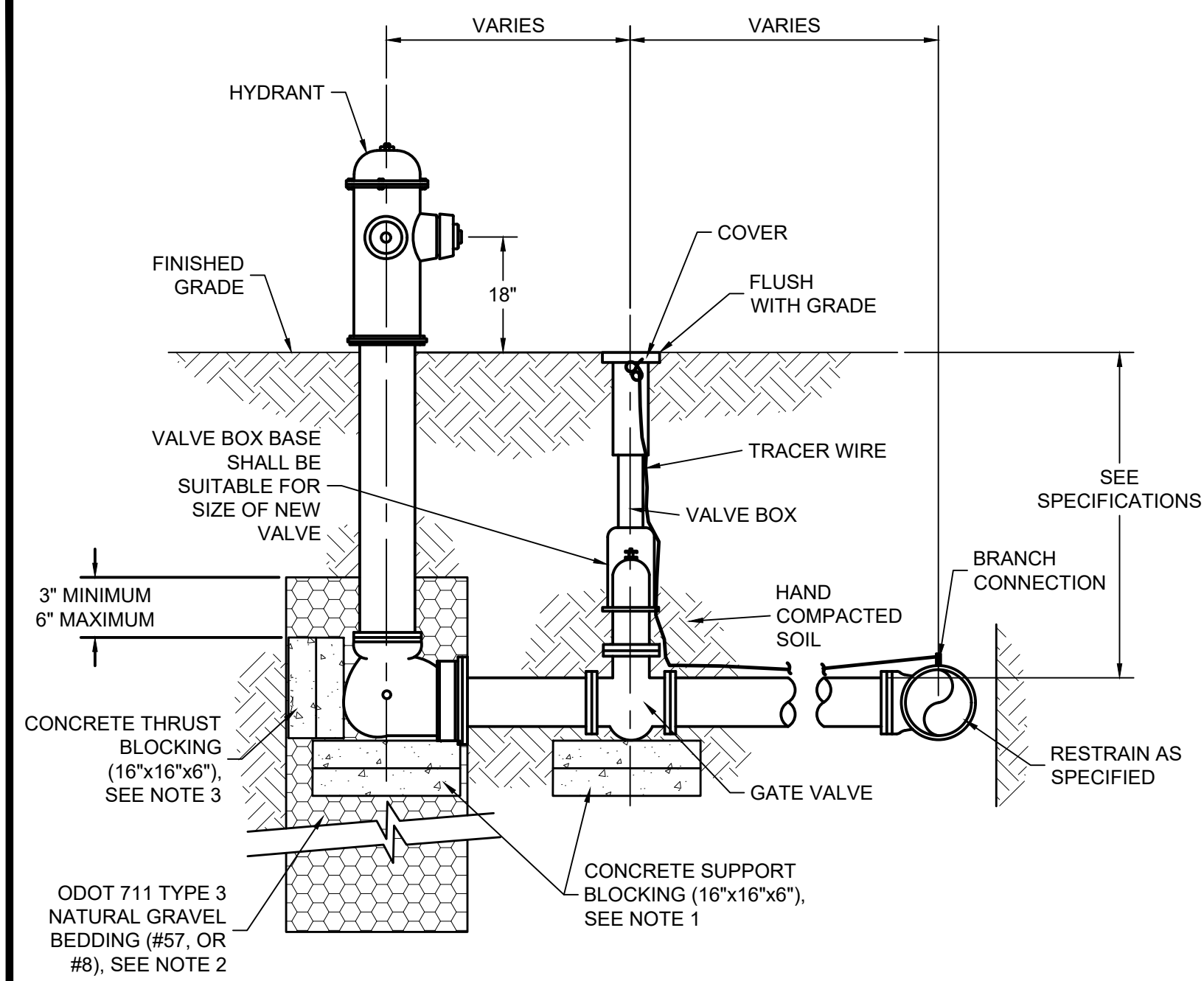


**WATER SYSTEM IMPROVEMENTS**  
 CONTRACT A NEW WATER TRANSMISSION MAIN  
 VILLAGE OF HOLGATE, OHIO  
**PLAN AND PROFILE - LINE A**

SHEET NO.  
**44**  
 TOTAL SHEETS  
**50**

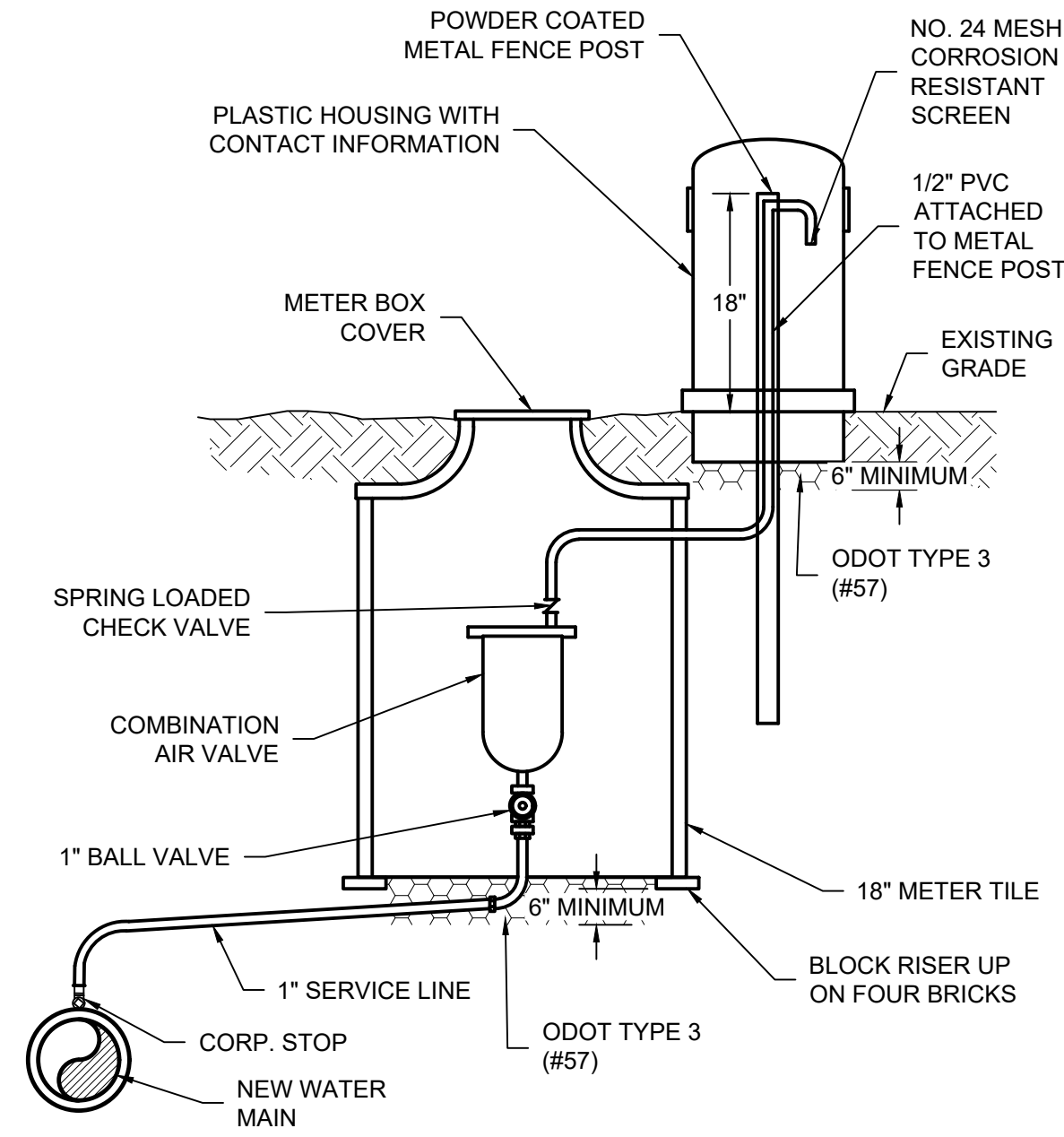


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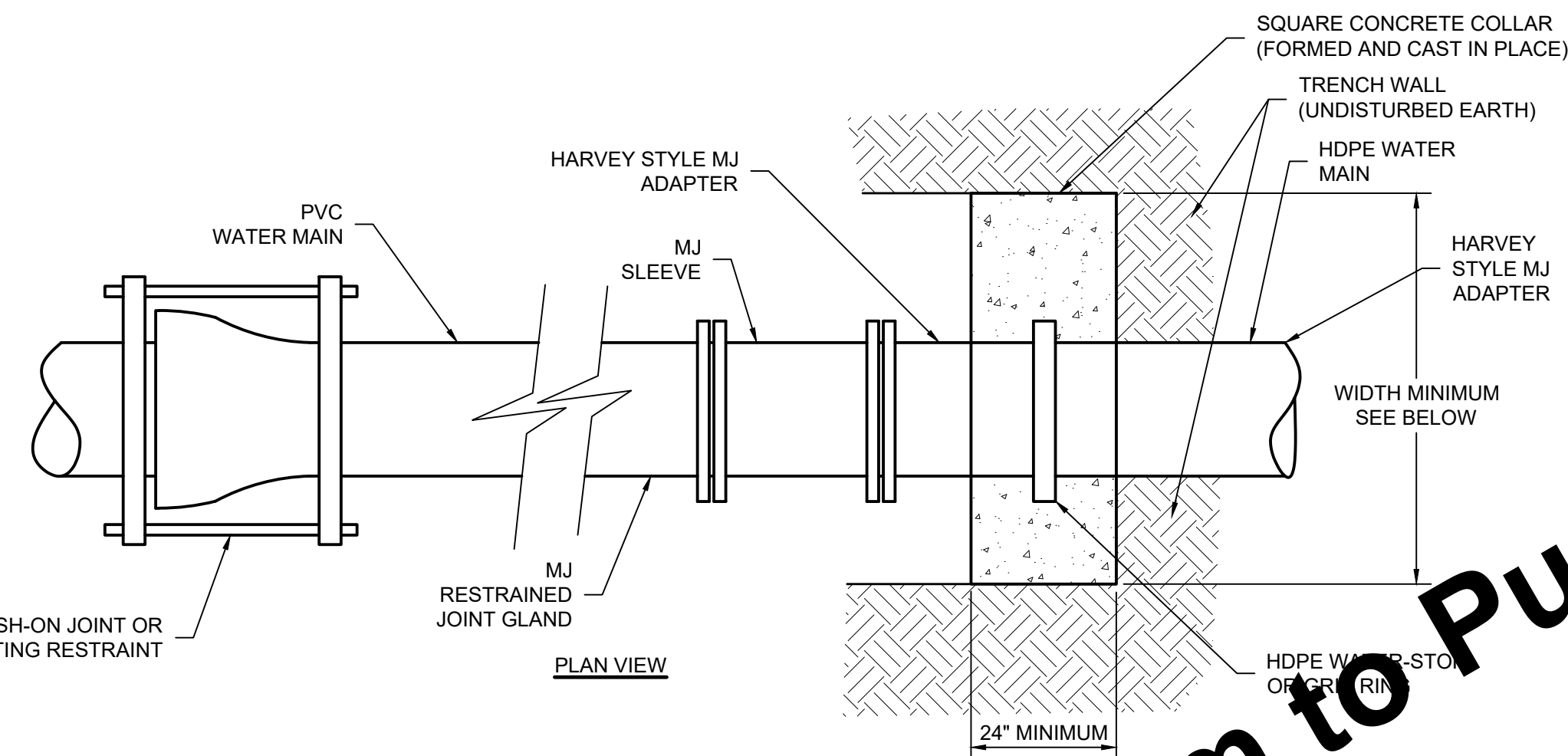
**HYDRANT ASSEMBLY**  
SCALE: NONE

- NOTES:**
1. SET HYDRANT AND VALVE ON CONCRETE SUPPORT BLOCKING.
  2. PLACE 2x3' DEEP DRAINAGE PIT. EXTEND A MINIMUM OF 3", AND MAXIMUM OF 6", ABOVE HYDRANT BOOT.
  3. RESTRAINED FITTINGS SHALL BE USED IN ADDITION TO CONCRETE THRUST BLOCKING. RESTRAINTS MUST BE USED FROM THE DISTRIBUTION MAIN TO THE HYDRANT. PLACE CONCRETE BLOCKS BEHIND HYDRANT TO UNDISTURBED EARTH.
  4. VALVE BOX SHALL BE CENTERED AND PLUMB OVER VALVE OPERATING NUT.



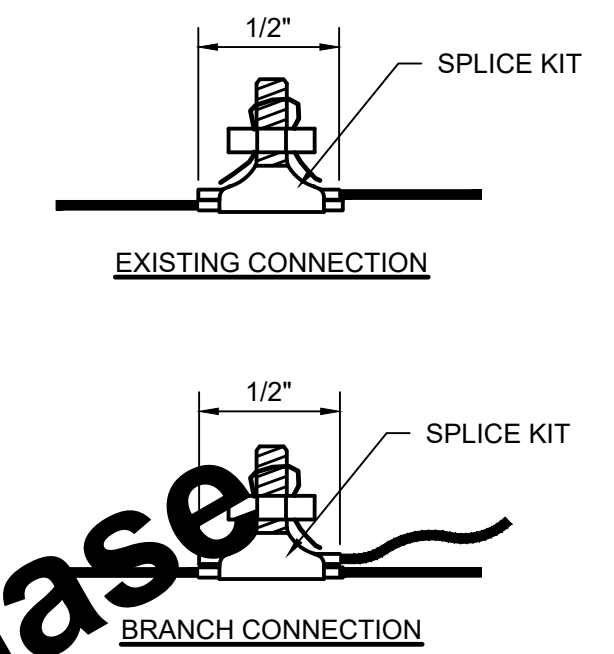
**AIR RELEASE VALVE**  
SCALE: NONE

FITTING TYPE	FEET OF RESTRAINED PIPE @ 150 PSI (A) ON EACH SIDE OF FITTING	
	8 INCH	10 INCH
11 1/4° HORIZ BEND	3	4
22 1/2° HORIZ BEND	6	7
45° HORIZ BEND	11	14
90° HORIZ BEND	27	33
11 1/4° VERT BEND	6	7
22 1/2° VERT BEND	11	14
45° VERT BEND	23	28
90° VERT BEND	55	68
VALVES AND PLUGS	55	68
TEE OUTLET	46	
VALVES AND PLUGS	55	68

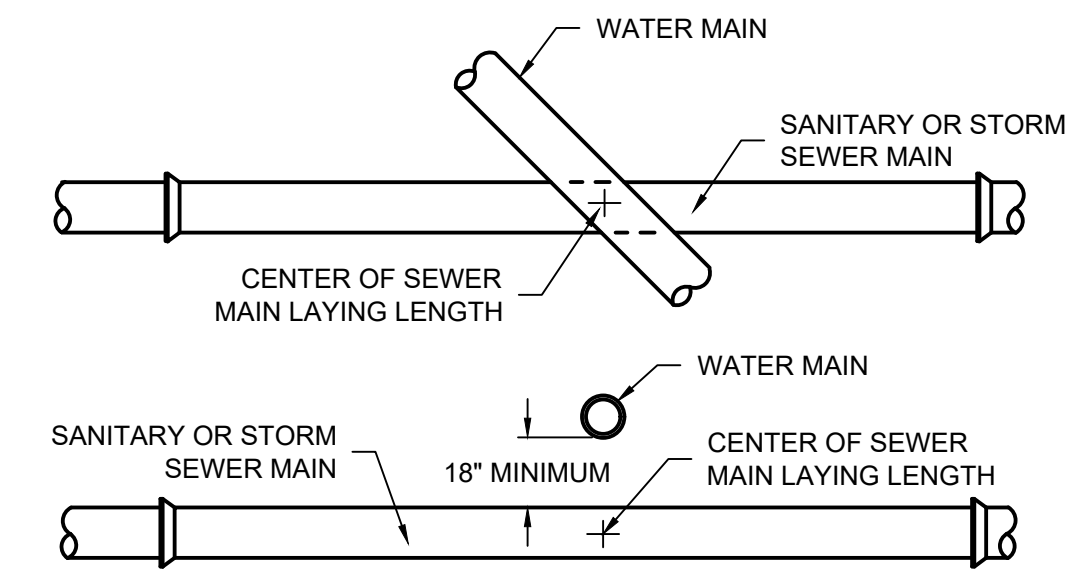


PIPE SIZE	BRACING AREA OF CONCRETE COLLAR	WIDTH MINIMUM
10"	14 SF	4'-0"

