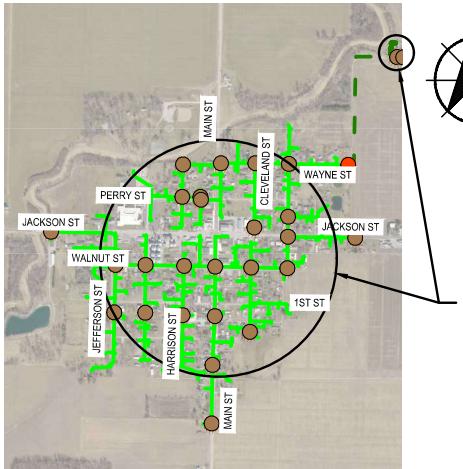


2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2

FOR THE

VILLAGE OF GROVER HILL, OHIO



GROVER HILL, OHIO
VICINITY MAP

SCALE: NONE



STATE LOCATION MAP

SCALE: NONE



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Bluffton, Ohio 45817
Phone: (419) 358-0521
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PROJECT NO. 706524-04-001

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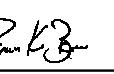
VILLAGE OF GROVER HILL COUNCIL

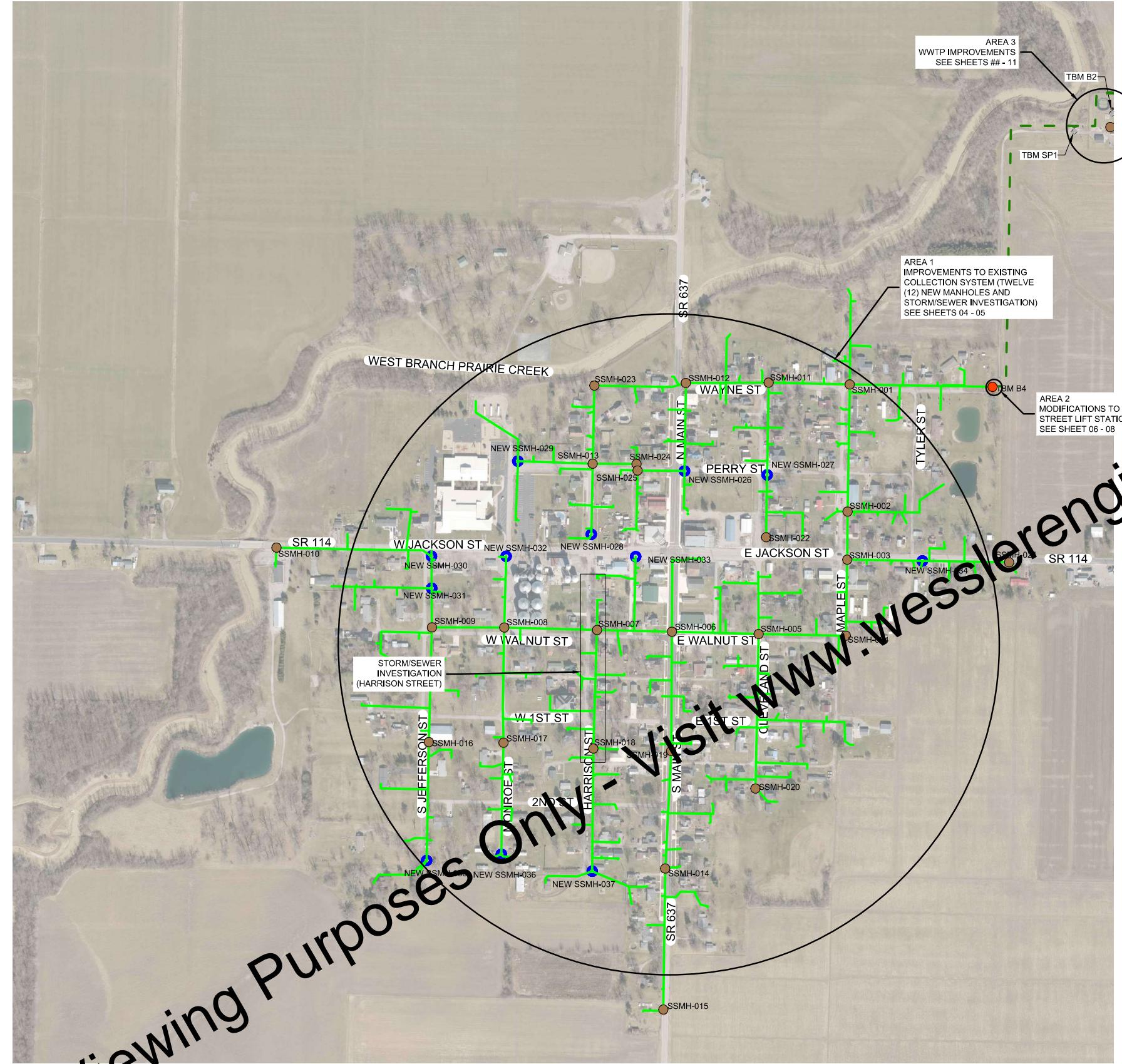
DEWAYNE HINCHCLIFF, MAYOR
GABRIELLE HOOK, FISCAL OFFICER
DONNIE EGNOR, VILLAGE COUNCIL MEMBER/PRESIDENT
NICK MYERS, VILLAGE COUNCIL MEMBER
CANDY MINCK, VILLAGE COUNCIL MEMBER
TRUDY WILKINS, VILLAGE COUNCIL MEMBER
RHONDA MILLER, VILLAGE COUNCIL MEMBER
LEEANN LESTER, VILLAGE COUNCIL MEMBER

PAULDING COUNTY COMMISSIONERS

MARK HOLTSBERRY
MIKE WEIBLE, CHAIRMAN
LISA MCCLURE, VICE-CHAIRMAN

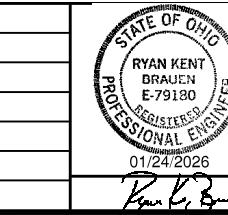
JANUARY 2026

 RYAN K. BRAUEN REGISTERED ENGINEER STATE OF OHIO NO. E-79180 01/24/2026	
 WAYNE C. MOORE REGISTERED ENGINEER STATE OF OHIO NO. E-70068 01/24/2026	



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SCALE VERIFICATION		DRAWN BY	MTF	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING		AAB					
		RKB					
		ISSUE DATE		JANUARY 2026			
		PROJECT NUMBER		706524-04-001			



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LOCATION AND SCOPE OF WORK PLAN

0 125 250 500 FT
1:250'

2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2

VILLAGE OF GROVER HILL, OHIO

DRAWING INDEX, LOCATION, AND SCOPE OF WORK PLAN

DRAWING INDEX	
SHEET NO.	DESCRIPTION
GENERAL	
01	TITLE SHEET
02	DRAWING INDEX, LOCATION, AND SCOPE OF WORK PLAN
03	GENERAL NOTES, UTILITIES, ABBREVIATIONS AND LEGEND
COLLECTION SYSTEM	
04 - 05	NEW SANITARY SEWER MANHOLES - APPROXIMATE LOCATIONS
WAYNE STREET LIFT STATION	
06	WAYNE STREET LS - EXISTING SITE PLAN AND SECTION
07	WAYNE STREET LS - NEW SITE PLAN & MODIFICATIONS PLAN & SECTION
08	WAYNE STREET LS - NEW ELECTRICAL SITE PLAN
WASTEWATER TREATMENT PLANT	
09	WWTP - DEMO AND MODIFIED SITE PLAN
10	WWTP - UV DISINFECTION SYSTEM PLAN AND SECTIONS AND DETAILS
11	WWTP - ELECTRICAL SITE PLAN
MISCELLANEOUS DETAILS	
12 - 13	MISCELLANEOUS DETAILS
ELECTRICAL	
14	ELECTRICAL LEGEND
15	ONE LINE DIAGRAMS AND DETAILS
16	ELECTRICAL DETAILS
17	PROCESS AND INSTRUMENTATION LEGEND
18	PROCESS AND INSTRUMENTATION DIAGRAM

HORIZONTAL AND VERTICAL CONTROL INFORMATION

NOTES:
1. A FIELD SURVEY WAS PERFORMED IN DECEMBER 2019.
2. COORDINATES (OHIO STATE PLANE, NORTH ZONE, NAD 83) AND ELEVATIONS (NAVD 88) UTILIZING ODOT VRS.
3. UNITS ARE U.S. SURVEY FEET.
4. CONTROL POINTS WERE SET USING GPS.
5. ALL ELEVATIONS WERE VERIFIED UTILIZING A ROBOTIC TOTAL STATION.

CONTROL DESCRIPTION:
1. TBM NO. SP1 - MAG NAIL CONTROL POINT SET IN ASPHALT DRIVE WEST OF WWTP GATE EL 722.60
2. TBM NO. B1 - OLD SQUARE CUT IN EAST-WEST LEDGE OF AERATION BASIN EL 728.52
3. TBM NO. B2 - X CUT IN CONCRETE NORTHEAST LEDGE OF CLARIFIER EL 730.15
4. TBM NO. B3 - X CUT IN CONCRETE NNE OF DEWATERING BUILDING WEST GARAGE DOOR EL 724.54
5. TBM NO. B4 - SW CORNER OUTSIDE OF LID FRAME OF WEST LIFT STATION MANHOLE EL 724.54

LEGEND

- NEW MANHOLE
- EX MANHOLE
- SANITARY SEWER GRAVITY MAIN
- SANITARY SEWER FORCEMAIN
- WAYNE STREET LIFT STATION

Table A-1: Schedule of New Manhole Installation

Manhole ID:	Approximate Location Description:	Surface Material:	Approximate Depth:	Comments:
SSMH-026	East side of the intersection of North Main St. & Perry St. just North of the Dollar General Marketplace.	Pavement	4.0' to 6.0'	Manhole to be located at the intersection of the 2 gravity mains
SSMH-027	Southwest corner of the intersection of Cleveland St. & Perry St.	Pavement	8.1' to 10.0'	Manhole to be located out of the road, place manhole within either the grass patch &/or sidewalk.
SSMH-028	North side of the intersection of Harrison St. and Jackson St.	Pavement	4.0' to 6.0'	Manhole to be located at the dead end of gravity main.
SSMH-029	Northeast corner of the intersection of Monroe St. and Perry St. near the elementary school.	Pavement	4.0' to 6.0'	Manhole to be located at the intersection of the 3 gravity mains
SSMH-030	Southwest corner of the intersection of Jefferson St. and West Jackson St.	Non-Pavement	4.0' to 6.0'	Manhole to be located at the intersection of the 3 gravity mains in the existing gravel drive.
SSMH-031	North end of Jefferson St.	Non-Pavement	6.1' to 8.0'	Manhole to be located at the intersection of the 3 gravity mains
SSMH-032	South side of the intersection of Monroe St. and West Jackson St.	Pavement	4.0' to 6.0'	Manhole to be located at the dead end of gravity main.
SSMH-033	Southeast side of the intersection between the alley east of the Marathon Gas Station and Jackson St.	Pavement	6.1' to 8.0'	Manhole to be located at the dead end of gravity main.
SSMH-034	East end of Jackson St.	Non-Pavement	8.1' to 10'	Manhole to be located approximately halfway between existing manholes SSMH-003 and SSMH-021.
SSMH-035	Dead end of South Jefferson St. on the East side of the road.	Non-Pavement	4.0' to 6.0'	Manhole to be located at the dead end of gravity main.
SSMH-036	Dead end of South Monroe St. on the East side of the road.	Pavement	4.0' to 6.0'	Manhole to be located at the dead end of gravity main.
SSMH-037	Dead end of South Harrison St. on the East side of the road.	Non-Pavement	4.0' to 6.0'	Manhole to be located at the dead end of gravity main.

Notes:

- It is the responsibility of the Contractor to visit the approximate location of each new manhole and confirm details - see drawing set for maps.
- Information provided in the above table cannot be guaranteed. Information shown has been assembled by Engineer through information provided by the Village, old collection system mapping, and depths of existing manholes. Actual locations of existing sanitary sewer pipes, connections, and dead ends are unknown - only existing sanitary sewer manholes have been GPS'd.
- All new manholes are standard 48-inch diameter structures.
- All new manholes are to have full depth composite manhole lining per specification 02738.

SHEET NO.
02
TOTAL SHEETS
18

EXISTING FEATURES LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
BM	BENCH MARK	(S)	CISTERN		EASEMENT - CONSTRUCTION/PERMANENT
TM	TEMPORARY BENCH MARK	E	ELECTRIC METER		LOT BOUNDARY
SB	SOIL BORING LOCATION	AC	AIR CONDITIONING UNIT	P	PROPERTY BOUNDARY
SC	SECTION CORNER	UR	UTILITY RISER (DEFINED BY UTILITY)	ROW	RIGHT-OF-WAY - TEMPORARY/PERMANENT
DR	DRILL HOLE IN CONCRETE/HARRISON MONUMENT	UP	UTILITY PEDESTAL (DEFINED BY UTILITY)		SECTION BOUNDARY
CP	CONTROL POINT (SET/FOUND)	UM	UTILITY MARKER (DEFINED BY UTILITY)		WETLANDS
MG	MAGNETIC NAIL (SET/FOUND)	JPT	JOINT POWER/TELEPHONE POLE	840	CONTOUR - INTERMEDIATE ELEVATION
BS	BOAT SPIKE (SET/FOUND)	LP	LIGHT POLE	850	CONTOUR - INDEX ELEVATION
PK	PK NAIL (SET/FOUND)	LPP	LIGHT ON POWER POLE	OHE	OVERHEAD ELECTRIC
RR	RAILROAD SPIKE (SET/FOUND)	LJL	LIGHT ON JOINT POLE	OHC	OVERHEAD CABLE TV
RW	RW MARKER - CONCRETE/GRANITE/STONE	PP	POWER POLE	OHT	OVERHEAD TELEPHONE
IP	IRON PIPE/IRON PIN/REBAR (WITH DIAMETER)	TP	TELEPHONE POLE	UGC	UNDERGROUND CABLE TV
BP	BRASS PLUG	LAM	LAMP POST	UGE	UNDERGROUND ELECTRIC
CA	CABLE TV MANHOLE	GA	GUY ANCHOR	UGF	UNDERGROUND FIBER OPTIC
EM	ELECTRIC MANHOLE	GP	GUY POLE OR STUB	G	GAS MAIN
GM	GAS MANHOLE	CC	CONTROLLER CABINET	DG	DIGESTER GAS
OM	OTHER MANHOLE	FP	FLAG POLE	P	PETROLEUM MAIN
TE	TELEPHONE MANHOLE	PO	POST	UGT	UNDERGROUND TELEPHONE
TEL	TELEPHONE VAULT	GL	GROUND LIGHT	W	WATER MAIN
TM	TRAFFIC MANHOLE	MB	MAILBOX	W	WATER SERVICE
TH	TRAFFIC HANDHOLE	DM	DOUBLE/MULTIPLE MAILBOX	FM	FORCEMAIN
WM	WATER MANHOLE	MAP	MAST ARM POLE		GRAVITY SEWER PIPE
AR	AIR RELEASE VALVE	TS	TRAFFIC SIGNAL STRAIN POLE		PLANT CHLORINE PIPE
SM	SANITARY SEWER MANHOLE	SLD	SIGNAL LOOP DETECTOR BOX		TOP OF BANK/TOE OF SLOPE
DS	DRAINAGE/STORM SEWER MANHOLE	SLD	SIGNAL LOOP DETECTOR LOOP		CENTERLINE OF DITCH/SWALE/STREAM
SC	SANITARY SEWER CLEANOUT	SP	SIGN - SINGLE POST	xx-xx-xx-xx-xx-xx	FENCE - FIELD
ST	SEPTIC TANK	DP	SIGN - DOUBLE POST	oo-oo-oo-oo-oo-oo	FENCE - METAL
VA	VALVE VAULT	RR	SIGN - RAILROAD SIGNAL		FENCE - WOOD
BI	BEEHIVE INLET	RR	SIGN - RAILROAD CROSSING		GUARDRAIL
CI	CURB INLET	B	BUSH		STREAM
DI	DROP INLET	ST	STUMP	~~~~~	TREE/BRUSH LINE
CB	CATCH BASIN	TR	TREE - CONIFEROUS		
DS	DOWNSPOUT	TD	TREE - DECIDUOUS		
GM	GAS METER	RO	ROCK OUTCROP		
GV	GAS VALVE	SAT	SATELLITE		
GS	GAS SERVICE VALVE	SPV	SPRINKLER CONTROL VALVE		
PV	PETROLEUM VALVE	WM	WATER METER		
PSV	PETROLEUM SHUTOFF VALVE	WV	WATER VALVE		
GSW	GAS STATION MONITORING WELL	WSV	WATER SERVICE VALVE		
GSC	GAS STATION FILL CAP	WW	WATER WELL		
NGW	NATURAL GAS WELL/STORAGE WELL	WW	WET WELL		
SP	SPRINKLER HEAD	HY	FIRE HYDRANT		
YH	YARD HYDRANT	PP	PROCESS VALVE		

