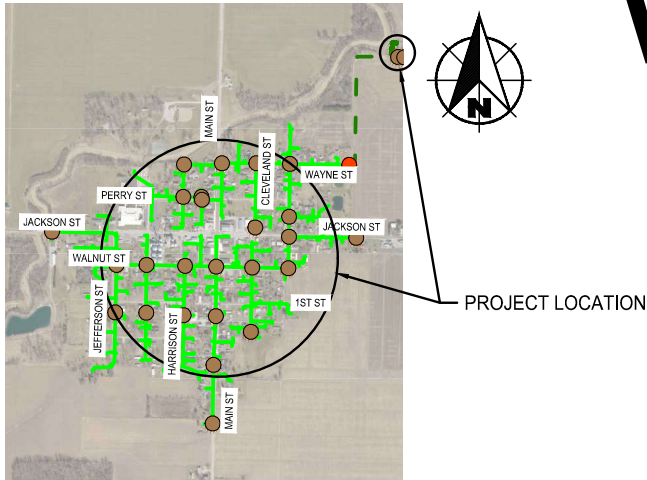


2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2

FOR THE

VILLAGE OF GROVER HILL, OHIO



GROVER HILL, OHIO
VICINITY MAP
SCALE: NONE



STATE LOCATION MAP
SCALE: NONE



BLUFFTON
80 State Route 103, Suite C
Bluffton, Ohio 45817
Phone: (419) 358-0521
www.wesslerengineering.com

PROJECT NO. 706524-04-001

DRAWINGS PREPARED FOR:

VILLAGE OF GROVER HILL COUNCIL

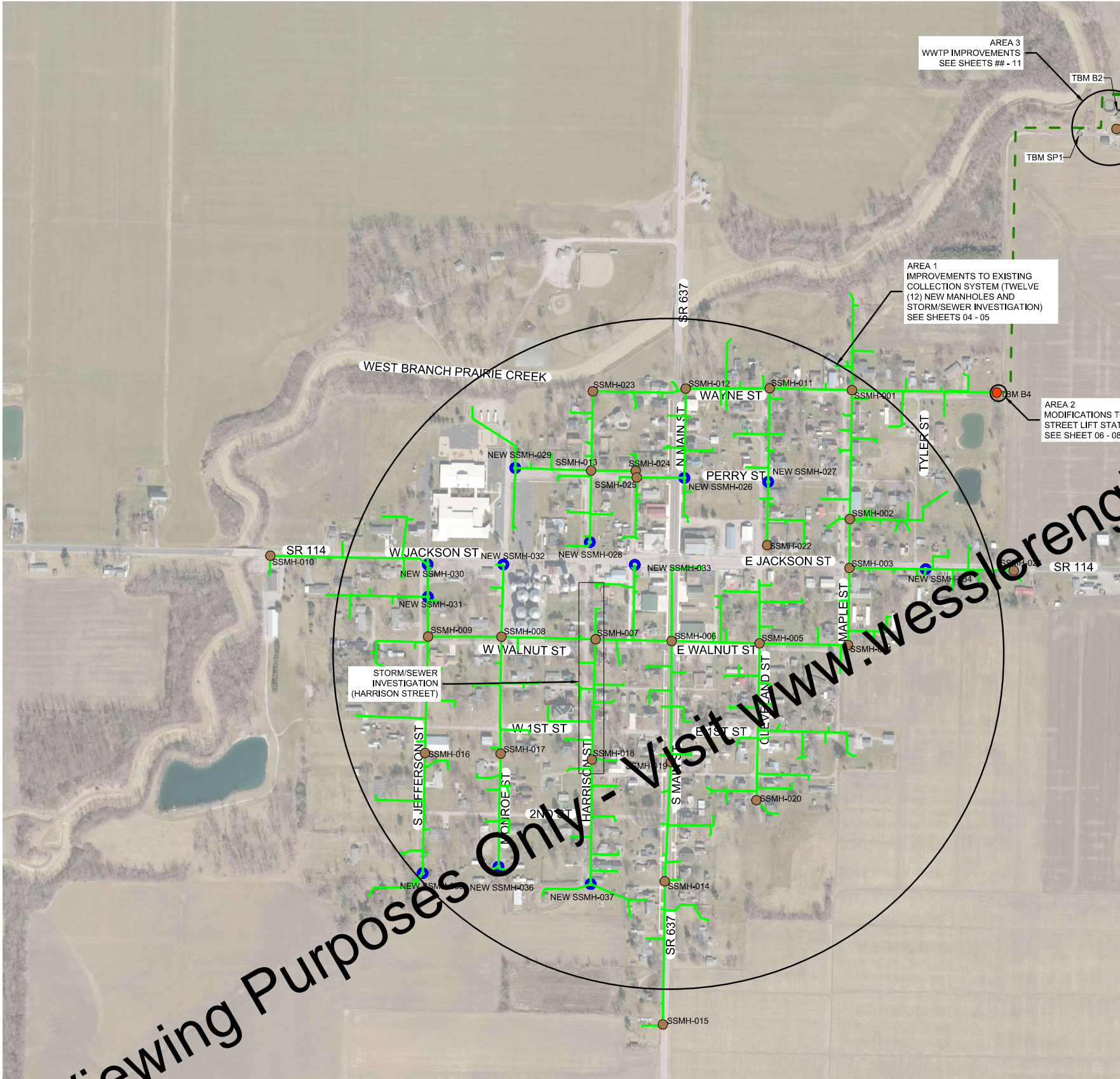
DEWAYNE HINCHCLIFF, MAYOR
GABRIELLE HOOK, FISCAL OFFICER
DONNIE EGNOR, VILLAGE COUNCIL MEMBER/PRESIDENT
NICK MYERS, VILLAGE COUNCIL MEMBER
CANDY MINCK, VILLAGE COUNCIL MEMBER
TRUDY WILKINS, VILLAGE COUNCIL MEMBER
RHONDA MILLER, VILLAGE COUNCIL MEMBER
LEEANN LESTER, VILLAGE COUNCIL MEMBER

PAULDING COUNTY COMMISSIONERS

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

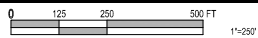
JANUARY 2026

Drawing: X:\Drawings\2024\706524-04.dwg | Layout: 1 | Plotted: 01/22/26 @ 12:45:57 | LastSavedBy: MsonrF



OSIP III IMAGERY PROVIDED FOR GEOGRAPHICALLY
REFERENCE INFORMATION SYSTEM.

LOCATION AND SCOPE OF WORK PLAN



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 CLAMBER 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	Southeast 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	Southeast 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:

1. It is the responsibility of the Contractor to visit the approximate location of each new manhole and confirm details - see drawing set for maps.
2. 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.
3. All new manholes are standard 48-inch diameter structures.
4. All new manholes are to have full depth composite manhole lining per specification 02738.

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

NOTICE!
PRINT SHEET IN COLOR
THIS SHEET WAS CREATED WITH COLOR
LINEWORK, SHADING AND/OR PHOTOS,
AND MUST BE PRINTED IN COLOR FOR
IMPROVEMENTS TO BE CLEARLY VISIBLE.

SCALE VERIFICATION

BAR IS ONE INCH LONG ON
ORIGINAL DRAWING

DRAWN BY	MTF
CHECKED BY	AAB
APPROVED BY	RKB
ISSUE DATE	JANUARY 2026
PROJECT NUMBER	706524-04-001

NO.	DATE	INITIALS	REVISION DESCRIPTIONS



2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2

VILLAGE OF GROVER HILL, OHIO

DRAWING INDEX, LOCATION, AND SCOPE OF WORK PLAN

SHEET NO.

02

TOTAL SHEETS

18

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		FORCEMAIN
	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/TOE 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		FIRE HYDRANT		
	YARD HYDRANT		PROCESS VALVE		

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	N	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	OSPC	OHIO STATE PLANE COORDINATE
CONT	CONTINUOUS	PC	POINT OF CURVE (BEGIN CURVE)
CNR	CORNER	POLY	POLYETHYLENE
CP	CONTROL POINT	PI	POINT OF INTERSECTION
CPP	CORRUGATED PLASTIC PIPE	POT	POINT ON TANGENT
CR STN	CRUSHED STONE	PT	POINT OF TANGENT (END CURVE)
CYD	CUBIC YARD	PSI	POUNDS PER SQUARE INCH
D	DEPTH	PT	POINT
DI	DUCTILE IRON	PVC	POLYVINYL CHLORIDE
DI MJ	DUCTILE IRON MECHANICAL JOINT	R	RAILROAD
DBL	DOUBLE	ROW	RIGHT-OF-WAY
DIA	DIAMETER	RCP	REINFORCED CONCRETE PIPE
DIP	DUCTILE IRON PIPE	R	ROAD
DIPS	DUCTILE IRON PIPE SIZE	S	SOUTH
DR	DRIVE	SR	STATE ROUTE
E	EASTING, EAST	SST	STAINLESS STEEL
EF	EACH FACE	SVA	SERVICE VALVE ASSEMBLY
EW	EACH WAY	SB	SOIL BORING
EA	EACH	SCHED	SCHEDULE
EJ	EAST JOINT IRON WORKS	SDR	STANDARD DIMENSION RATIO
EL	ELEVATION	SECT	SECTION
EX	EXISTING	SF	SQUARE FEET
EXP	EXPANSION	SHT	SHEET
FEET	FINISH FLOOR ELEVATION	SPECS	SPECIFICATION(S)
FM	FORCE MAIN	SQ	SQUARE
FND	FOUND	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 CONSTRUCTION.
 - PRIVATE WELLS EXIST THROUGHOUT THE PROJECT LIMITS AND LOCATIONS WERE NOT LOCATED BY WESSLER ENGINEERING. IDENTIFY AND PROTECT ALL PRIVATE WELLS 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, ACCURATE, ALL INCLUSIVE OR EVEN APPROXIMATE. CONTACT THE OHIO UTILITIES PROTECTION SERVICE (OUPS) AT 800-448-4848 (48) HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY.
 - DETERMINE WHICH UTILITIES MAY BE AFFECTED BY THE PROJECT 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 UNDERGROUND SERVICE LINES FOR ALL UTILITIES EXIST TO EACH PROPERTY ALONG THE ROUTE OF THE AFFECTED 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 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, 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.
 - 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 OHC000005, 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 (OEPA) 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.

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
OTTOVILLE, 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

SCALE VERIFICATION

BAR IS ONE INCH LONG ON ORIGINAL DRAWING



DRAWN BY

MTF

CHECKED BY

AAB

APPROVED BY

RKB

ISSUE DATE

JANUARY 2026

PROJECT NUMBER


706524-04-001

NO.

DATE

INITIALS

REVISION DESCRIPTIONS



W
WESSLER
ENGINEERING
More than a Project™

2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2

VILLAGE OF GROVER HILL, OHIO

GENERAL NOTES, UTILITIES, ABBREVIATIONS AND LEGEND

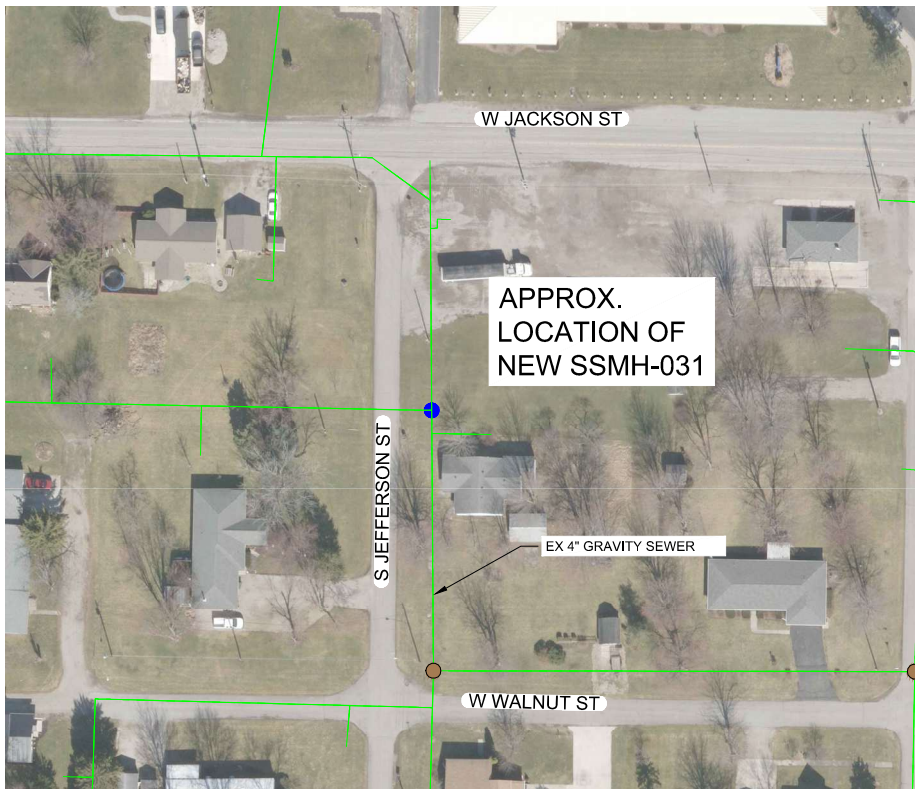
SHEET NO.