**HDPE PIPE TRANSITION**  
SCALE: NONE

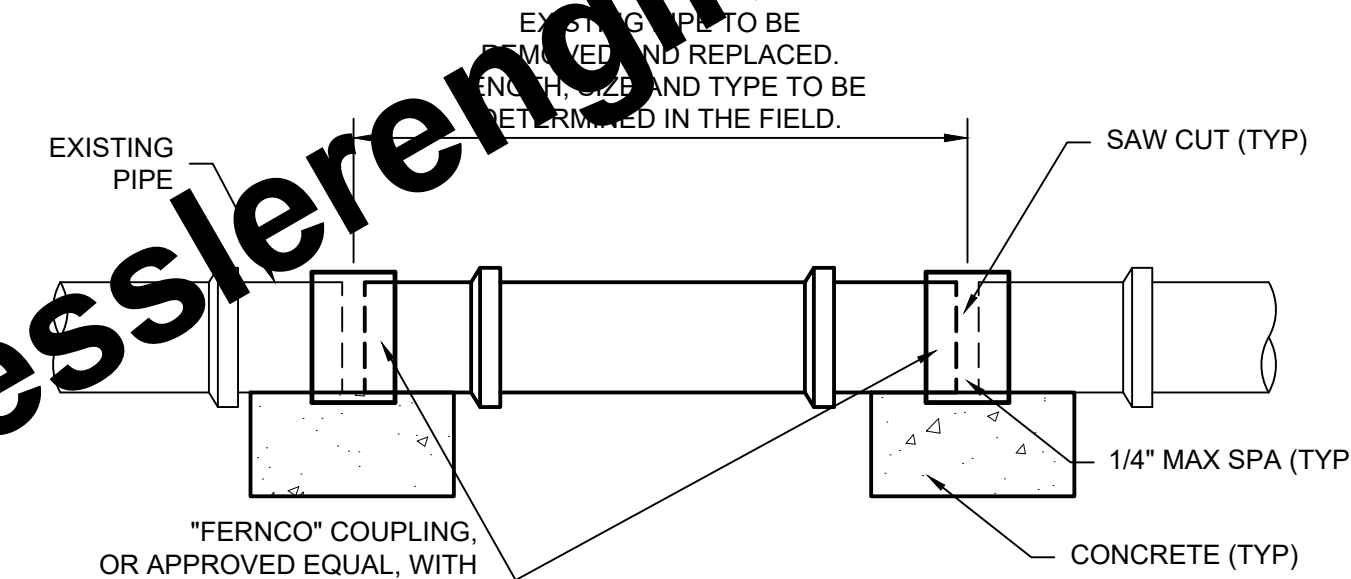


**TRACER WIRE BOLTED CONNECTION**  
SCALE: NONE

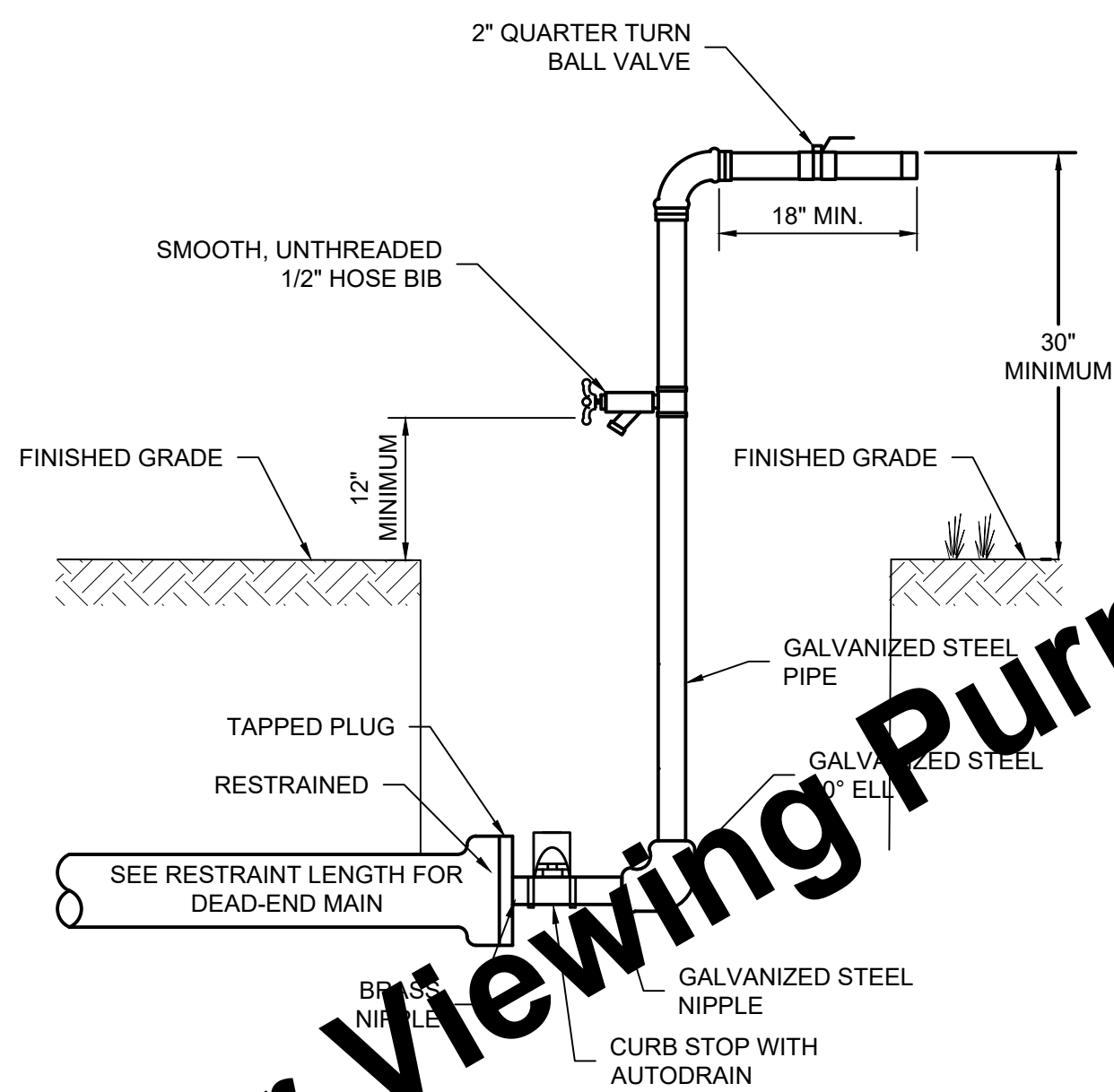


- NOTES:**
1. WATER MAIN AND SEWER MINIMUM SEPARATION: 18" VERTICAL SEPARATION 10'-0" HORIZONTAL SEPARATION.
  2. WHERE WATER MAIN AND SEWER SEPARATION IS LESS THAN 18" VERTICAL OR 10' HORIZONTAL, THE SEWER MUST BE DUCTILE IRON OR SDR-21 PVC.

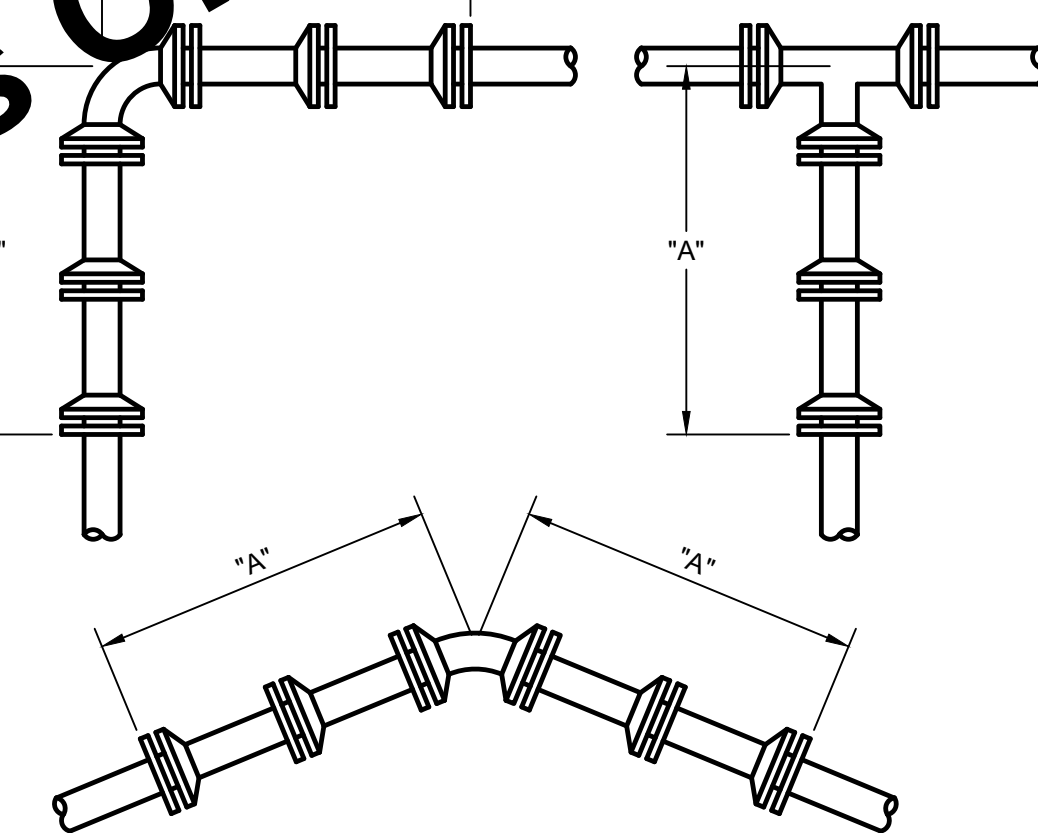
**MINIMUM CROSSOVER AND SEPARATION REQUIREMENTS FOR SEWER AND WATER MAINS**  
SCALE: NONE



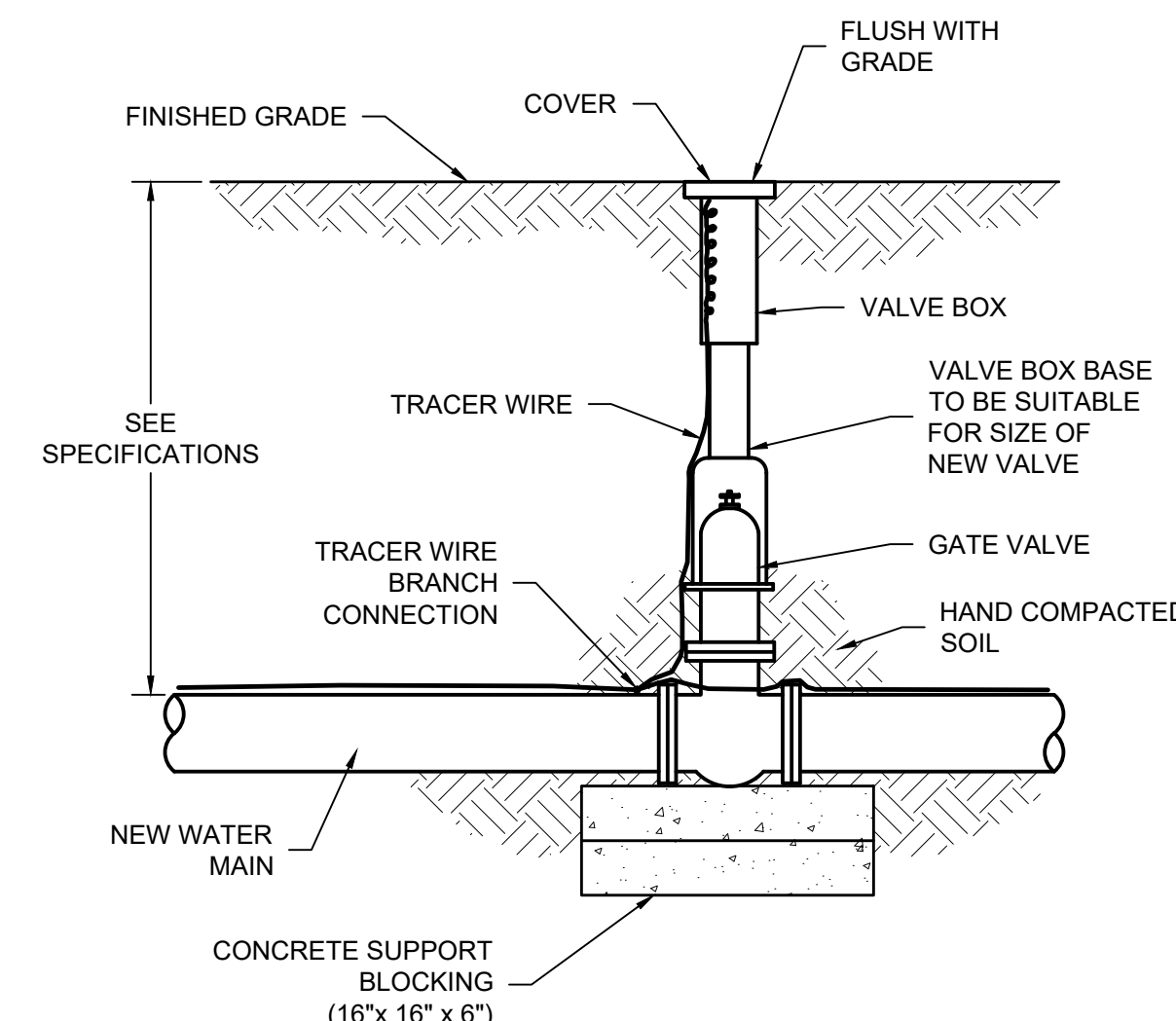
**FIELD TILE REPAIR**  
SCALE: NONE



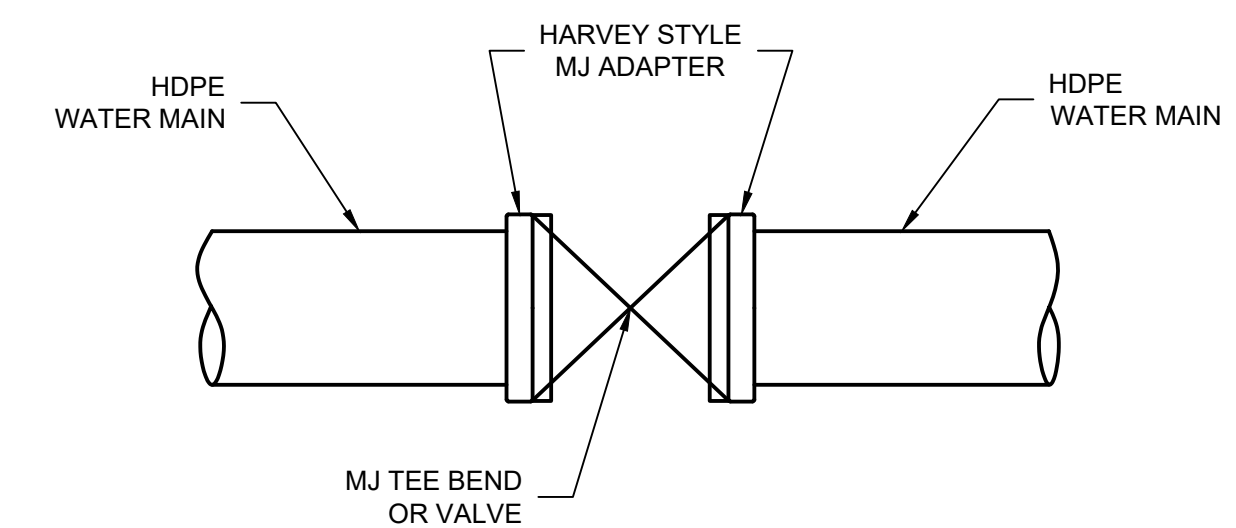
**TEMPORARY BLOW-OFF ASSEMBLY**  
SCALE: NONE



**WATER MAIN RESTRAINED PIPING**  
SCALE: NONE



**GATE VALVE**  
SCALE: NONE



**HDPE FITTING TRANSITION**  
SCALE: NONE

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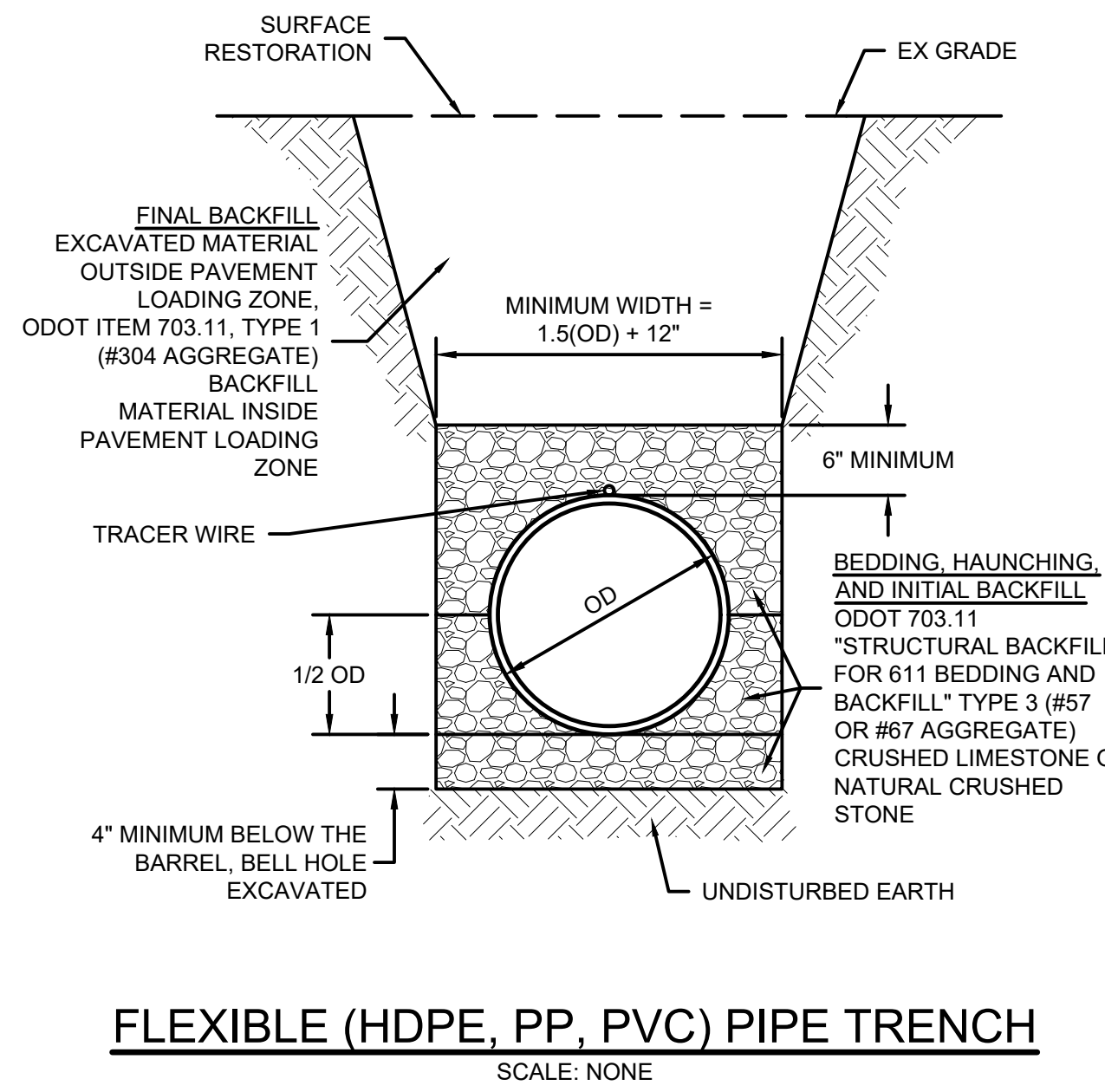
**WATER SYSTEM IMPROVEMENTS**  
CONTRACT A NEW WATER TRANSMISSION MAIN  
VILLAGE OF HOGATE, OHIO