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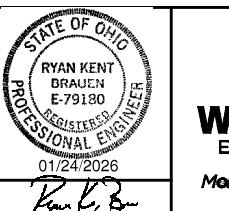
UTILITY CONTACTS

ELECTRIC
AMERICAN ELECTRIC POWER OHIO
1-800-672-2231

SEWER
VILLAGE OF GROVER HILL
104 SOUTH MAIN STREET
GROVER HILL, OHIO 45849
419-203-5323
ATTN: DEWAYNE HINCHCLIFF, MAYOR

CABLE
OTEC COMMUNICATION COMPANY
245 3RD STREET
OTTOWVILLE, OHIO 45876
567-204-6880
ATTN: DALE HONIGFORD, PLAT SUPERVISOR
OR
419-796-0000
ATTN: BILL HONIGFORD, GENERAL MANAGER

TELEPHONE
TDS TELECOM
88 EAST RICE STREET
CONTINENTAL, OHIO 45831
419-889-7055
ATTN: DAN WATSON, SENIOR FIELD SERVICE TECHNICIAN
OR
419-796-0131
ATTN: CHAD SPEAR, TECHNICIAN



W
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2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2

VILLAGE OF GROVER HILL, OHIO

GENERAL NOTES, UTILITIES, ABBREVIATIONS AND LEGEND

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 CONSTRUCTION.
- PRIVATE WELLS EXIST THROUGHOUT THE PROJECT LIMITS AND LOCATIONS WERE NOT LOCATED BY WESSLER ENGINEERING. IDENTIFY AND PROTECT THEM WITHIN 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, CORRECT, OR INCLUSIVE OR EVEN APPROXIMATE. CONTACT THE OHIO UTILITIES PROTECTION SERVICE (OUPS) AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY. CONTACTING NUMBER UTILITIES DIRECTLY.
- DETERMINE WHICH UTILITIES MAY CONFLICT WITH WORK AND VERIFY THEIR LOCATION, SIZE AND ELEVATION PRIOR TO CONSTRUCTION AND 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 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 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 EIGHT (8) 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 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.
- PLACE NEW ASPHALT PAVEMENT FLUSH WITH ADA RAMPS.
- 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 AND ON PRIVATE PROPERTY VIA EASEMENTS 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 THE MISCELLANEOUS SITE DETAILS OR SPECIFICATIONS, UNLESS SPECIFIC ELEVATIONS ON THE DRAWINGS INDICATE OTHERWISE.
- INSPECT THE SITE PRIOR TO BIDDING TO UNDERSTAND THE EXTENT OF THE WORK INVOLVED AND ADJUST BID ACCORDINGLY.
- COMPLETELY REMOVE UNDERGROUND PIPING THAT HAS PREVIOUSLY BEEN OR WILL BE TAKEN OUT OF SERVICE, IN CONFLICT WITH THE NEW WORK, UNLESS OTHERWISE NOTED. ABDONIN IN PLACE ALL UNDERGROUND PIPING NOT IN CONFLICT WITH THE NEW WORK. DO NOT LEAVE ABDONED 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.
- ALL EQUIPMENT TO BE REMOVED THAT HAS ELECTRICAL COMPONENTS, CONDUIT AND WIRING, OR SMALL PIPING CONNECTED SHALL HAVE THE ELECTRICAL COMPONENTS AND SMALL PIPING REMOVED BACK TO THE SOURCE.
- LENGTHS OF SEWERS AS SHOWN ON THE DRAWINGS AND INDICATED AS LINEAR FEET (LF) ARE FROM CENTER TO CENTER OF STRUCTURES.
- NORTHING AND EASTING INFORMATION IS GIVEN AT CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
- PLACE NO. 8 CRUSHED AGGREGATE BETWEEN PIPES AT ALL PIPE CROSSINGS TO PREVENT PIPE SETTLEMENT UNLESS SHOWN OTHERWISE.
- VERIFY EXISTING SEWER INVERTS AND LOCATIONS PRIOR TO CONSTRUCTION AND DETERMINE IF THERE ARE ANY DISCREPANCIES OR CONFLICTS.
- ADJUST SEWER LATERALS AS NECESSARY TO AVOID CONFLICTS. LATERALS THAT REQUIRE FIELD ADJUSTMENT SHALL BE LAID AT THE MINIMUM SLOPE AS SPECIFIED IN THE DRAWINGS AND SPECIFICATIONS.
- ALL SANITARY SEWER PIPE, INCLUDING GRAVITY SEWERS, LATERAL WYES AND SERVICE LATERAL PIPE LOCATED WITHIN 50 FEET OF PRIVATE WELLS SHALL BE SDR 21 PVC WATER GRADE PRESSURE PIPE UNLESS SPECIFICALLY INDICATED OTHERWISE. ALL SANITARY SEWER PIPE, INCLUDING GRAVITY SEWERS, LATERAL WYES AND SERVICE LATERAL PIPE NOT LOCATED WITHIN 50 FEET OF PRIVATE WELLS SHALL BE SDR 35 PVC SEWER GRADE PIPE, UNLESS SPECIFICALLY INDICATED OTHERWISE.
- RESET ALL MAILBOXES AND SIGNS DISTURBED BY CONSTRUCTION ACTIVITIES.
- IF REQUIRED, PLACE TEMPORARY OVERNIGHT AGGREGATE WEDGES AT DRIVEWAYS TO ALLOW PROPERTY OWNER ACCESS.

EROSION CONTROL NOTES:

- REFER TO SITE STORM WATER POLLUTION PREVENTION PLAN (SWP3), DEVELOPED IN ACCORDANCE WITH OHIO GENERAL PERMIT OHC00005, FOR SITE CONDITIONS, POTENTIAL SOURCES OF POLLUTION, AND SEDIMENT AND EROSION CONTROL BEST MANAGEMENT PRACTICES (BMPS). THE SWP3 SHALL BE RETAINED ON-SITE AND AVAILABLE UPON REQUEST OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPAP) OR A LOCAL REGULATORY AGENCY. ALL ENTITIES INVOLVED IN PLAN IMPLEMENTATION, INCLUDING CONTRACTORS AND SUBCONTRACTORS MUST SIGN THIS PLAN AS DOCUMENTATION THAT THEY REVIEWED AND UNDERSTAND THE CONDITIONS AND RESPONSIBILITIES OF THIS PLAN.
- A COPY OF THE ODOT PERMIT AND APPROVED PLANS SHALL BE ON SITE AT ALL TIME WHILE WORK IS BEING PERFORMED WITHIN THE STATE'S RIGHT-OF-WAY. COUNTY MANAGER OR APPROPRIATE ASSOCIATE SHALL BE CONTACTED 24 HOURS IN ADVANCE OF STARTING ANY WORK.
- INSTALL AND MAINTAIN CONCRETE WASHOUT AREAS AT ALL CONCRETE WORK LOCATIONS. REFER TO SITE STORM WATER POLLUTION PREVENTION PLAN (SWP3) FOR SPECIFICATIONS.
- INSTALL AND MAINTAIN INLET PROTECTION ON ALL STORM SEWER INLETS RECEIVING RUNOFF FROM DISTURBED AREAS, INCLUDING SEPTIC TANK, MANHOLE, LIFT STATION, AND WWTP LOCATIONS. REFER TO SITE STORM WATER POLLUTION PREVENTION PLAN (SWP3) FOR SPECIFICATIONS.

*NOTE: THIS TABLE IS A LISTING OF TYPICAL EXISTING SYMBOLS AND MAY NOT INCLUDE ALL EXISTING SYMBOLS FOUND WITHIN THIS PLAN SET. ALL INDICATED ITEMS WILL BE CALLED OUT ON THEIR PLAN SHEETS. 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.

SCALE VERIFICATION	DRAWN BY	MTF	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
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	RKB					
	ISSUE DATE					
	JANUARY 2026					
	PROJECT NUMBER					
	706524-04-001					

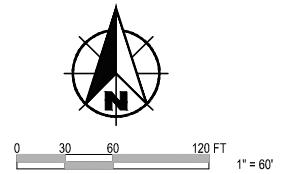
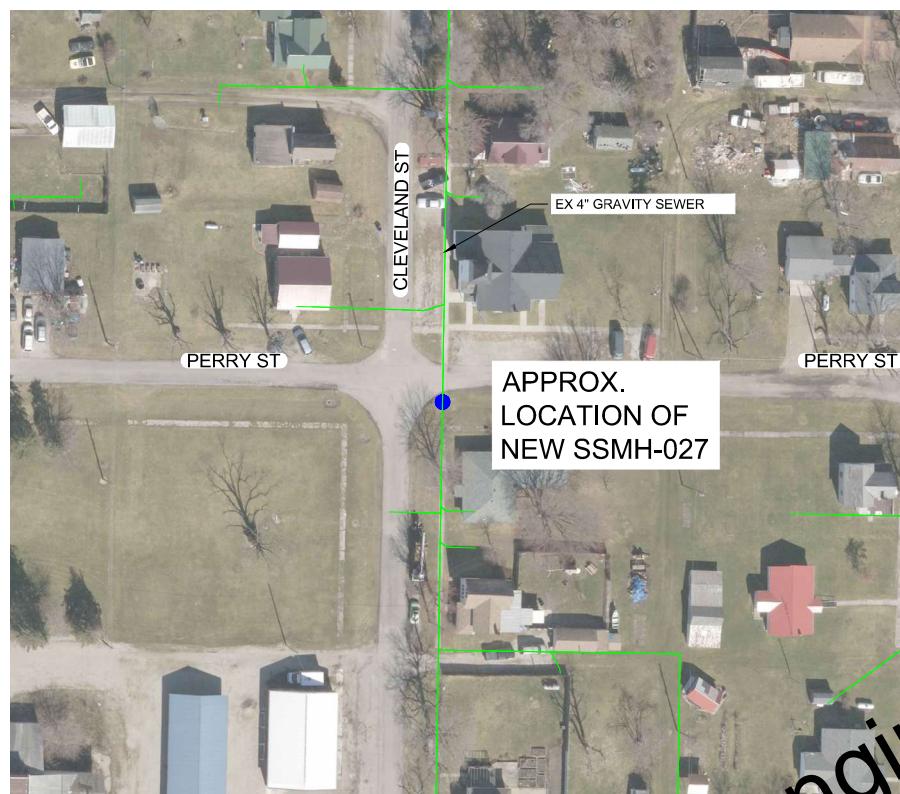
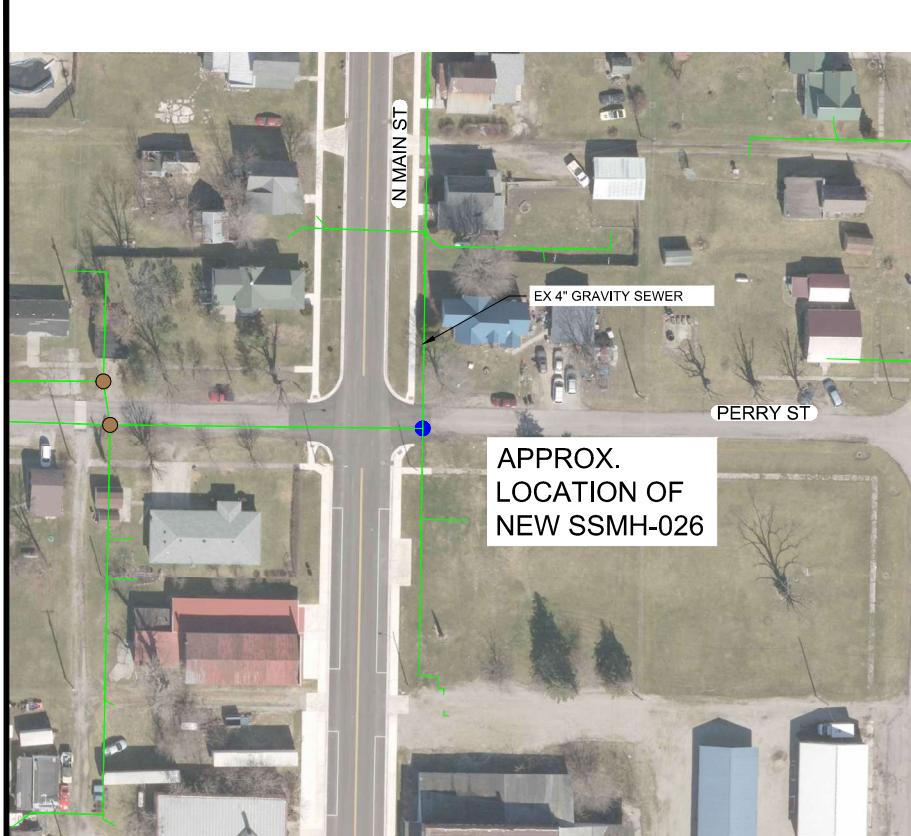
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AMERICAN ELECTRIC POWER OHIO
1-800-672-2231

SEWER
VILLAGE OF GROVER HILL
104 SOUTH MAIN STREET
GROVER HILL, OHIO 45849
419-203-5323
ATTN: DEWAYNE HINCHCLIFF, MAYOR

CABLE
OTEC COMMUNICATION COMPANY
245 3RD STREET
OTTOWVILLE, OHIO 45876
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OR
419-796-0000
ATTN: BILL HONIGFORD, GENERAL MANAGER