03

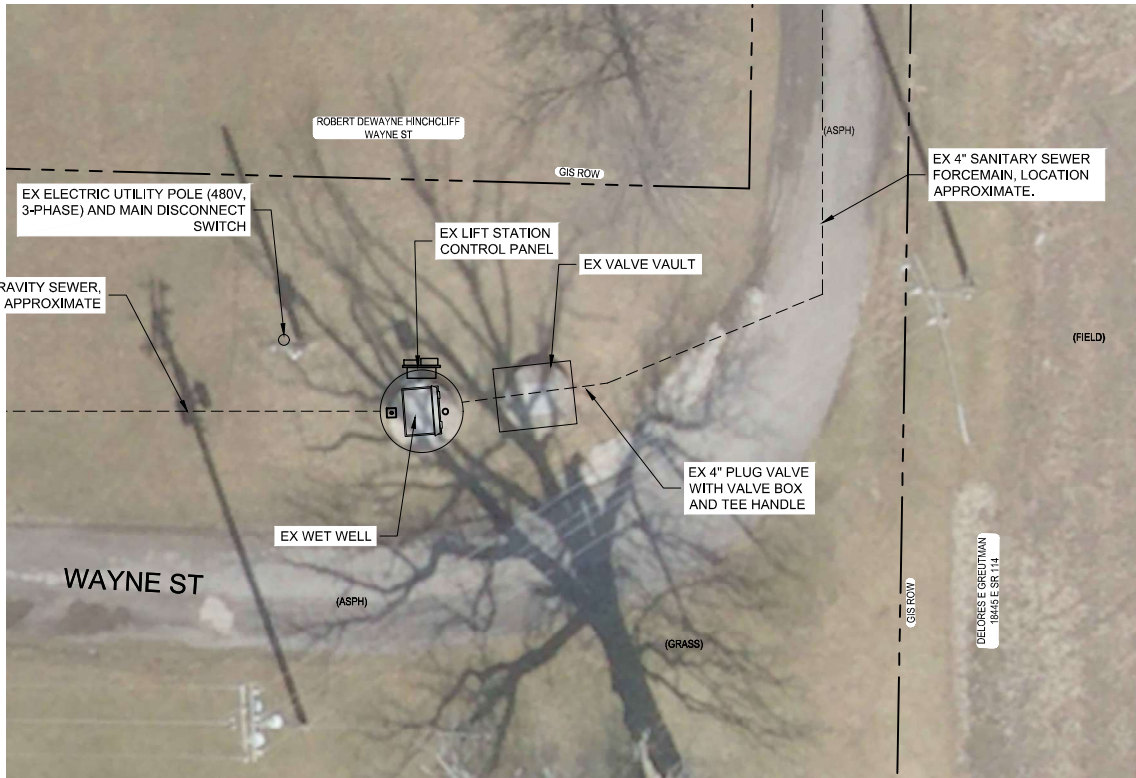
TOTAL SHEETS

18

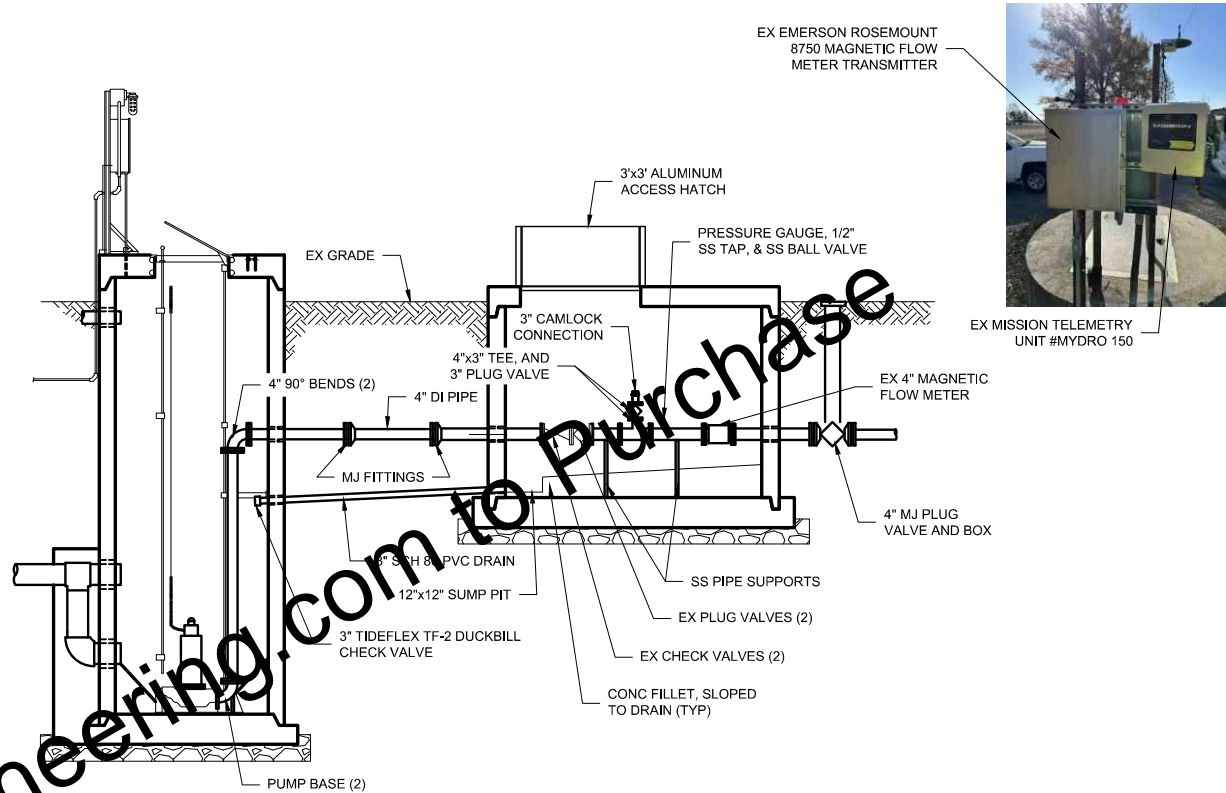
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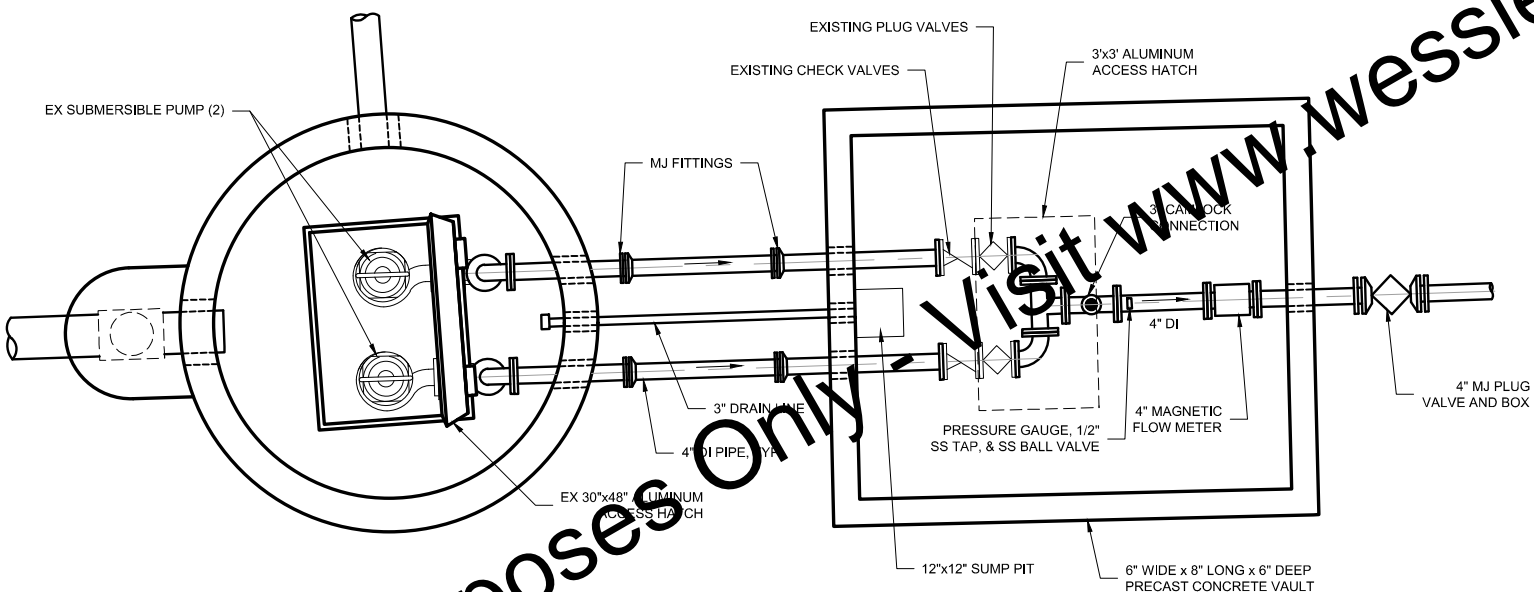
<div style="border: 1px solid black; padding: 5px;"> <p align="center">NOTICE!</p> <p align="center">PRINT SHEET IN COLOR</p> <p>THIS SHEET WAS CREATED WITH COLOR LINEWORK, SHADING AND/OR PHOTOS, AND MUST BE PRINTED IN COLOR FOR IMPROVEMENTS TO BE CLEARLY VISIBLE.</p> </div>	SCALE VERIFICATION	DRAWN BY	MTF	NO.	DATE	INITIALS	REVISION DESCRIPTIONS	 <div style="text-align: center;">  <p>WESSLER ENGINEERING</p> <p><i>More than a Project™</i></p> </div>	2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2		SHEET NO. <div style="font-size: 2em; font-weight: bold;">04</div>	
	BAR IS ONE INCH LONG ON ORIGINAL DRAWING 	CHECKED BY	AAB							VILLAGE OF GROVER HILL, OHIO		TOTAL SHEETS <div style="font-size: 2em; font-weight: bold;">18</div>
		APPROVED BY	RKB							NEW SANITARY SEWER MANHOLES - APPROXIMATE LOCATIONS		
		ISSUE DATE										
		JANUARY 2026										
		PROJECT NUMBER										
		706524-04-001										



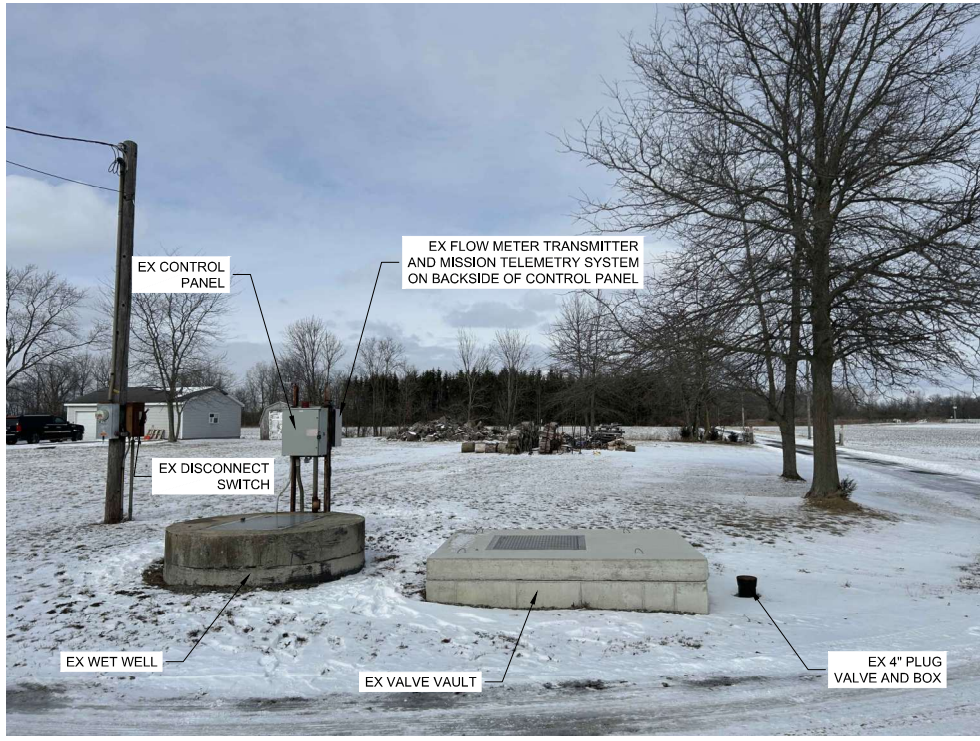
EXISTING LIFT STATION SITE PLAN
SCALE: 1" = 10'



SECTION - LIFT STATION
SCALE: NONE



PLAN - EXISTING LIFT STATION
SCALE: NONE



W:\Improv\Full\DWG\Sheets\706524-LS.dwg | Layout: 06 | Plotter: 0122208 @ 12:45:55 | LastSavedBy: MasonF

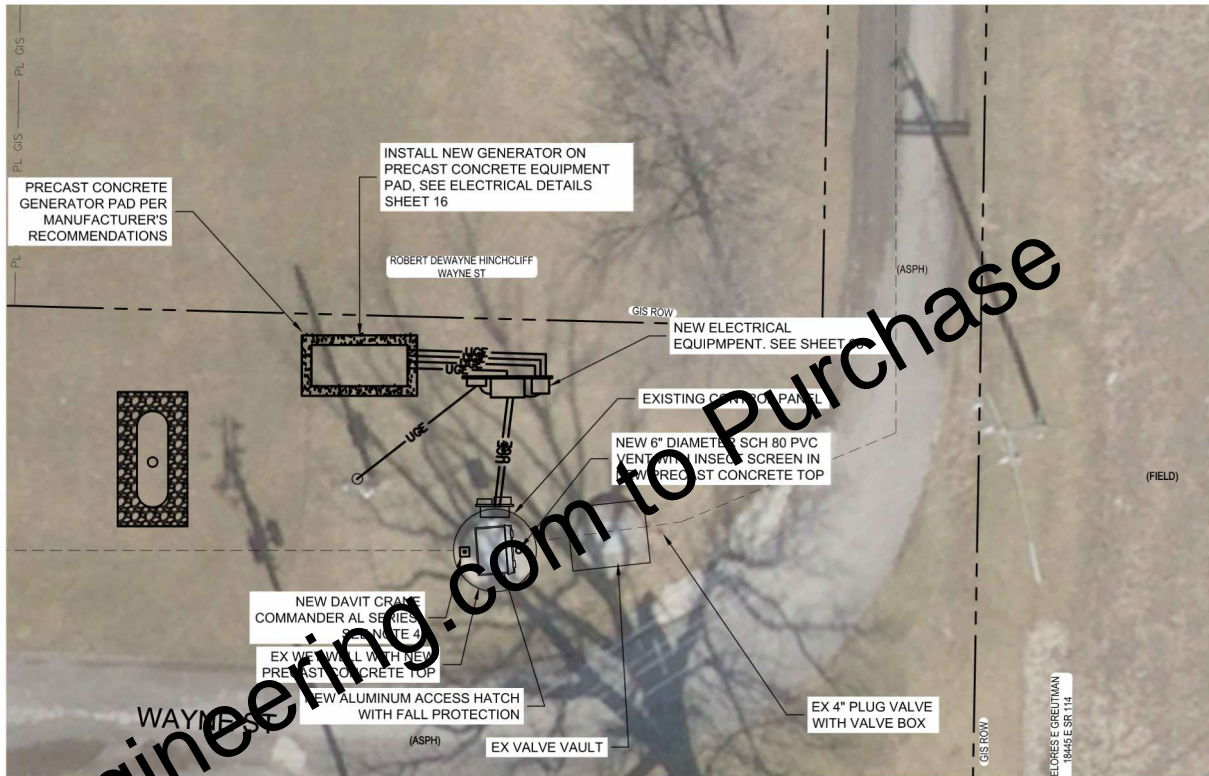
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SCALE VERIFICATION	DRAWN BY	MTF	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
	CHECKED BY	AAB				
BAR IS ONE INCH LONG ON ORIGINAL DRAWING <div></div>	APPROVED BY	RKB				
	ISSUE DATE	JANUARY 2026				
	PROJECT NUMBER	706524-04-001				