**MISCELLANEOUS DETAILS**

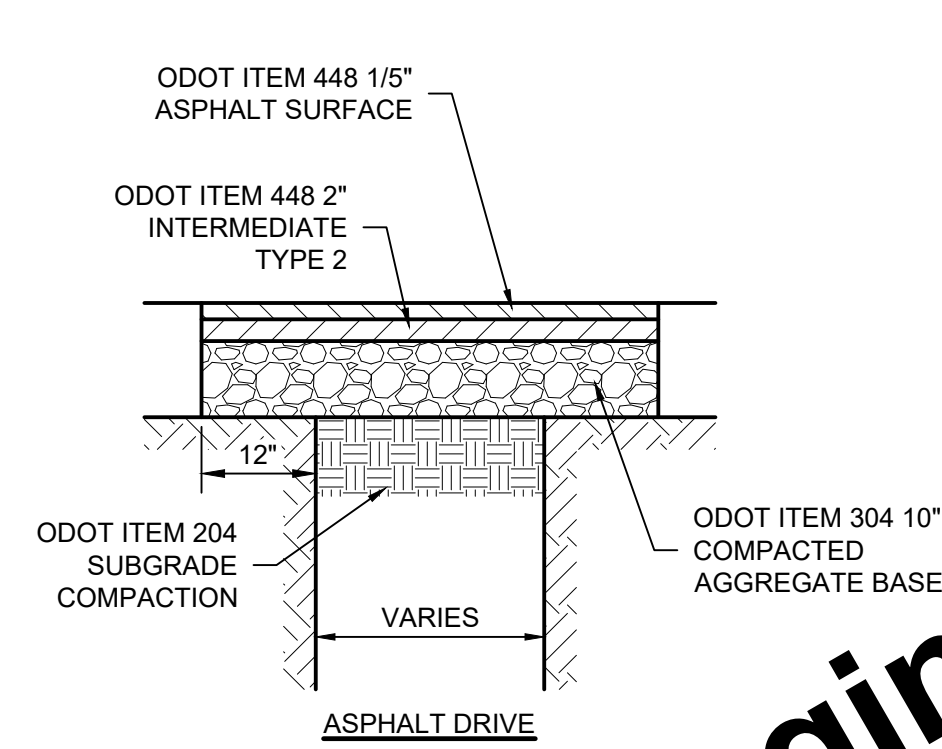
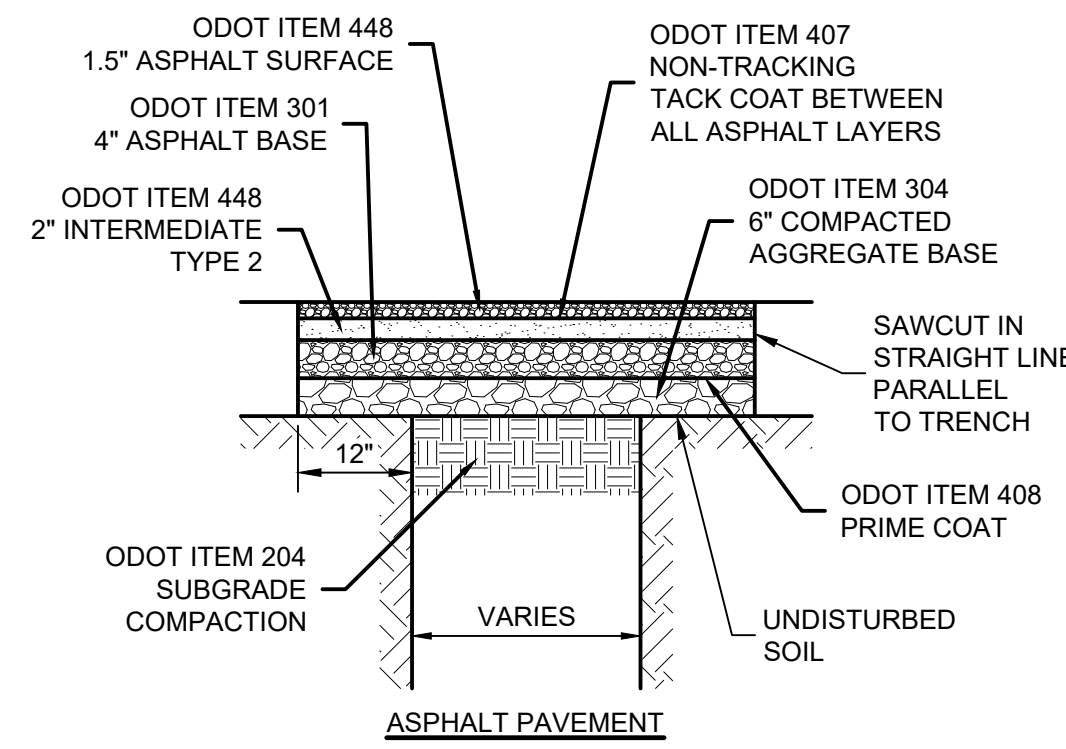
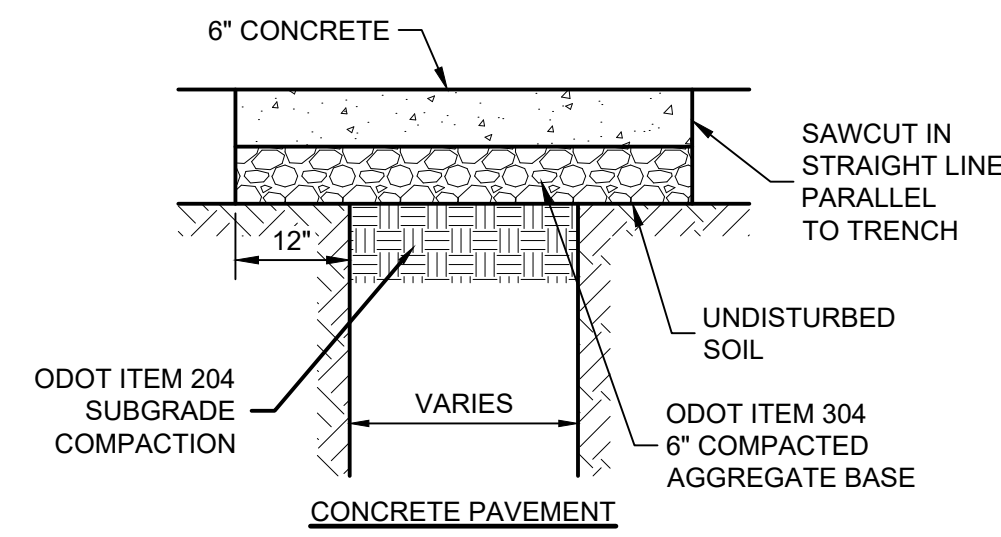
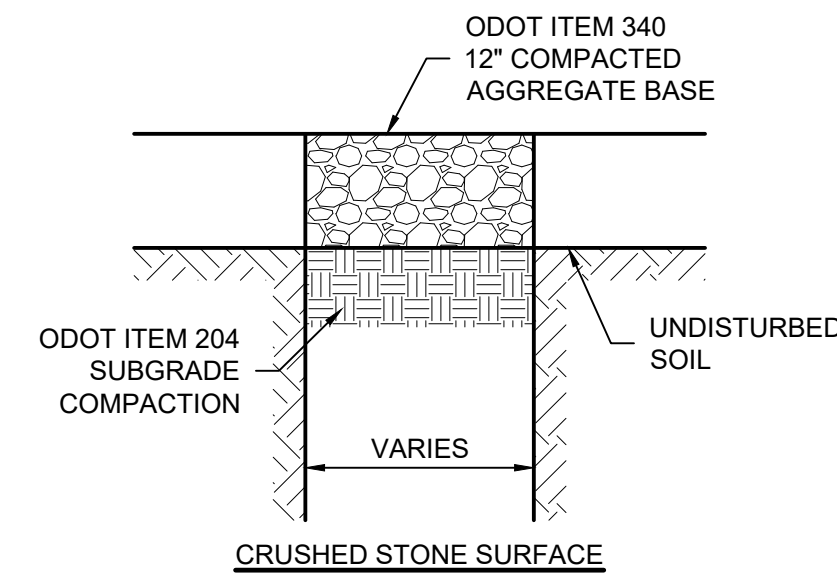
SHEET NO.  
**45**

TOTAL SHEETS  
**50**

APPROVED  
Environmental Protection Agency

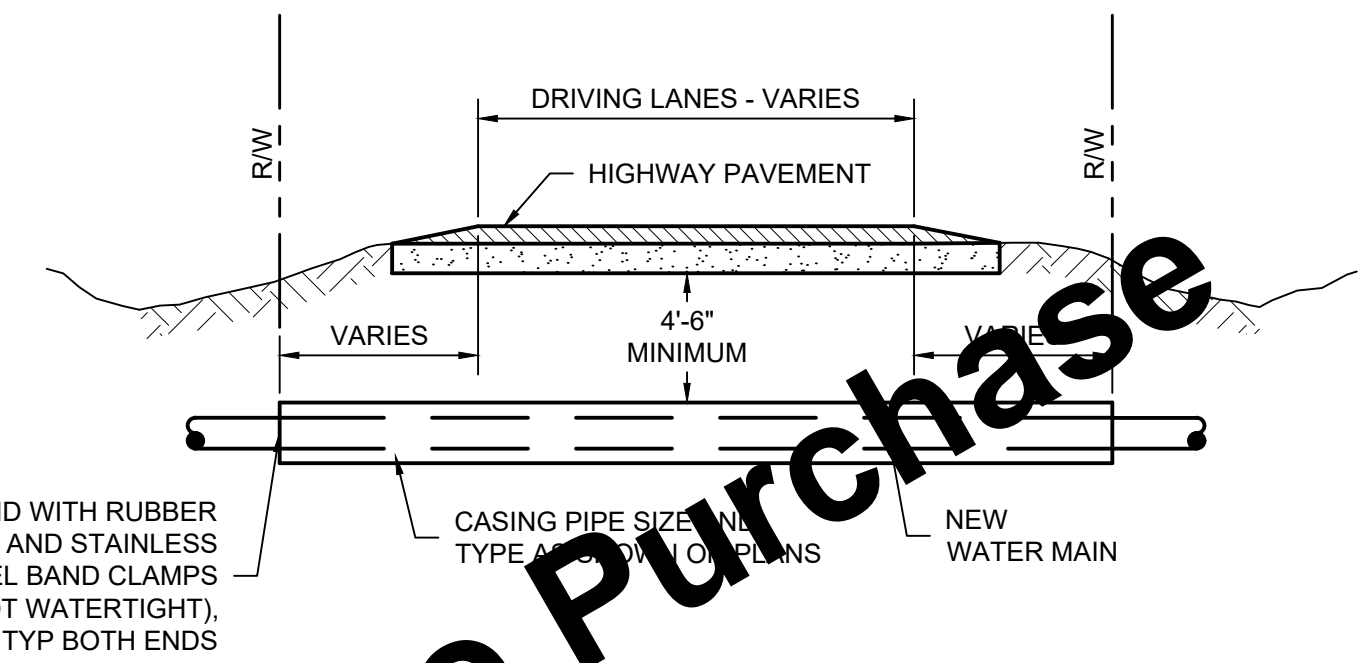


**FLEXIBLE (HDPE, PP, PVC) PIPE TRENCH**  
SCALE: NONE

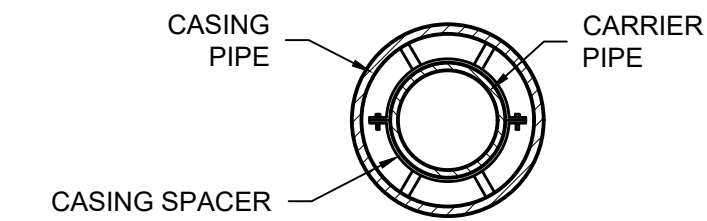


**NOTE:**  
1. TO SPECIFIER: HMA, TYPE B RELATES TO AN EQUIVALENT SINGLE AXLE LOAD (ESAL) OF <3,000,000, AVERAGE ANNUAL DAILY TRAFFIC (AADT) OF <15,000, AND AVERAGE ANNUAL DAILY TRUCK TRAFFIC (AADTT) OF <1,700. IF THE PROJECT EXPERIENCES CONDITIONS OUTSIDE THESE PARAMETERS, A TYPE C OR TYPE D HMA MAY BE REQUIRED.

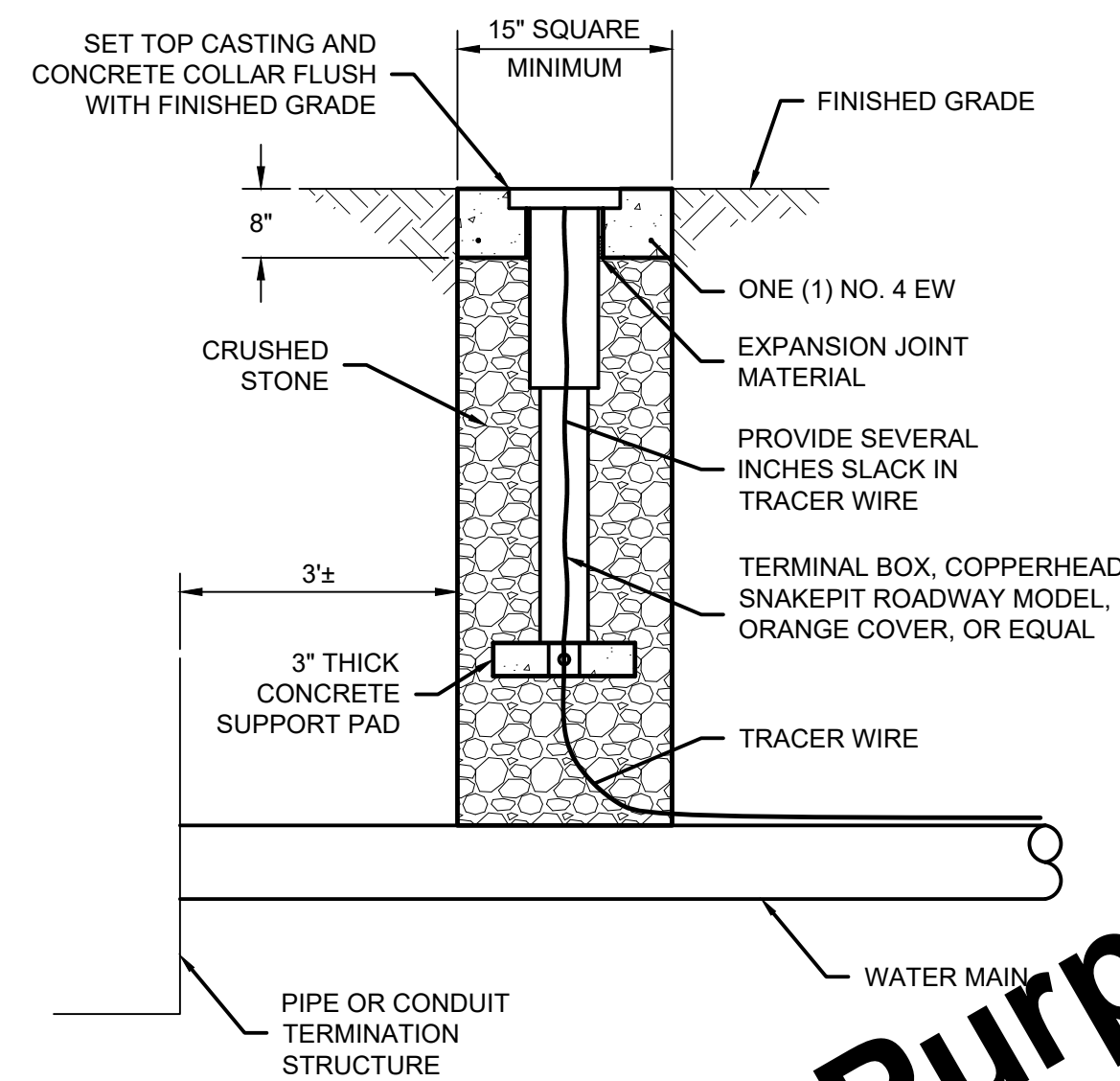
**PAVEMENT REPAIR**  
SCALE: NONE



**CASING PIPE**  
SCALE: NONE



**CASING SPACER**  
SCALE: NONE

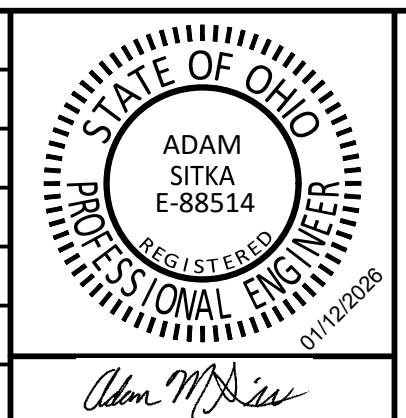


**NOTES:**  
1. CONCRETE COLLAR NOT REQUIRED IF LOCATED IN CONCRETE.

**TRACER WIRE TERMINAL BOX**  
SCALE: NONE

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<b>WATER SYSTEM IMPROVEMENTS</b>
CONTRACT A NEW WATER TRANSMISSION MAIN VILLAGE OF HOLGATE, OHIO
<b>MISCELLANEOUS DETAILS</b>

SHEET NO.	<b>46</b>
TOTAL SHEETS	<b>50</b>

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SEASONAL SOIL PROTECTION CHART

STABILIZATION PRACTICE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
PERMANENT SEEDING												
DORMANT SEEDING												
TEMPORARY SEEDING												
SODDING												
MULCHING												

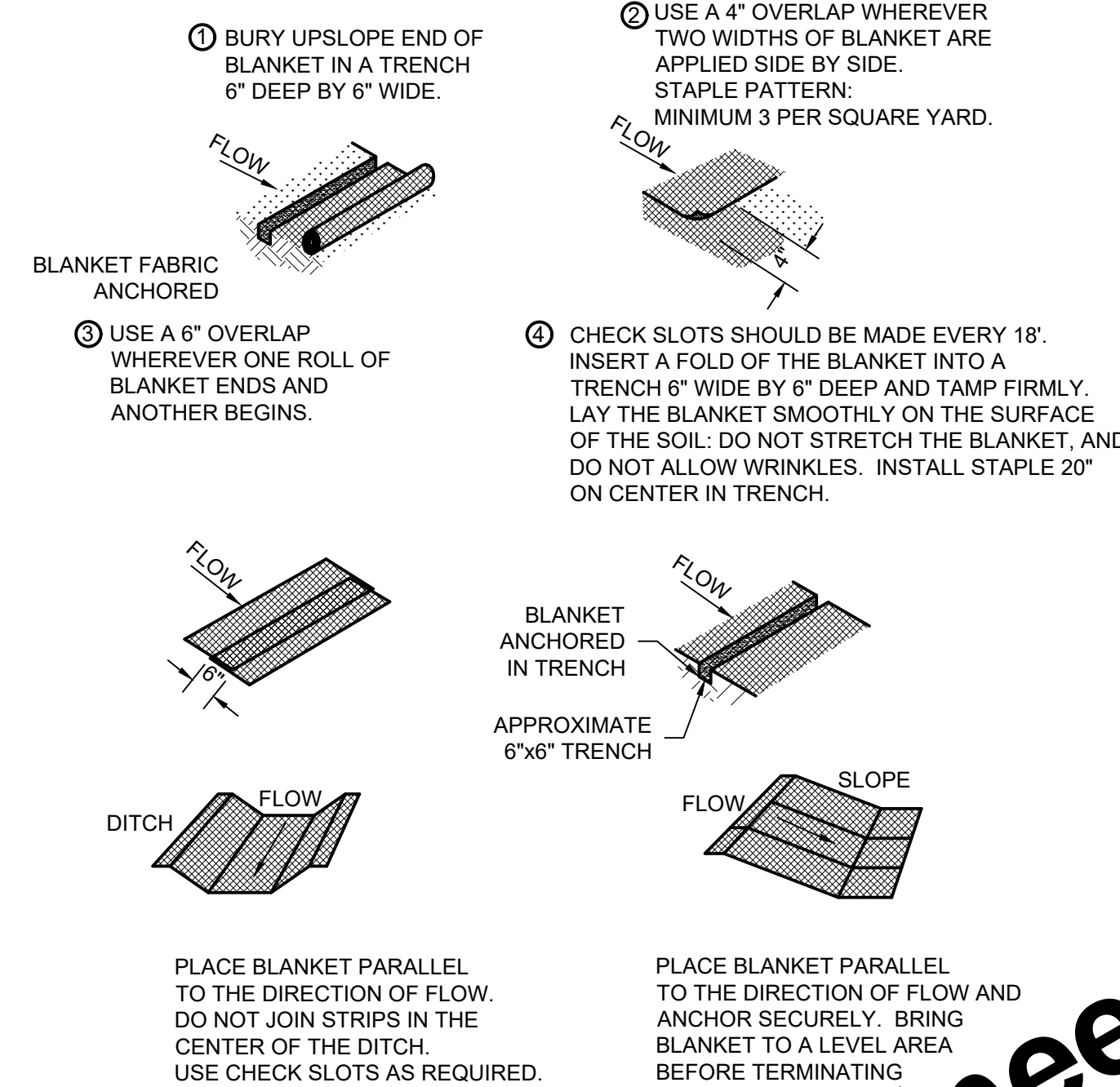
- A. = KENTUCKY BLUEGRASS AND PERENNIAL RYEGRASS 100 LB/ACRE
- B. = KENTUCKY BLUEGRASS AND PERENNIAL RYEGRASS 150 LB/ACRE. PREPARE SEEDBED PRIOR TO NOV 20
- C. = MIX 1 (128 LB/ACRE OATS, 40 LB/ACRE TALL FESCUE, 40 LB/ACRE ANNUAL RYEGRASS), MIX 2 (40 LB/ACRE PERENNIAL RYEGRASS, 40 LB/ACRE TALL FESCUE, 40 LB/ACRE ANNUAL RYEGRASS), MIX 3 (65 LB/ACRE ANNUAL RYEGRASS, 142 LB/ACRE PERENNIAL RYEGRASS, 17 LB/ACRE CREEPING RED FESCUE, 40 LB/ACRE KENTUCKY BLUEGRASS), OR MIX 4 (128 LB/ACRE OATS, 40 LB/ACRE TALL FESCUE, 40 LB/ACRE ANNUAL RYEGRASS)
- D. = MIX 5 (112 LB/ACRE RYE, 40 LB/ACRE TALL FESCUE, 40 LB/ACRE ANNUAL RYEGRASS), MIX 6 (120 LB/ACRE WHEAT, 40 LB/ACRE TALL FESCUE, 40 LB/ACRE ANNUAL RYEGRASS), MIX 7 (40 LB/ACRE PERENNIAL RYE, 40 LB/ACRE TALL FESCUE, 40 LB/ACRE ANNUAL RYEGRASS), OR MIX 8 (40 LB/ACRE ANNUAL RYEGRASS, 40 LB/ACRE PERENNIAL RYEGRASS, 40 LB/ACRE CREEPING RED FESCUE, 40 LB/ACRE KENTUCKY BLUEGRASS)
- E. = SOD
- F. = ANCHORED STRAW/HAY (2 TONS/ACRE) OR WOOD CELLULOSE FIBER (750 LB/ACRE) OR WOOD MULCH/CHIPS (10 TONS/ACRE)

NOTES:

- IRRIGATION NEEDED DURING MAY THROUGH SEPTEMBER.
- IRRIGATION NEEDED FOR 2 TO 4 WEEKS AFTER APPLYING SOD.
- ANCHORED MULCH IS REQUIRED FOR PERMANENT, DORMANT AND TEMPORARY SEEDING.
- OPTIMUM SEEDING DATES PROVIDED. DATES MAY BE EXTENDED OR SHORTENED BASED ON PROJECT LOCATION.
- SEED MIXTURES PROVIDED FOR LAWNS AND HIGH MAINTENANCE AREAS.
- ADDITIONAL REQUIREMENTS AND INFORMATION ARE LOCATED IN THE OHIO DEPT. OF NATURAL RESOURCES RAINWATER AND LAND DEVELOPMENT MANUAL.