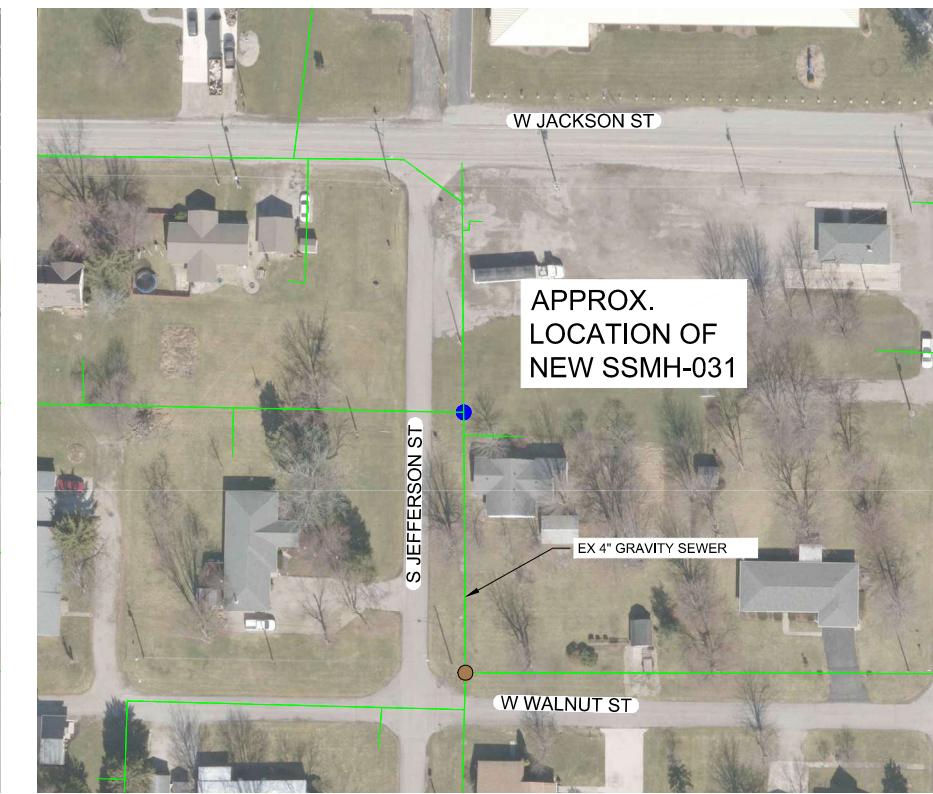
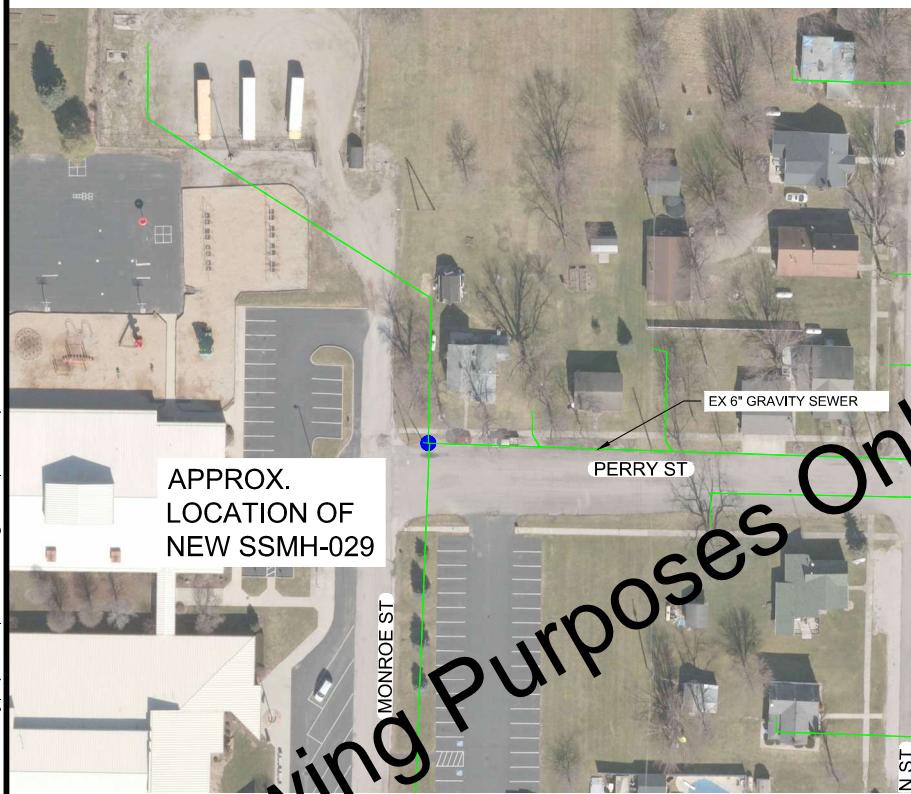
TELEPHONE
TDS TELECOM
88 EAST RICE STREET
CONTINENTAL, OHIO 45831
419-889-7055
ATTN: DAN WATSON, SENIOR FIELD SERVICE TECHNICIAN
OR
419-796-0131
ATTN: CHAD SPEAR, TECHNICIAN

SHEET NO.
03
TOTAL SHEETS
18

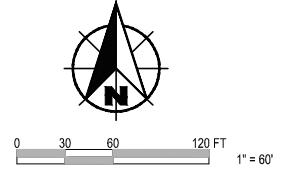
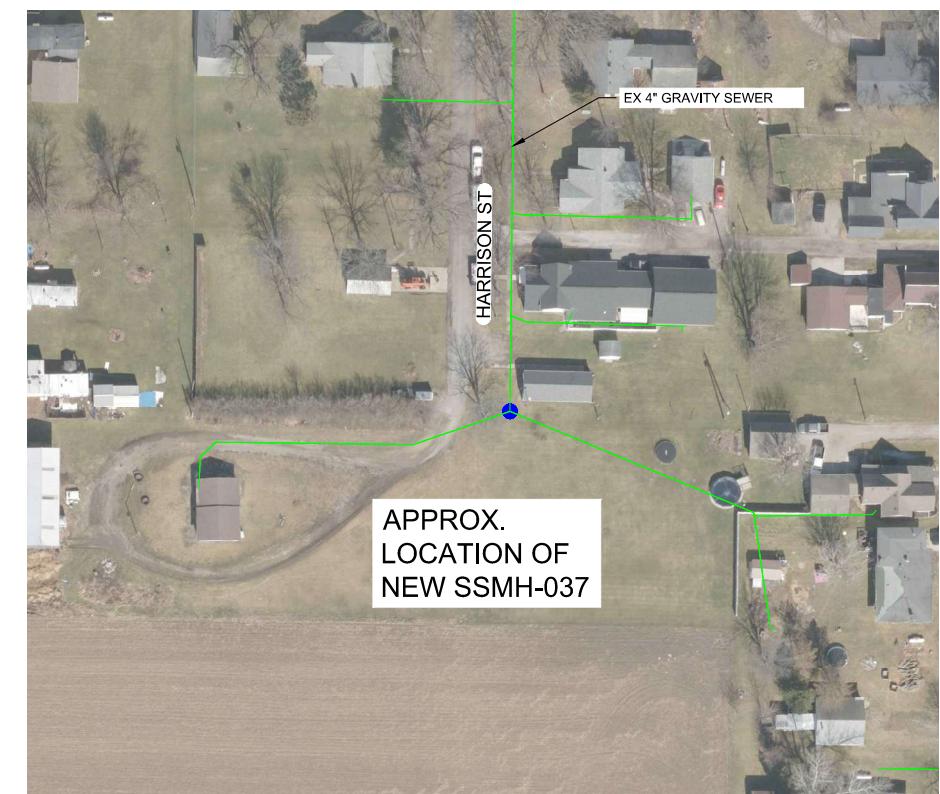
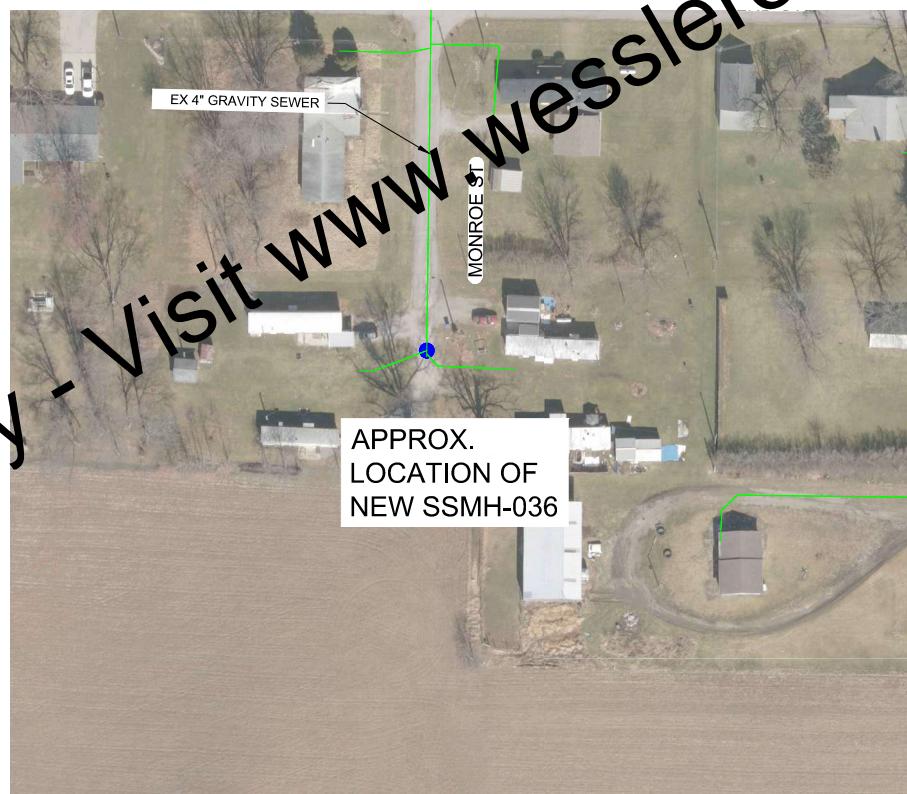
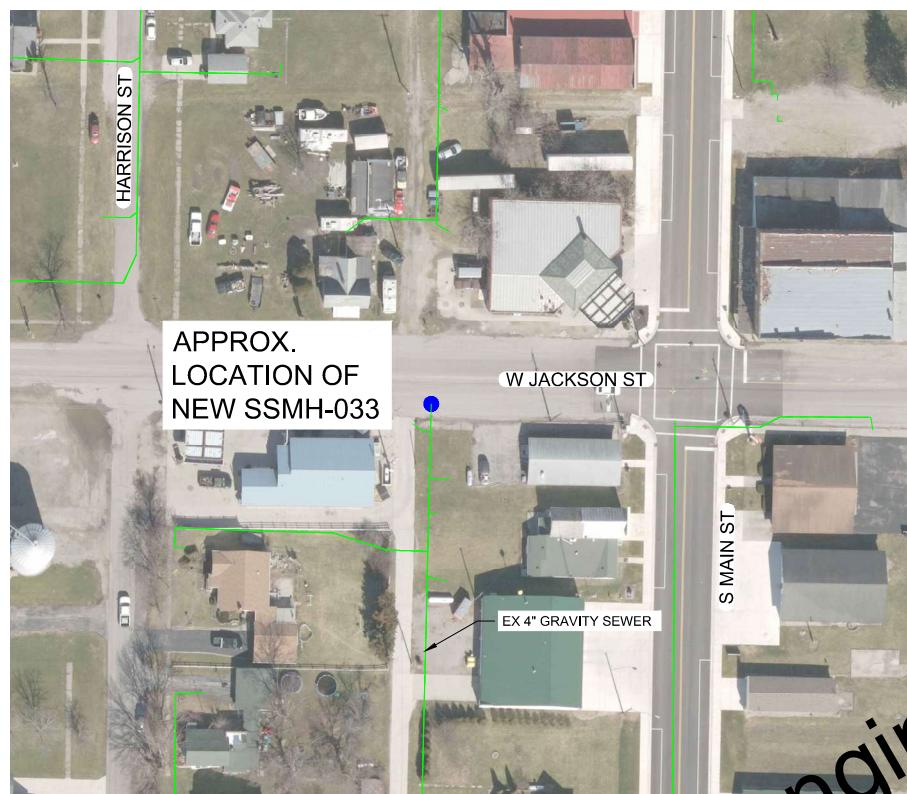
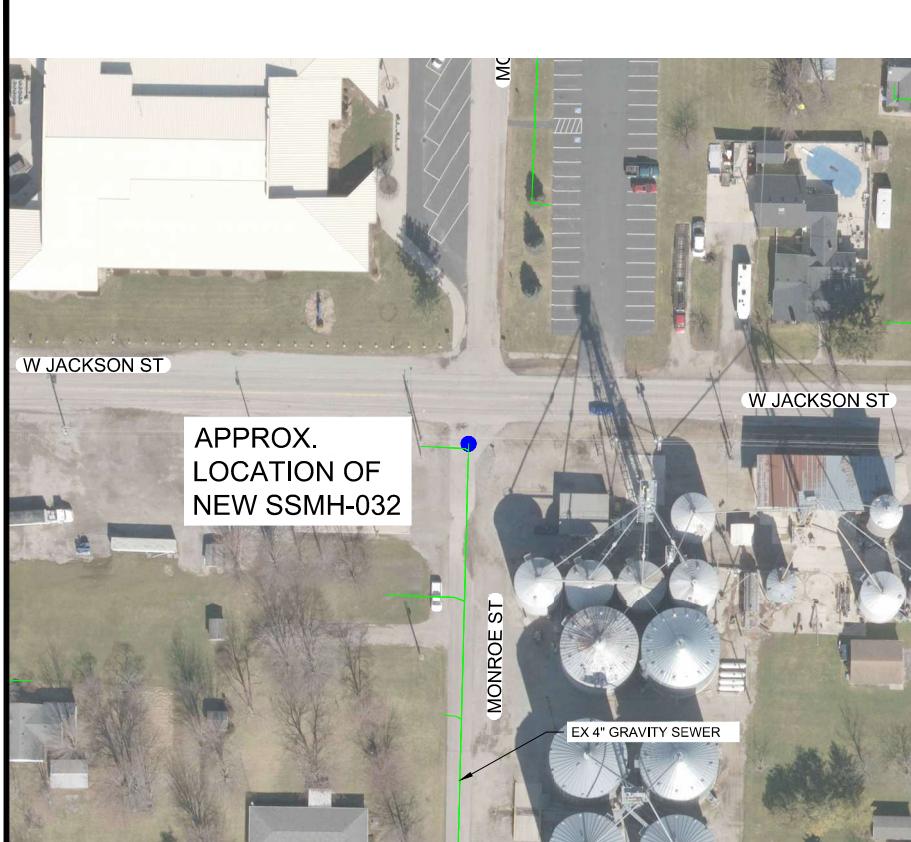


LEGEND

- NEW MANHOLE
- EX MANHOLE
- SANITARY SEWER GRAVITY MAIN
- SANITARY SEWER FORCEMAIN

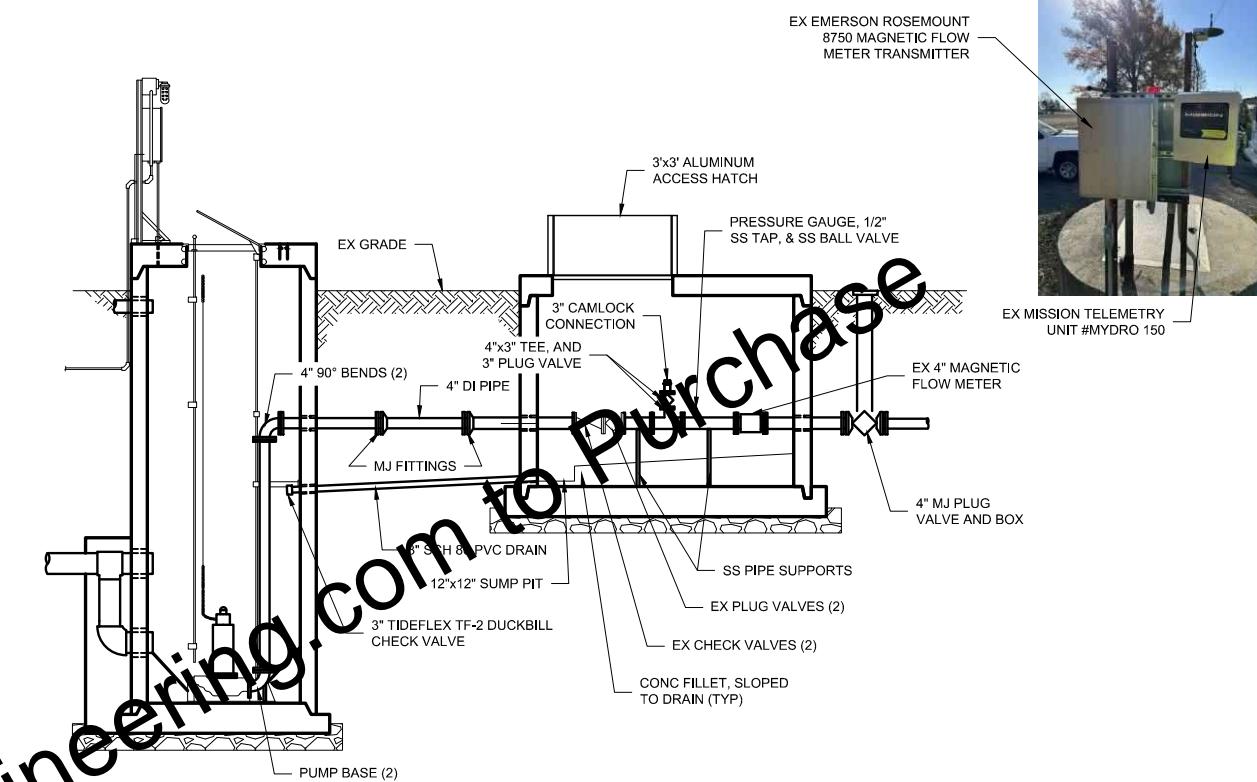
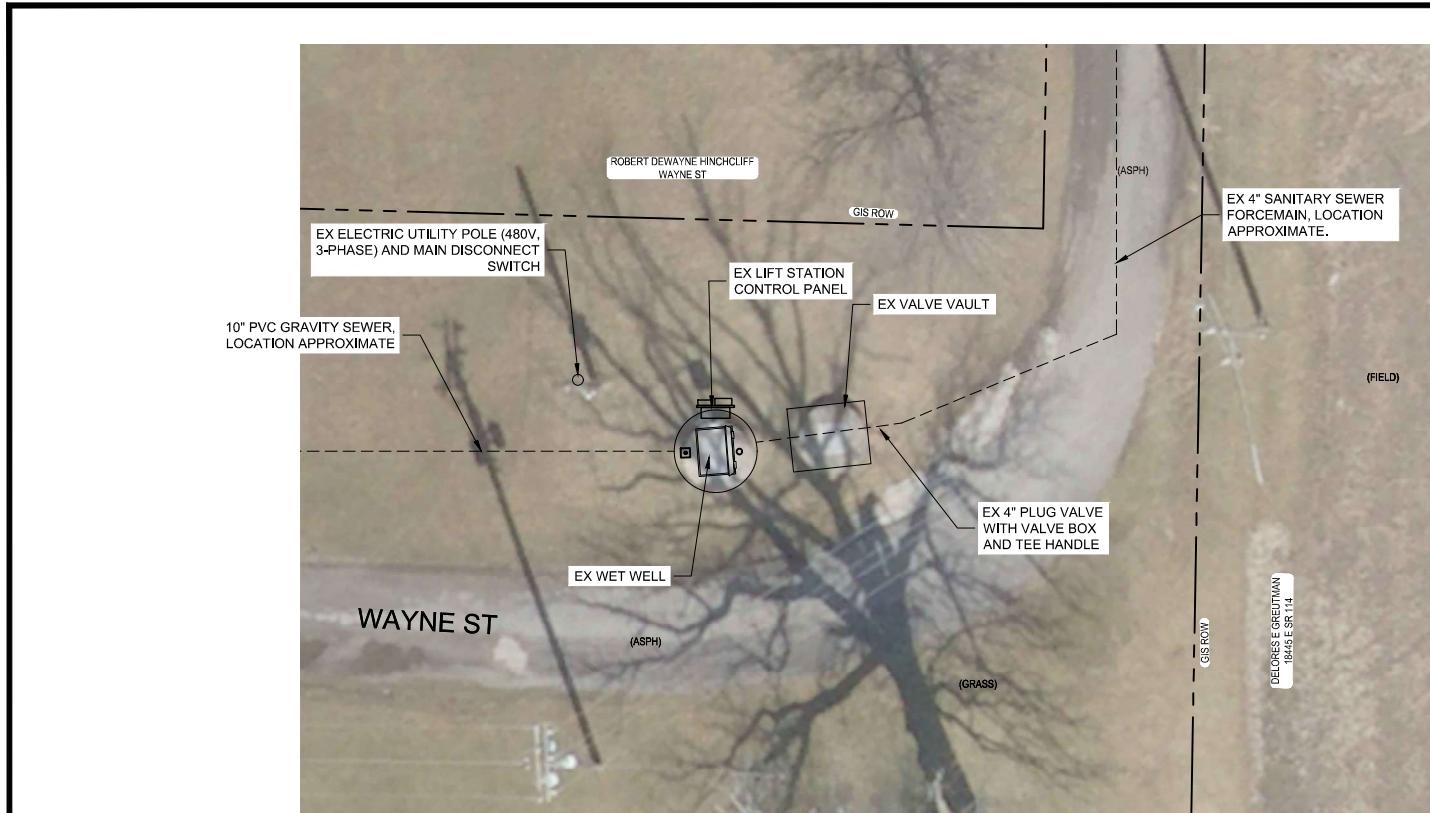