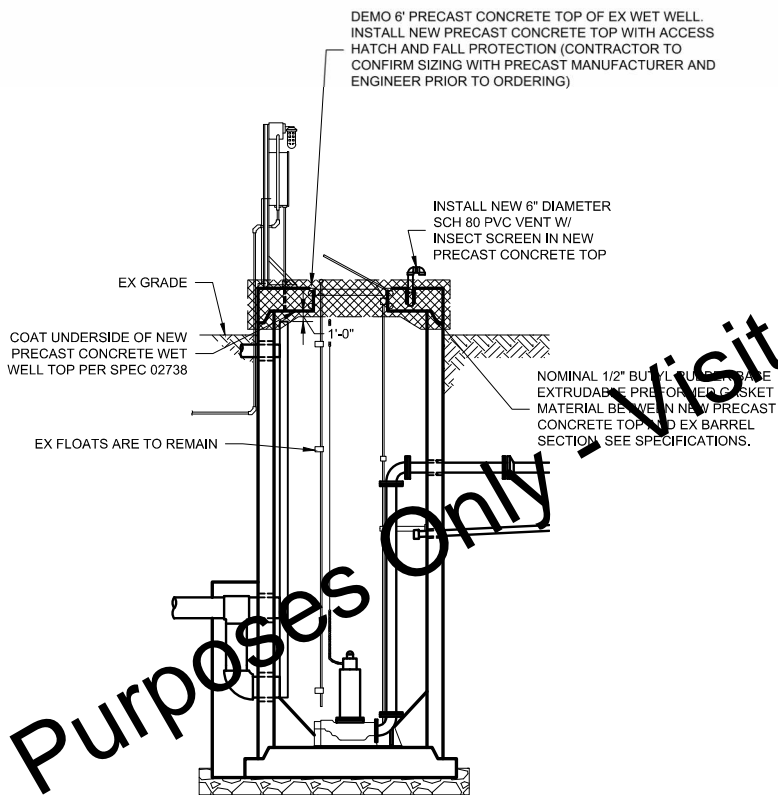


2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2	
VILLAGE OF GROVER HILL, OHIO	
WAYNE STREET LS - EXISTING SITE PLAN AND SECTION	

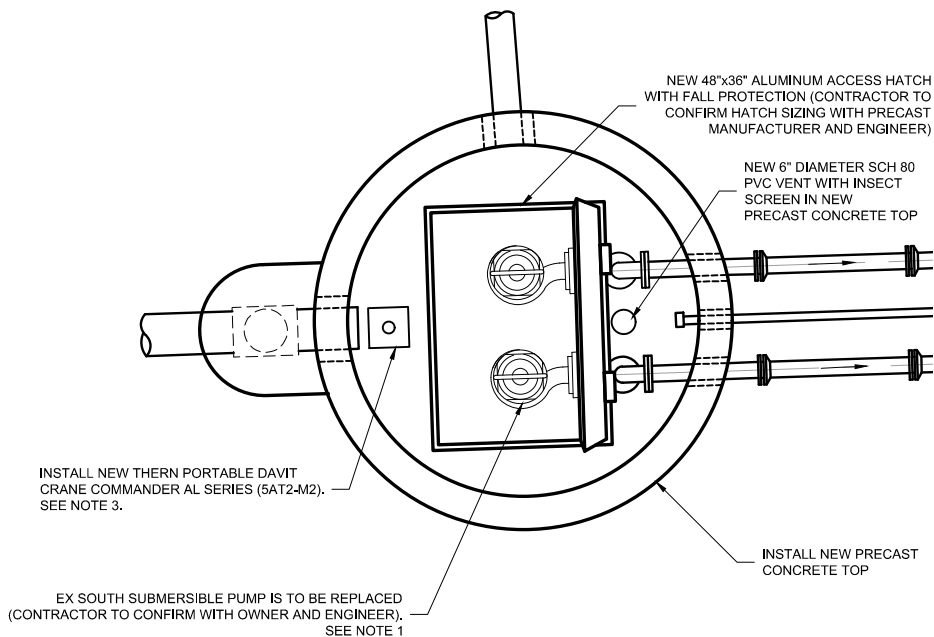
SHEET NO.	06
TOTAL SHEETS	18



NEW LIFT STATION SITE PLAN
SCALE: 1" = 10'



SECTION - LIFT STATION MODIFICATIONS
SCALE: NONE



PLAN - LIFT STATION MODIFICATIONS
SCALE: NONE

- NOTES:
1. NEW PUMP IS TO BE: FLYGT, MODEL 3127.060, N487 IMPELLER, HARD IRON IMPELLER & INSERT RING, 50' CABLE ASSEMBLY, 10 HP, 4" DISCHARGE (CONFIRM PUMP MODEL W/ ENGINEER AND CONFIRM PUMP BOLT PATTERN MATCHES EXISTING PUMP BASE BOLT PATTERN), CONTRACTOR TO CONFIRM WITH OWNER, ENGINEER, AND WWTP OPERATOR PRIOR TO PUMP REPLACEMENT. THE REPLACED PUMP SHALL BE TAKEN AND STORED AT WWTP (COORDINATE WITH WWTP OPERATOR). ALL FASTENERS AND SUPPORTS SHALL BE STAINLESS STEEL.
 2. NEW DAVIT CRANE IS TO BE: THERN PORTABLE DAVIT CRANE COMMANDER AL SERIES (5AT2-M2), 316 SS PEDESTAL (5BP20S316), 304 SS WIRE ROPE (WS25-36NS), ROLLER BALL BEARING WITH LOCK (5PT20BRG-SS) OR ENGINEER APPROVED EQUAL.

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



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

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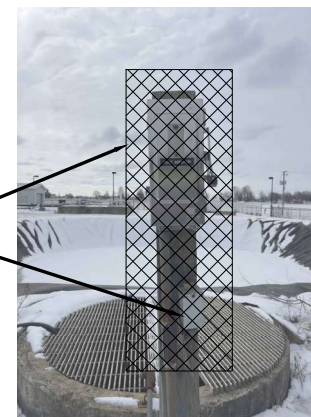
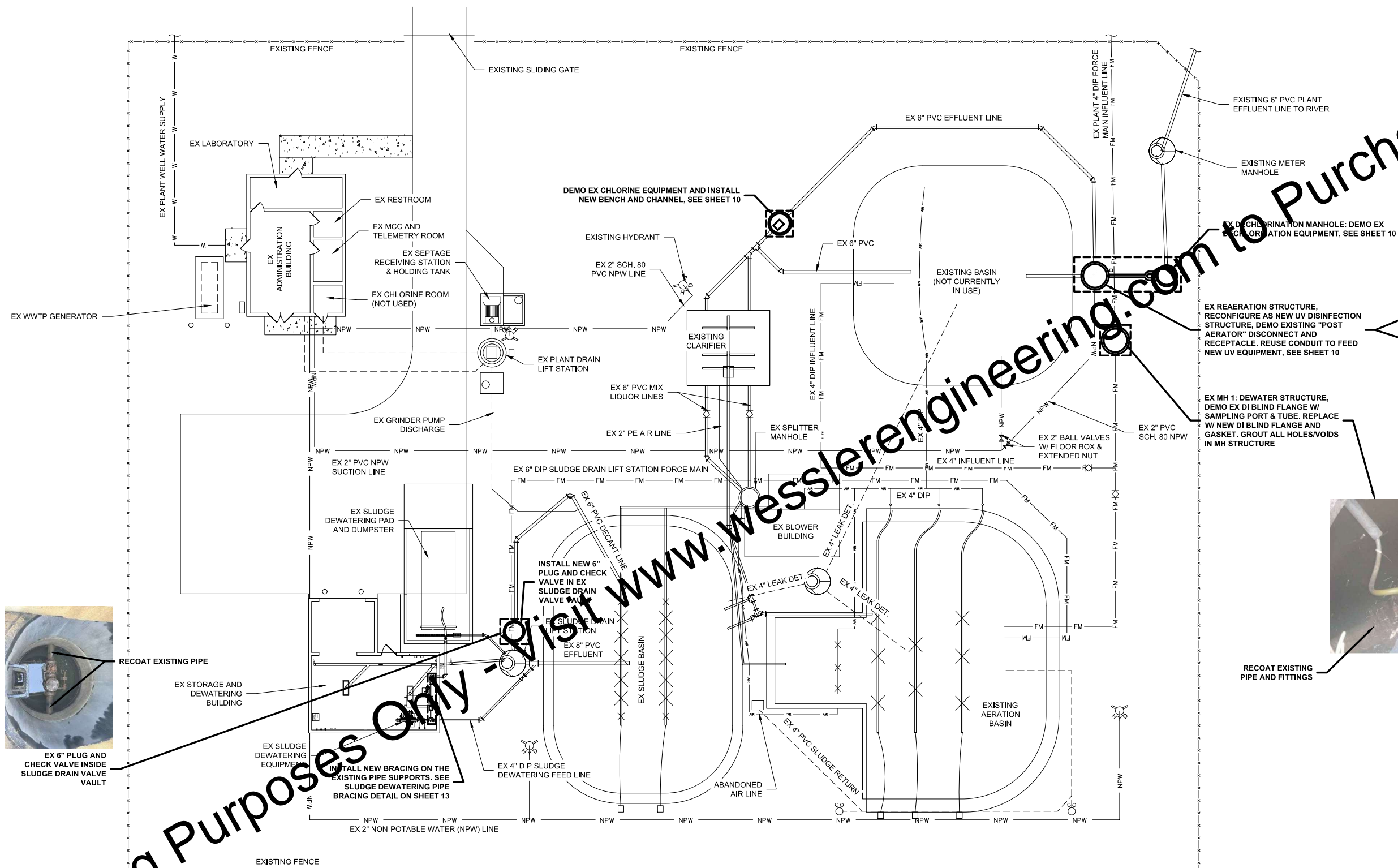
NEW LIFT STATION ELECTRICAL SITE PLAN
SCALE: 1" = 5'

SCALE VERIFICATION BAR IS ONE INCH LONG ON ORIGINAL DRAWING <div></div>	DRAWN BY	MTF	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
	CHECKED BY	JLK				
	APPROVED BY	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	