MAINTENANCE:

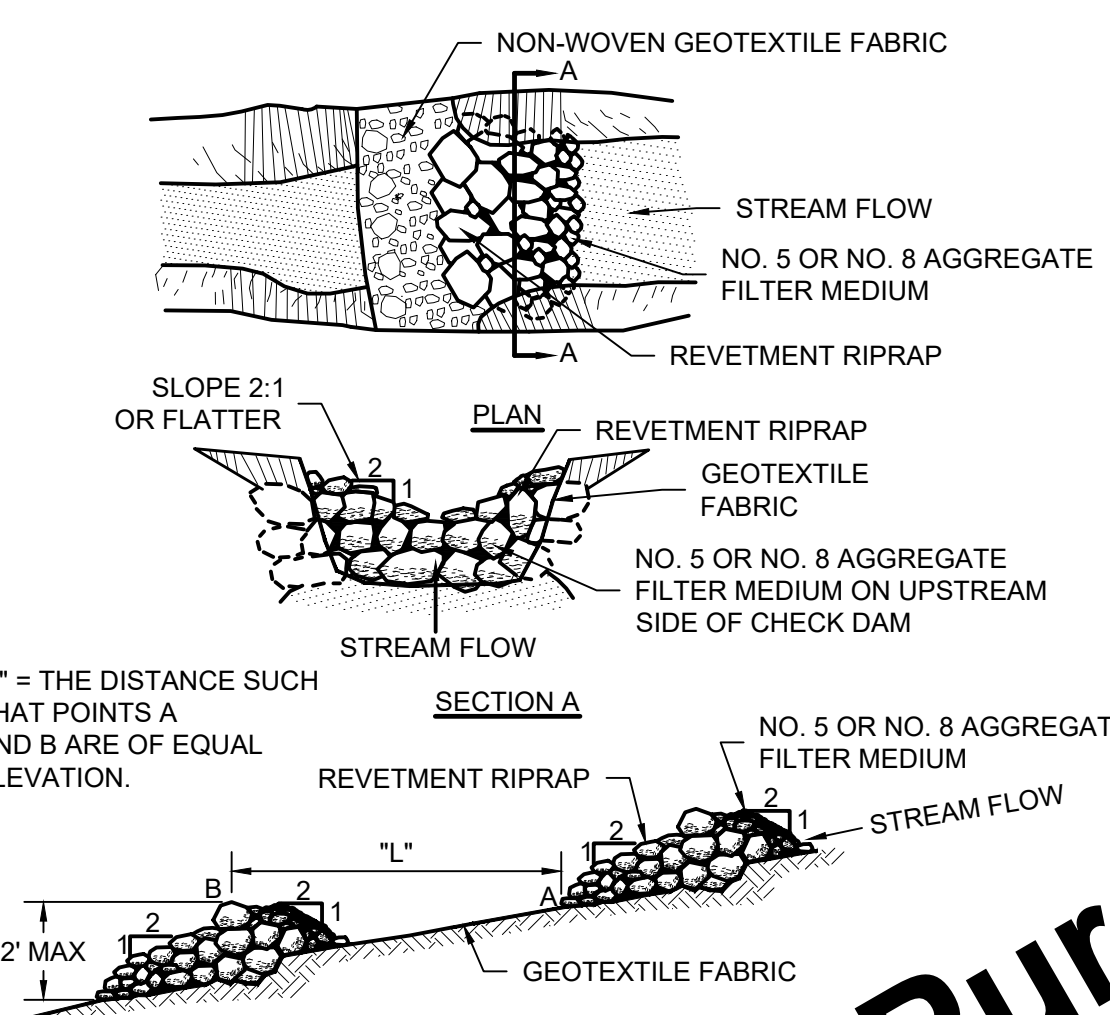
- INSPECT WITHIN 24 HOURS OF EACH 0.5-INCH RAIN EVENT AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.
- CHECK FOR EROSION AND MOVEMENT OF MULCH AND REPAIR IMMEDIATELY.
- MONITOR FOR EROSION DAMAGE AND ADEQUATE COVER (70% DENSITY).
- RESEED, FERTILIZE OR APPLY MULCH WHERE NECESSARY.



- PRODUCT:**  
1. NORTH AMERICAN GREEN SC150, OR EQUAL.
- NOTES:**  
1. PROTECT THE SLOPES WITH AN EROSION CONTROL BLANKET BEFORE CONSTRUCTION DISTURBS SLOPES EQUAL OR STEEPER THAN 3:1.
- MAINTENANCE:**  
1. INSPECT FOR EROSION AFTER EACH TYPICAL RAIN EVENT DURING VEGETATION ESTABLISHMENT, AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.  
2. IF ANY AREAS SHOW EROSION, FILL BARE PORTION OF THE BLANKET, ADD SOIL, RESEED, RELAY AND STAPLE BLANKET.  
3. CHECK AREAS PERIODICALLY FOR VEGETATION ESTABLISHMENT.

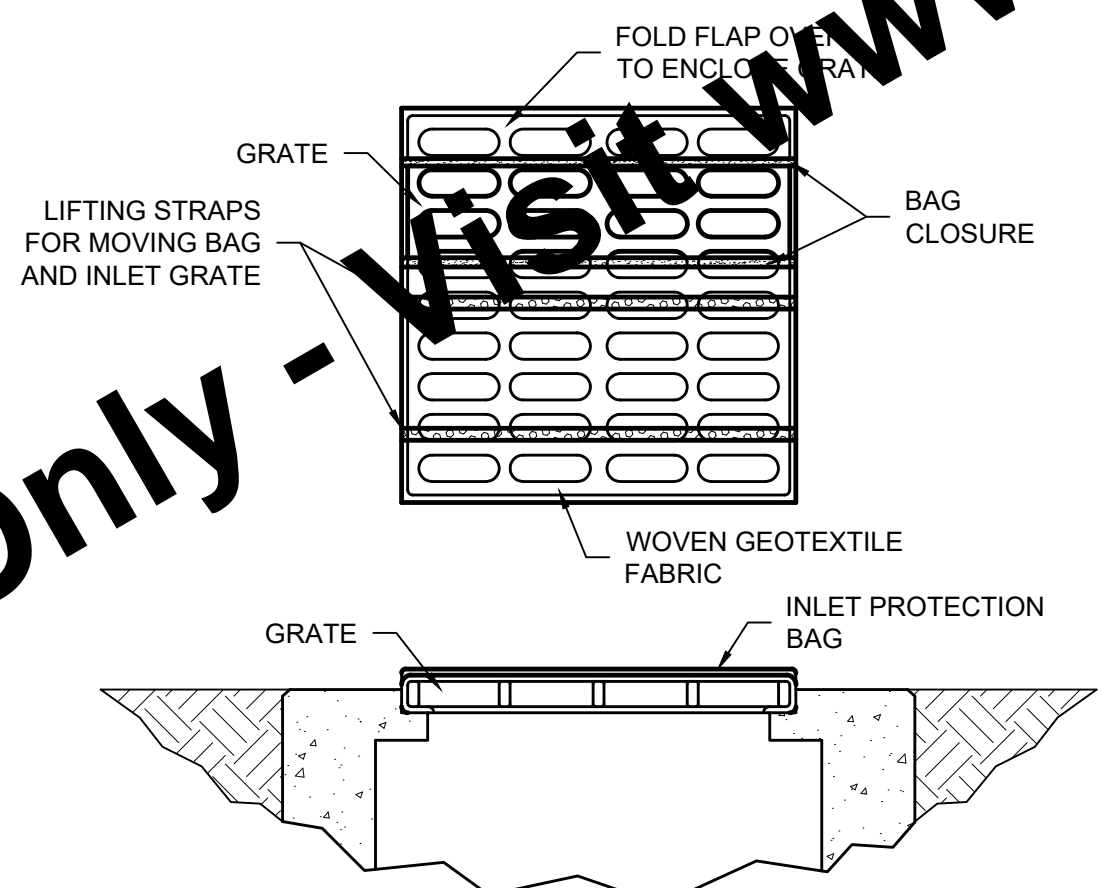
EROSION CONTROL BLANKET  
SCALE: NONE

EROSION CONTROL SCHEDULE	
CONSTRUCTION ACTIVITY	SCHEDULE CONSIDERATION
REVIEW THE EROSION CONTROL SCHEDULE IN THE STORMWATER PREVENTION PLAN (SWPPP) AND REVISE AS NEEDED TO PHASE CONSTRUCTION ACTIVITIES TO MINIMIZE THE FOOTPRINT OF DISTURBED UNSTABLE AREAS. SUBMIT A REVISED EROSION CONTROL SCHEDULE AS NEEDED FOR TEMPORARY AND PERMANENT EROSION CONTROL WORK AS APPLICABLE.	COMPLETE BEFORE CONSTRUCTION BEGINS.
CONSTRUCTION ACCESS - ENTRANCE TO SITE, CONSTRUCTION ROUTES, AREAS DESIGNATED FOR EQUIPMENT PARKING OR MATERIAL STAGING AND WASTE HANDLING.	THIS IS THE FIRST LAND-DISTURBING ACTIVITY. AS SOON AS CONSTRUCTION BEGINS, STABILIZE ANY BARE AREAS WITH AGGREGATE AND TEMPORARY VEGETATION.
SEDIMENT TRAPS AND BARRIERS - BASIN TRAPS, SILT FENCE AND PERIMETER PROTECTION.	AFTER CONSTRUCTION IS COMPLETED, BASINS SHALL BE INSTALLED. IN THE ADDITION OF MORE TRAPS AND BARRIERS AS NEEDED DURING GRADING. SET UP PROTECTION FOR NATURAL FEATURES, TREES AND BUIES. ALL SEDIMENT AND EROSION CONTROLS SHOULD BE INSTALLED AND FUNCTIONAL WITHIN 7 DAYS OF THE START OF GRUBBING ACTIVITY ON-SITE.
RUNOFF CONTROL - DIVERSIONS, PERIMETER PROTECTION, CHECK DAMS, OUTLET PROTECTION.	RUNOFF CONTROL PRACTICES SHALL BE INSTALLED AFTER THE INSTALLATION OF SEDIMENT TRAPS AND BEFORE LAND GRADING. ADDITIONAL RUNOFF CONTROL MEASURES MAY BE INSTALLED DURING GRADING. AREAS WITHIN 50 FEET OF SURFACE WATERS OF THE STATE ARE REQUIRED TO BE STABILIZED WITHIN 2 DAYS.
RUNOFF CONVEYANCE SYSTEM - STABILIZE STREAM BANKS, FORM DRENCHERS, CHANNELS, INLET AND OUTLET PROTECTION, SLOPE DRAINS.	AS NECESSARY, STABILIZE STREAM BANKS AND SIDE SLOPES OF RUNOFF SYSTEMS AS SOON AS POSSIBLE. USE EROSION CONTROL BLANKETS OR SLOPE DRAINS TO PREVENT EROSION. INSTALL INLET PROTECTION TO PREVENT SEDIMENTS FROM ENTERING STORM DRAINAGE SYSTEMS. PROTECT STORM OUTLETS TO PREVENT EROSION.
LAND CLEARING AND GRADING - SITE PREPARATION (CUTTING, FILLING, AND GRADING, SEDIMENT TRAPS, BARRIERS, DIVERSIONS, DRAINS, SURFACE ROUGHENING).	IMPLEMENT CLEARING AND GRADING AFTER INSTALLATION OF SEDIMENT TRAPS AND RUNOFF CONTROL MEASURES, AND INSTALL ADDITIONAL CONTROL MEASURES AS GRADING CONTINUES. CLEAR BORROW AND DISPOSAL AREAS AS NEEDED.
SURFACE STABILIZATION - TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, RIPRAP, EROSION CONTROL BLANKET.	APPLY TEMPORARY OR PERMANENT STABILIZING MEASURES IMMEDIATELY TO ANY DISTURBED AREAS WHERE WORK HAS BEEN EITHER COMPLETED OR DELAYED.
CONSTRUCTION - STRUCTURES, UTILITIES, PAVING, CONCRETE WASHOUT, AND CONSTRUCTION ENTRANCES.	DURING CONSTRUCTION, INSTALL ANY EROSION AND SEDIMENTATION CONTROL MEASURES THAT ARE NEEDED.
LANDSCAPING AND FINAL STABILIZATION - TOPSOILING, TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIPRAP.	THIS IS THE LAST CONSTRUCTION PHASE. STABILIZE ALL DISTURBED AREAS, INCLUDING BORROW AND SPOIL AREAS, AND REMOVE ALL TEMPORARY CONTROL MEASURES. FINAL STABILIZATION IS WHEN A UNIFORM DENSITY OF 70% VEGETATION COVER IS MET. PROVIDE NOTIFICATION TO THE OWNER WHEN THE ENTIRE SITE HAS BEEN STABILIZED AND ALL CONSTRUCTION MATERIALS, WASTES, AND EQUIPMENT HAVE BEEN REMOVED.



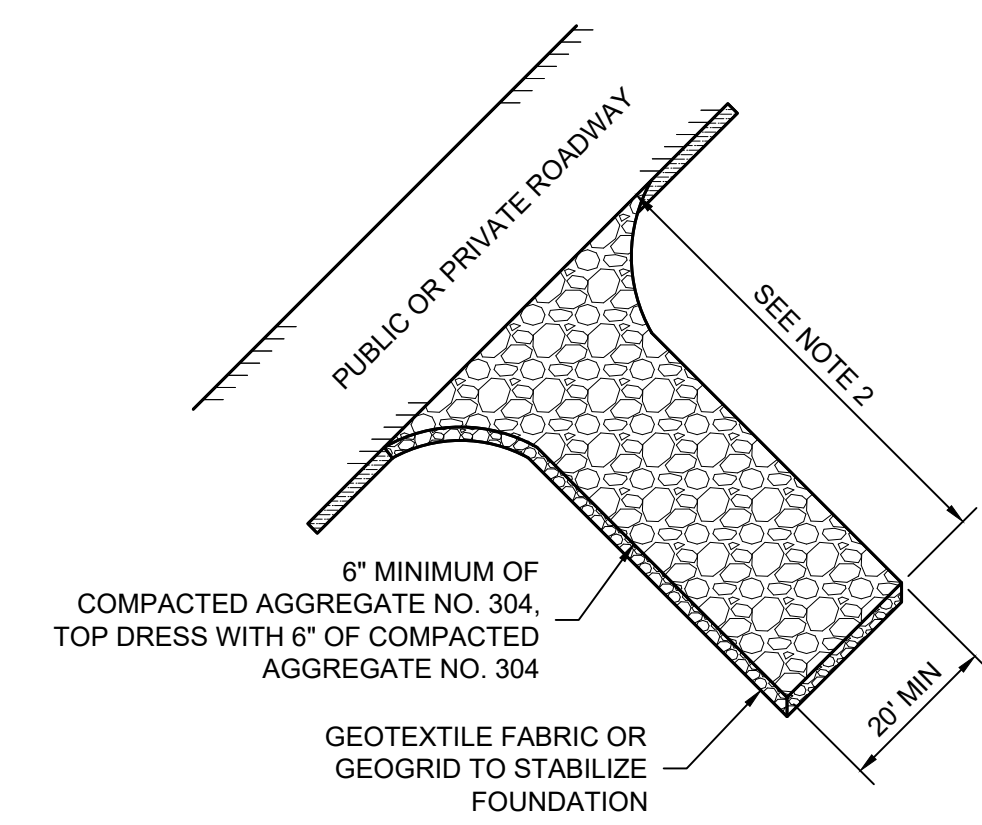
- "L" = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION.
- NOTES:**  
1. SPACE CHECK DAMS AS SHOWN IN SITE EROSION CONTROL PLAN.  
2. INSTALL AN EROSION RESISTANT LINING IN THE CHANNEL BELOW THE LOWER MOST DAM THAT EXTENDS A MINIMUM OF 50 FEET BELOW THE LOWER MOST DAM.
- MAINTENANCE:**  
1. INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.  
2. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/2 THE HEIGHT OF THE DAM.  
3. ADD RIPRAP AND AGGREGATE AS NEEDED.  
4. WHEN DAMS ARE NO LONGER NEEDED, REMOVE RIPRAP AND AGGREGATE, AND STABILIZE THE CHANNEL.

RIPRAP CHECK DAM  
SCALE: NONE



- PRODUCT:**  
1. DANDY BAG, OR APPROVED EQUAL.
- INSTALLATION:**  
1. THE EMPTY INLET PROTECTION BAG SHOULD BE PLACED OVER THE GRADE AS THE GRADE STANDS ON END.  
2. TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRADE.  
3. HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRADE), PLACE THE GRADE INTO ITS FRAME.
- MAINTENANCE:**  
1. REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM SURFACE AND VICINITY OF UNIT AFTER EACH STORM EVENT.  
2. REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE CONTAINMENT AREA OF THE INLET PROTECTION BAG AS NEEDED.  
3. INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND ONCE EVERY 7 CALENDAR DAYS.

