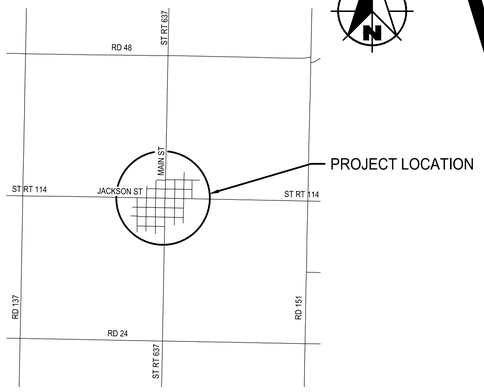
WASTEWATER SYSTEM IMPROVEMENTS
FOR THE
VILLAGE OF GROVER HILL, OHIO



GROVER HILL, OH
VICINITY MAP

STATE LOCATION MAP
SCALE: NONE

WESSLER
ENGINEERING

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

PROJECT NO. 701218-04-001

DRAWINGS PREPARED FOR:

VILLAGE COUNCIL

JOHN MOON, MAYOR
JESSIE LEWIS, MEMBER
DEWAYNE HINCHCLIFF, MEMBER
TRUDY WILKIN, MEMBER
PATRICK COMER, MEMBER
SHANNON COMER, MEMBER
TRACY POLING, MEMBER
SUSAN MOON, FISCAL OFFICER