SHEET NO.
08
TOTAL SHEETS
18



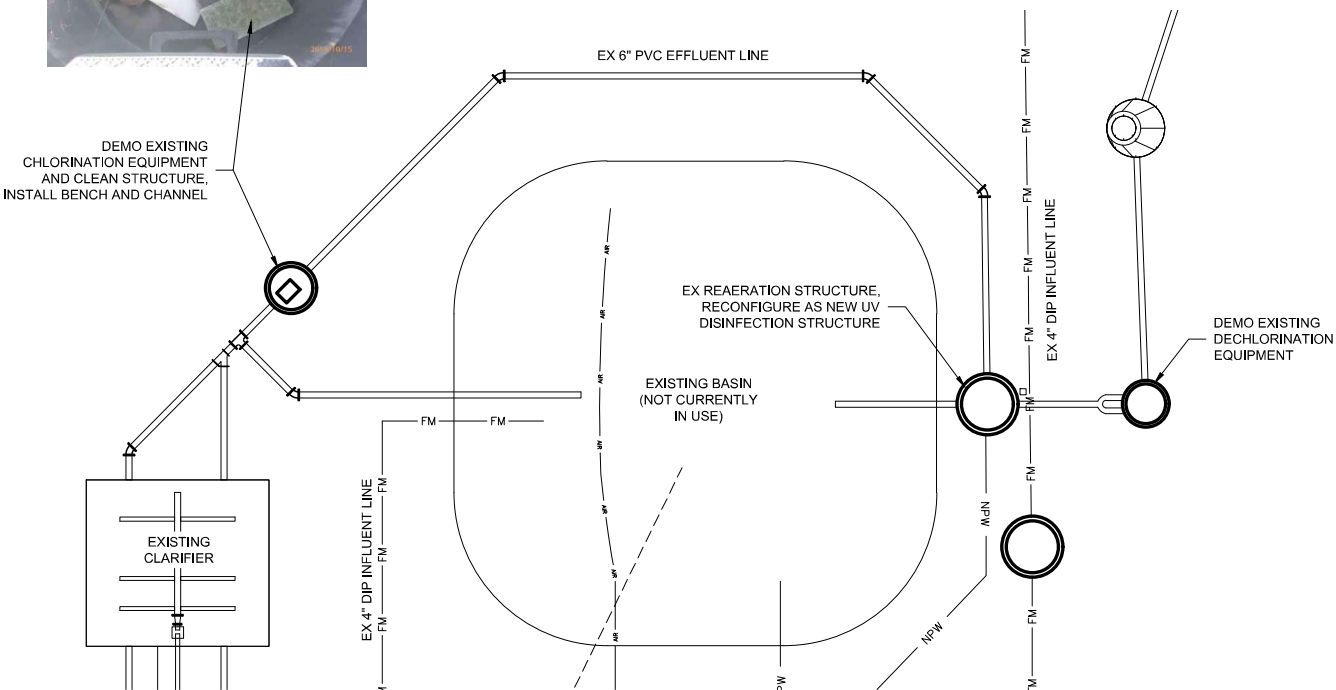
WWTP - DEMO AND MODIFIED SITE PLAN
SCALE: NONE

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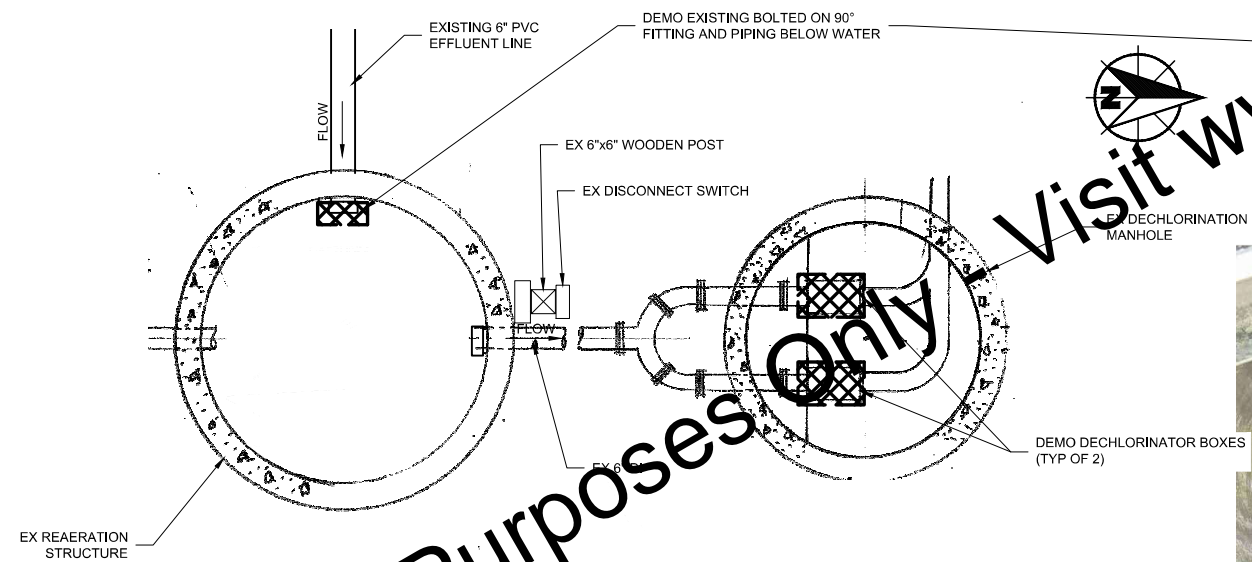
SCALE VERIFICATION BAR IS ONE INCH LONG ON ORIGINAL DRAWING <div></div>	DRAWN BY	MTF	NO.	DATE	INITIALS	REVISION DESCRIPTIONS	<div><div><div>STATE OF OHIO</div><div>RYAN KENT BRAUN</div><div>E-79180</div><div>REGISTERED PROFESSIONAL ENGINEER</div><div>01/24/2026</div><div></div></div><div><div>W</div><div>WESSLER</div><div>ENGINEERING</div><div>More than a Project™</div></div></div>	2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2		
	CHECKED BY	AAB						VILLAGE OF GROVER HILL, OHIO		
	APPROVED BY	RKB						WWTP - DEMO AND MODIFIED SITE PLAN		
	ISSUE DATE									
	JANUARY 2026									
	PROJECT NUMBER									
706524-04-001										



DEMO EXISTING CHLORINATION EQUIPMENT AND CLEAN STRUCTURE. INSTALL BENCH AND CHANNEL.



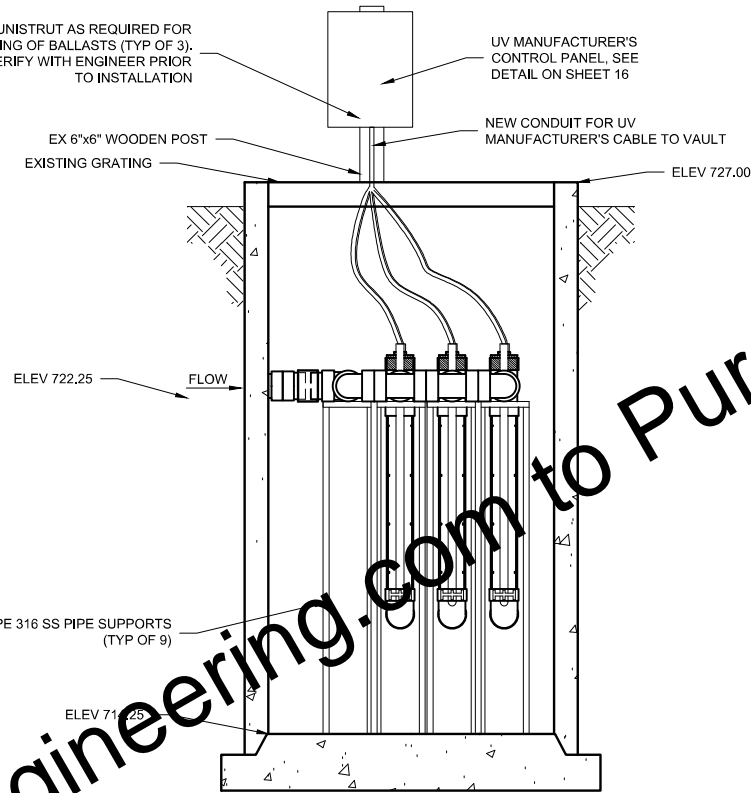
EXISTING CHLORINATION EQUIPMENT
SCALE: 1/8" = 1'



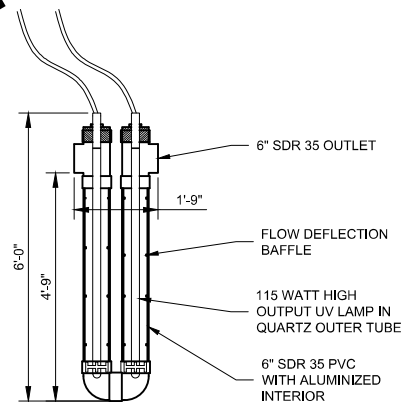
EXISTING EFFLUENT STRUCTURES
SCALE: 1/2" = 1'



PROVIDE SS UNISTRUT AS REQUIRED FOR MOUNTING OF BALLASTS (TYP OF 3). CONTRACTOR TO VERIFY WITH ENGINEER PRIOR TO INSTALLATION

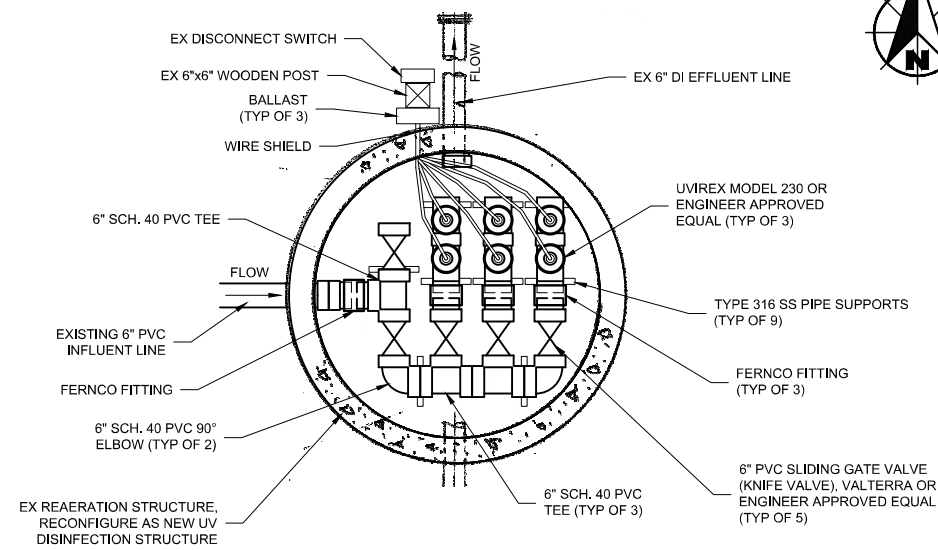


SECTION - NEW UV DISINFECTION EQUIPMENT & PIPING
SCALE: 1/2" = 1'



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) 'EASY 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.



PLAN - NEWLY RECONFIGURED UV DISINFECTION STRUCTURE
SCALE: 1/2" = 1'

W:\Improv\Full\DWG\Sheets\706524-UV.dwg | Layout: 10 | Plotted: 01/23/26 @ 04:50:08 | LastSavedBy: travel

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	ISSUE DATE	JANUARY 2026				
	PROJECT NUMBER	706524-04-001				



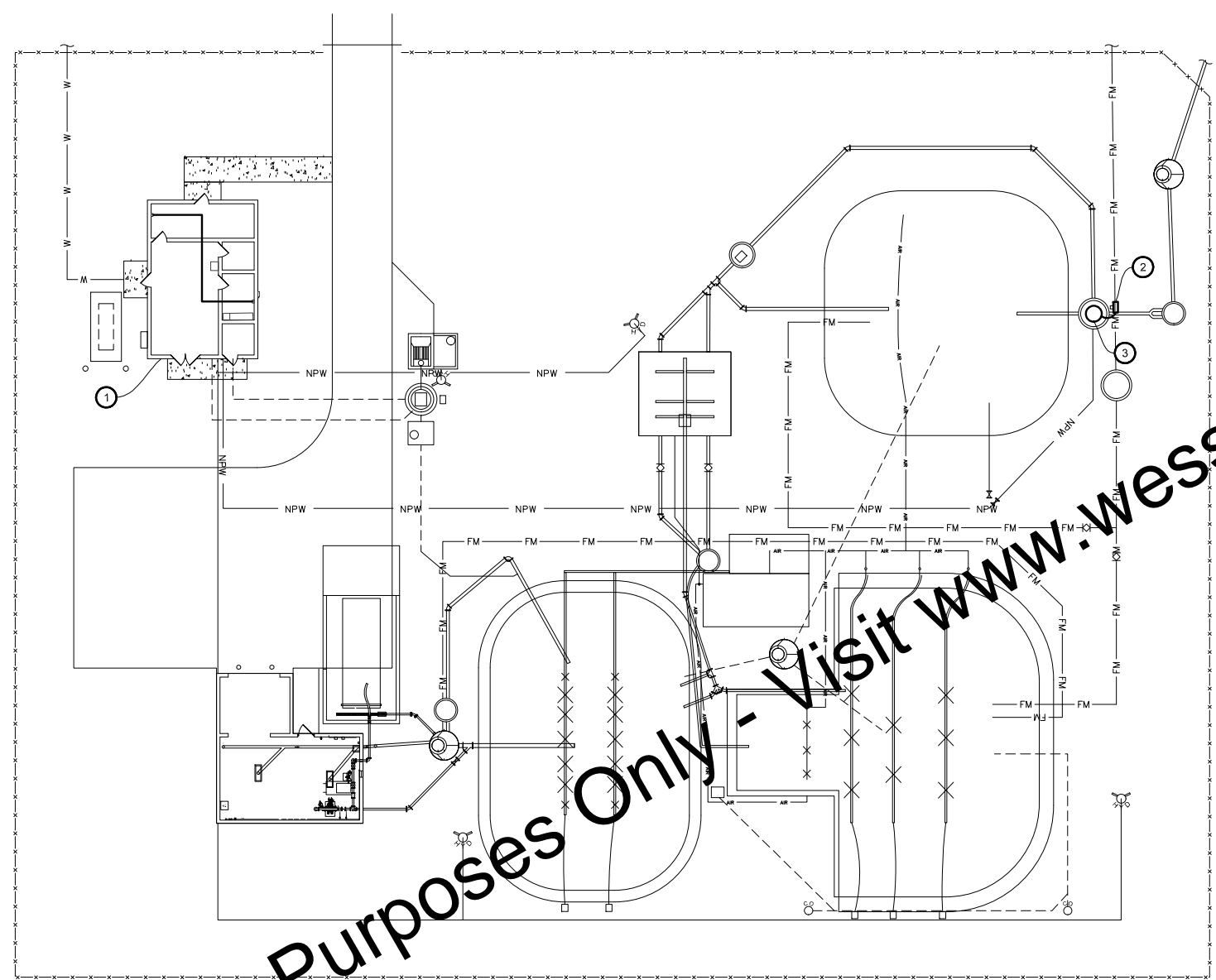
2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2	
VILLAGE OF GROVER HILL, OHIO	
WWTP - UV DISINFECTION SYSTEM PLAN AND SECTIONS AND DETAILS	