NOTE:
1. CONTRACTOR TO CONFIRM NEW MANHOLE LOCATIONS WITH ENGINEER PRIOR TO INSTALLATION



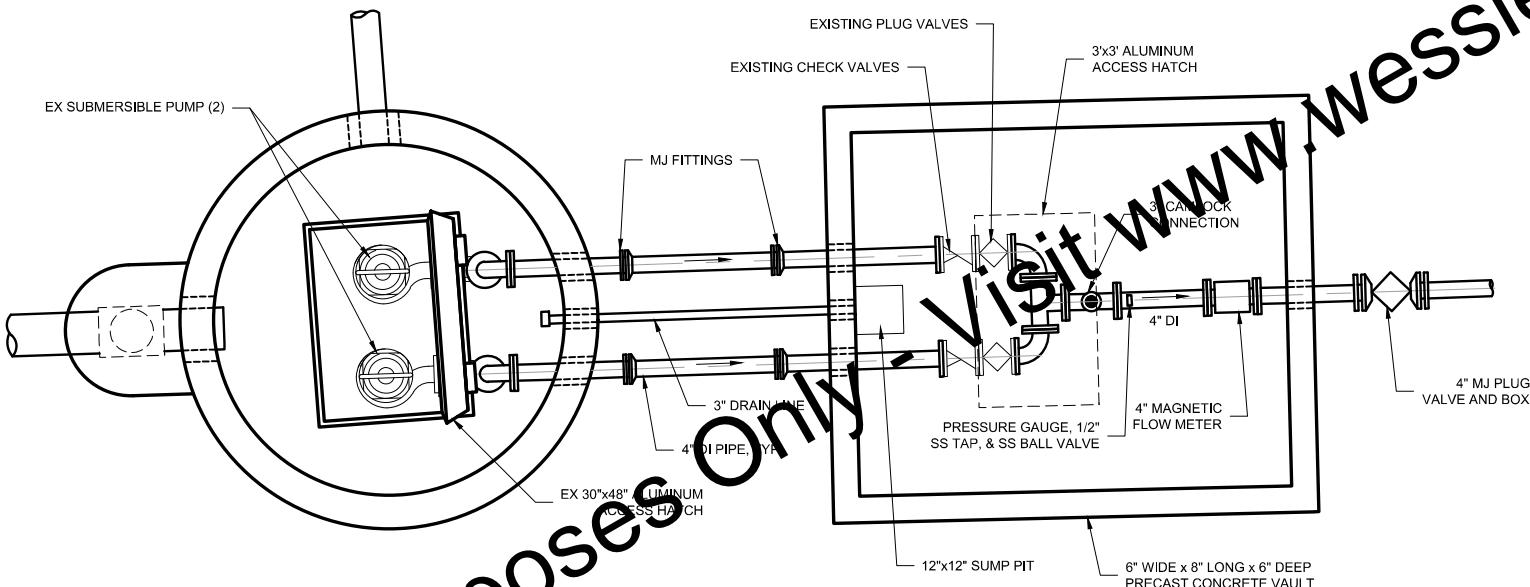
LEGEND

- NEW MANHOLE (Blue dot)
- EX MANHOLE (Yellow dot)
- SANITARY SEWER GRAVITY MAIN (Orange line)
- SANITARY SEWER FORCEMAIN (Green line)



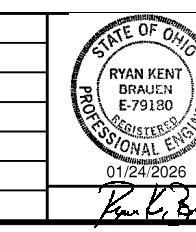
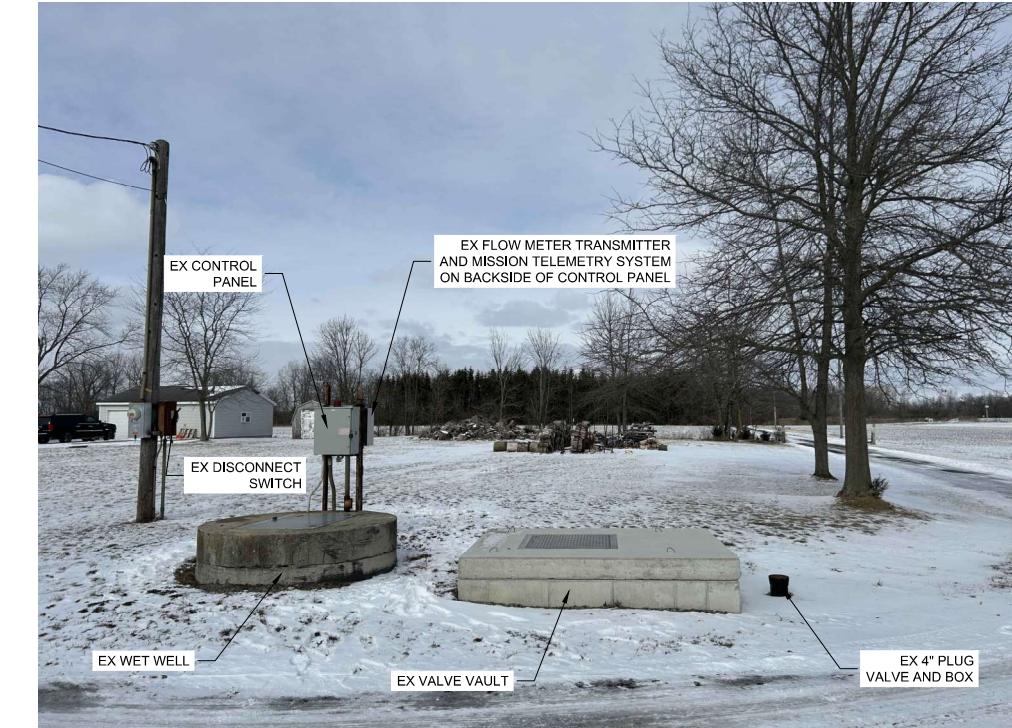
EXISTING LIFT STATION SITE PLAN

SCALE: 1" = 10'



PLAN - EXISTING LIFT STATION

SCALE: NONE



2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2

VILLAGE OF GROVER HILL, OHIO

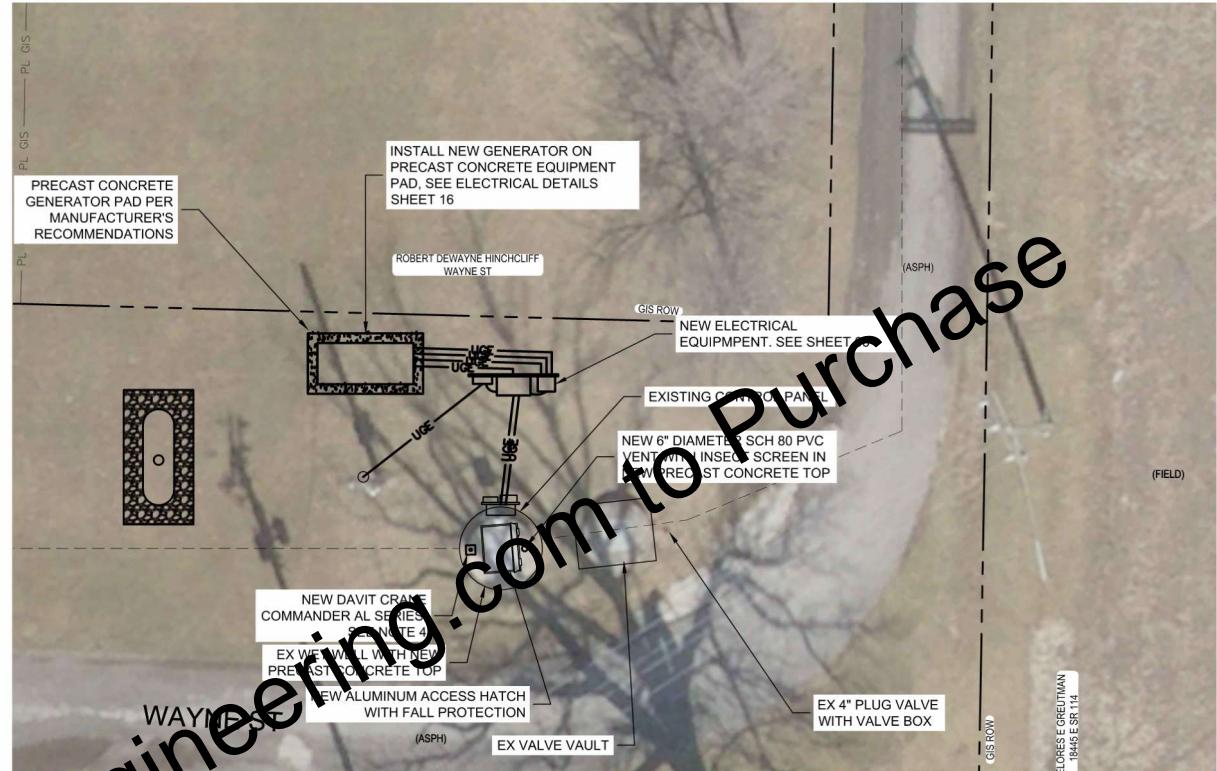
WAYNE STREET LS - EXISTING SITE PLAN AND SECTION

SHEET NO

06

TOTAL SHEETS

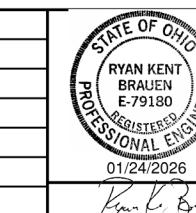
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SECTION - LIFT STATION MODIFICATIONS

SCALE: NON

SCALE VERIFICATION	DRAWN BY	MTF	NO.	DATE	INITIALS	REVISION DESCRIPTION
BAR IS ONE INCH LONG ON ORIGINAL DRAWING [REDACTED]	CHECKED BY	AAB				
	APPROVED BY	RKB				
	ISSUE DATE					
	JANUARY 2026					
	PROJECT NUMBER					
	706524-04-001					





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2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2

VILLAGE OF GROVER HILL, OHIO

WAYNE STREET LS - NEW SITE PLAN & MODIFICATIONS PLAN & SECTION

SHEET NO.
07
TOTAL SHEETS
18

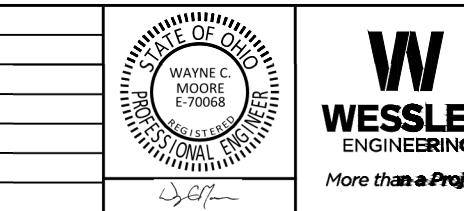


For Viewing Purposes Only - Visit www.wesslerengineering.com to Purchase

NEW LIFT STATION ELECTRICAL SITE PLAN

SCALE: 1" = 5'

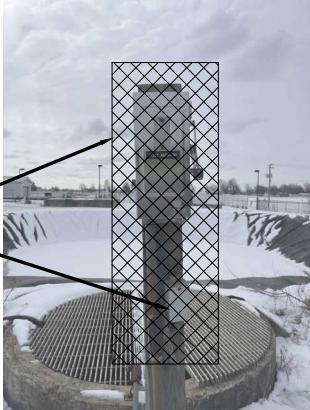
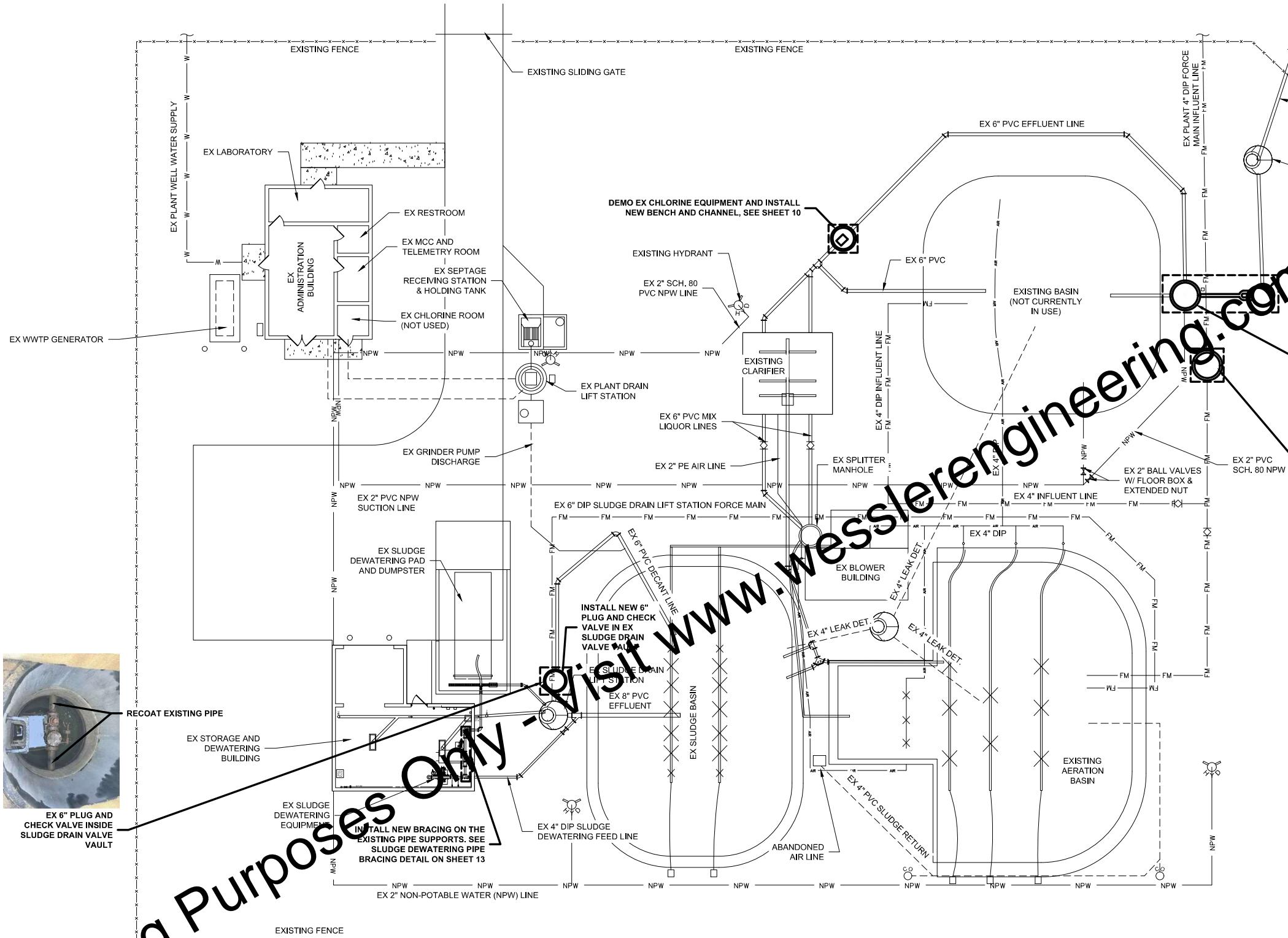
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BAR IS ONE INCH LONG ON ORIGINAL DRAWING		JLK				
		WCM				
						ISSUE DATE
						JANUARY 2026
						PROJECT NUMBER
						706524-04-001