INLET PROTECTION BAG  
SCALE: NONE



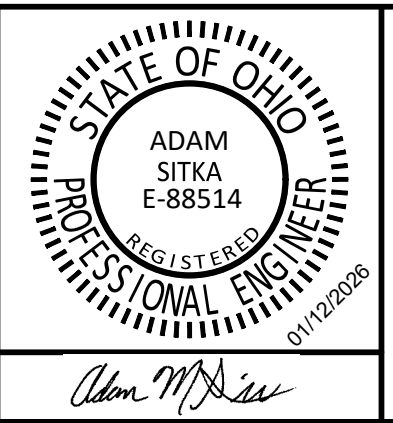
- NOTES:**  
1. PLACE CONSTRUCTION ENTRANCE AS SHOWN ON THE PLANS AND AT ALL TEMPORARY CONSTRUCTION DRIVES THAT ARE INSTALLED.  
2. FOR LARGE SITES (2 ACRES OR LARGER) THE MINIMUM LENGTH IS 150'. FOR SMALLER SITES (LESS THAN 2 ACRES) THE MINIMUM LENGTH IS 70'.  
3. PROVIDE CULVERT OR OTHER METHODS AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE.
- MAINTENANCE:**  
1. INSPECT DAILY AND REPLACE DISPLACED STONE.  
2. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED ONTO ADJACENT ROADWAY.  
3. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.  
4. AT COMPLETION OF PROJECT COMPLETELY REMOVE AND RESTORE SITE TO ORIGINAL CONDITIONS, OR AS APPLICABLE USE FOR BASE OF NEW PERMANENT DRIVE, MAINTAINING DESIGN ELEVATIONS AND SECTION.

CONSTRUCTION ENTRANCE  
SCALE: NONE

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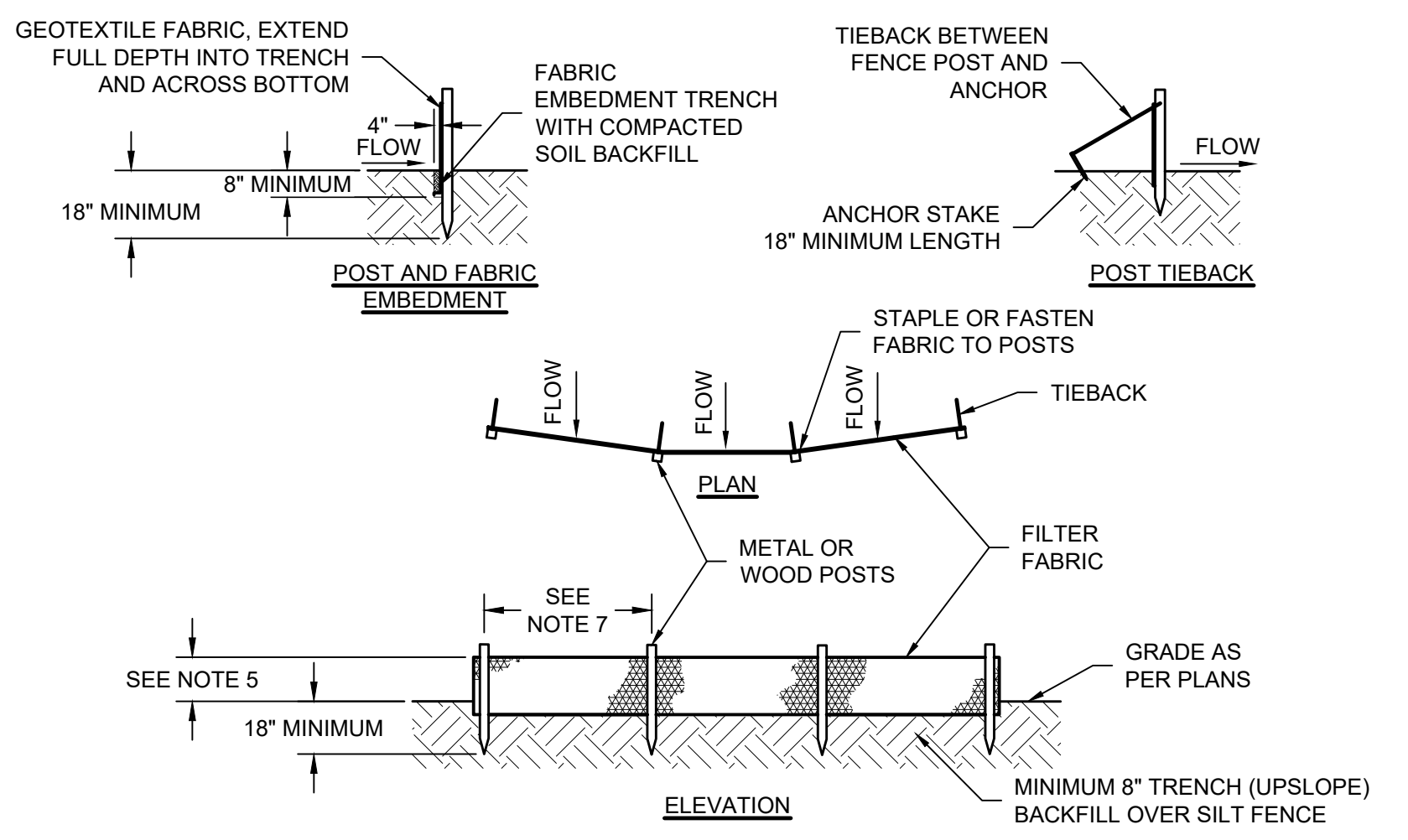
EROSION CONTROL SCHEDULE  
SCALE: NONE

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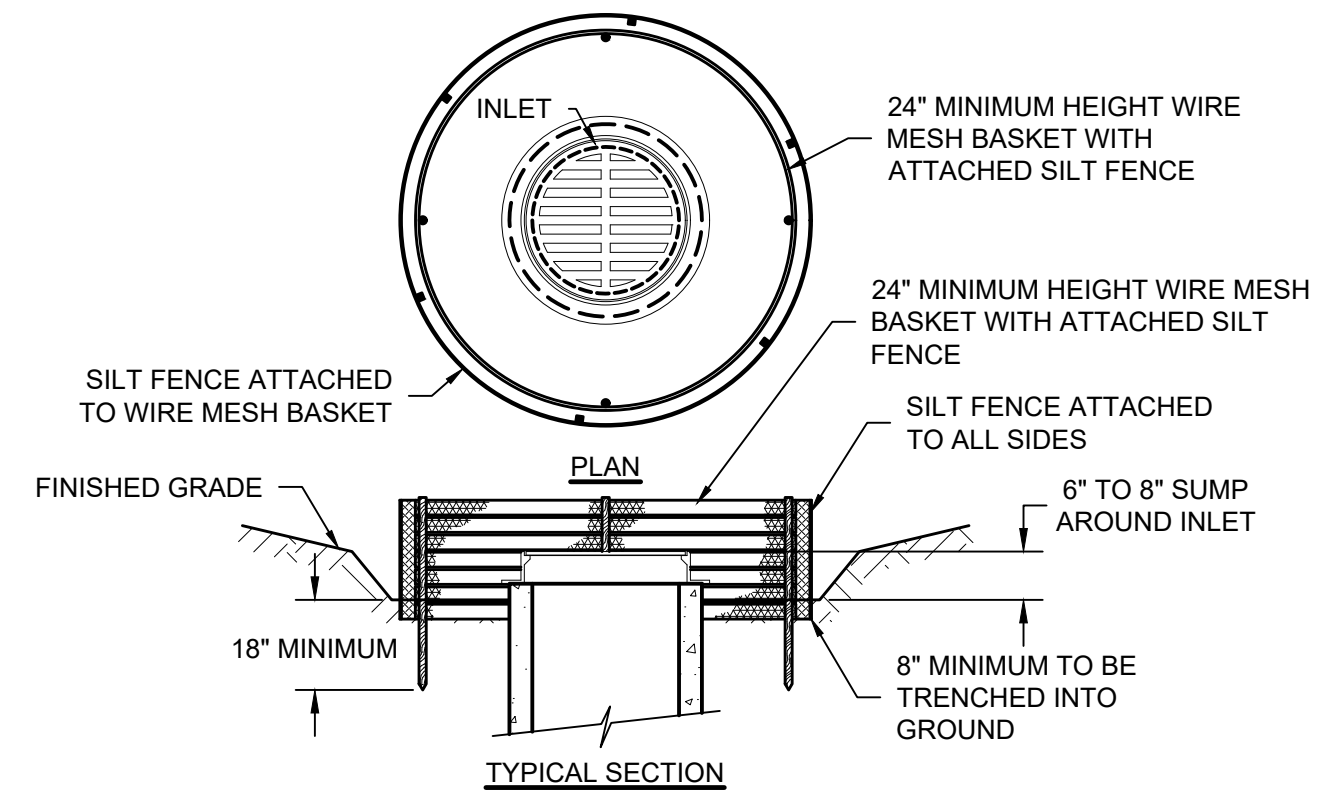
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CONTRACT A NEW WATER TRANSMISSION MAIN VILLAGE OF HOGATE, OHIO	<b>47</b>
<b>EROSION CONTROL DETAILS</b>	TOTAL SHEETS
	<b>50</b>

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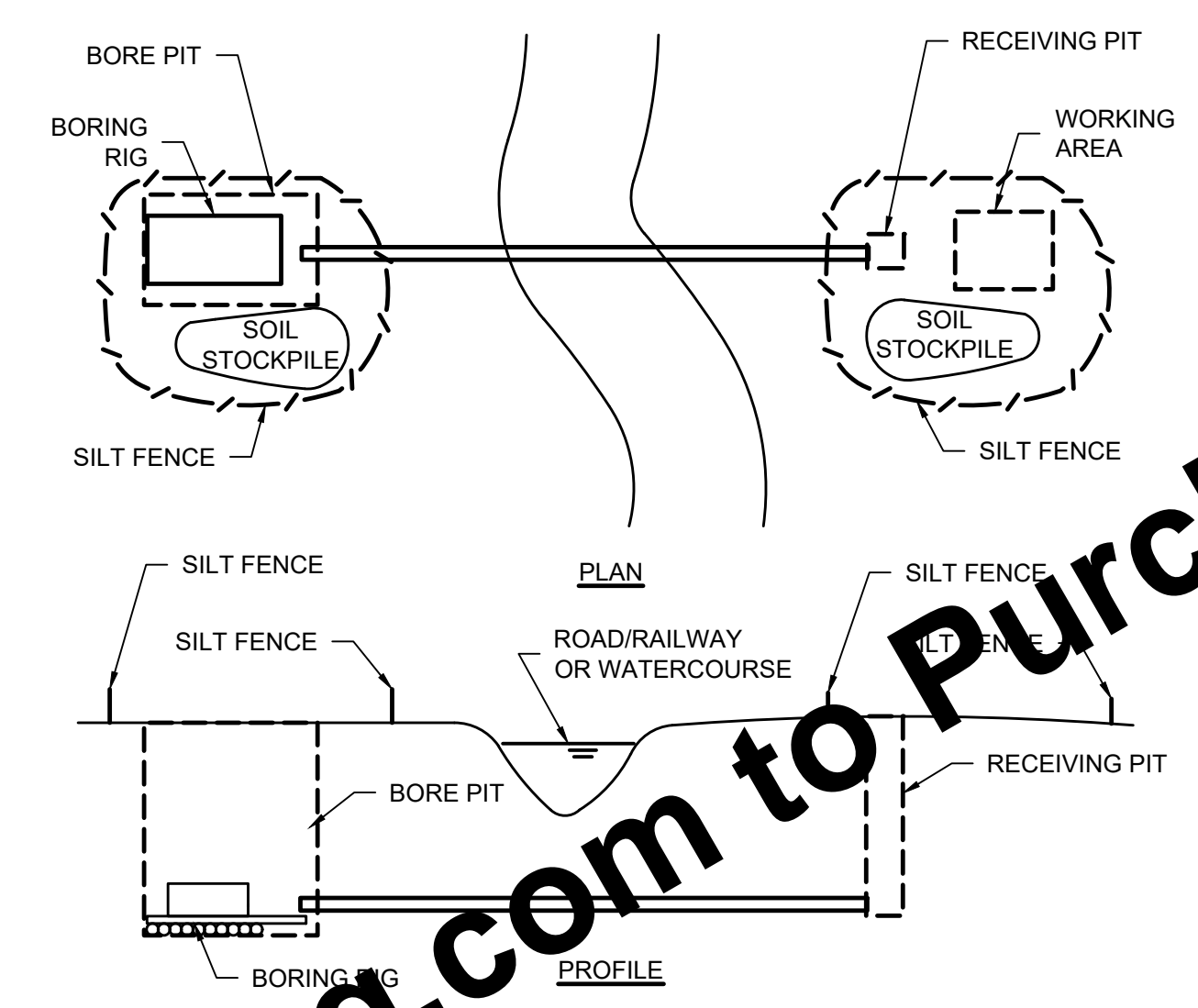
- NOTES:**
1. SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF WOVEN OR NON-WOVEN GEOTEXTILE FABRIC AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS:
    - a. TEXTILE STRENGTH AT 20% (MAXIMUM) ELONGATION, PER ASTM D4632.
    - b. WOVEN EXTRA STRENGTH - 50 LB/LIN INCH (MINIMUM), NON-WOVEN EXTRA STRENGTH - 70 LB/INCH (MINIMUM).
    - c. WOVEN STANDARD STRENGTH - 30 LB/LIN INCH (MINIMUM), NON-WOVEN STANDARD STRENGTH - 50 LB/INCH (MINIMUM).
    - d. APPARENT OPENING SIZE (AOS) (U.S. SIEVE) - NO. 30 PARTICLE SIZE OF 0.6 mm (MAXIMUM), ASTM D4751.
    - e. PERMITTIVITY - 0.05 S<sup>1</sup> (MAXIMUM), ASTM D4491.
  2. POSTS FOR SILT FENCES SHALL BE EITHER 2"x2" SQUARE WOOD OR EQUIVALENT METAL POSTS WITH A MINIMUM LENGTH OF 5'. METAL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.
  3. ANCHOR STAKES FOR SILT FENCES SHALL BE 1"x2" WOOD (PREFERRED) OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 18".
  4. WIRE FENCE REINFORCEMENT FOR SILT FENCES USING STANDARD STRENGTH FILTER CLOTH SHALL BE A MINIMUM OF 42" IN HEIGHT, A MINIMUM OF 14 GAUGE, AND SHALL HAVE A MAXIMUM MESH SPACING OF 6".
  5. THE HEIGHT OF THE BARRIER SHALL BE A MINIMUM OF 18" AND A MAXIMUM OF 30".
  6. THE FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER FABRIC SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6" OVERLAP, AND SECURELY SEALED.
  7. POSTS SHALL BE SPACED A MAXIMUM OF 6' APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 18"). WHEN STANDARD STRENGTH FABRIC IS USED WITH THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6'.
  8. THE SPACING OF TIEBACKS SHALL EQUAL THE SPACING OF THE POSTS. ADDITIONAL POST DEPTH OR TIEBACKS MAY BE REQUIRED IN UNSTABLE SOILS.
  9. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4" WIDE AND A MINIMUM OF 8" DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
  10. WHEN STANDARD STRENGTH FILTER FABRIC IS USED WITH A WIRE MESH SUPPORT FENCE IT SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY 1" WIRE STAPLES, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2" AND SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND SURFACE.
  11. THE STANDARD STRENGTH FILTER FABRIC, WITHOUT A WIRE MESH SUPPORT FENCE, SHALL BE STAPLED OR WIRED TO THE FENCE, AND A MINIMUM 8" OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND SURFACE. DO NOT STAPLE FILTER FABRIC TO EXISTING TREES.
  12. WHEN EXTRA STRENGTH FILTER FABRIC OR BURLAP AND POST SPACING IS LESS THAN THE MAXIMUM SPECIFIED SPACING OF 6', THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED.
  13. BACKFILL THE TRENCH AND COMPACT THE SOIL OVER THE FILTER FABRIC.
  14. REMOVE SILT FENCES WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
  15. SILT FENCE SHALL NOT BE USED AS A DIVERSION AND SHALL NOT BE INSTALLED ACROSS A STREAM, CHANNEL, DITCH, SWALE, ETC.
- MAINTENANCE:**
1. INSPECT AFTER EACH RAINFALL AND DAILY DURING PROLONGED RAINFALL. INSPECT AT LEAST ONCE EVERY 7 CALENDAR DAYS.
  2. REPLACE OR REPAIR FABRIC IMMEDIATELY IF IT DECOMPOSES OR IS INEFFECTIVE.
  3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY HALF THE HEIGHT OF THE BARRIER.
  4. SPREAD ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED AND DRESS TO CONFORM WITH THE FINISHED GRADING.