SHEET NO.	10
TOTAL SHEETS	18

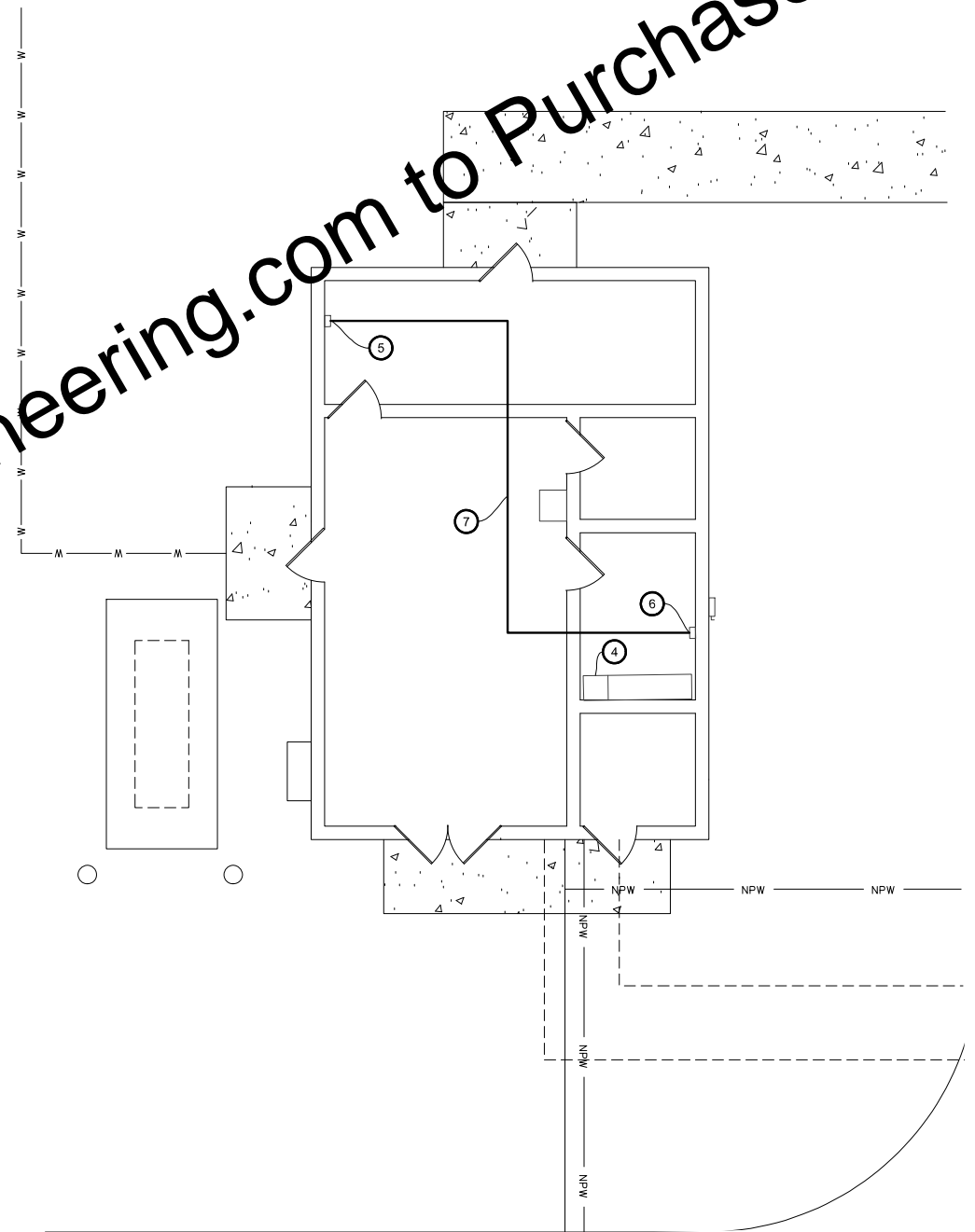


KEYED NOTES ○

- 1. EXISTING ADMINISTRATION BUILDING.
- 2. 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.
- 3. NEW UV EQUIPMENT IN MANHOLE.
- 4. IDENTIFY 120V CIRCUIT THAT FEEDS NEW UV EQUIPMENT AND RELABEL CIRCUIT IN PANEL. 120V PANEL IS LOCATED WITHIN EXISTING MCC.
- 5. EXISTING PAPER CHART RECORDER.
- 6. EXISTING MISSION NODE
- 7. 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.

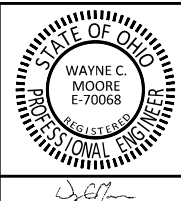


ELECTRICAL IMPROVEMENTS PLAN
SCALE: 1/16"=1'



ADMINISTRATIVE BUILDING ELECTRICAL PLAN
SCALE: 3/16"=1'

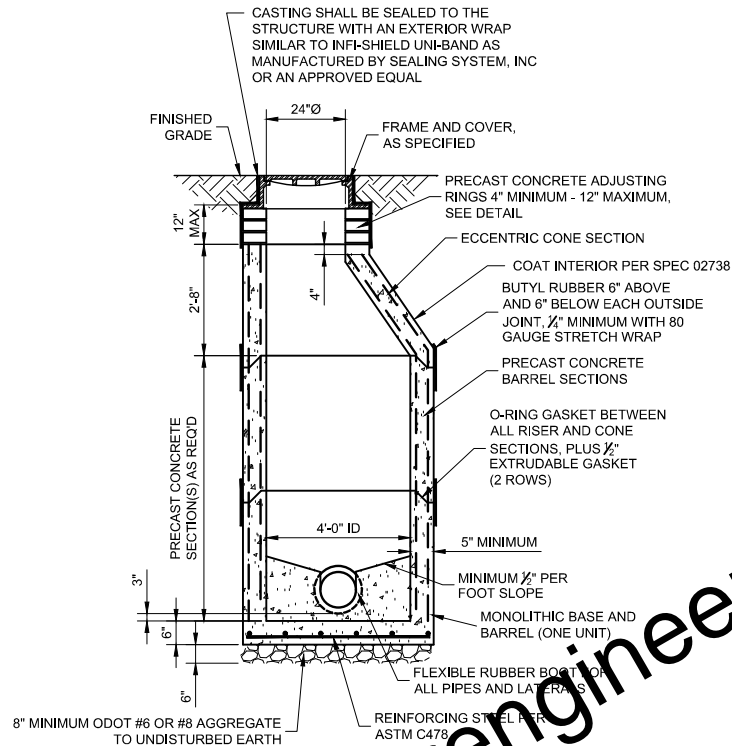
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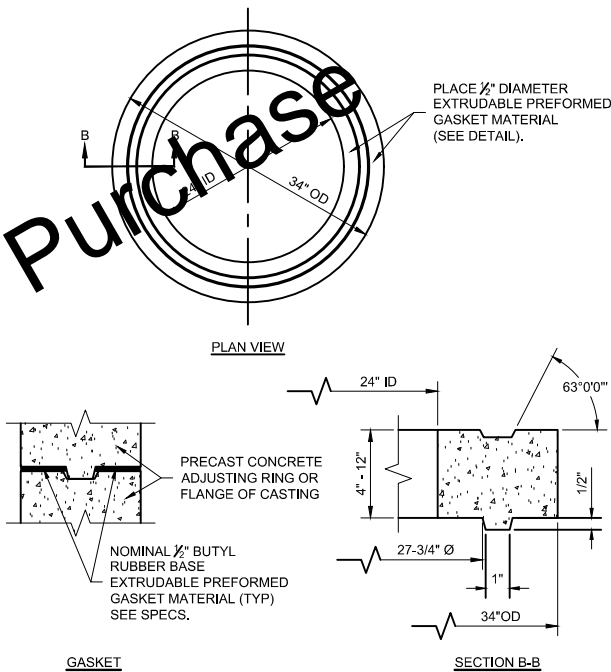
2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2	SHEET NO.
VILLAGE OF GROVER HILL, OHIO	11
WWTP - ELECTRICAL SITE PLAN	TOTAL SHEETS
	18

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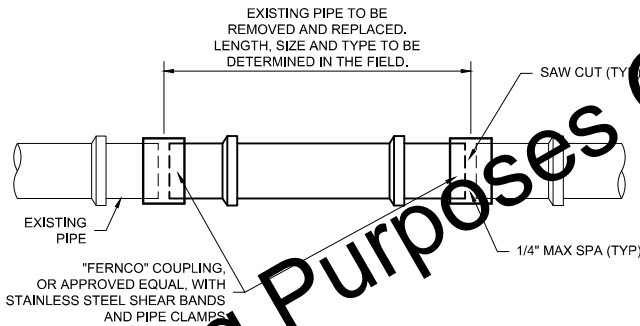
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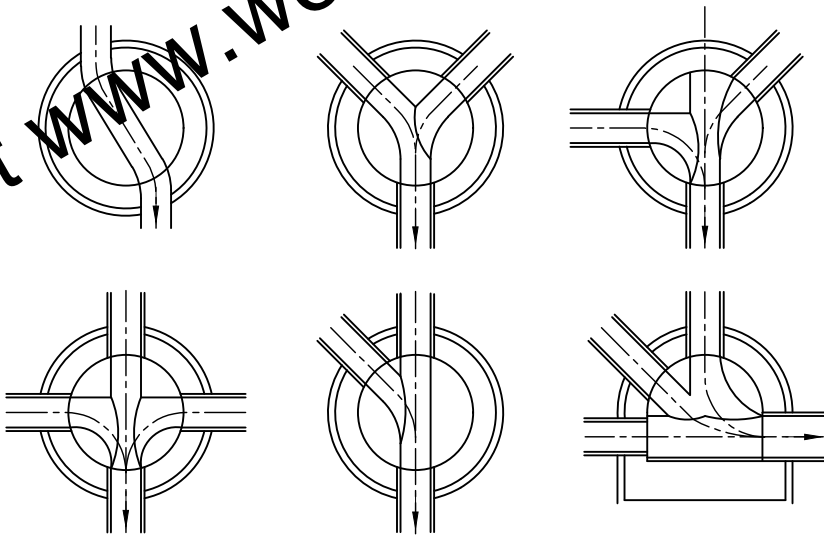
STANDARD SANITARY SEWER MANHOLE
SCALE: NONE



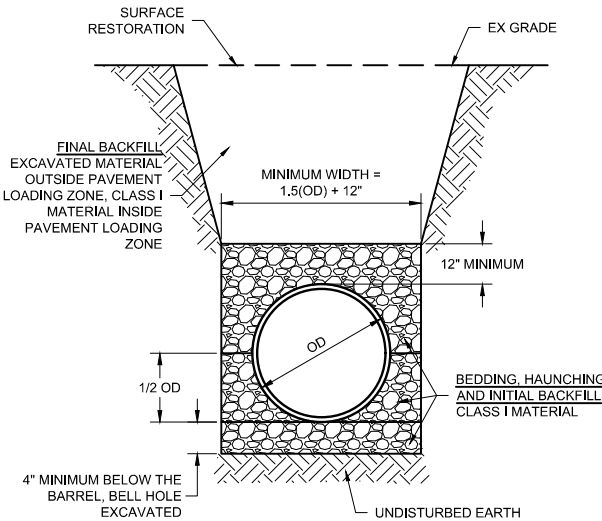
ADJUSTING RING
SCALE: NONE




SANITARY SEWER REPAIR
SCALE: NONE



STANDARD MANHOLE BENCHES
SCALE: NONE



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

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		706524-04-001				



2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2

VILLAGE OF GROVER HILL, OHIO

MISCELLANEOUS DETAILS

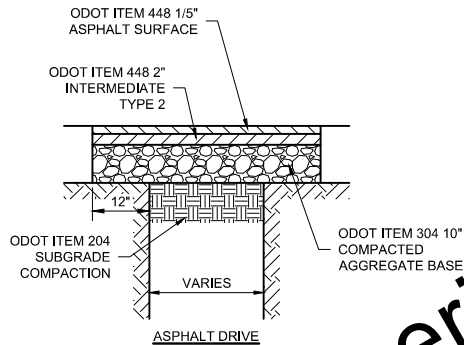
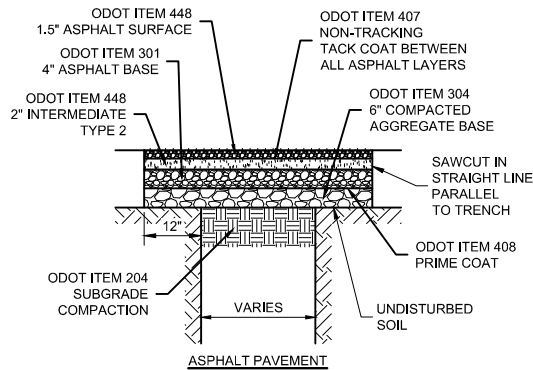
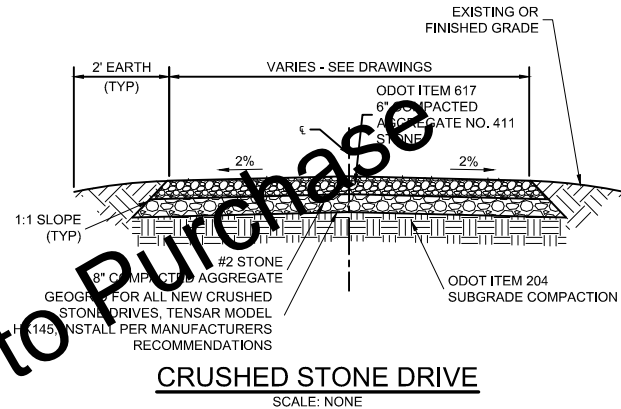
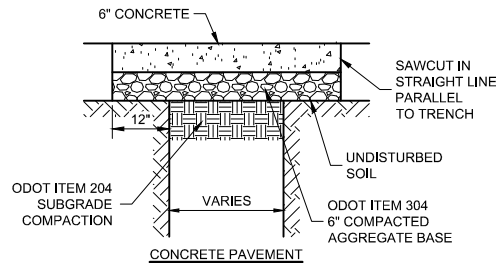
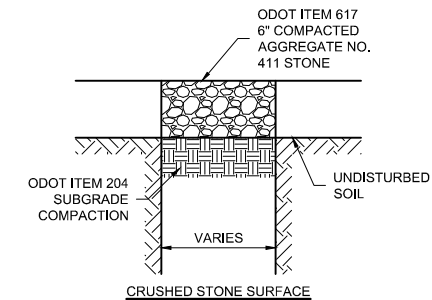
SHEET NO.

12

TOTAL SHEETS

18

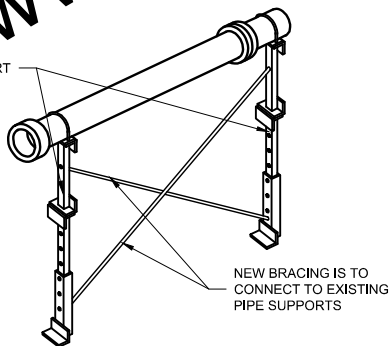
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Drawing: X:\Grover Hill_OH\706524-01.dwg



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



- 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

SLUDGE DEWATERING PIPE BRACING DETAIL

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 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:
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.

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	ISSUE DATE					
	JANUARY 2026					
	PROJECT NUMBER					
		706524-04-001				



2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2

VILLAGE OF GROVER HILL, OHIO

MISCELLANEOUS DETAILS

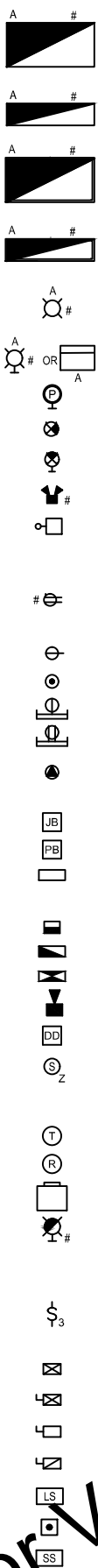
SHEET NO.