2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2
VILLAGE OF GROVER HILL, OHIO
WAYNE STREET LS - NEW ELECTRICAL SITE PLAN

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SHEET NO.
08
TOTAL SHEETS
18



WWTP - DEMO AND MODIFIED SITE PLA

SCALE: NONE

2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2

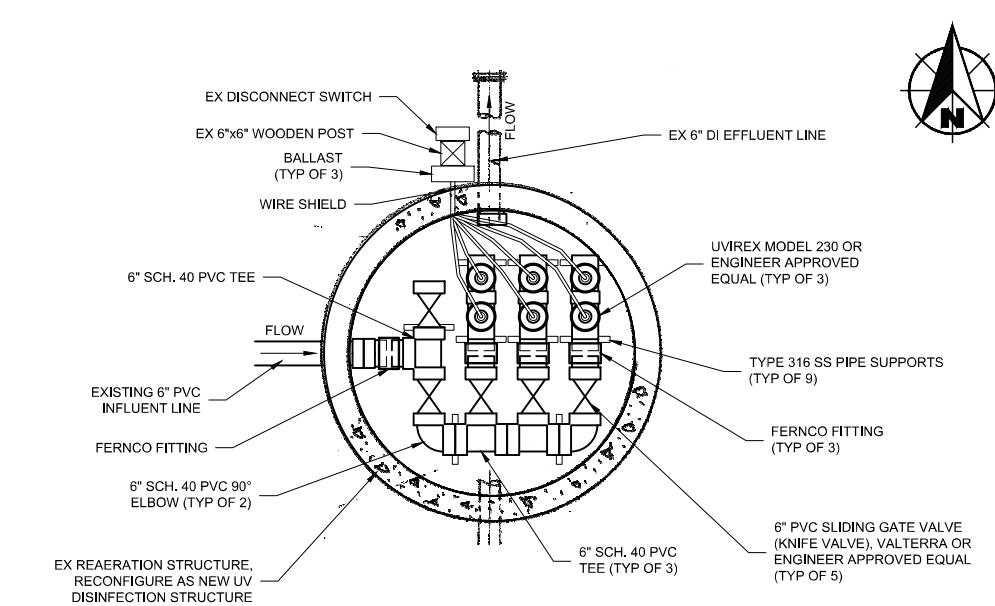
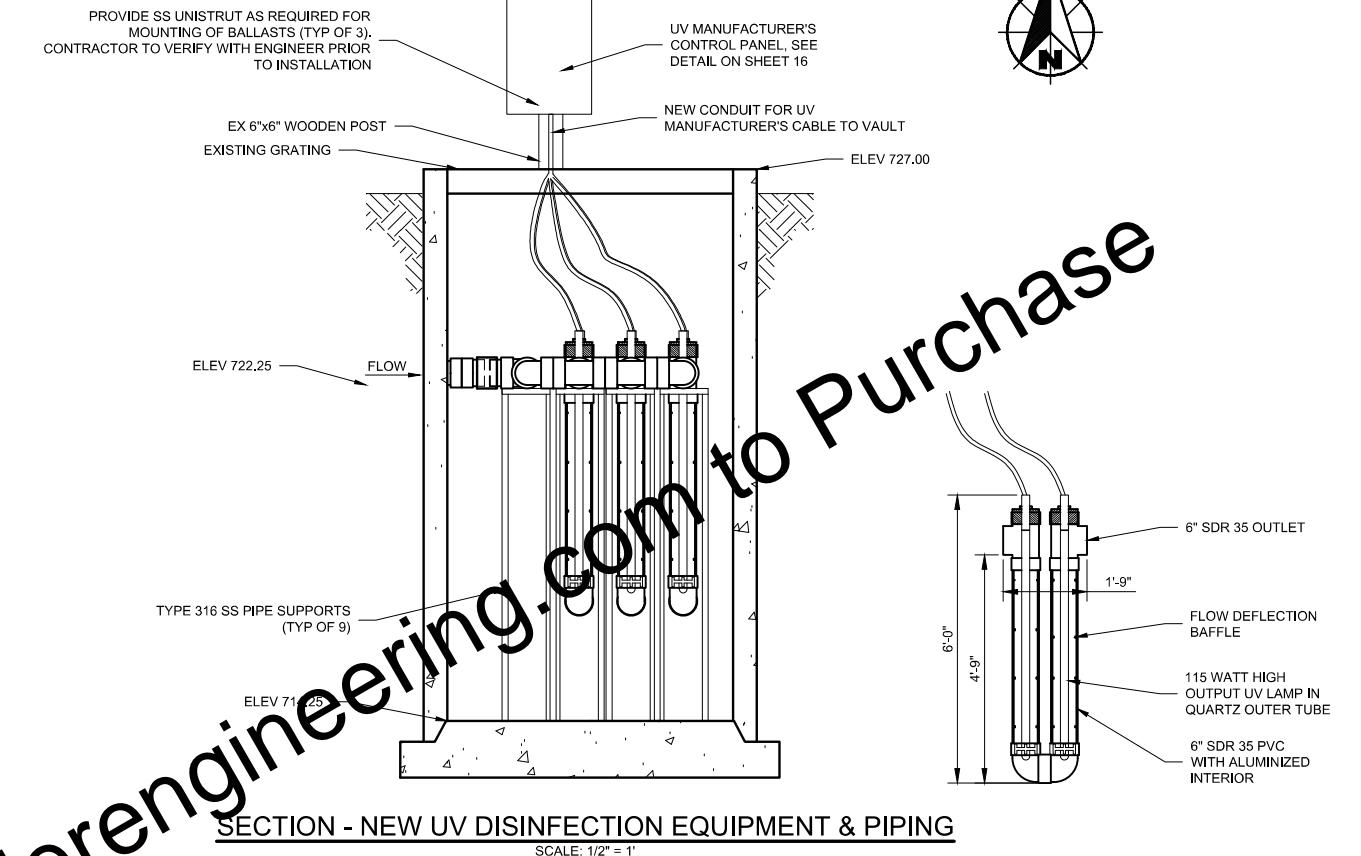
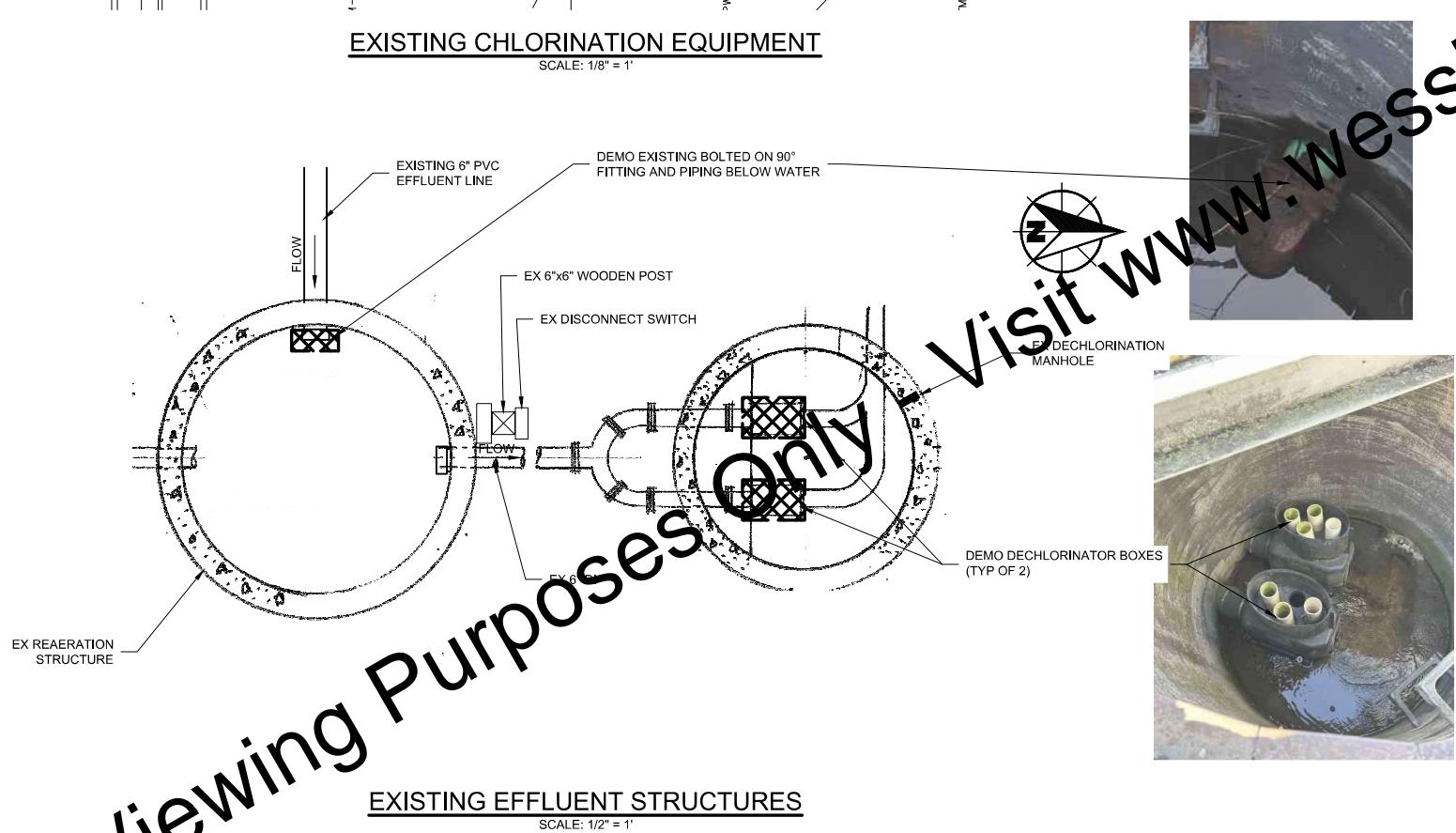
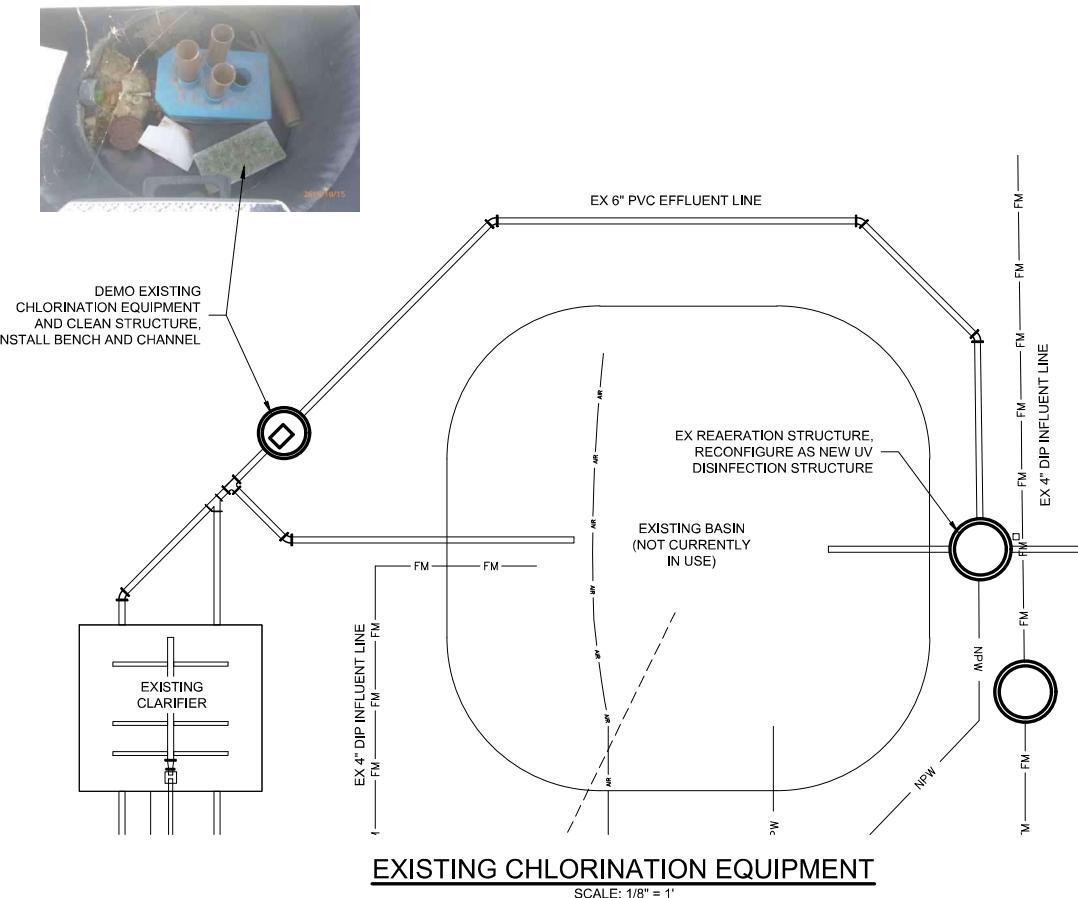
VILLAGE OF GROVER HILL, OHIO

WWTP - DEMO AND MODIFIED SITE PLAN

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BAR IS ONE INCH LONG ON ORIGINAL DRAWING [REDACTED]	CHECKED BY	AAB				
	APPROVED BY	RKB				
	ISSUE DATE					
	JANUARY 2026					
	PROJECT NUMBER					
	706524-04-001					

SHEET NO.
09

TOTAL SHEETS
18



NOTES:

- CONTRACTOR TO PROVIDE AND INSTALL THREE (3) WINELCO, INC - UVIREX MODEL 230 ULTRAVIOLET DISINFECTION UNITS IN PARALLEL (OR ENGINEER APPROVED EQUAL). CONTRACTOR TO ALSO PROVIDE MANUFACTURER'S OPERATION & MAINTENANCE MANUALS AND MATERIALS, SIX (6) 'EAST PULL' HANDLES, SIX (6) REPLACEMENT UV LAMPS IN QUARTZ OUTER TUBES, AND TWO (2) REPLACEMENT BALLASTS. CONTRACTOR SHALL BEAR ALL EXPENSES ASSOCIATED WITH THE START-UP, TESTING, AND TRAINING PROCEDURES INCLUDING LABOR, TRANSPORTATION, AND MATERIAL COSTS.
- CONTRACTOR TO CONFIRM NEW ULTRAVIOLET DISINFECTION SYSTEM PIPE SIZING AND PIPE CONFIGURATION WITHIN THE RECONFIGURED UV DISINFECTION STRUCTURE WITH ENGINEER PRIOR TO INSTALLATION.
- ELEVATIONS SHOWN IN SECTION - NEW UV DISINFECTION EQUIPMENT & PIPING ARE BASED ON THE 1989 GROVER HILL PLANS.
- ALL FASTENERS AND SUPPORTS SHALL BE STAINLESS STEEL.
- LEVEL UV SYSTEM TO ENSURE BALANCED FLOW.