**SILT FENCE**  
SCALE: NONE



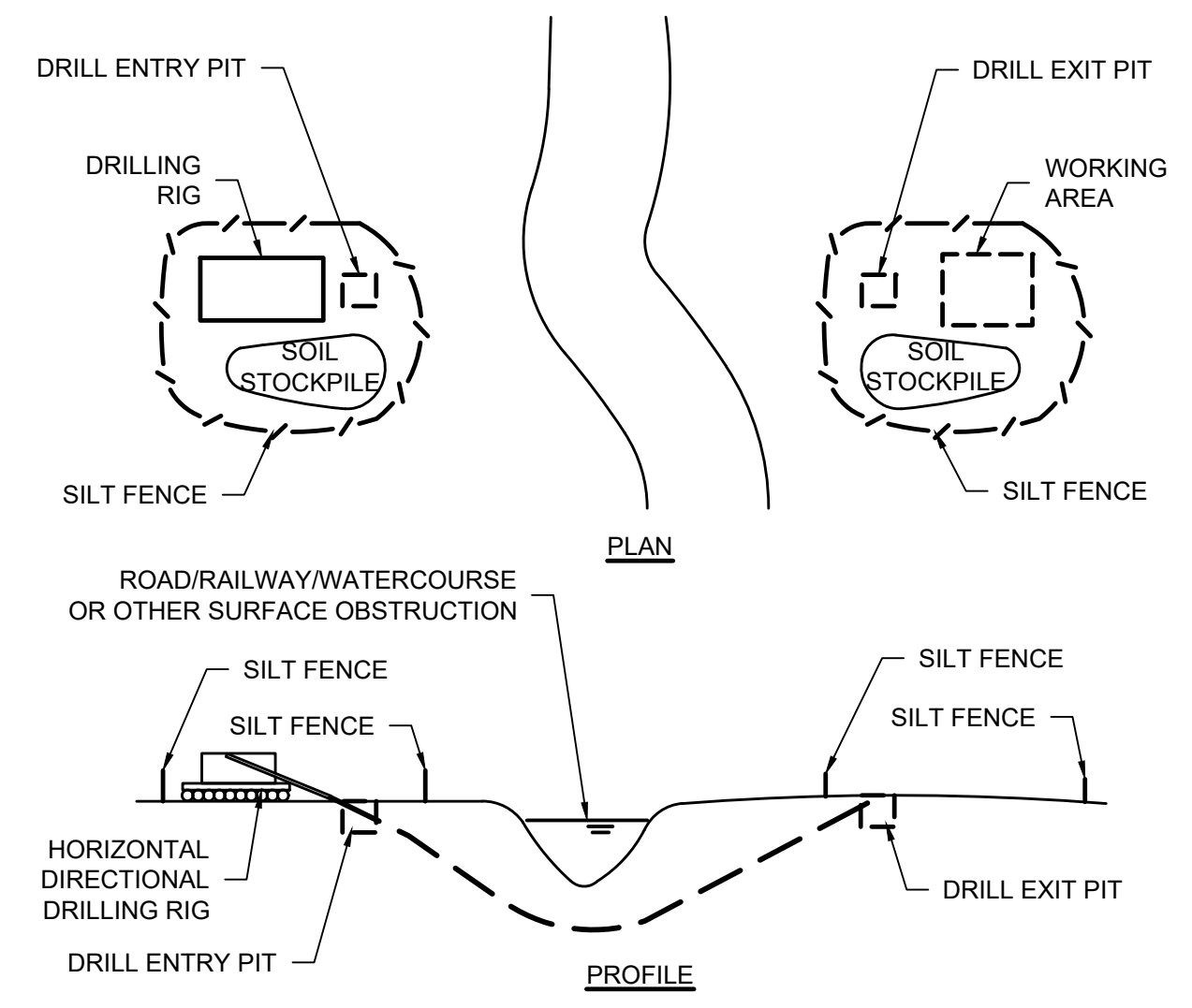
- NOTES:**
1. SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF WOVEN OR NON-WOVEN GEOTEXTILE FABRIC AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS:
    - a. TEXTILE STRENGTH AT 20% (MAXIMUM) ELONGATION, PER ASTM D4632.
    - b. WOVEN EXTRA STRENGTH - 50 LB/LIN IN. (MINIMUM), NON-WOVEN EXTRA STRENGTH - 70 LB/IN. (MINIMUM).
    - c. WOVEN STANDARD STRENGTH - 30 LB/LIN IN. (MINIMUM), NON-WOVEN STANDARD STRENGTH - 50 LB/IN. (MINIMUM).
    - d. APPARENT OPENING SIZE (AOS) (U.S. SIEVE) - NO. 30 PARTICLE SIZE OF 0.6 mm (MAXIMUM), PER ASTM D4751.
    - e. PERMITTIVITY - 0.05 S<sup>1</sup> (MAXIMUM), PER ASTM D4491.
  2. WHEN STANDARD STRENGTH FILTER FABRIC IS USED WITH A WIRE MESH SUPPORT FENCE FASTEN THE FABRIC SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY 1" WIRE STAPLES, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2" AND SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND SURFACE.
- MAINTENANCE:**
1. INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND DAILY DURING PROLONGED RAINFALL. INSPECT AT LEAST ONCE EVERY 7 CALENDAR DAYS.
  2. REPLACE THE FABRIC PROMPTLY IF THE FABRIC DECOMPOSES OR BECOMES INEFFECTIVE. IMMEDIATELY MAKE ANY REQUIRED REPAIRS.
  3. REMOVE SEDIMENT DEPOSITS FROM THE POOL AREA AFTER EACH STORM EVENT AND WHEN IT REACHES HALF THE HEIGHT OF THE BARRIER.
  4. SPREAD ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED AND DRESS TO CONFORM WITH THE FINISHED GRADING.

**SILT FENCE INLET SEDIMENT BARRIER**  
SCALE: NONE



- NOTES:**
1. INSTALL SILT FENCE PRIOR TO ANY EXCAVATION.
  2. FILTER WATER FROM BORE PIT DEWATERING, AND DO NOT DIRECTLY DISCHARGE TO ANY DITCH, STREAM, WETLAND OR STORM WATER CONVEYANCE. REFER TO PUMPING BAG DETAIL.
  3. PLACE SOIL STOCKPILES WITHIN THE SILT FENCE BOUNDARY.
  4. SOIL FROM STOCKPILES SHALL BE USED FOR BACKFILL OR DISPOSED OF PROPERLY.
  5. RESEED AND MULCH ALL DISTURBED SOIL SURFACES.
  6. PROVIDE ENVIRONMENTAL PROTECTION AS NECESSARY TO CONTAIN ANY DRILLING FLUID SPILLS.
- MAINTENANCE:**
1. INSPECT SILT FENCE BARRIERS AFTER EACH RAINFALL. REPAIR OR REPLACE IMMEDIATELY.
  2. REMOVE SEDIMENT DEPOSITS FROM THE SILT FENCE AFTER STORM EVENTS.

**HORIZONTAL BORED CROSSING**  
SCALE: NONE

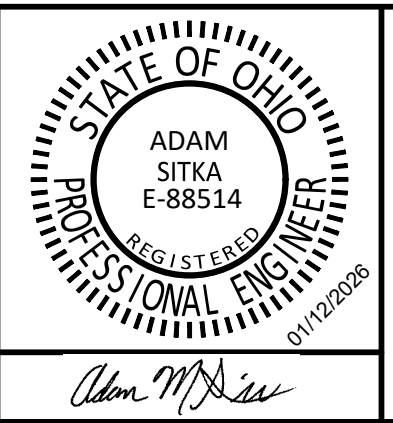


- NOTES:**
1. INSTALL SILT FENCE PRIOR TO ANY EXCAVATION.
  2. FILTER WATER FROM BORE PIT DEWATERING, AND DO NOT DIRECTLY DISCHARGE TO ANY DITCH, STREAM, WETLAND OR STORM WATER CONVEYANCE. REFER TO PUMPING BAG DETAIL.
  3. PLACE SOIL STOCKPILES WITHIN THE SILT FENCE BOUNDARY.
  4. SOIL FROM STOCKPILES SHALL BE USED FOR BACKFILL OR DISPOSED OF PROPERLY.
  5. RESEED AND MULCH ALL DISTURBED SOIL SURFACES.
  6. ENVIRONMENTAL PROTECTION TO BE PROVIDED AS NECESSARY TO CONTAIN ANY DRILLING FLUID SPILLS.
- MAINTENANCE:**
1. INSPECT SILT FENCE BARRIERS AFTER EACH RAINFALL, AND REPAIR OR REPLACE IMMEDIATELY.
  2. REMOVE SEDIMENT DEPOSITS FROM THE SILT FENCE AFTER STORM EVENTS.

**HORIZONTAL DIRECTIONAL DRILLING**  
SCALE: NONE

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	APPROVED BY	AMS				
	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				



**WATER SYSTEM IMPROVEMENTS**  
 CONTRACT A NEW WATER TRANSMISSION MAIN  
 VILLAGE OF HOGGATE, OHIO

**EROSION CONTROL DETAILS**

SHEET NO.  
**48**

TOTAL SHEETS  
**50**

APPROVED Environmental Protection Agency  
 02/20/2026

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ADDITIONAL ENVIRONMENTAL NOTES

1. FOR SAFETY MEASURES, REFER TO THE FOLLOWING SECTION(S) OF THE SPECIFICATIONS

SECTION 02050 3.02:

- A. "PROTECTION
- 1. ACCESS: PROVIDE SAFE ACCESS TO, AND EGRESS FROM, ALL WORKING AREAS AT ALL TIMES DURING THE DEMOLITION. PROVIDE ADEQUATE PROTECTION OF ACCESS AND EGRESS AREAS FROM FALLING MATERIALS.
- 2. GENERAL SAFETY: PROVIDE WARNING SIGNS, PROTECTIVE BARRIERS, AND WARNING LIGHTS ADJACENT TO THE WORK TO PROTECT CONSTRUCTION PERSONNEL AND THE PUBLIC. MAINTAIN THESE ITEMS DURING THE DEMOLITION PERIOD.
- 3. EXISTING SERVICES: DO NOT BEGIN THE DEMOLITION WORK UNTIL ALL MECHANICAL AND ELECTRICAL SERVICES AFFECTED BY THE WORK HAVE BEEN PROPERLY DISCONNECTED. REROUTE OR RECONNECT INTERCONNECTING PIPING AND ELECTRICAL SERVICES THAT ARE TO REMAIN IN SERVICE EITHER PERMANENTLY OR TEMPORARILY IN A MANNER THAT WILL NOT INTERFERE WITH THE OPERATION OF THE REMAINING FACILITIES.
- 4. HAZARDS: PERFORM TESTING AND AIR PURGING WHERE THE PRESENCE OF HAZARDOUS CHEMICALS, GASES, FLAMMABLE MATERIALS, OR OTHER DANGEROUS SUBSTANCES ARE APPARENT OR SUSPECTED AND ELIMINATE THE HAZARD BEFORE DEMOLITION IS STARTED.
- 5. PROVIDE ADEQUATE SCAFFOLDING, SHORING, BRACING, RAILINGS, TOE BOARDS AND PROTECTIVE COVERINGS DURING DEMOLITION TO PROTECT PERSONNEL AND EQUIPMENT AGAINST INJURY OR DAMAGE.
- 6. COVER FLOOR OPENINGS NOT USED FOR MATERIAL DROPS WITH MATERIAL SUBSTANTIAL ENOUGH TO SUPPORT LOADS PLACED ON THEM. PROPERLY SECURE THE COVERS TO PREVENT ACCIDENTAL MOVEMENT.
- 7. ALWAYS PROVIDE ADEQUATE LIGHTING DURING DEMOLITION.
- 8. CLOSE OFF AREAS BELOW DEMOLITION WORK WHILE THE DEMOLITION WORK IS BEING PERFORMED.
- 9. CAREFULLY PROTECT ALL MECHANICAL AND ELECTRICAL EQUIPMENT FROM THE DEPOSIT AND ACCUMULATION OF DUST AND DEBRIS."

2. FOR SAFETY AND PROTECTION, REFER TO THE FOLLOWING SECTION(S) OF THE SPECIFICATIONS

SECTION 00510 7.12

- A. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. SUCH RESPONSIBILITY DOES NOT RELIEVE SUBCONTRACTORS OF THEIR RESPONSIBILITY FOR THE SAFETY OF PERSONS OR PROPERTY IN THE PERFORMANCE OF THEIR WORK, NOR FOR COMPLIANCE WITH APPLICABLE SAFETY LAWS AND REGULATIONS. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE THE NECESSARY PROTECTION TO PREVENT DAMAGE, INJURY, OR LOSS TO:
  - 1. ALL PERSONS ON THE SITE OR WHO MAY BE AFFECTED BY THE WORK;
  - 2. ALL THE WORK AND MATERIALS AND EQUIPMENT TO BE INCORPORATED THEREIN, WHETHER IN
  - 3. STORAGE ON OR OFF THE SITE; AND
  - 4. OTHER PROPERTY AT THE SITE OR ADJACENT THERETO, INCLUDING TREES, SHRUBS, LAWNS, WALKS, PAVEMENTS, ROADWAYS, STRUCTURES, OTHER WORK IN PROGRESS, UTILITIES, AND UNDERGROUND FACILITIES NOT DESIGNATED FOR REMOVAL, RELOCATION, OR REPLACEMENT IN THE COURSE OF CONSTRUCTION.
- B. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS RELATING TO THE SAFETY OF PERSONS OR PROPERTY, OR TO THE PROTECTION OF PERSONS OR PROPERTY FROM DAMAGE, INJURY, OR LOSS; AND SHALL ERECT AND MAINTAIN ALL NECESSARY SAFEGUARDS FOR SUCH SAFETY AND PROTECTION. CONTRACTOR SHALL NOTIFY OWNER, THE OWNERS OF ADJACENT PROPERTY, UNDERGROUND FACILITIES, AND OTHER UTILITIES; AND OTHER CONTRACTORS AND UTILITY OWNERS PERFORMING WORK AT OR ADJACENT TO THE SITE, WHEN PROSECUTION OF THE WORK MAY AFFECT THEM, AND SHALL COOPERATE WITH THEM IN THE PROTECTION, REMOVAL, RELOCATION, AND REPLACEMENT OF THEIR PROPERTY OR WORK IN PROGRESS.
- C. CONTRACTOR SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF OWNER'S SAFETY PROGRAMS, IF ANY. THE SUPPLEMENTARY CONDITIONS IDENTIFY ANY OWNER'S SAFETY PROGRAMS THAT ARE APPLICABLE TO THE WORK.
- D. CONTRACTOR SHALL INFORM OWNER AND ENGINEER OF THE SPECIFIC REQUIREMENTS OF CONTRACTOR'S SAFETY PROGRAM WITH WHICH OWNER'S AND ENGINEER'S EMPLOYEES AND REPRESENTATIVES MUST COMPLY WHILE AT THE SITE.
- E. ALL DAMAGE, INJURY, OR LOSS TO ANY PROPERTY REFERRED TO IN PARAGRAPH 7.12.A.2 OR 7.12.A.3 CAUSED, DIRECTLY OR INDIRECTLY, IN WHOLE OR IN PART, BY CONTRACTOR, ANY SUBCONTRACTOR, SUPPLIER, OR ANY OTHER INDIVIDUAL OR ENTITY DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM TO PERFORM ANY OF THE WORK, OR ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, SHALL BE REMEDIED BY CONTRACTOR AT ITS EXPENSE (EXCEPT DAMAGE OR LOSS ATTRIBUTABLE TO THE FAULT OF DRAWINGS OR SPECIFICATIONS OR TO THE ACTS OR OMISSIONS OF OWNER OR ENGINEER OR ANYONE EMPLOYED BY ANY OF THEM, OR ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, AND NOT ATTRIBUTABLE, DIRECTLY OR INDIRECTLY, IN WHOLE OR IN PART, TO THE FAULT OR NEGLIGENCE OF CONTRACTOR OR ANY SUBCONTRACTOR, SUPPLIER, OR OTHER INDIVIDUAL OR ENTITY DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM).
- F. CONTRACTOR'S DUTIES AND RESPONSIBILITIES FOR SAFETY AND PROTECTION SHALL CONTINUE UNTIL SUCH TIME AS ALL THE WORK IS COMPLETED AND ENGINEER HAS ISSUED A NOTICE TO OWNER AND CONTRACTOR IN ACCORDANCE WITH PARAGRAPH 15.06.B THAT THE WORK IS ACCEPTABLE (EXCEPT AS OTHERWISE EXPRESSLY PROVIDED IN CONNECTION WITH SUBSTANTIAL COMPLETION).
- G. CONTRACTOR'S DUTIES AND RESPONSIBILITIES FOR SAFETY AND PROTECTION SHALL RESUME WHENEVER CONTRACTOR OR ANY SUBCONTRACTOR OR SUPPLIER RETURNS TO THE SITE TO FULFILL WARRANTY OR CORRECTION OBLIGATIONS, OR TO CONDUCT OTHER TASKS ARISING FROM THE CONTRACT DOCUMENTS."

3. FOR TRAFFIC CONTROL, REFER TO THE FOLLOWING SECTION(S) OF THE SPECIFICATIONS

SECTION 01500 3.04 (A-C):

"3.04 MAINTENANCE OF TRAFFIC

GENERAL

COMPLY WITH THE REQUIREMENTS OF THE STATE, CITY OR COUNTY HIGHWAY DEPARTMENT DEPARTMENTS FOR ALL TRAFFIC MAINTENANCE.

MAINTAIN ALL CONSTRUCTION SIGNS, LIGHTS, CHANNELIZING DEVICES, AND OTHER TRAFFIC CONTROL EQUIPMENT IN PROPER WORKING ORDER.

DURING CONSTRUCTION, MAINTAIN AND PROTECT THE PEDESTRIAN AND VEHICULAR TRAFFIC AT ALL TIMES ON ALL STREETS INVOLVED AND PROVIDE ACCESS TO ALL BUSINESS AND COMMERCIAL ESTABLISHMENTS ADJACENT TO THE CONSTRUCTION AREA.

NOTIFICATION REQUIREMENTS

BEFORE CLOSING ANY THOROUGHFARE, AND, IF NECESSARY, OBTAIN A PERMIT OR PERMITS FROM THE DULY CONSTITUTED PUBLIC AUTHORITY HAVING JURISDICTION (STATE, COUNTY, OR CITY).

NOTIFY THE ENGINEER OF INTENDED ROAD OR DRIVE CLOSURES 72 HOURS IN ADVANCE OF THE PROPOSED CLOSING. PLACE ALL PROPER DETOUR SIGNS AND BARRICADES PRIOR TO THE ACTUAL STREET CLOSING.

NOTIFY EACH RESIDENT OR PROPERTY OWNER OF WORK WHICH WILL IMPACT ACCESS TO HIS PROPERTY A MINIMUM OF 2 BUSINESS DAYS IN ADVANCE OF RESTRICTING ACCESS TO THE PROPERTY.

TRAFFIC RESTRICTION REQUIREMENTS

DO NOT UNDULY OR UNNECESSARILY RESTRICT OR IMPEDE NORMAL TRAFFIC THROUGH THE STREETS OF THE

COMMUNITY. KEEP THE TRAVELED WAY OF ALL STREETS, ROADS, AND ALLEYS CLEAR AND UNOBSTRUCTED. DO NOT USE STREETS, ROADS, OR ALLEYS FOR THE STORAGE OF CONSTRUCTION MATERIALS, EQUIPMENT SUPPLIES, OR EXCAVATED EARTH, EXCEPT WHEN AND WHERE NECESSARY.

ADJACENT STREET SEGMENTS SHALL NOT BE CLOSED AT THE SAME TIME TO REDUCE DELAYS FOR EMERGENCY RESPONDERS. FOR THIS REQUIREMENT, AN "ADJACENT STREET SEGMENT" SHALL INCLUDE THE NEXT BLOCK OF THE SAME STREET IN EITHER DIRECTION, THE SAME BLOCK OF A PARALLEL STREET IN EITHER DIRECTION, AND THE NEAREST BLOCKS OF PERPENDICULAR (CONNECTING) STREETS IN ALL DIRECTIONS.

THE PUBLIC STREETS ( ) SHALL REMAIN OPEN AND UNRESTRICTED BY CONSTRUCTION ACTIVITIES AT ALL TIMES.

DAILY LANE CLOSURES ON THE PUBLIC STREETS MAY BE PERMITTED. LANE CLOSURES ARE ONLY PERMISSIBLE BETWEEN 7:00 AM AND 5:00 PM, WEEKDAYS. UNLESS OTHERWISE PROVIDED, MAINTAIN AT LEAST ONE 12 FOOT WIDE LANE OF TRAFFIC AT ALL STREETS AND SERVICE DRIVES DURING CONSTRUCTION OF THE PROJECT. PROVIDE FLAGMEN OR TEMPORARY SIGNALS WHERE REQUIRED TO MAINTAIN FLOW OF TRAFFIC. DURING NON-CONSTRUCTION HOURS, OPEN ALL LANES FOR PUBLIC USE.

PARTIAL ROAD CLOSURES OVERNIGHT ON (ALL EXCEPT) THE FOLLOWING STREETS MAY BE ALLOWED WITH PRIOR WRITTEN APPROVAL BY THE VILLAGE: (HOLGATE), PROVIDED THAT THE MAXIMUM LENGTH OF CLOSURE IS LESS 400 FEET, NO DRIVEWAYS ARE BLOCKED, AND NO MORE THAN ONE OVERNIGHT PARTIAL ROAD CLOSURE WILL OCCUR SIMULTANEOUSLY. WHEN RE-OPENING THESE ROADS, MOVE THE TRAFFIC CHANNELIZING DEVICES TO THE EDGE OF THE TRAVEL LANES, AND COVER EVERY FLAGGER AND ONE LANE ROAD SIGN WITH AN OPAQUE MATERIAL, TURN SIGNS TO FACE AWAY FROM THE ROADWAY, OR REMOVE.

THE CONTRACTOR MAY LIMIT OR PROHIBIT PUBLIC PARKING WITHIN THE LIMITS OF THE PROJECT.