13

TOTAL SHEETS

18

Drawing: X:\Cover_Hill_OH\706524-04-000.dwg | Layout: LEGEND | Plotted: 01/23/26 @ 04:47:35 | LastSavedBy: jank



LIGHTING

SURFACE/PENDANT MOUNTED LIGHT
FIXTURE LETTER DENOTES TYPE, # DENOTES
CIRCUIT, SHADING DENOTES EMERGENCY
AND/OR NIGHT LIGHT

SURFACE/PENDANT MOUNTED LIGHT
FIXTURE LETTER DENOTES TYPE, # DENOTES
CIRCUIT, SHADING DENOTES EMERGENCY
AND/OR NIGHT LIGHT

RECESS MOUNTED LIGHT FIXTURE LETTER
DENOTES TYPE, # DENOTES CIRCUIT,
SHADING DENOTES EMERGENCY AND/OR
NIGHT LIGHT

RECESS MOUNTED LIGHT FIXTURE LETTER
DENOTES TYPE, # DENOTES CIRCUIT,
SHADING DENOTES EMERGENCY AND/OR
NIGHT LIGHT

H.I.D. OR INCANDESCENT FIXTURE CEILING
MOUNTED LETTER DENOTES TYPE, #
DENOTES CIRCUIT

WALL MOUNTED FIXTURE LETTER
DENOTES TYPE, # DENOTES CIRCUIT

WALL MOUNTED PHOTOCELL

CEILING MOUNTED EXIT SIGN

WALL MOUNTED EXIT SIGN

EMERGENCY LIGHT FIXTURE #
DENOTES CIRCUIT

POLE MOUNTED FIXTURE

RECEPTACLE

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

PANELS AND BOXES

240 VOLT RECEPTACLE

JUNCTION BOX

PULL BOX

PANEL

HVAC AND FIRE ALARM

FIRE ALARM PULL STATION

FIRE ALARM CONTROL PANEL

ANNUNCIATOR

HORN/LIGHT DEVICE

DUCT DETECTOR

SMOKE DETECTOR SUBSCRIPT
DENOTES TYPE:
Z DENOTES IONIZATION
P DENOTES PHOTOELECTRIC
T DENOTES THERMAL

THERMOSTAT

AMBIENT TEMPERATURE TRANSMITTER

UNIT HEATER

WALL MOUNTED GAS DETECTION FIXTURE

SWITCHES

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

DIFFERENTIAL LIMIT SWITCH

LOCAL CONTROL STATION

SPEED SWITCH

WIRING

CONDUIT HOME RUN

CONDUIT EXPOSED

CONDUIT CONCEALED

FLEXIBLE CONDUIT

SCHEMATICS

3-POSITION SELECTOR SWITCH
HAND - OFF - AUTO

PUSHBUTTON SWITCH N.O.
TEXT DENOTES LEGEND PLATE

PUSHBUTTON SWITCH N.C. TEXT
DENOTES LEGEND PLATE

MUSHROOM HEAD EMERGENCY
STOP PUSHBUTTON SWITCH N.C.
MAINTAINED TEXT DENOTES
LEGEND PLATE

PUSHBUTTON SWITCH N.C. WITH
LOCK-OUT TEXT DENOTES
LEGEND PLATE

DISCONNECT SWITCH N.O.

DISCONNECT SWITCH N.C.

TEMPERATURE SWITCH OR
THERMOSTAT N.O. TEXT DENOTES
TAG NUMBER

TEMPERATURE SWITCH OR
THERMOSTAT N.C. TEXT DENOTES
TAG NUMBER

PRESSURE SWITCH N.O. TEXT
DENOTES TAG NUMBER

PRESSURE SWITCH N.C. TEXT
DENOTES TAG NUMBER

LEVEL SWITCH N.O.
TEXT DENOTES TAG NUMBER

LEVEL SWITCH N.C. TEXT
DENOTES TAG NUMBER

ON DELAY TIMED SWITCH N.O.T.C. TEXT
DENOTES TAG NUMBER

ON DELAY TIMED SWITCH N.C.T.O. TEXT
DENOTES TAG NUMBER

OFF DELAY TIMED SWITCH N.O.T.O. TEXT
DENOTES TAG NUMBER

OFF DELAY TIMED SWITCH N.C.T.C. TEXT
DENOTES TAG NUMBER

TORQUE SWITCH
TEXT DENOTES TAG NUMBER

LIMIT SWITCH
TEXT DENOTES TAG NUMBER

CONTACT (NORMALLY OPEN) #
DENOTES COIL NUMBER

CONTACT (NORMALLY CLOSED) #
DENOTES COIL NUMBER

INDICATOR LIGHT - LETTER
DENOTES COLOR

PUSH-TO-TEST INDICATOR LIGHT
LETTER DENOTES COLOR

ELAPSED TIME METER

SOLENOID VALVE

MECHANICAL INTERLOCK CONNECTION

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

SINGLE LINE

EXISTING TO REMAIN

EXISTING TO BE DEMOLISHED

NEW

FUTURE

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

TRANSFORMER

3P/4W
TYPE OF TRANSFORMER

PROTECTIVE RELAY, NUMBER
DENOTES IEEE DEVICE FUNCTION

MEDIUM VOLTAGE DRAWOUT
CIRCUIT BREAKER

FUSE

DRAWOUT POWER CIRCUIT BREAKER

MOLDED CASE CIRCUIT BREAKER

THERMAL OVERLOAD RELAY

GROUND

CURRENT TRANSFORMER NUMBER
DENOTES QUANTITY

POTENTIAL TRANSFORMER
NUMBER DENOTES QUANTITY

DRAW-OUT ELEMENT

ALTERNATOR OR MANUAL
TRANSFER SWITCH

MOTOR NUMBER DENOTES
HORSEPOWER

GENERATOR XX NUMBER DENOTES
REQUIRED KW RATING AND
VOLTAGE

EQUIPMENT/DEVICE LOCATION SYMBOLS

LOCATED AT MCC, COMBINATION
STARTER, OR BYPASS STARTER

LOCATED IN FIELD

LOCATED AT DCU 1A REMOTE
I/O RACK

LOCATED AT VFD

MISC PLAN VIEW SYMBOLS

EQUIPMENT CONNECTION

GROUND ROD

INSTRUMENT TRANSMITTER

COMMUNICATIONS

TELEPHONE OR NETWORK DROP

ETHERNET JACK

SINGLE LINE, CONT'D.

LINE REACTOR
X% NUMBER DENOTES
PERCENT IMPEDANCE

CAPACITOR

VOLTMETER AND SWITCH

SHUNT TRIP

SURGE PROTECTION DEVICE

LIGHTNING ARRESTOR

KIRK-KEY INTERLOCK

MINI POWER UNIT

VARIABLE FREQUENCY DRIVE

SITE DUCTBANKS

UNDERGROUND CONTROL

UNDERGROUND ELECTRICAL

UNDERGROUND FIBER

ABBREVIATIONS

A	AMPERE(S)	MAN	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)	NEC	NATIONAL ELECTRICAL CODE
ATS	AUTOMATIC TRANSFER SWITCH	NET	NETWORK (PANEL)
AUX	AUXILIARY	NF	NON-FUSED
AWG	AMERICAN WIRE GAGE	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	CORROSION RESISTANT	PP	POWER PANEL
CU	COPPER	RCPT	RECEPTACLE
DF	DUCT FAN	RGS	RIGID GALVANIZED STEEL
DH	DUCT HEATER	RIO	REMOTE INPUT/OUTPUT
DISC	DISCONNECT	R/S	RING SWITCH
EF	EXHAUST FAN	RVSS	REDUCED VOLTAGE SOFT STARTER
ELEV	ELEVATION	RVAT	REDUCED VOLTAGE AUTOTRANSFORMER
EMH	ELECTRICAL MANHOLE	SF	SUPPLY FAN
EMT	ELECTRICAL METALLIC TUBING	SHLD	SHIELDED
EQUIP	EQUIPMENT	SOL	SOLENOID
EXP	EXPLOSION PROOF	SP	SINGLE POLE
F	FUSED OR FUSE	SPD	SURGE PROTECTIVE DEVICE
FE	FLOW SENSOR	SST	STAINLESS STEEL
FIT	FLOW INDICATING TRANSMITTER	STR	STARTER
FLA	FULL LOAD AMPS	SW	SWITCH
FOPP	FIBER OPTIC PATCH PANEL	SWBD	SWITCHBOARD
FV(N)R	FULL VOLTAGE (NON) REVERSING	SWGR	SWITCHGEAR
G	GROUND	TB	TERMINAL BOX
GEN	GENERATOR	TPS	TWISTED PAIR SHIELDED
GF	GROUND FAULT	TYP	TYPICAL
GF(C)I	GROUND FAULT (CIRCUIT) INTERRUPTER	UGE	UNDERGROUND ELECTRICAL
HH-(P/C)	HANDHOLE (POWER/CONTROLS)	UGT	UNDERGROUND TELEPHONE
HOA	HAND-OFF-AUTOMATIC	UGCC	UNDERGROUND CONTROLS CABLE
HOR	HAND-OFF-REMOTE	UGF	UNDERGROUND FIBER
HP	HORSEPOWER	UH	UNIT HEATER
JB	JUNCTION BOX	UL	UNDERWRITERS LABORATORIES
KV	KILOVOLTS	UNO	UNLESS NOTED OTHERWISE
KVA	KILOVOLTS AMPS	V	VOLTS
KVAR	KILOVAR	VFD	VARIABLE FREQUENCY DRIVE
KW	KILOWATTS	VM	VOLTMETER
LCP	LOCAL CONTROL PANEL	VS	VOLTMETER SWITCH
LCS	LOCAL CONTROL STATION	W	WIRE/WATT
LE	LEVEL SENSOR	WH	WATER HEATER
LIT	LEVEL INDICATING TRANSMITTER	WP	WEATHERPROOF
LOR	LOCAL-OFF-REMOTE	XFMR	TRANSFORMER
LP	LIGHTING PANEL		
LTG	LIGHTING		
LV	LOW VOLTAGE		

GENERAL NOTES:

- 1 PROVIDE SPARES AND SPARE EQUIPMENT AS OUTLINED IN SPECIFICATIONS.
- 2 CONDUIT AND WIRE BETWEEN DEVICES (SUCH AS VERTICAL TURBINE PUMP MOTOR THERMOSTATS OR DISCONNECT AUX. CONTACTS) AND POWER EQUIPMENT (SUCH AS VFDs AND MOTOR STARTERS) WHERE NOT EXPLICITLY SHOWN SHALL BE #14, CONDUIT SIZE TO FOLLOW THE REQUIREMENTS SET FORTH IN THE NEC, 3/4" C MINIMUM EXPOSED, 1" C MINIMUM BURIED.
- 3 CONTRACTOR RESPONSIBLE FOR INFORMING THE ENGINEER DURING CONSTRUCTION OF ANY CONDITIONS ON SITE WHICH MAY PREVENT ANY ASPECT OF THE INSTALLATION FROM MEETING THE REQUIREMENTS SET FORTH IN THE NEC. SPECIAL CARE SHALL BE TAKEN WITH REGARDS TO CONDUIT FILL, CLEARANCE, JUNCTION/PULL BOX, AND CIRCUIT DISCONNECTING MEANS REQUIREMENTS.
- 5 ALL CONTROL PANELS AND LOCAL STATIONS NOT EXPLICITLY INDICATED TO HAVE A DISCONNECT SWITCH MOUNTED ADJACENT TO THE PANEL SHALL HAVE A MAIN CIRCUIT BREAKER WITH THRU PANEL OPERATOR WHICH SHALL BE LOCKABLE AND INTERLOCKED WITH THE PANEL DOOR AS NEEDED TO MEET THE REQUIREMENTS OF THE NEC.
- 6 CONTRACTOR RESPONSIBLE FOR ALL CONDUIT AND WIRE BETWEEN MECHANICAL EQUIPMENT (INCLUDING BUT NOT LIMITED TO UNIT HEATERS, EXHAUST FANS AND AIR CONDITIONING UNITS) AND CONTROLLERS (INCLUDING BUT NOT LIMITED TO MOTOR STARTERS, THERMOSTATS AND MOTOR OPERATED LOUVERS). FOR BID PURPOSES THIS IS TO BE 1" C, 4#14, #14G BETWEEN EACH PIECE OF EQUIPMENT AND CONTROLLER.
- 7 MANUFACTURER EQUIPMENT SHOWN FOR BIDDING PURPOSES ONLY. FINAL WIRING LIST TO BE PROVIDED BY EQUIPMENT SUPPLIER IN SHOP DRAWING SUBMITTAL. CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL WIRING AND CONDUIT BETWEEN THE MANUFACTURER'S CONTROL PANELS AND THE EQUIPMENT PROVIDED BY THE MANUFACTURER.