SCALE VERIFICATION		DRAWN BY	MTF	NO.	DATE	INITIALS	REVISION DESCRIPTIONS	
BAR IS ONE INCH LONG ON ORIGINAL DRAWING			AAB					
CHECKED BY		RKB						
APPROVED BY								
ISSUE DATE								
JANUARY 2026								
PROJECT NUMBER								
706524-04-001								



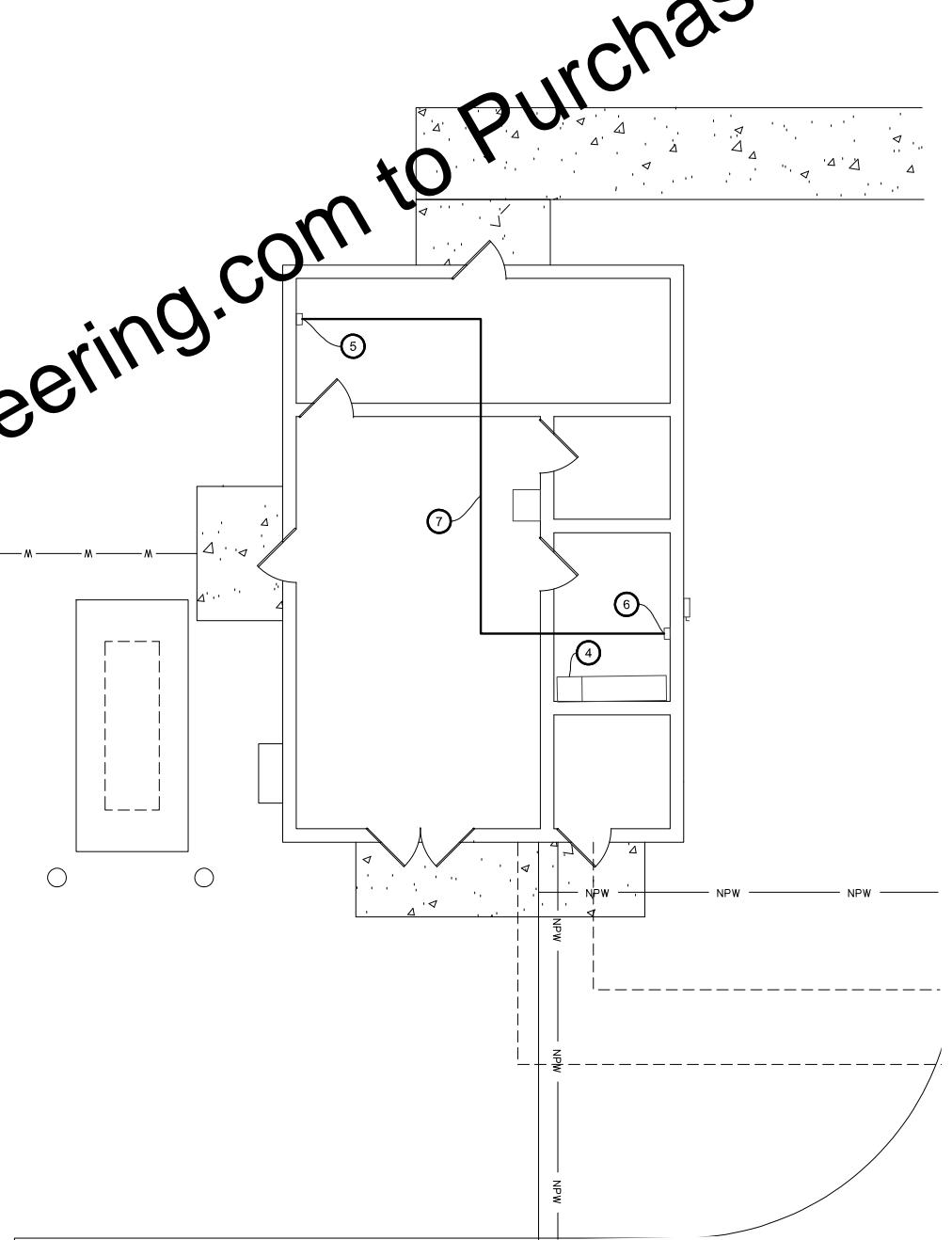
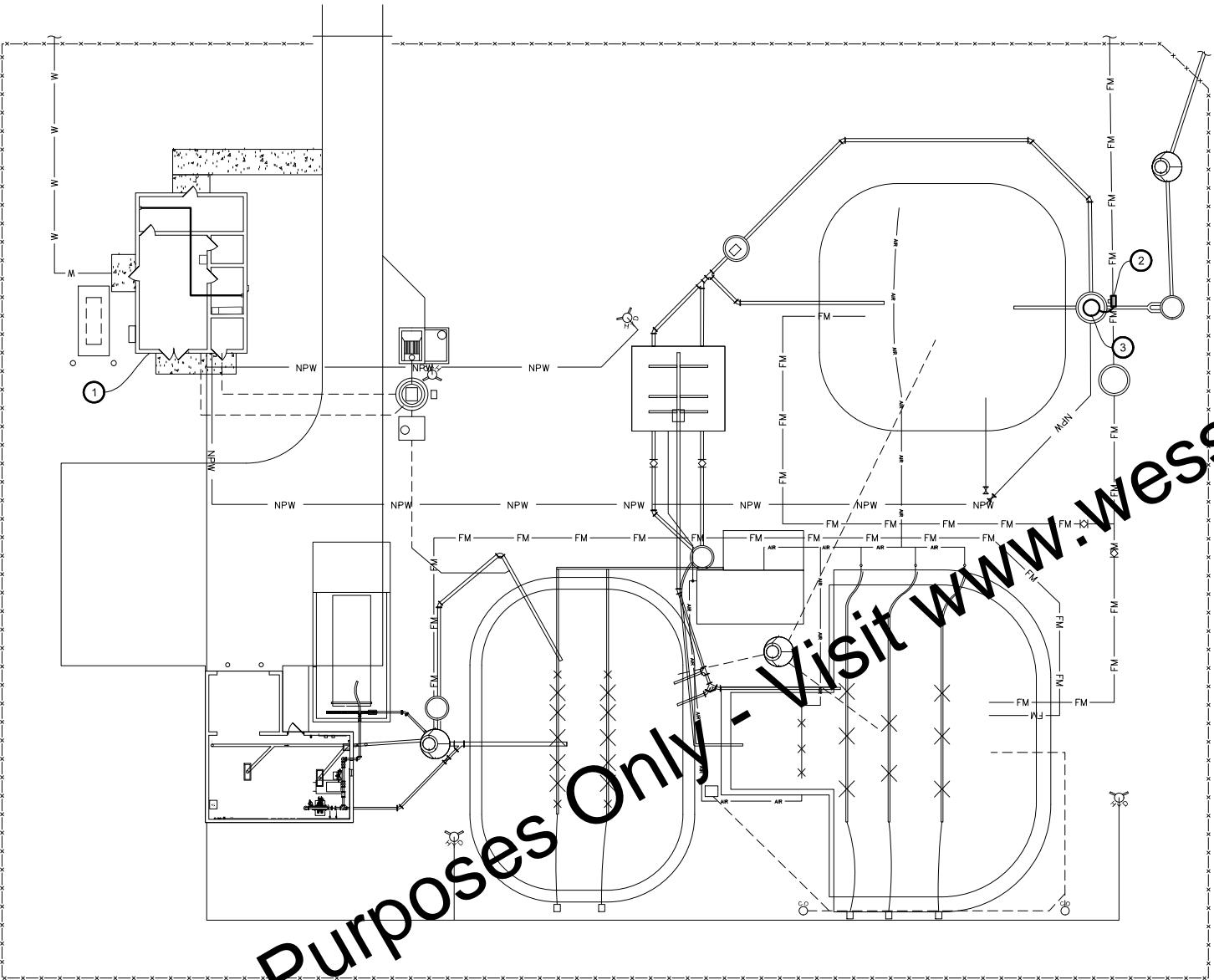
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2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2
VILLAGE OF GROVER HILL, OHIO
WWTP - UV DISINFECTION SYSTEM PLAN AND DETAILS

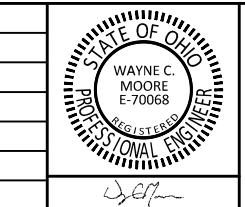
SHEET NO.
10
TOTAL SHEETS
18

KEYED NOTES 

- EXISTING ADMINISTRATION BUILDING.
- NEW UV MANUFACTURER'S PANEL ON EXISTING POST. SEE SHEET 10 AND DETAIL ON SHEET 16. EXISTING 120V RECEPTACLE AND DISCONNECT TO BE REMOVED AS SHOWN ON SHEET 09.
- NEW UV EQUIPMENT IN MANHOLE.
- IDENTIFY 120V CIRCUIT THAT FEEDS NEW UV EQUIPMENT AND RELABEL CIRCUIT IN PANEL. 120V PANEL IS LOCATED WITHIN EXISTING MCC.
- EXISTING PAPER CHART RECORDER.
- EXISTING MISSION NODE.
- EXISTING 4-20MA SIGNAL COMES FROM EFFLUENT FLOW METER/TRANSMITTER TO PAPER CHART RECORDER. SIGNAL TO BE EXTENDED TO MISSION NODE BY RUNNING IT IN SERIES THROUGH THE TWO DEVICES. WIRING DIAGRAM PROVIDED ON SHEET 20.



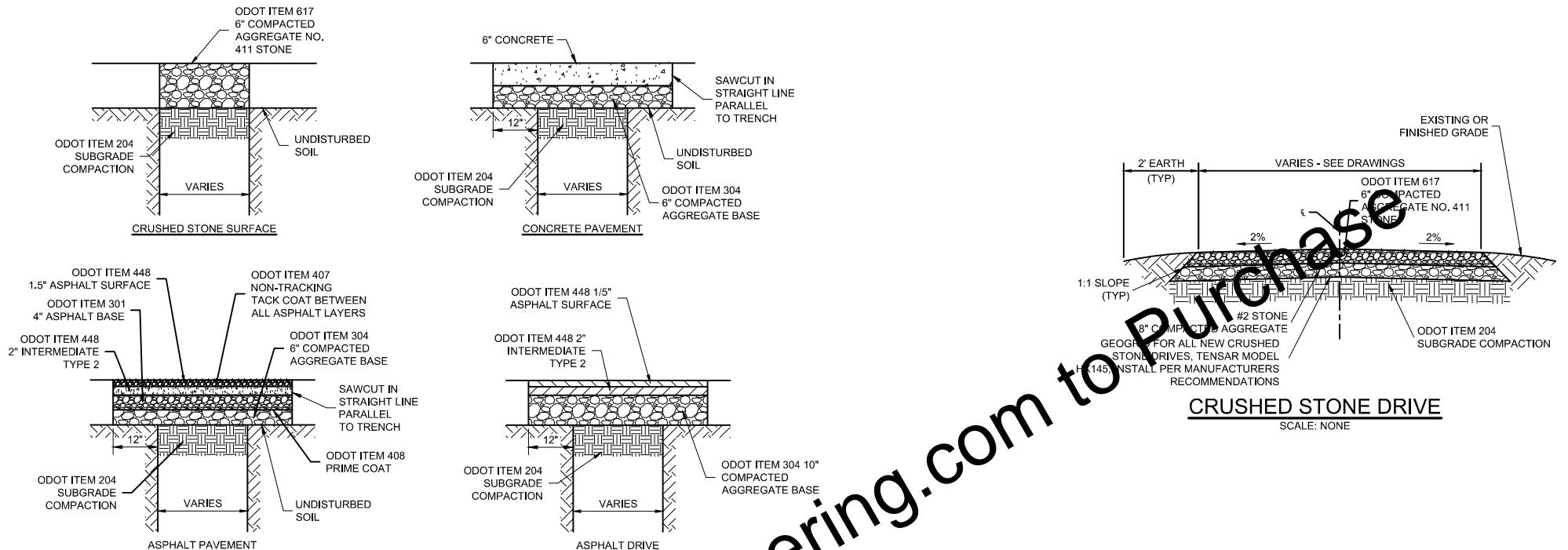
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		APPROVED BY	WCM					
		ISSUE DATE						
		JANUARY 2026						
		PROJECT NUMBER						
		706524-04-001						



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2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2
VILLAGE OF GROVER HILL, OHIO
WWTP - ELECTRICAL SITE PLAN

SHEET NO.
11
TOTAL SHEETS
18



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 (AADT) 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

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 (55 LB/ACRE ANNUAL RYEGRASS, 142 LB/ACRE PERENNIAL RYEGRASS, 17 LB/ACRE CREEPING RED FESCUE, 17 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 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 STRAWHAY (2 TONS/ACRE) OR WOOD CELLULOSE FIBER (750 LB/ACRE) OR WOOD MULCH/CHIPS (10 TONS/ACRE)

NOTES:

1. NEW BRACING IS TO MATCH EXISTING BRACE AND PIPE SUPPORT MATERIAL
2. ALL FASTENERS SHALL BE STAINLESS STEEL
3. ADDITIONAL BRACING FROM WHAT IS SHOWN MAY BE REQUIRED TO PREVENT PIPE MOVEMENT

NOTES:

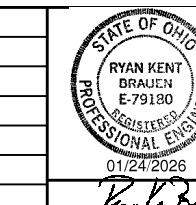
1. IRRIGATION NEEDED DURING MAY THROUGH SEPTEMBER.
2. IRRIGATION NEEDED FOR 2 TO 4 WEEKS AFTER APPLYING SOD.
3. ANCHORED MULCH IS REQUIRED FOR PERMANENT, DORMANT AND TEMPORARY SEEDING.
4. OPTIMUM SEEDING DATES PROVIDED. DATES MAY BE EXTENDED OR SHORTENED BASED ON PROJECT LOCATION.
5. SEED MIXTURES PROVIDED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

MAINTENANCE:

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

SLUDGE DEWATERING PIPE BRACING DETAIL

SCALE: NONE



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2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2

VILLAGE OF GROVER HILL, OHIO

MISCELLANEOUS DETAILS

SHEET NO.