IF REQUIRED BY DULY CONSTITUTED PUBLIC AUTHORITY, CONSTRUCT BRIDGES OR OTHER TEMPORARY CROSSING STRUCTURES OVER TRENCHES AT NO ADDITIONAL COST TO OWNER. SUCH STRUCTURES SHALL BE OF ADEQUATE STRENGTH AND PROPER CONSTRUCTION AND SHALL BE MAINTAINED IN SUCH MANNER AS NOT TO CONSTITUTE AN UNDUE TRAFFIC HAZARD."

SECTION 01500 3.05-3.06:

"3.05 BARRICADES, WARNING LIGHTS AND ARROW BOARDS

PROVIDE, ERECT, AND MAINTAIN ALL NECESSARY BARRICADES, SUITABLE AND SUFFICIENT DANGER SIGNALS, AND SIGNS. TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION AND SAFETY OF THE PUBLIC, WORKMEN, STRUCTURES, AND EQUIPMENT. ROADS CLOSED TO TRAFFIC SHALL BE PROTECTED BY EFFECTIVE BARRICADES. OBSTRUCTIONS SHALL BE ILLUMINATED DURING HOURS OF DARKNESS.

ERECT WARNING SIGNS IN ADVANCE OF ANY LOCATION ON THE PROJECT WHERE OPERATIONS MAY INTERFERE WITH THE USE OF THE ROAD BY TRAFFIC AND AT ALL INTERMEDIATE POINTS WHERE THE NEW WORK CROSSES OR COINCIDES WITH AN EXISTING ROAD.

PLACE SUFFICIENT WARNING LIGHTS AND ARROW BOARDS ON OR NEAR THE WORK AND KEEP THEM ILLUMINATED DURING PERIODS OF CONSTRUCTION AND REDUCED VISIBILITY (FROM TWILIGHT IN THE EVENING UNTIL SUNRISE). THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES THAT OWNER OR ANY OTHER PARTY MAY SUSTAIN IN CONSEQUENCES OF NEGLECTING THE NECESSARY PRECAUTIONS IN PROSECUTING THIS WORK.

3.06 REMOVAL AND CLEAN UP

REMOVE ALL TEMPORARY FACILITIES, UTILITIES, SERVICES AND MATERIALS UPON COMPLETION OF CONSTRUCTION. REMOVE DEBRIS AND CLEAN AREA. REPAIR ALL DAMAGE AND RESTORE AREA TO FINISH CONDITION.

4. FOR AIR/DUST CONTROL, REFER TO THE FOLLOWING SECTION(S) OF THE SPECIFICATIONS

SECTION 02101 3.05 (D):

"DUST CONTROL

- 1. USE WATER TO DAMPEN SURFACES TO MINIMIZE DUST AND PREVENT WIND UPRISE.
- 2. DO NOT RINSE SURFACES WITH WATER UNLESS WATER IS COLLECTED AND DISPOSED OF PROPERLY.
- 3. IMPLEMENT DUST CONTROL METHODS ON A ROUTINE BASIS UNDER ALL WEATHER CONDITIONS WARRANT.
- 4. PROVIDE WATER AND DUST SUPPRESSION WHEN REQUESTED BY THE ENGINEER."

5. FOR AIR/DUST CONTROL, REFER TO NOTE BELOW

AIR POLLUTION IS GENERATED FROM CONSTRUCTION VEHICLES, EQUIPMENT AND NATURALLY OCCURRING SOURCES SUCH AS WINDBLOWN DUST. SHORT-TERM AIR QUALITY IMPACTS FOR THE PROPOSED PROJECT MAY GENERATE DUST AND NOISE DURING CONSTRUCTION. THE PROJECT AREAS ARE LOCATED ADJACENT TO AGRICULTURAL, RESIDENTIAL, INDUSTRIAL, AND UNDEVELOPED AREAS. MITIGATION MEASURES INCLUDE LIMITING CONSTRUCTION ACTIVITY TO DAYLIGHT HOURS, WIND BARRIERS TO MINIMIZE NOISE EFFECTS. CONSTRUCTION SPECIFICATIONS WILL REQUIRE PROPER MEASURES BE TAKEN TO CONTROL WIND EROSION FROM ALL CONSTRUCTION AREAS. PROPER CLEANUP PRACTICES WILL BE REQUIRED TO REDUCE THE GENERATION OF DUST AND OTHER CONSTRUCTION DEBRIS. WHEN IMPACTS CANNOT BE AVOIDED, APPROPRIATE MEASURES SHALL BE UTILIZED. LONG-TERM AIR QUALITY IMPACTS ARE NOT EXPECTED FOR THIS PROJECT.

6. FOR NOISE CONTROL, REFER TO THE FOLLOWING SECTION(S) OF THE SPECIFICATIONS

SECTION 00510 7.02

LABOR: WORKING HOURS

- A. CONTRACTOR SHALL PROVIDE COMPETENT, SUITABLY QUALIFIED PERSONNEL TO SURVEY AND LAY OUT THE WORK AND PERFORM CONSTRUCTION AS REQUIRED BY THE CONTRACT DOCUMENTS. CONTRACTOR SHALL AT ALL TIMES MAINTAIN GOOD DISCIPLINE AND ORDER AT THE SITE.
- B. EXCEPT AS OTHERWISE REQUIRED FOR THE SAFETY OR PROTECTION OF PERSONS OR THE WORK OR PROPERTY AT THE SITE OR ADJACENT THERETO, AND EXCEPT AS OTHERWISE STATED IN THE CONTRACT DOCUMENTS, ALL WORK AT THE SITE SHALL BE PERFORMED DURING REGULAR WORKING HOURS, MONDAY THROUGH FRIDAY. CONTRACTOR WILL NOT PERFORM WORK ON A SATURDAY, SUNDAY, OR ANY LEGAL HOLIDAY. CONTRACTOR MAY PERFORM WORK OUTSIDE REGULAR WORKING HOURS OR ON SATURDAYS, SUNDAYS, OR LEGAL HOLIDAYS ONLY WITH OWNER'S WRITTEN CONSENT, WHICH WILL NOT BE UNREASONABLY WITHHELD."

7. FOR TREES/VEGETATION PROTECTION, REFER TO THE FOLLOWING SECTION(S) OF THE SPECIFICATIONS

SECTION 02101 3.12:

"SCHEDULES

- A. COORDINATE EROSION AND SEDIMENT CONTROL MEASURES WITH CONSTRUCTION ACTIVITIES SO CONTROLS ARE IN PLACE BEFORE CONSTRUCTION BEGINS.
- 1. INSTALL THE TEMPORARY CONSTRUCTION ENTRANCE AND SEDIMENT TRAPS OR FILTERS BEFORE CLEARING AND GRADING BEGINS.
- 2. INSTALL TEMPORARY PERIMETER CONTROLS (E.G., SILT FENCES AND INLET PROTECTION) BEFORE CLEARING AND GRADING BEGINS.
- 3. DO NOT CLEAR, GRUB OR GRADE UNTIL IT IS NECESSARY FOR CONSTRUCTION TO PROCEED. MAINTAIN NATURAL

VEGETATION AND VEGETATED BUFFERS WHEN PRACTICAL TO REDUCE THE NEED FOR CONTROL DEVICES. MAINTAIN ALL CONTROLS AS DESCRIBED THROUGHOUT THE CONSTRUCTION PROJECT AND UNTIL UPSTREAM DRAINAGE AREAS ARE STABILIZED.

4. PERMANENTLY STABILIZE BARE SOILS ONCE CONSTRUCTION ACTIVITIES CEASE IN AN AREA."

SECTION 02101 3.08 (A):

"MINIMIZE TREE REMOVAL AND BRUSH CLEARING WITHIN FLOODPLAINS AND NEAR WATERWAYS. WHEN POSSIBLE, MAINTAIN A STREAM SETBACK WIDTH OF AT LEAST 25 FEET FROM THE TOP BANK OF ALL WATERWAYS ALL AVOIDED WATERWAYS AND STREAM SETBACK AREAS SHALL BE DEMARCATED IN THE FIELD AND PROTECTED WITH SUITABLE MATERIALS (E.G., SILT FENCING, SNOW FENCING, SIGNAGE, ETC.) PRIOR TO SITE DISTURBANCE. RETAIN THESE MATERIALS IN PLACE, MAINTAIN THROUGHOUT THE CONSTRUCTION PROCESS, AND REMOVE ENTIRELY ONCE CONSTRUCTION IS COMPLETED."

SECTION 02101 3.08 (D):

"AVOID DISTURBING THE GROUND WITHIN THE DRIP LINE OF ANY TREE. WHEN POSSIBLE, UTILIZE A PHYSICAL BARRIER TO PROTECT THIS ZONE FROM CONSTRUCTION ACTIVITIES."

8. FOR DEWATERING ACTIVITY, REFER TO THE FOLLOWING SECTION(S) OF THE SPECIFICATIONS

SECTION 02101 3.05 (E):

"PUMPING BAGS

- 1. INSTALL PUMPING BAGS ACCORDING TO THE DRAWINGS.
- 2. PROVIDE PUMPING BAGS TO FILTER SEDIMENT FROM DEWATERING OPERATIONS.
- 3. PROPERLY DISPOSE OF USED PUMPING BAGS.
- 4. APPROPRIATELY SIZE THE BAGS FOR THE AMOUNT OF FLOW.
- 5. USE PUMPING BAGS ON AN EROSION RESISTANT SURFACE.
- 6. DO NOT DISCHARGE SEDIMENT-LADEN WATER FROM DEWATERING OPERATIONS INTO OR NEAR STORMWATER DRAINAGE DEVICES, WETLANDS, RIVERS, STREAMS, AND IMPOUNDMENTS OR INTO NATURAL OR MANMADE CHANNELS INCLUDING THERETO. REFER ALSO TO SECTION 02102 FOR THE DISPOSAL OF SEDIMENT-LADEN WATER."

9. FOR STREAM CROSSINGS, REFER TO THE FOLLOWING SECTION(S) OF THE SPECIFICATIONS

SECTION 02101 3.08

"WORK WITHIN A WATERWAY (STREAM CROSSING) OR FLOODWAY

- A. MINIMIZE TREE REMOVAL AND BRUSH CLEARING WITHIN FLOODPLAINS AND NEAR WATERWAYS. WHEN POSSIBLE, MAINTAIN A STREAM SETBACK WIDTH OF AT LEAST 25 FEET FROM THE TOP BANK OF ALL WATERWAYS ALL AVOIDED WATERWAYS AND STREAM SETBACK AREAS SHALL BE DEMARCATED IN THE FIELD AND PROTECTED WITH SUITABLE MATERIALS (E.G., SILT FENCING, SNOW FENCING, SIGNAGE, ETC.) PRIOR TO SITE DISTURBANCE. RETAIN THESE MATERIALS IN PLACE, MAINTAIN THROUGHOUT THE CONSTRUCTION PROCESS, AND REMOVE ENTIRELY ONCE CONSTRUCTION IS COMPLETED.
- B. DO NOT PLACE HEAVY EQUIPMENT BELOW THE ORDINARY HIGH WATER MARK OF ANY WATERWAY, EXCEPT WHEN NO OTHER ALTERNATIVE IS PRACTICABLE.
- C. PROVIDE SUITABLE NON-ERODIBLE MATERIAL FOR TEMPORARY FILL FOR PURPOSES OF ACCESS OR STAGING AND MAINTAINED TO MINIMIZE EROSION.
- D. AVOID DISTURBING THE GROUND WITHIN THE DRIP LINE OF ANY TREE. WHEN POSSIBLE, UTILIZE A PHYSICAL BARRIER TO PROTECT THIS ZONE FROM CONSTRUCTION ACTIVITIES.
- E. INSTALL EROSION AND SEDIMENT CONTROL PRACTICES DURING AND AFTER CONSTRUCTION TO MINIMIZE IMPACTS TO A WATERWAY OR FLOODPLAIN.
- F. STABILIZE BARE AREAS IMMEDIATELY FOLLOWING CONSTRUCTION ACTIVITIES.
- G. RECLAIM ALL DISTURBED AREAS WITHIN AND ADJACENT TO WATERWAYS THAT ARE TO BE REVEGETATED, WITH NATIVE SPECIES.
- H. INSTALL EROSION CONTROL BLANKET TO COVER BARE AREAS AND SEEDBEDS AND TO PREVENT EROSION UNTIL VEGETATED SPECIES ARE ESTABLISHED.
- I. STOCKPILING OF SOIL, EXCAVATED MATERIALS, OR STONE IS NOT PERMITTED WITHIN OR NEAR A DITCH, OR WATERWAY.
- J. WHEN INSTALLING PIPE BY OPEN CUTTING A TRENCH ACROSS A WATERWAY, IF THE WORK CANNOT BE COMPLETED DURING DRY CONDITIONS, BYPASS PUMP STREAM FLOWS USING THE DAM AND PUMP METHOD AS SHOWN ON THE DRAWINGS.
- K. UTILIZE EXISTING ROADS TO MOVE EQUIPMENT AND MATERIALS FROM ONE SIDE OF THE WATERWAY TO THE OTHER."

10. FOR STREAM CROSSINGS, REFER TO NOTE BELOW:

THERE ARE NO SURFACE WATERS WITHIN THE WTP DEMOLITION/MAINTENANCE BUILDING PROJECT AREA. SCHOOL CREEK AND BRINKMAN DITCH ARE LOCATED WITHIN THE REGIONALIZED SOURCE PROJECT AREA. THE OEPA AND USACE REGULATE CONSTRUCTION ACTIVITIES IN SURFACE WATERS. THE PROJECT PROPOSES TO AVOID IMPACTS TO THESE WATERWAYS BY INSTALLING THE WATER MAIN VIA DIRECTIONAL DRILLING.

11. FOR ARCHAEOLOGICAL/HISTORICAL RESOURCES, REFER TO NOTE BELOW:

ANY EXCAVATION BY THE CONTRACTOR THAT UNCOVERS A HISTORICAL OR ARCHAEOLOGICAL ARTIFACT SHALL BE IMMEDIATELY REPORTED TO THE OWNER, AND THE UNITED STATES DEPARTMENT OF AGRICULTURE (USDA) STATE ENVIRONMENTAL COORDINATOR. CONSTRUCTION SHALL BE TEMPORARILY HALTED PENDING THE NOTIFICATION PROCESS AND FURTHER DIRECTIONS ISSUED BY THE AGENCY.

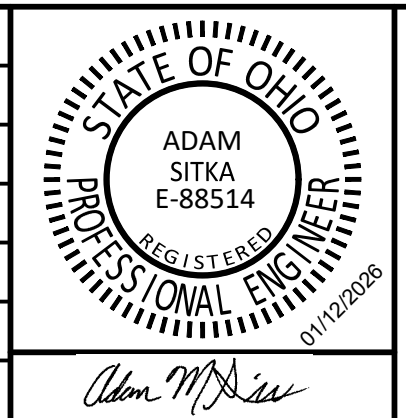
12. FOR GROUNDWATER/DRINKING WATER PROTECTIONS, REFER TO THE FOLLOWING SECTION(S) OF THE SPECIFICATIONS

SECTION 02101 3.09

"WORKING NEAR WATER WELLS

- WATER WELL AQUIFERS ARE TO BE PROTECTED FROM CONSTRUCTION ACTIVITIES AND POTENTIAL POLLUTION SOURCES.
- A. IDENTIFY WATER WELLS FEATURES ON THE DRAWINGS.
- B. IMPLEMENT EROSION AND SEDIMENT CONTROL PRACTICES TO REDUCE SEDIMENTATION INTRODUCTION INTO GROUNDWATER.
- C. POSITION CONSTRUCTION MATERIALS AND EQUIPMENT SO THAT THE AREA SLOPES AWAY FROM WELLS.
- D. PROVIDE SECONDARY CONTAINMENT FOR ALL CHEMICALS, FUELS, OR OTHER LIQUIDS TO CAPTURE SPILLS OR LEAKS.
- E. CLEAN UP SPILLS WITH ABSORBENTS OR DRY METHODS. DO NOT ALLOW SPILLS TO SOAK INTO THE GROUND AND DO NOT WASH OFF WITH WATER OR DETERGENTS.
- F. PROPERLY DISPOSE OF WASTE MATERIALS."

SCALE VERIFICATION	DRAWN BY	TWL	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	ACH				
	APPROVED BY	AMS				
	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				



**WATER SYSTEM IMPROVEMENTS**  
 CONTRACT A NEW WATER TRANSMISSION MAIN  
 VILLAGE OF HOLGATE, OHIO

**EROSION CONTROL DETAILS**

SHEET NO.	<b>49</b>
TOTAL SHEETS	<b>50</b>

Drawing: X:\hgd\gale\_04\703222\_Holgate WTP\Contract A - Water Main\DWG\Sheet\703222-EC.dwg | Layout: 03 | Plotter: 012226 @ 1042x17 | LastSavedBy: tmsd

ADDITIONAL ENVIRONMENTAL NOTES

1. FOR SAFETY MEASURES, REFER TO THE FOLLOWING SECTION(S) OF THE SPECIFICATIONS SECTION 02220 3.03

\*3.03 CONTAMINATED SOILS AND GROUNDWATER

- A. IF SUSPECTED CONTAMINATED SOILS OR GROUNDWATER ARE DISCOVERED DURING EXCAVATION, INFORM THE ENGINEER IMMEDIATELY AND CEASE EXCAVATION.
- B. CONTACT THE CORRESPONDING REGULATORY AGENCY BASED ON THE EXCAVATION LOCATION.
- 1. IF THE EXCAVATION IS WITHIN THE ODOT RIGHT-OF-WAY, CONTACT ODOT OFFICE OF ENVIRONMENTAL SERVICES (614-728-7368) AND REPORT THE SUSPECTED CONTAMINATION TO THE OHIO ENVIRONMENTAL PROTECTION AGENCY'S (EPA) 24-HOUR SPILL HOTLINE (800-282-9378). FOLLOW ODOT SITE ASSESSMENT GUIDELINES FOR PROPER INVESTIGATION AND HANDLING OF THE SUSPECTED CONTAMINATED SOILS OR GROUNDWATER.
- 2. IF THE EXCAVATION IS OUTSIDE OF THE ODOT RIGHT-OF-WAY, THE OWNER WILL REPORT THE SUSPECTED CONTAMINATION TO OHIO EPA 24-HOUR SPILL HOTLINE. OHIO EPA MAY DIRECT THE OWNER TO ADDITIONAL REGULATORY AGENCIES DEPENDING ON THE NATURE OF THE SUSPECTED CONTAMINATION.
- C. KEEP SUSPECTED CONTAMINATED SOILS SEPARATE FROM SOILS THAT APPEAR TO BE "CLEAN" OR UNCONTAMINATED.
- 1. DO NOT PLACE SUSPECTED CONTAMINATED SOILS, IN ENVIRONMENTALLY SENSITIVE AREAS SUCH AS WATERWAYS, FLOODWAYS, WETLANDS, KARST FEATURES, OR STORMWATER CONVEYANCES.
- 2. PLACE SUSPECTED CONTAMINATED SOIL ON A PLASTIC TARP AND COVER WITH AN ADDITIONAL PLASTIC TARP OR PLACE IN CONTAINERS (E.G., DRUMS) WITH A LID.
- 3. PLACE A BERM AROUND THE COVERED STOCKPILE TO ENSURE THAT SOILS ARE NOT BLOWN BY WIND OR CARRIED BY STORMWATER.
- 4. FOLLOW THE DIRECTION OF THE REGULATORY AGENCY IN HANDLING, STORAGE, CHARACTERIZATION, AND DISPOSAL OF CONTAMINATED SOILS.
- D. LEAVE SUSPECTED CONTAMINATED GROUNDWATER IN THE EXCAVATED AREA.
- 1. IF THE SUSPECTED CONTAMINATED GROUNDWATER MUST BE REMOVED FROM THE EXCAVATED AREA, PUMP TO COVERED CONTAINERS (E.G., DRUMS OR TOTES) FOR PROPER DISPOSAL.
- 2. FOLLOW ALL FEDERAL, STATE, AND LOCAL DISPOSAL REQUIREMENTS FOR SUSPECTED CONTAMINATED GROUNDWATER.
  - a. DISCHARGING CONTAMINATED GROUNDWATER TO A WATERWAY OR STORMWATER CONVEYANCE REQUIRES AN EMERGENCY NPDES PERMIT FROM OHIO EPA'S STORM WATER PROGRAM. THE CONTAMINATED GROUNDWATER MUST MEET THE NPDES DRINKING WATER QUALITY STANDARDS. CONTAMINATED GROUNDWATER MAY NOT BE DISCHARGED UNTIL THE PERMIT IS OBTAINED (TYPICALLY 90 DAYS).
  - b. DISCHARGING CONTAMINATED GROUNDWATER TO THE SANITARY SEWER REQUIRES LOCAL APPROVAL AND ANALYTICAL TESTS PER THE LOCAL SEWER USE ORDINANCE OR WASTEWATER DISCHARGE REQUIREMENTS.
  - E. ANY INCREASE OR DECREASE OF COST RESULTING FROM ENCOUNTERING CONTAMINATED SOILS OR GROUNDWATER WILL BE ADJUSTED IN THE MANNER PROVIDED IN THE CONTRACT DOCUMENTS.\*

13. FOR SOIL CONDITIONS AND GROUNDWATER, REFER TO NOTE BELOW:

DEWATERING MAY BE REQUIRED TO TEMPORARILY LOWER THE GROUNDWATER TABLE IN SOME AREAS DURING CONSTRUCTION. MINOR FLUCTUATIONS IN GROUNDWATER LEVELS WILL BE TEMPORARY IN NATURE. DISCHARGE FROM DEWATERING ACTIVITIES WILL BE FILTERED OR SETTLED TO REMOVE SEDIMENT AND WILL NOT BE DIRECTLY DISCHARGED TO ANY WATERWAY, WETLAND, OR STORMWATER CONVEYANCE.