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	JANUARY 2026					
	PROJECT NUMBER					
		706524-04-001				



2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2

VILLAGE OF GROVER HILL, OHIO

ELECTRICAL LEGEND

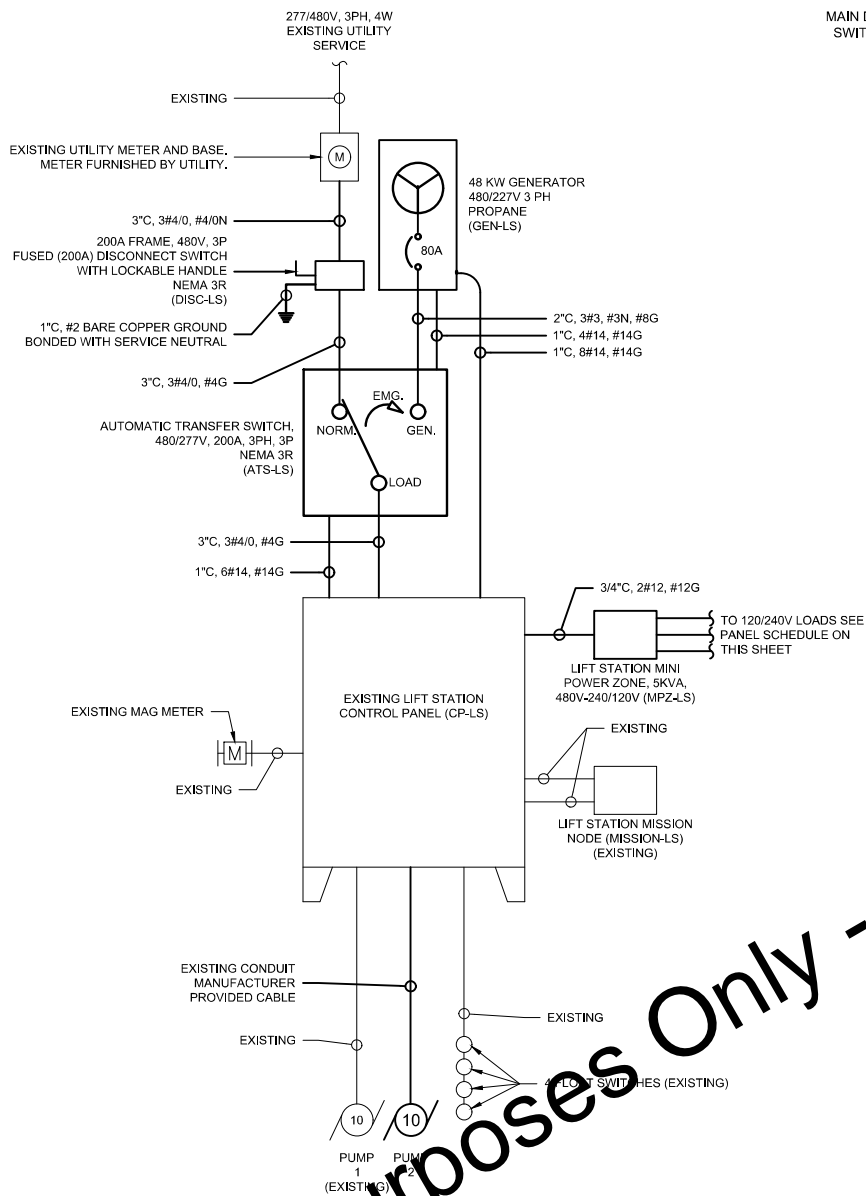
SHEET NO.

14

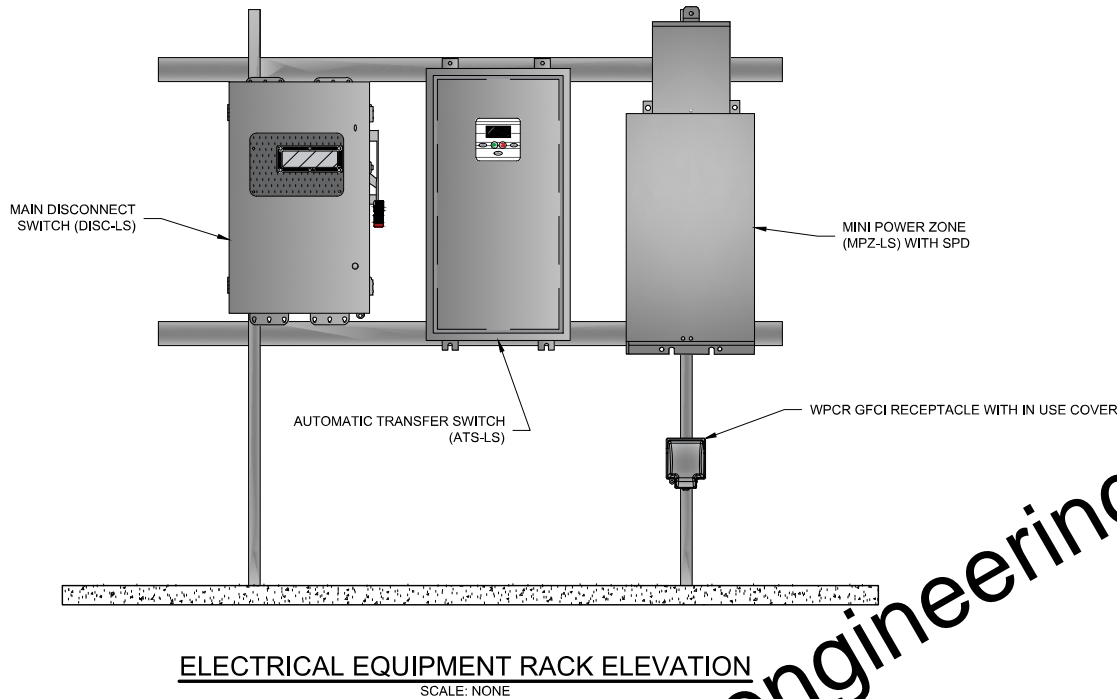
TOTAL SHEETS

18

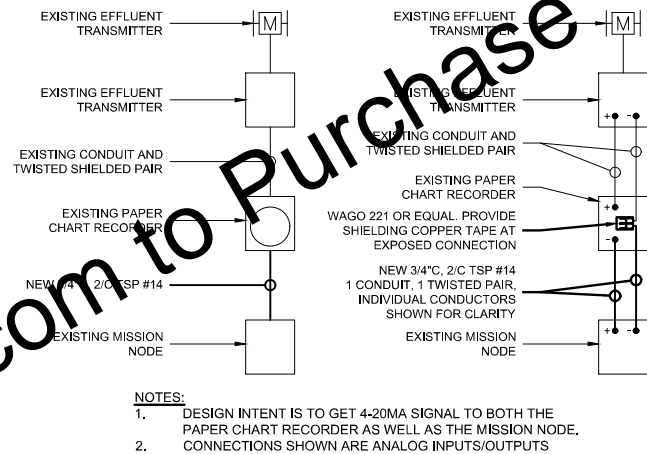
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LIFT STATION ONE-LINE DIAGRAM
SCALE: NONE



ELECTRICAL EQUIPMENT RACK ELEVATION
SCALE: NONE



WWTP EFFLUENT METER TO MISSION WIRING DIAGRAM
SCALE: NONE

GENERAL NOTES:

- ALL NEW ELECTRICAL ENCLOSURES TO BE NEMA 3R.

CONDUIT AND WIRE:

- 3/4" C, #12, #12N, #12G
- 3/4" C, 2#12, #12N, #12G
- 3/4" C, 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		#	LOAD DESCRIPTION	CKT. NO.	
				AMPS	POLE	A	B	AMPS	POLE				
1	GENERATOR MISC LOAD 1	2	1.00	20	2	1.50		20	1	0.50	1	GENERATOR MISC LOAD 2	2
3			1.00				1.50	20	1	0.50	1	GENERATOR MISC LOAD 3	4
5	CONVENIENCE RECEPTACLE	1	0.50	20	1	0.50		20	1			SPARE	6
7	SPARE			20	1		0.00	20	1			SPARE	8
9	SPARE			20	1	0.00		20	1			SPARE	10
11	SPARE			20	1		0.00	20	1			SPARE	12
13	SPARE			20	1	0.00		30	2		3	SPD	14
15	SPARE			20	1		0.00						16
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													

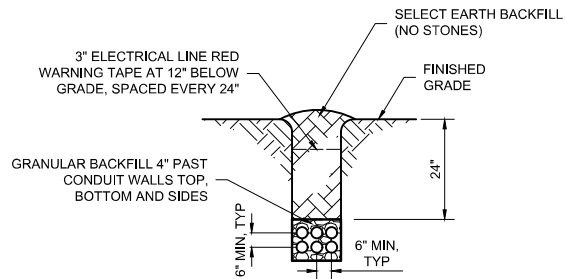
MPZ-LS PANEL SCHEDULE
SCALE: NONE

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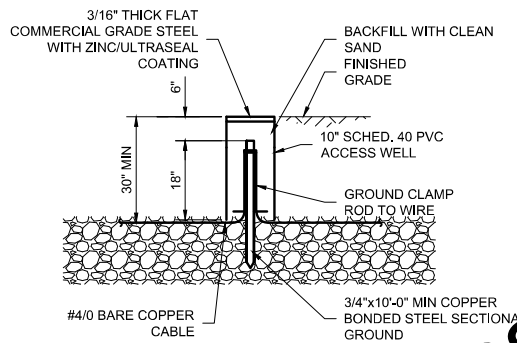


2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2
VILLAGE OF GROVER HILL, OHIO
ONE LINE DIAGRAMS AND DETAILS

SHEET NO.
15
TOTAL SHEETS
18

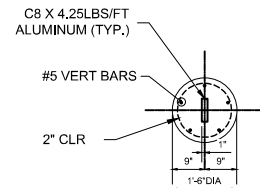


CONDUIT TRENCH
SCALE: NONE

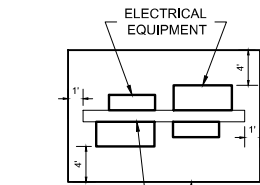


NOTES:
1. REFER TO JOB SPECIFICATION FOR MINIMUM SYSTEM RESISTANCE TO GROUND. IF THE RESISTANCE CANNOT BE MET WITH SINGLE RODS, ADD ADDITIONAL SECTIONS TO RODS OR ADD NEW RODS AS REQUIRED, SPACED 6'-0" TO 10'-0" FROM EXISTING RODS.

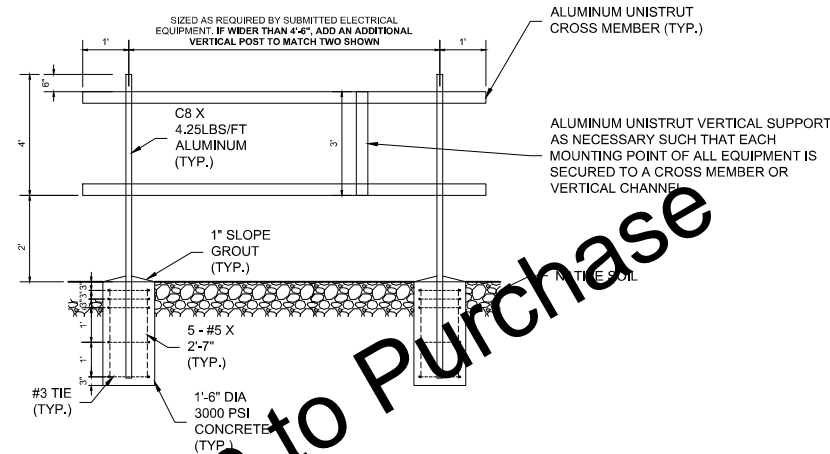
ELECTRICAL INSTALLATION
AND GROUND ROD ASSEMBLY
SCALE: NONE



VERTICAL POST PLAN

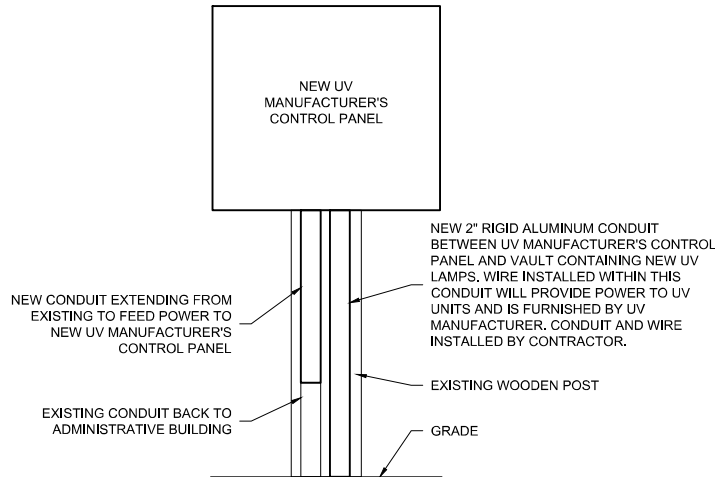


STONE RACK PLAN




NOTES:
1. ALL HARDWARE ANCHORS, BOLTS, WASHERS AND ALL OTHER HARDWARE TO BE STAINLESS STEEL.
2. WHERE ALUMINUM COMES IN CONTACT WITH CONCRETE, COAT WITH BITUMINOUS.

ELECTRICAL EQUIPMENT RACK
SCALE: NONE



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 #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

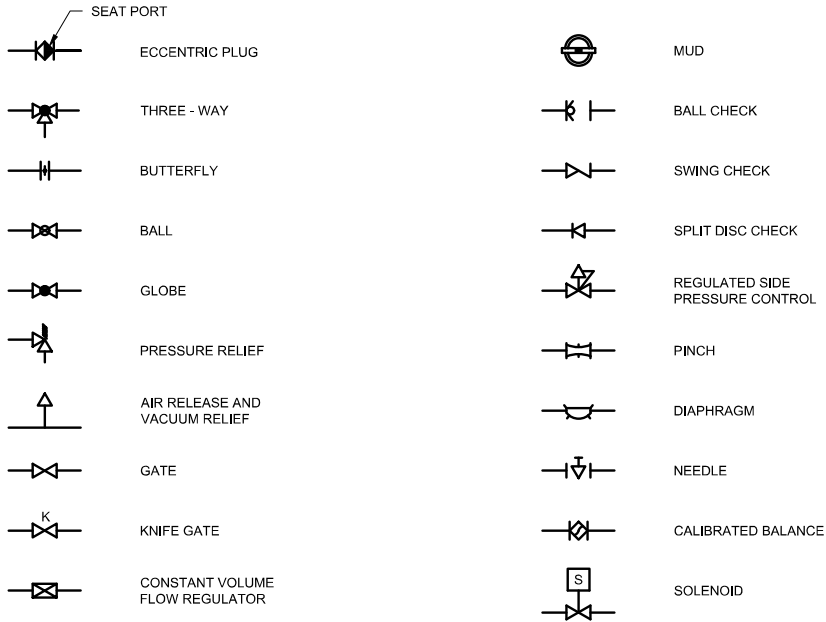
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	PROJECT NUMBER					
		706524-04-001				



2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2	SHEET NO.
VILLAGE OF GROVER HILL, OHIO	16
ELECTRICAL DETAILS	TOTAL SHEETS
	18