13

TOTAL SHEETS

18

LIGHTING

A	#	SURFACE/PENDANT MOUNTED LIGHT Fixture letter denotes type, # denotes circuit, shading denotes emergency and/or night light
A	#	SURFACE/PENDANT MOUNTED LIGHT Fixture letter denotes type, # denotes circuit, shading denotes emergency and/or night light
A	#	RECESS MOUNTED LIGHT FIXTURE LETTER DENOTES TYPE, # DENOTES CIRCUIT, SHADING DENOTES EMERGENCY AND/OR NIGHT LIGHT
A	#	RECESS MOUNTED LIGHT FIXTURE LETTER DENOTES TYPE, # DENOTES CIRCUIT, SHADING DENOTES EMERGENCY AND/OR NIGHT LIGHT
A	#	H.I.D. OR INCANDESCENT FIXTURE CEILING MOUNTED LETTER DENOTES TYPE, # DENOTES CIRCUIT
A	# OR A	WALL MOUNTED FIXTURE LETTER DENOTES TYPE, # DENOTES CIRCUIT
P		WALL MOUNTED PHOTOCELL
X		CEILING MOUNTED EXIT SIGN
X		WALL MOUNTED EXIT SIGN
V	#	EMERGENCY LIGHT FIXTURE # DENOTES CIRCUIT
□		POLE MOUNTED FIXTURE
<u>RECEPTACLE</u>		
#	⊖	DUPLEX RECEPTACLE SUBSCRIPT DENOTES TYPE: UPS DENOTES UNINTERRUPTIBLE POWER SUPPLY # DENOTES CIRCUIT
⊖		SINGLE OUTLET RECEPTACLE
⊖	○	SPECIAL PURPOSE OUTLET
⊖	⊖	MULTI-OUTLET RECEPTACLE SINGLE
⊖	⊖	MULTI-OUTLET RECEPTACLE DUPLEX
●		240 VOLT RECEPTACLE
<u>PANELS AND BOXES</u>		
JB		JUNCTION BOX
PB		PULL BOX
□		PANEL
<u>HVAC AND FIRE ALARM</u>		
□		FIRE ALARM PULL STATION
□		FIRE ALARM CONTROL PANEL
□		ANNUNCIATOR
□		HORN/LIGHT DEVICE
DD		DUCT DETECTOR
⑤	Z	SMOKE DETECTOR SUBSCRIPT DENOTES TYPE: Z DENOTES IONIZATION P DENOTES PHOTOELECTRIC T DENOTES THERMAL
T		THERMOSTAT
R		AMBIENT TEMPERATURE TRANSMITTER
□		UNIT HEATER
□	#	WALL MOUNTED GAS DETECTION FIXTURE
<u>SWITCHES</u>		
\$	3	WALL SWITCH SUBSCRIPT DENOTES TYPE: NO SUBSCRIPT DENOTES SINGLE POLE 3 DENOTES 3 WAY M DENOTES MANUAL 4 DENOTES 4 WAY MOTOR STARTER
□		MOTOR STARTER
□		COMBINATION MOTOR STARTER
□		DISCONNECT SWITCH
□		FUSED DISCONNECT SWITCH
LS		DUCT LIMIT SWITCH
□		LOCAL CONTROL STATION
SS		SPEED SWITCH

WIRING

→	CONDUIT HOME RUN
—	CONDUIT EXPOSED
- - -	CONDUIT CONCEALED
—	FLEXIBLE CONDUIT
H O A	3-POSITION SELECTOR SWITCH HAND - OFF - AUTO
START	PUSHBUTTON SWITCH N.O. TEXT DENOTES LEGEND PLATE
STOP	PUSHBUTTON SWITCH N.C. TEXT DENOTES LEGEND PLATE
E-STOP	MUSHROOM HEAD EMERGENCY STOP PUSHBUTTON SWITCH N.C. MAINTAINED TEXT DENOTES LEGEND PLATE
STOP	PUSHBUTTON SWITCH N.C. WITH LOCK-OUT TEXT DENOTES LEGEND PLATE
○/○	DISCONNECT SWITCH N.O.
○/○	DISCONNECT SWITCH N.C.
TS	TEMPERATURE SWITCH OR THERMOSTAT N.O. TEXT DENOTES TAG NUMBER
TS	TEMPERATURE SWITCH OR THERMOSTAT N.C. TEXT DENOTES TAG NUMBER
PS	PRESSURE SWITCH N.O. TEXT DENOTES TAG NUMBER
PS	PRESSURE SWITCH N.C. TEXT DENOTES TAG NUMBER
LS	LEVEL SWITCH N.O. TEXT DENOTES TAG NUMBER
LS	LEVEL SWITCH N.C. TEXT DENOTES TAG NUMBER
TR	ON DELAY TIMED SWITCH N.O.T.C. TEXT DENOTES TAG NUMBER
TR	ON DELAY TIMED SWITCH N.C.T.O. TEXT DENOTES TAG NUMBER
TR	OFF DELAY TIMED SWITCH N.O.T.O. TEXT DENOTES TAG NUMBER
TR	OFF DELAY TIMED SWITCH N.C.T.C. TEXT DENOTES TAG NUMBER
TS	TORQUE SWITCH TEXT DENOTES TAG NUMBER
LS	LIMIT SWITCH TEXT DENOTES TAG NUMBER
	CONTACT (NORMALLY OPEN) # DENOTES COIL NUMBER
	CONTACT (NORMALLY CLOSED) # DENOTES COIL NUMBER
PTT G	INDICATOR LIGHT - LETTER DENOTES COLOR
ETM	PUSH-TO-TEST INDICATOR LIGHT LETTER DENOTES COLOR
ETM	ELAPSED TIME METER
SV	SOLENOID VALVE
—	MECHANICAL INTERLOCK CONNECTION
M XXX	COIL M DENOTES MOTOR STARTER CR DENOTES CONTROL RELAY TR DENOTES TIME DELAY RELAY LC DENOTES LIGHTING CONTACTOR PR DENOTES INTERPOSING PILOT RELAY XXX DENOTES REFERENCE LINE NUMBER

SINGLES LINE

—	EXISTING TO REMAIN
- - -	EXISTING TO BE DEMOLISHED
—	NEW
—	FUTURE

TX-STRUCTURE DESIGNATION
XXX KVA
480-120/208V

3P/4W
TYPE OF TRANSFORMER

50 PROTECTIVE RELAY, NUMBER
DENOTES IEEE DEVICE FUNCTION

1200A 52 MEDIUM VOLTAGE DRAWOUT
CIRCUIT BREAKER

100 A FUSE
XXA DRAWOUT POWER CIRCUIT BREAKER

XXA MOLDED CASE CIRCUIT BREAKER

600:5A 3(3) THERMAL OVERLOAD RELAY
480-120V (3) GROUND

600:5A 3(3) CURRENT TRANSFORMER NUMBER
DENOTES QUANTITY

30 3W ATS 800A AUTOMATIC OR MANUAL
TRANSFER SWITCH
MOTOR NUMBER DENOTES
HORSEPOWER

XXKw 480V,30.4W GENERATOR XX NUMBER DENOTES
REQUIRED KW RATING AND
VOLTAGE

EQUIPMENT/DEVICE LOCATION SYMBOLS

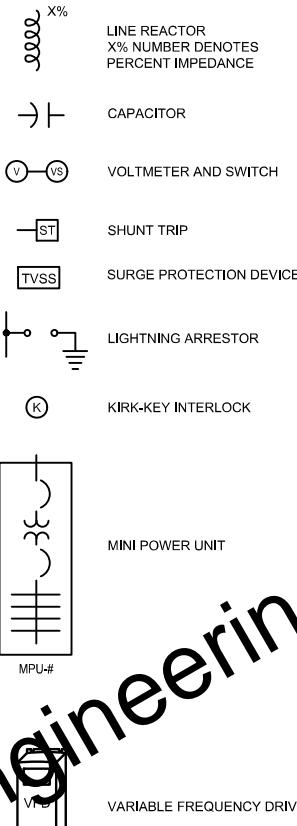
*	LOCATED AT MCC, COMBINATION STARTER, OR BYPASS STARTER
△	LOCATED IN FIELD
○ ₁	LOCATED AT DCU 1A REMOTE I/O RACK
□	LOCATED AT VFD

MISC PLAN VIEW SYMBOLS

E OR ●	EQUIPMENT CONNECTION
○	GROUND ROD
□	INSTRUMENT TRANSMITTER

COMMUNICATIONS

▽	TELEPHONE OR NETWORK DROP
▽	ETHERNET JACK

SINGLES LINE, CONT'D.SITE DUCTBANKS

UGC	UNDERGROUND CONTROL
UE	UNDERGROUND ELECTRICAL
UGC	UNDERGROUND CONTROLS CABLE

UGF	UNDERGROUND FIBER
-----	-------------------

UHF	UNIT HEATER
-----	-------------

UL	UNDERWRITERS LABORATORIES
----	---------------------------

UNO	UNLESS NOTED OTHERWISE
-----	------------------------

V	VOLTS
---	-------

VFD	VARIABLE FREQUENCY DRIVE
-----	--------------------------

VM	VOLTMETER
----	-----------

VS	VOLTMETER SWITCH
----	------------------

W	WIRE/WATT
---	-----------

WH	WATER HEATER
----	--------------

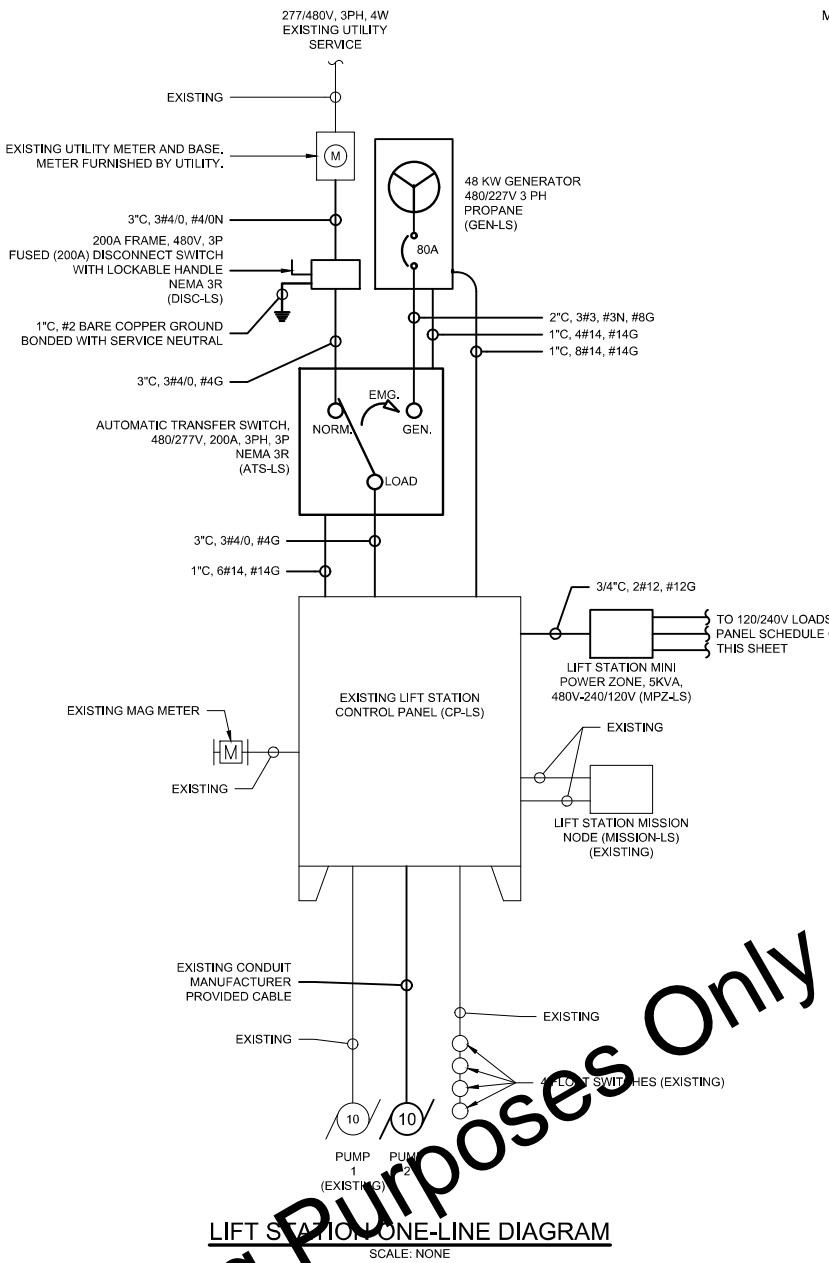
WP	WEATHERPROOF
----	--------------

XFMR	TRANSFORMER
------	-------------

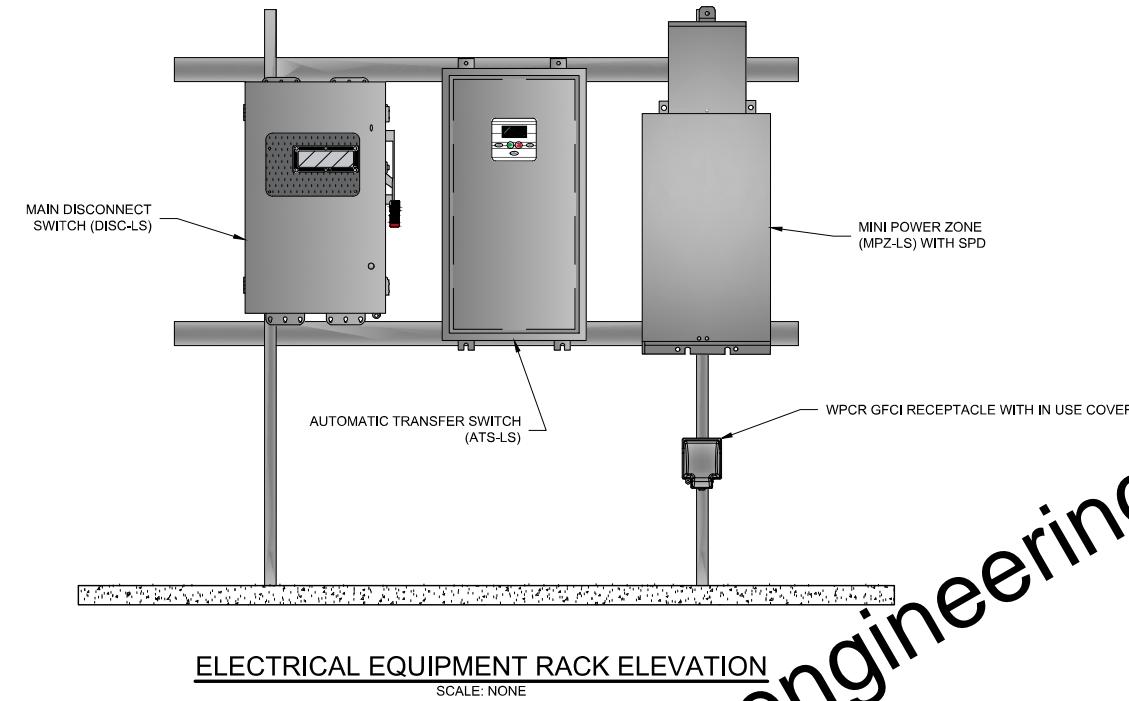
LV	LOW VOLTAGE
----	-------------

ABBREVIATIONS

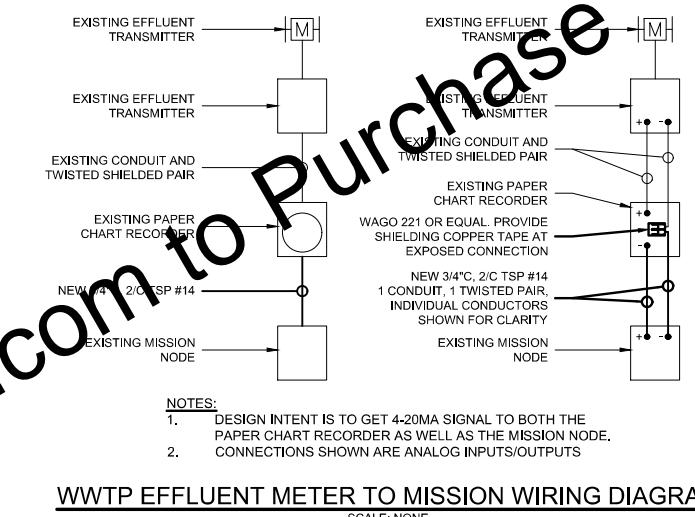
A	AMPERE(S)	MANUFACTURER SUPPLIED (EX. MAN-CP)
ACU	AIR CONDITIONING UNIT	MAU MAKEUP AIR UNIT
AE	ANALYTICAL SENSOR	MCC MOTOR CONTROL CENTER
AF	AMP FRAME	MH MANHOLE
AFF	ABOVE FINISHED FLOOR	MOL MOTOR OPERATED LOUVER
AHU	AIR HANDLING UNIT	MPU MINI POWER UNIT
AIT	ANALYTICAL INDICATOR TRANSMITTER	MV MEDIUM VOLTAGE
AM	AMMETER	N NEUTRAL
AMP	AMPERE(S)	N/A NOT APPLICABLE
AT	AMP TRIP	N.C. NORMALLY CLOSED
ATL	ACROSS THE LINE (STARTER)	IEC NATIONAL ELECTRICAL CODE
ATS	AUTOMATIC TRANSFER SWITCH	NET NETWORK (PANEL)
AUX	AUXILIARY	NF NON-FUSED
AWG	AMERICAN WIRE GAUGE	NFSS NON-FUSED SAFETY SWITCH
BKR	BREAKER	N.O. NORMALLY OPEN
BLDG	BUILDING	NTS NOT TO SCALE
C	CONDUIT	OL OVERLOAD
CB	CIRCUIT BREAKER	PB PUSHBUTTON
CKT	CIRCUIT	PLC PROGRAMMABLE LOGIC CONTROLLER
CMS	COMBINATION MOTOR STARTER	PM POWER METER/MONITOR
CP	CONTROL PANEL	PNL PANEL
CR	COR	



LIFT STATION ONE-LINE DIAGRAM
SCALE: NONE



ELECTRICAL EQUIPMENT RACK ELEVATION
SCALE: NONE



WWTP EFFLUENT METER TO MISSION WIRING DIAGRAM
SCALE: NONE

GENERAL NOTES:

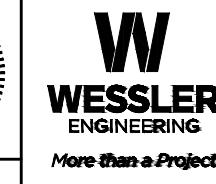
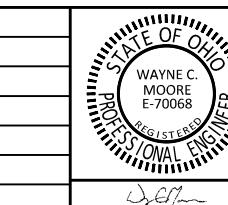
1. ALL NEW ELECTRICAL ENCLOSURES TO BE NEMA 3R.