14. FOR HORIZONTAL DIRECTIONAL DRILLING (HDD), REFER TO THE FOLLOWING SECTION(S) OF THE SPECIFICATIONS SECTION 02101 3.07:

\*DIRECTIONAL DRILLING OR HORIZONTAL BORING EROSION AND SEDIMENT CONTROL

- A. INSTALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE DRAWINGS.
- B. INSTALL SILT FENCE AROUND ALL WORK AREAS AT BORE AND RECEIVING PITS TO CONTROL SEDIMENTS.
- C. PILE MATERIALS FROM DITCH EXCAVATION AWAY FROM DITCHES, STREAMS, WETLANDS, OR STORMWATER CONVEYANCES.
- D. PROPERLY DISPOSE OF MATERIAL THAT IS NOT USED TO BACK FILL PITS.
- E. FILTER PIT DEWATERING DISCHARGE IN ACCORDANCE WITH 02102 FOR THE DISPOSAL OF SEDIMENT-LADEN WATER
- F. SEED AND MULCH DISTURBED SOIL SURFACES\*

SECTION 02226 PART 3:

\*3.01 GENERAL

- A. ATTEND ALL MEETINGS AND PROVIDE DATA, REPORTS, INFORMATION, DETAILS, AND CONSTRUCTION SCHEDULES REQUESTED BY THE ENGINEER.
- B. COMPLETE THE WORK IN A CAREFUL, WORKMANLIKE MANNER TO THE SATISFACTION OF THE ENGINEER.

3.02 EXAMINATION

- A. VERIFY THE LOCATION OF ALL KNOWN AND UNKNOWN UTILITIES AND STRUCTURES BY TEST PITTING PRIOR TO ANY BORING OR DRILLING. THESE UTILITIES AND STRUCTURES MAY INCLUDE, BUT ARE NOT LIMITED TO:

- 1. UNDERGROUND UTILITIES
  - A. STORM DRAINS
  - B. ELECTRIC CABLES
  - C. WATER MAINS
  - D. SEWER LINES AND SEPTIC SYSTEMS
  - E. GAS LINES
  - F. TELEPHONE LINES
  - G. FIBER OPTIC LINES
  - H. CABLE TELEVISION LINES
  - I. WELLS
  - J. FIELD DRAIN TILES

2. ABOVE-GROUND UTILITIES AND OTHER OBSTRUCTIONS

- A. ELECTRIC AND TELEPHONE POLES
- B. BUILDINGS
- C. TREES
- D. ROAD SIGNS
- B. BE RESPONSIBLE FOR INSPECTION OF THE SITE, CONDUCTING INVESTIGATIONS, SURVEYS AND TESTS, INCLUDING SUBSURFACE INVESTIGATIONS AND TESTS, THAT ARE NECESSARY FOR THE COMPLETE EXECUTION OF ALL THE WORK UNDER THE CONTRACT.

3.03 INSTALLATION

\*GENERAL

- 1. BEFORE BEGINNING ANY WORK, SUBMIT PLANS AND DETAILS DESCRIBING THE MATERIALS AND METHODS WHICH ARE PROPOSED FOR USE. DO NOT PROCEED WITH THE WORK UNTIL SUCH DRAWINGS AND METHODS HAVE BEEN REVIEWED FOR CONFORMITY WITH THE APPROVED PERMIT BY THE ENGINEER. THE REVIEW BY THE ENGINEER OF ANY DRAWINGS

OR METHOD SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY IN ANY WAY.

2. NOTIFY THE ENGINEER 48 HOURS IN ADVANCE OF STARTING DIRECTIONAL DRILLING WORK. DO NOT BEGIN THE DIRECTIONAL DRILLING UNTIL THE ENGINEER, OR HIS AUTHORIZED REPRESENTATIVE, IS PRESENT AT THE JOB SITE AND PROPER PREPARATIONS FOR THE OPERATION HAVE BEEN MADE. THE ENGINEER'S CONSENSUS FOR BEGINNING THE INSTALLATION SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR THE SATISFACTORY COMPLETION OF THE WORK AS AUTHORIZED UNDER THE CONTRACT.

3. DO NOT CUT OR DISTURB PAVEMENT, ASPHALT, OR EXCAVATE WITHIN THE RELATIVE LIMITS OF THE ROADWAY SURFACE TO RETRIEVE ANY LOST BORING APPURTENANCES OR EQUIPMENT.

4. MAINTAIN A LOG OF DRILLING OPERATIONS WHICH INCLUDES VERTICAL DEPTHS OF THE PIPE AT ESTABLISHED HORIZONTAL INTERVALS EVERY 25 FEET.

B. EQUIPMENT

1. THE DIRECTIONAL DRILLING SYSTEM TO BE USED MUST HAVE THE FOLLOWING FEATURES:

- A. THE SYSTEM SHALL BE REMOTELY STEERABLE AND PERMIT ELECTRONIC MONITORING OF TUNNEL DEPTH AND LOCATION. THE SYSTEM SHALL BE ABLE TO CONTROL THE DEPTH AND DIRECTION OF THE PIPE AND MUST BE ACCURATE TO ± 2 INCHES.
- B. THE SYSTEM SHALL UTILIZE A FLUID-CUTTING PROCESS, USING A LIQUID CLAY SUCH AS BENTONITE. THIS CLAY SHALL BE TOTALLY INERT AND CONTAIN NO RISK TO THE ENVIRONMENT.
- C. THE LIQUID CLAY SHALL REMAIN IN THE TUNNEL TO INCREASE THE STABILITY OF THE TUNNEL AND TO PROVIDE A LUBRICANT TO REDUCE FRICTIONAL DRAG WHEN THE PIPE IS INSTALLED.
- D. RECOVER SPOILS BY USE OF A VACUUM SYSTEM MOUNTED ON A VEHICLE FOR REMOVAL OF THE SPOILS.

1) DO NOT DISCHARGE SPOILS INTO SEWERS OR STORM DRAINS.

2) PROPERLY DISPOSE OF ALL SPOIL MATERIAL.

E. EQUIPMENT SHALL BE FITTED WITH A PERMANENT, INHERENT ALARM SYSTEM CAPABLE OF DETECTING AN ELECTRICAL CURRENT. THE SYSTEM SHALL HAVE AN AUDIBLE ALARM TO WARN THE OPERATOR WHEN THE DRILL HEAD NEARS ELECTRIFIED CABLES WITHIN A SAFE OPERATING DISTANCE.

C. MECHANICAL, PNEUMATIC, OR WATER-JETTING METHODS ARE NOT ACCEPTABLE DUE TO THE RISK OF SURFACE SUBSIDENCE AND DAMAGE.

D. PROTECTION

1. PROTECT PERSONNEL AGAINST EXISTING BURIED ELECTRICAL CABLES THAT MAY BE ENERGIZED.

A. PROVIDE ALL CREWS WITH GROUNDED SAFETY MATS, HEAVY GAUGE GROUND CABLES WITH CONNECTORS, HOT BOOTS, AND GLOVES.

E. DRILLING PROCEDURE

1. PRIOR TO ANY ALTERATIONS TO THE WORK SITE, VIDEO TAPE THE ENTIRE WORK AREA, INCLUDING ENTRY AND EXIT POINTS AS SPECIFIED IN SECTION 02111. PROVIDE ONE COPY OF THE VIDEO TO THE ENGINEER AND KEEP ONE COPY FOR A PERIOD OF 1 YEAR FOLLOWING THE COMPLETION OF THE PROJECT.

2. GRADE OR FILL THE WORK SITE AS INDICATED ON THE DRAWINGS, WITHIN THE RIGHT-OF-WAY, TO PROVIDE A LEVEL WORKING AREA. MAKE NO ALTERATIONS BEYOND WHAT IS REQUIRED FOR OPERATIONS. CONFINE ALL ACTIVITIES TO THE DESIGNATED WORK AREAS AND CONSTRUCTION LIMITS.

3. ACCURATELY SURVEY THE ENTIRE DRILL PATH AND PLACE ENTRY AND EXIT STAKES IN THE APPROPRIATE LOCATION WITHIN THE AREAS INDICATED ON THE DRAWINGS. IF USING A MAGNETIC GUIDANCE SYSTEM, SURVEY THE DRILL PATH FOR ANY SURFACE GEO-MAGNETIC VARIATIONS OR ANOMALIES.

4. PLACE ENVIRONMENTAL PROTECTION NECESSARY TO CONTAIN ANY HYDRAULIC OR DRILLING FLUID PIPES, INCLUDING BERMS, LINERS, TURBIDITY CURTAINS, AND OTHER EROSION CONTROL MEASURES AS SPECIFIED IN SECTION 02101. ADHERE TO ALL ENVIRONMENTAL REGULATIONS. DO NOT STORE FUEL AND OIL IN BULK CONTAINERS WITHIN 200 FEET OF ANY WATERBODY OR WETLAND.

5. PLACE PIPE RESTING ON PAVED OR HARDENED SURFACES (I.E., SIDEWALKS, ASPHALT, CONCRETE, GRAVEL, ETC.) ON PIPE ROLLERS BEFORE BEING PULLED INTO THE DRILL HOLE, WITH ROLLERS SPACED CLOSE ENOUGH TO PREVENT EXCESSIVE SAGGING AND DRAGGING OF THE PIPE ON ROUGH SURFACES WHICH COULD SCAR THE PIPE.

6. CALIBRATE THE DIRECTIONAL DRILLING HEAD LOCATOR AT THE START OF THE DAY AND AT EACH NEW DIRECTIONAL DRILLING OPERATION. KEEP A DAILY CALIBRATION LOG FOR THE ENGINEER'S REVIEW.

7. ENSURE THE DIRECTIONAL DRILLING OPERATOR HAS FULL CONTROL OF THE DIRECTION OF THE DRILLING TOOL AT ALL TIMES. ABANDON AND FILL SHALLOW, UNEXPECTED, OR OTHER UNSUCCESSFUL DRILLS AT THE DIRECTION OF THE ENGINEER AND AT CONTRACTOR'S EXPENSE.

8. THE MAXIMUM DRILL ANGLE SHALL BE 15 DEGREES MEASURED PERPENDICULAR TO GRADE TO THE DESIGN DEPTH ELEVATION.

9. DRILL A PILOT HOLE ALONG THE DRILL PATH WITH NO DEVIATIONS GREATER THAN 5 PERCENT OF DEPTH OVER A LENGTH OF 100 FEET. IF THE PILOT HOLE DOES DEVIATE FROM THE DRILL PATH MORE THAN 5 PERCENT OF DEPTH IN 100 FEET, NOTIFY THE ENGINEER. ENGINEER MAY REQUIRE PULL BACK AND RE-DRILL FROM THE LOCATION ALONG THE DRILL PATH BEFORE THE DEVIATION.

10. IN THE EVENT OF A DRILLING FLUID FRACTURE, INADVERTENT RETURNS, OR RETURNS LOSS OCCURS DURING PILOT HOLE DRILLING OPERATIONS, CEASE DRILLING. WAIT AT LEAST 30 MINUTES, INJECT A QUANTITY OF DRILLING FLUID WITH A VISCOSITY EXCEEDING 120 SECONDS AS MEASURED BY A MARCH FUNNEL, AND THEN WAIT ANOTHER 30 MINUTES. IF MUD FRACTURE OR RETURNS LOSS CONTINUES, CEASE OPERATIONS, AND NOTIFY THE ENGINEER. THE ENGINEER AND CONTRACTOR WILL DISCUSS ADDITIONAL OPTIONS AND WORK WILL PROCEED ACCORDINGLY.

11. UPON SUCCESSFUL COMPLETION OF THE PILOT HOLE, REAM THE DRILL HOLE TO A MINIMUM OF 25 PERCENT GREATER THAN THE OUTSIDE DIAMETER OF THE PIPE USING APPROPRIATE TOOLS. DO NOT ATTEMPT TO REAM, AT ONE TIME, MORE THAN THE DRILLING EQUIPMENT AND MUD SYSTEM ARE DESIGNED TO SAFELY HANDLE.

12. AFTER SUCCESSFULLY REAMING THE DRILL HOLE TO THE REQUIRED DIAMETER, PULL THE PIPE THROUGH THE DRILL HOLE. IN FRONT OF THE PIPE WILL BE A SWIVELING MANDREL. ONCE PULL-BACK OPERATIONS HAVE COMMENCED, OPERATIONS MUST CONTINUE WITHOUT INTERRUPTION UNTIL THE PIPE IS COMPLETELY PULLED INTO THE DRILL HOLE. DO NOT APPLY MORE THAN THE MAXIMUM SAFE PIPE PULL PRESSURE AT ANY TIME DURING PULL-BACK OPERATIONS.

13. PULL BACK 2 STRANDS OF TRACER WIRE WITH THE PIPE.

A. TRACER WIRE SHALL BE COPPERHEAD DIRECT BURIAL #12 AWG, SOLID STEEL CORE, HARD DRAWN, EXTRA-HIGH STRENGTH, HORIZONTAL DIRECTIONAL DRILL TRACER WIRE WITH:

- 1) 1150 POUND AVERAGE TENSILE BREAK LOAD,
- 2) 45 MIL HIGH MOLECULAR WEIGHT-HIGH DENSITY YELLOW POLYETHYLENE JACKET COMPLYING WITH ASTM D1248, AND
- 3) 30 VOLT RATING.
- 4) INCLUDE THE TRACER WIRE IN THE COST OF THE PIPE.

14. IN THE EVENT THE PIPE BECOMES STUCK DURING PULL-BACK, CEASE PULLING OPERATIONS TO ALLOW ANY POTENTIAL HYDRO-LOCK TO SUBSIDE AND THEN COMMENCE PULLING OPERATIONS. IF THE PIPE REMAINS STUCK,

NOTIFY THE ENGINEER. THE ENGINEER AND THE CONTRACTOR WILL DISCUSS OPTIONS AND THEN WORK WILL PROCEED ACCORDINGLY.

15. AT DRILL PITS AND DIRECTIONAL DRILLING ENTRANCES AND EXITS TO THE SURFACE, USE A BACKHOE OR EQUIVALENT TO GRADUALLY RETURN THE BORE DEPTH TO THE PRESCRIBED DEPTH.

16. UPON COMPLETION OF DRILLING AND PIPE INSTALLATION, REMOVE SPOILS FROM STARTING AND TERMINATION PITS. BACKFILL AND COMPACT DRILL PITS AND DIRECTIONAL DRILLING ENTRANCES AND EXITS TO THE SURFACE AS SPECIFIED IN SECTION 02220. RESTORE PITS TO THEIR ORIGINAL CONDITION.

3.04 FIELD QUALITY CONTROL

A. MAINTAIN A DAILY CALIBRATION LOG OF THE DIRECTIONAL DRILLING HEAD LOCATOR. PROVIDE COMPLETED LOGS OR COMPUTER-GENERATED OUTPUT TO THE ENGINEER DAILY FOR CHECKING LINE AND GRADE OF THE DRILLING OPERATION.

B. DIG TEST/PRESSURE RELIEF HOLES (POTHOLES) EVERY 25 FEET ALONG THE BORE ROUTE TO CONFIRM ALIGNMENT AND GRADE, AND TO RELIEVE SUBSURFACE PRESSURE.

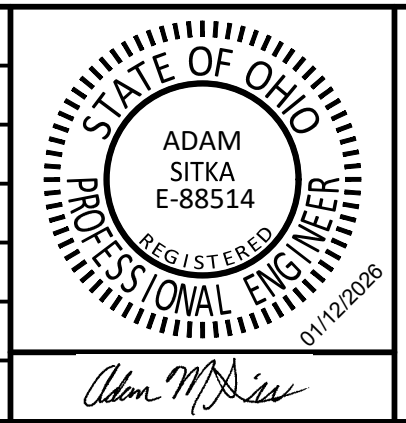
C. REPLACE SECTIONS OF PIPE THAT DO NOT MEET THE ABOVE REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER. IF THE NEW PIPE INSTALLED DOES NOT MEET THE ABOVE REQUIREMENTS, EITHER GRABOUT AND ABANDON THE PIPE IN PLACE, OR REMOVE THE PIPE AND FILL THE VOID AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO THE OWNER.

D. PRESSURE TEST THE INSTALLED WATER MAIN AS SPECIFIED IN SECTION 02601 AND DISINFECT AS SPECIFIED IN SECTION 02675.\*

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SCALE VERIFICATION  BAR IS ONE INCH LONG ON ORIGINAL DRAWING  [Scale Bar]	DRAWN BY	TWL	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
	CHECKED BY	ACH				
	APPROVED BY	AMS				
	ISSUE DATE	FEBRUARY 2026				
	PROJECT NUMBER	703222-04-001				



<b>WATER SYSTEM IMPROVEMENTS</b>	SHEET NO.
CONTRACT A NEW WATER TRANSMISSION MAIN VILLAGE OF HOLGATE, OHIO	<b>50</b>
<b>EROSION CONTROL DETAILS</b>	TOTAL SHEETS
	<b>50</b>