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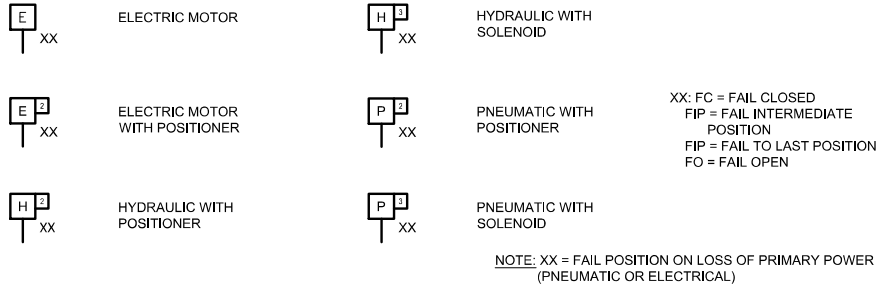
VALVE SYMBOLS



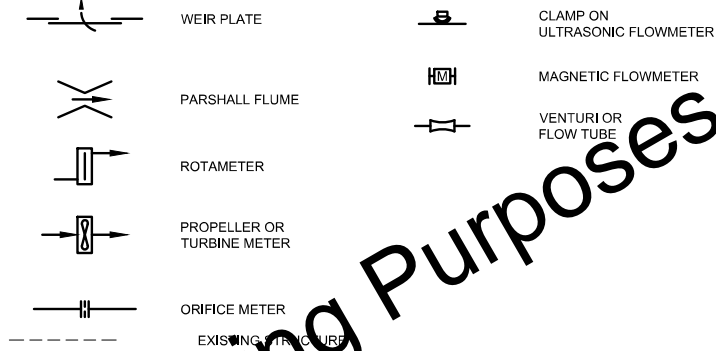
GATE SYMBOLS



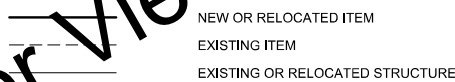
VALVE AND GATE POWER ACTUATOR SYMBOLS



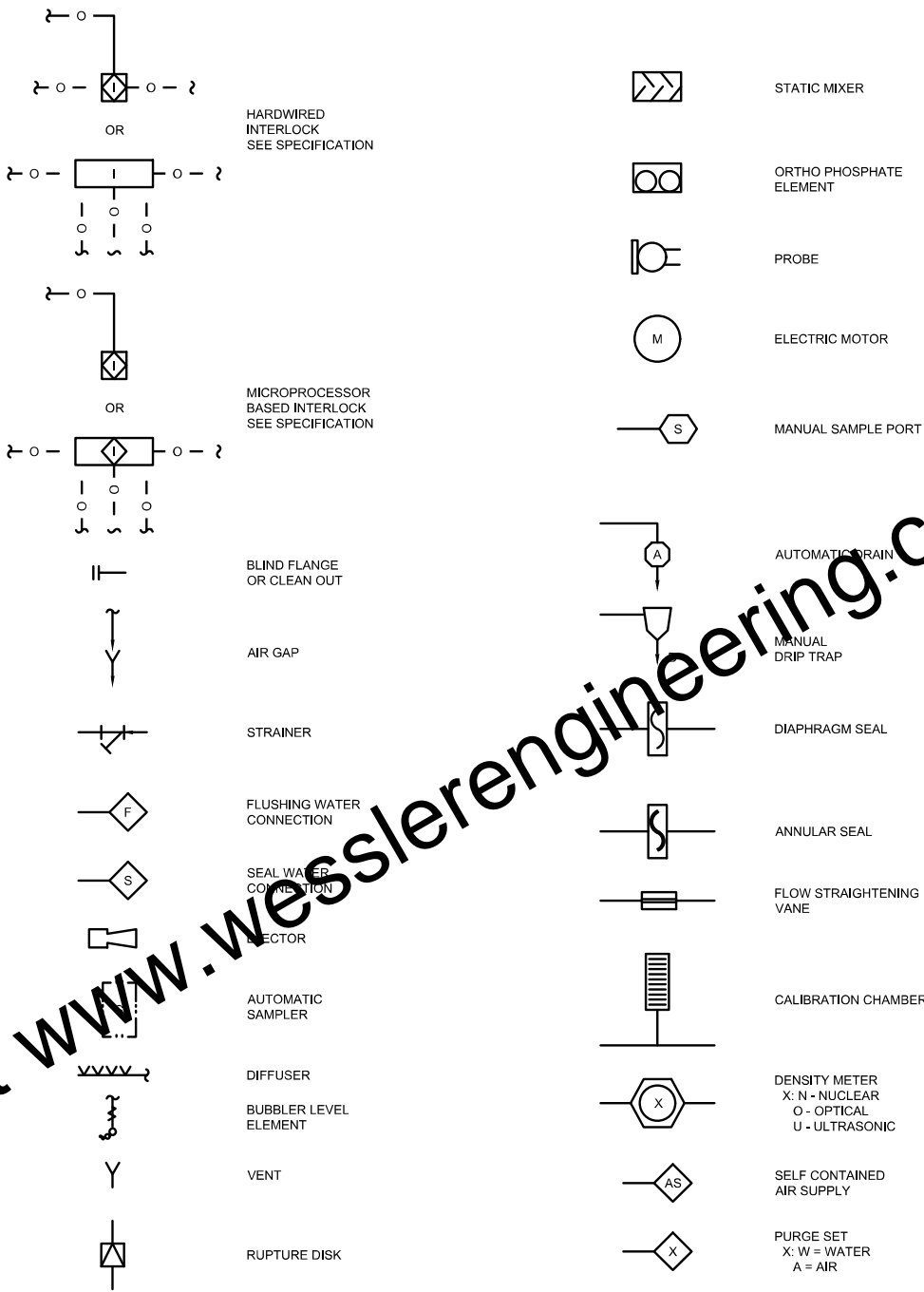
FLOW ELEMENTS SYMBOLS



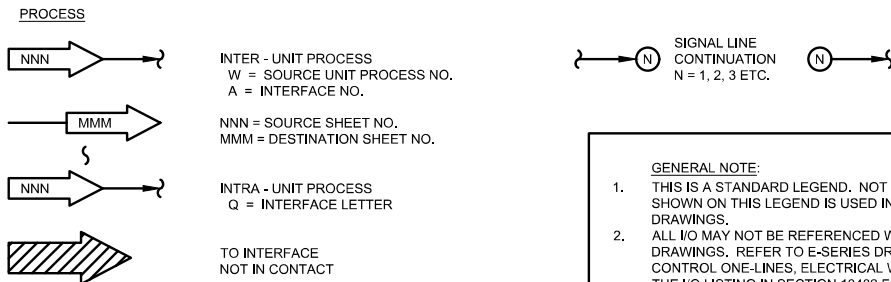
STRUCTURES AND EQUIPMENT



MISCELLANEOUS SYMBOLS

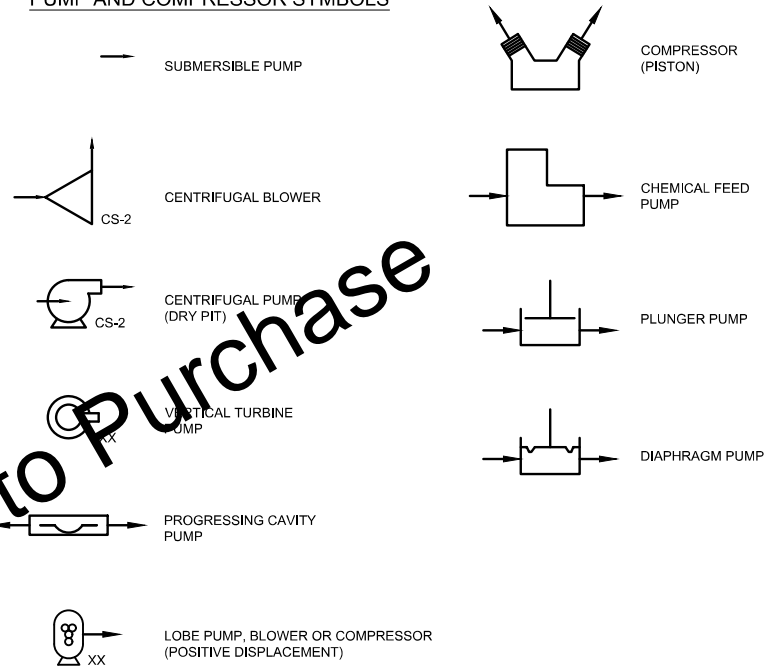


INTERFACE SYMBOLS

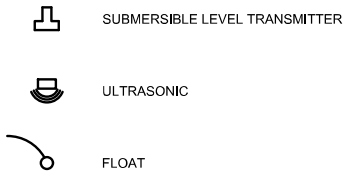


- GENERAL NOTE:
- THIS IS A STANDARD LEGEND. NOT ALL THE INFORMATION SHOWN ON THIS LEGEND IS USED IN THESE CONTRACT DRAWINGS.
 - ALL I/O MAY NOT BE REFERENCED WITHIN THE N-SERIES DRAWINGS. REFER TO E-SERIES DRAWINGS, INCLUDING CONTROL ONE-LINES, ELECTRICAL WIRING SCHEMATICS, AND THE I/O LISTING IN SECTION 13482 FOR ADDITIONAL I/O REQUIREMENTS.

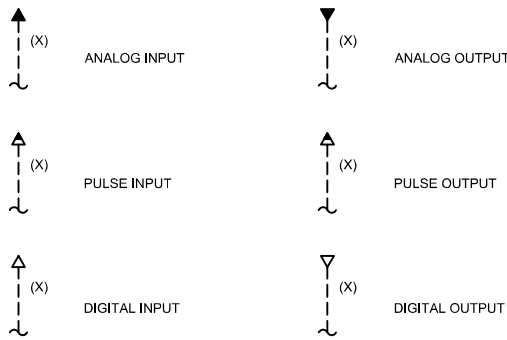
PUMP AND COMPRESSOR SYMBOLS



LEVEL ELEMENTS SYMBOLS



INPUTS AND OUTPUTS TO PLC OR DISTRIBUTED CONTROL



NOTE:
X = TOTAL NUMBER OF SIGNALS WHERE MORE THAN ONE SIGNAL IS REQUIRED. IF QUANTITY IS NOT SHOWN THEN ONE SIGNAL IS REQUIRED.

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2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2

VILLAGE OF GROVER HILL, OHIO

PROCESS AND INSTRUMENTATION LEGEND

SHEET NO.

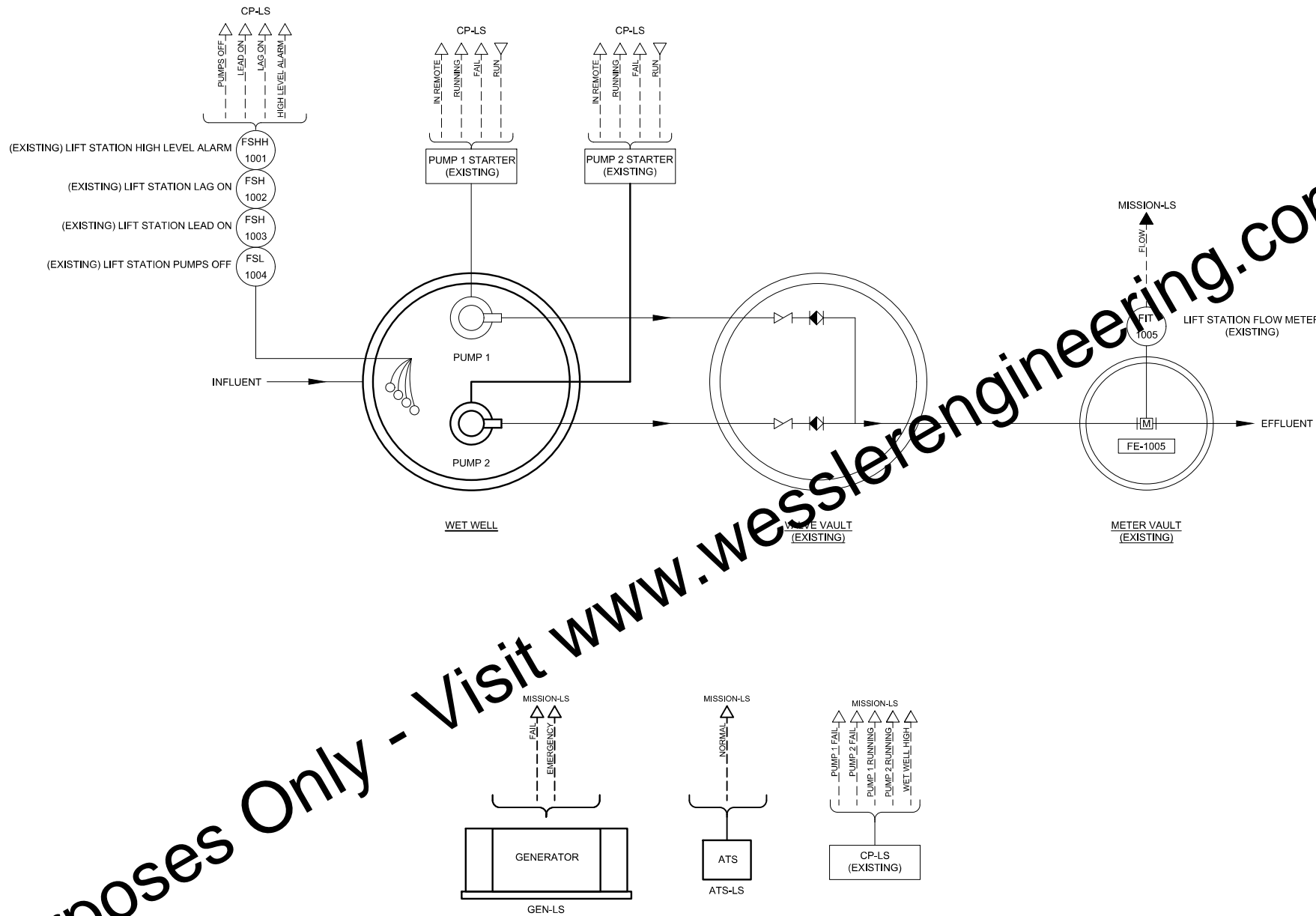
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TOTAL SHEETS

18

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2024 WASTEWATER SYSTEM IMPROVEMENTS: PHASE 2	
VILLAGE OF GROVER HILL, OHIO	
PROCESS AND INSTRUMENTATION DIAGRAM	

SHEET NO.
18
TOTAL SHEETS
18