CONDUIT AND WIRE:

- 1 3/4", #12, #12N, #12G
- 2 3/4", 2#12, #12N, #12G
- 3 3/4", 2#10, #10G

PANEL SCHEDULE		DESIGNATION: MPZ-LS			MAINS: 20 AMP MAIN CIRCUIT BREAKER					
		LOCATION: LIFT STATION			BUS SIZE: 30 AMP					
		VOLTAGE: 120/240 V AC			ENCLOSURE RATING: 3R - 5KVA					
		PHASE: 1 PHASE, 3 WIRE			ALL BREAKERS: 18000 A.I.C. (MINIMUM)					
CKT. NO.	LOAD DESCRIPTION	#	KVA	CKT. BKR.	KVA	CKT. BKR.	LOAD DESCRIPTION			
1	GENERATOR MISC LOAD 1	2	1.00	20	2	1.50	20 AMP MAIN CIRCUIT BREAKER			
3			1.00			1.50	20 AMP MAIN CIRCUIT BREAKER			
5	CONVENIENCE RECEPTACLE	1	0.50	20	1	0.50	20 AMP MAIN CIRCUIT BREAKER			
7	SPARE			20	1	0.00	SPARE			
9	SPARE			20	1	0.00	SPARE			
11	SPARE			20	1	0.00	SPARE			
13	SPARE			20	1	0.00	SPARE			
15	SPARE			20	1	0.00	SPARE			
		TOTAL CONNECTED LOAD:			2.00	1.50	TOTAL = 3.50 KVA			
# ONE (1) OR TWO (2) DIGIT NUMBERS REFER TO CONDUIT & WIRE SCHEDULE ON THIS SHEET.										
12 1-pole 20A breakers, 1 2-pole 20A breaker, 1 2-pole 30A breaker										

MPZ-LS PANEL SCHEDULE
SCALE: NONE



2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2

VILLAGE OF GROVER HILL, OHIO

ONE LINE DIAGRAMS AND DETAILS

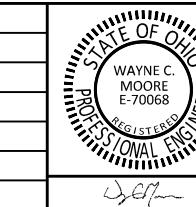
SHEET NO.

15

TOTAL SHEETS

18

SCALE VERIFICATION	DRAWN BY	MTF	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	JLK				
	APPROVED BY	WCM				
	ISSUE DATE					
	JANUARY 2026					
	PROJECT NUMBER					
	706524-04-001					



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2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2

VILLAGE OF GROVER HILL, OHIO

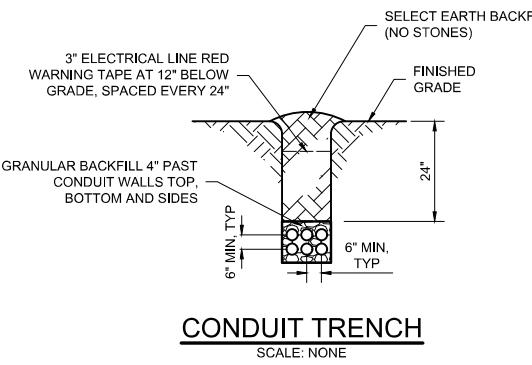
ELECTRICAL DETAILS

SHEET NO.

16

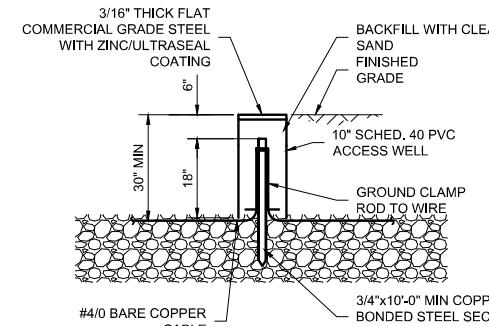
TOTAL SHEETS

18



CONDUIT TRENCH

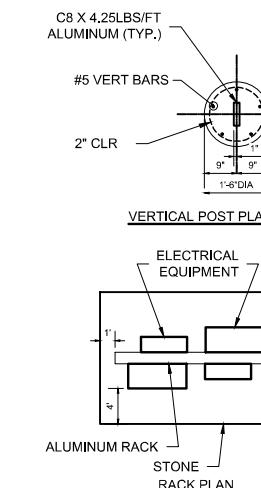
SCALE: NONE



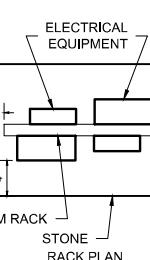
ELECTRICAL INSTALLATION AND GROUND ROD ASSEMBLY

SCALE: NONE

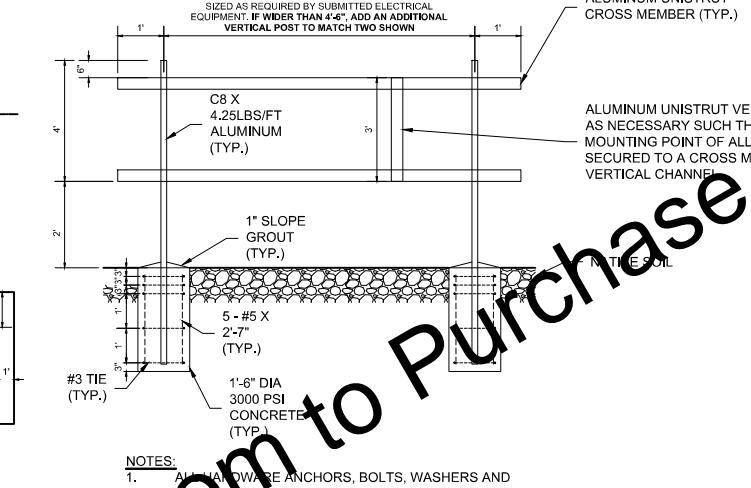
NOTES:
1. REFER TO JOB SPECIFICATION FOR MINIMUM SYSTEM RESISTANCE TO GROUND. IF THE RESISTANCE CANNOT BE MET WITH SINGLE 6'-0" RODS, ADD ADDITIONAL SECTIONS TO RODS OR ADD NEW RODS AS REQUIRED, SPACED 6'-0" TO 10'-0" FROM EXISTING RODS.



VERTICAL POST PLAN

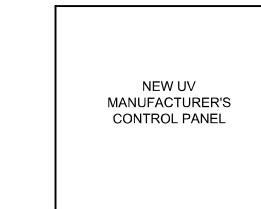


ALUMINUM RACK
STONE
RACK PLAN

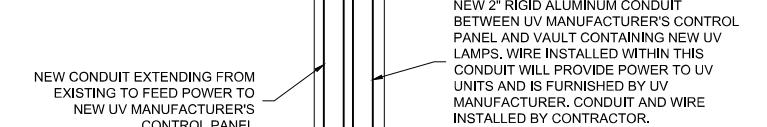


ELECTRICAL EQUIPMENT RACK

SCALE: NONE



NEW UV
MANUFACTURER'S
CONTROL PANEL



EXISTING CONDUIT BACK TO
ADMINISTRATIVE BUILDING

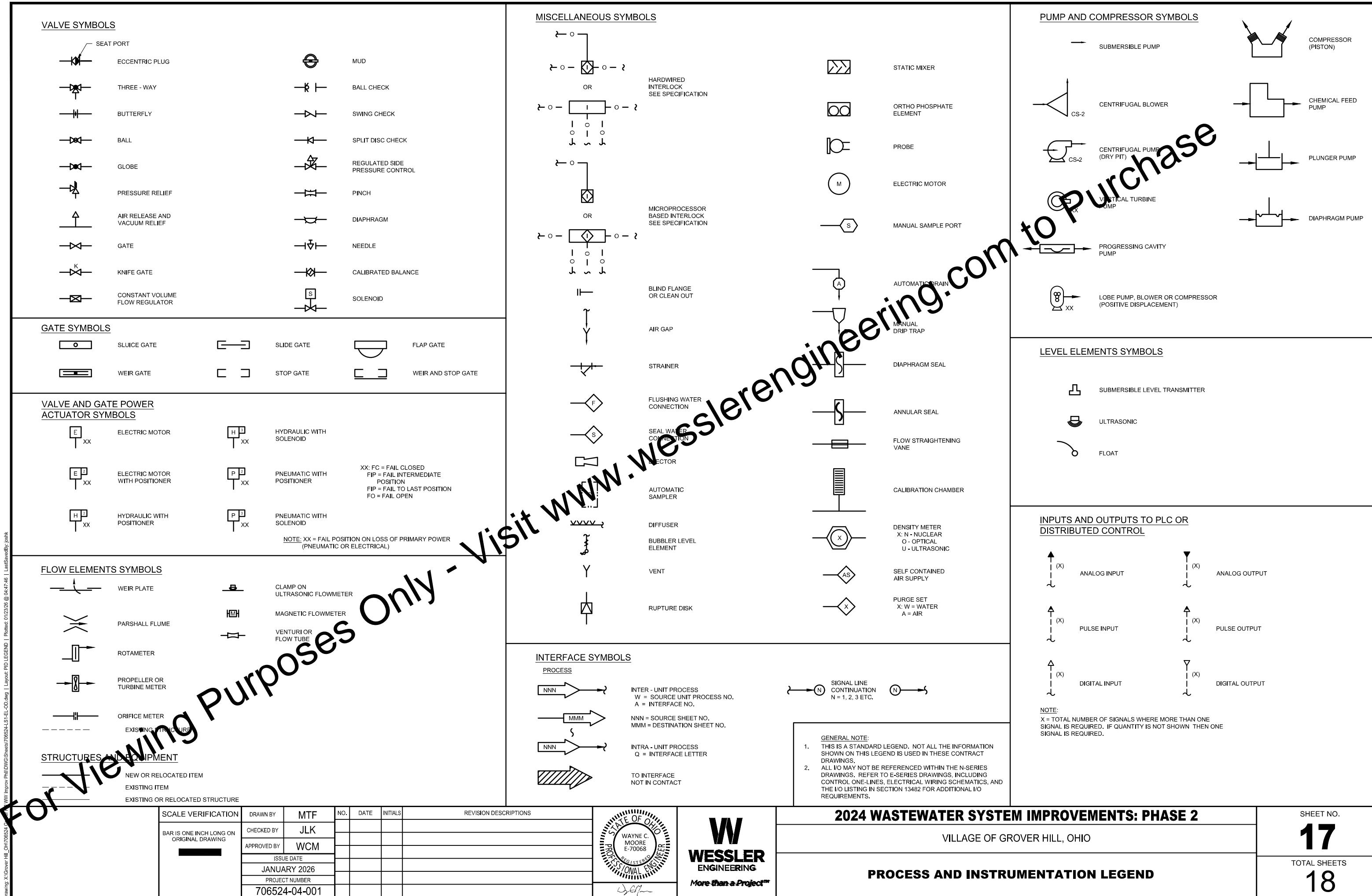
EXISTING WOODEN POST

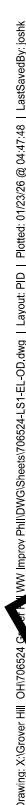
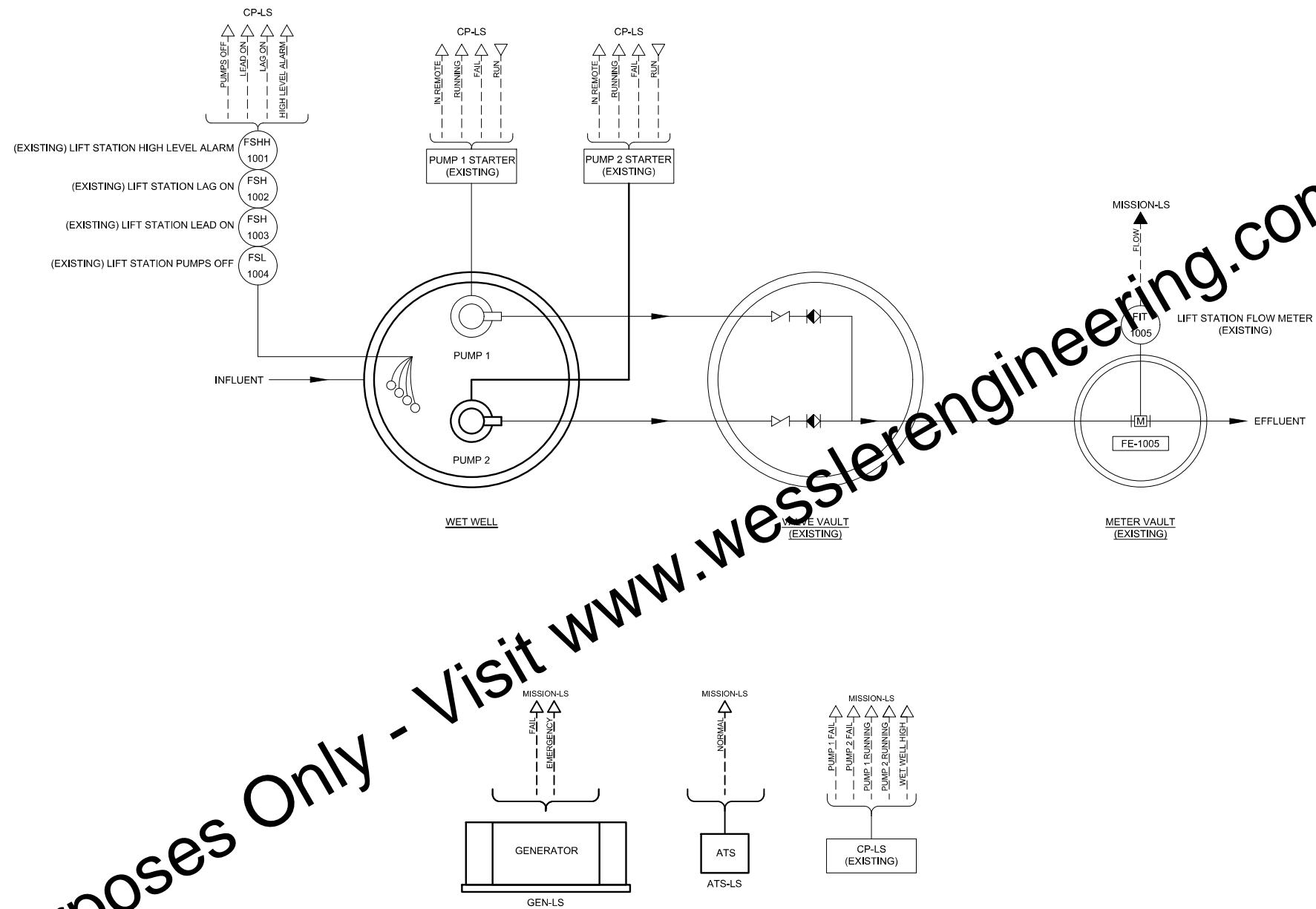
GRADE

NOTES:
1. EXISTING CONDUIT BACK TO 120V PANEL IN ADMINISTRATIVE BUILDING TO BE REUSED, 120V, 20A, BREAKER TO BE IDENTIFIED, RELABELED, AND REUSED TO FEED NEW UV EQUIPMENT.
2. PROVIDE NEW WIRE 2#12, #12G FROM BREAKER IN ADMINISTRATIVE BUILDING AND NEW UV MANUFACTURER'S CONTROL PANEL.
3. UV MANUFACTURER'S PANEL TO PROVIDE POWER TO ALL UV UNITS. PANEL SHALL BE PROVIDED WITH MAIN BREAKER TO ACT AS DISCONNECTING MEANS.

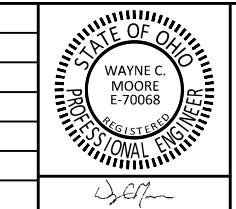
UV MANUFACTURER CONTROL PANEL

SCALE: NONE





SCALE VERIFICATION	DRAWN BY	
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	
	APPROVED BY	
	ISSUE DA	
	JANUARY	
	PROJECT NU	
	706524-0	



2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2

VILLAGE OF GROVER HILL, OHIO

PROCESS AND INSTRUMENTATION DIAGRAM

SHEET NO.
18
TOTAL SHEETS
18