PAULDING COUNTY COMMISIONERS

MARK HOLTSBERRY
ROY KLOPFENSTEIN
TONY ZARTMAN

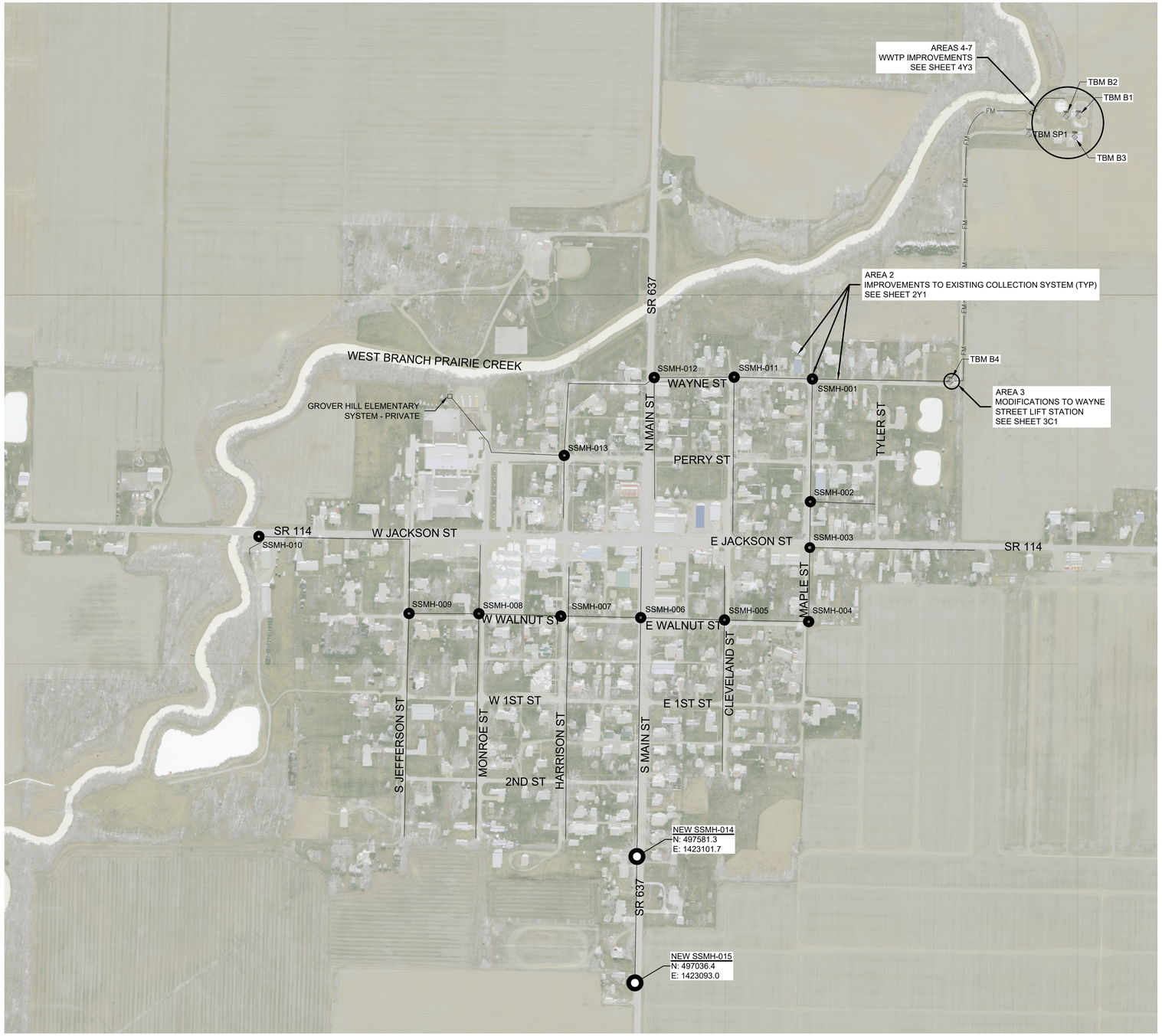
DECEMBER 2020

STATE OF OHIO
RYAN KENT BRAUEN
E-79180
REGISTERED
PROFESSIONAL ENGINEER
12/10/2020

RYAN K. BRAUEN
REGISTERED ENGINEER STATE OF OHIO NO. E-79180

STATE OF OHIO
JEFFREY ROSS BALLARD
PE-80330
REGISTERED
PROFESSIONAL ENGINEER
12/10/2020

JEFFREY R. BALLARD
REGISTERED ENGINEER STATE OF OHIO NO. PE-80330
COVERING STRUCTURAL DESIGN



OSIP II IMAGERY FROM OHIO GEOGRAPHICALLY REFERENCED INFORMATION SYSTEM.

LOCATION AND SCOPE OF WORK PLAN

0 125 250 500 FT
1"=250'

LEGEND

- NEW MANHOLE
- EX MANHOLE
- EX GRAVITY SEWER
- FM — EX FORCE MAIN

DRAWING INDEX

PAGE NUMBER	SHEET NUMBER	SHEET TYPE DEFINITIONS:
		G - GENERAL
		D - DEMOLITION
		A - ARCHITECTURAL
		C - CIVIL/PROCESS
		S - STRUCTURAL
		H - HEATING, VENTILATION AND AIR CONDITIONING
		P - PLUMBING
		E - ELECTRICAL
		N - INSTRUMENTATION AND CONTROL
		Y - SITE
		R - RESTORATION
		GENERAL INFORMATION (AREA 1)
1	1G1	TITLE SHEET
2	1G2	DRAWING INDEX, AND LOCATION AND SCOPE OF WORK PLAN
3	1G3	GENERAL NOTES, UTILITIES, ABBREVIATIONS AND LEGEND
4	1E1	ELECTRICAL SYMBOLS & ABBREVIATIONS
		COLLECTION SYSTEM (AREA 2)
5	2Y1	COLLECTION SYSTEM OVERVIEW
6	2Y2	COLLECTION SYSTEM PARTIAL SITE PLAN - NORTHWEST
7	2Y3	COLLECTION SYSTEM PARTIAL SITE PLAN - SOUTHWEST
8	2Y4	COLLECTION SYSTEM PARTIAL SITE PLAN - NORTHEAST
9	2Y5	COLLECTION SYSTEM PARTIAL SITE PLAN - SOUTHEAST
10	2Y6	SEPTIC TANK DETAILS
11	2Y7	SEPTIC TANK DETAILS
12	2Y8	SEPTIC TANK DETAILS
		WAYNE STREET LIFT STATION (AREA 3)
13	3C1	WAYNE STREET LIFT STATION - DEMOLITION AND MODIFICATION PLANS AND SECTIONS
14	3E1	LIFT STATION - ELECTRICAL MODIFICATIONS
		WWTP (AREA 4)
15	4G1	WWTP - PARITAL HYDRAULIC PROFILE AND FLOW DIAGRAM
16	4Y1	WWTP - EXISTING SITE PLAN
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20	4C2	WWTP - MODIFICATIONS AT EXISTING FLOW SPLITTER MANHOLE AND EFFLUENT STRUCTURES
21	4C3	WWTP - UV DISINFECTION SYSTEM PLANS AND SECTION
22	4E1	WWTP - ELECTRICAL SITE PLAN
		SLUDGE DEWATERING (AREA 5)
23	5C1	SLUDGE DEWATERING - STORAGE BUILDING DEMOLITION PLAN
24	5C2	SLUDGE DEWATERING - STORAGE BUILDING MODIFICATION PLAN AND SECTIONS
25	5S1	SLUDGE DEWATERING - DEWATERING PAD PLAN, SECTIONS AND DETAILS
26	5E1	SLUDGE DEWATERING - STORAGE BUILDING POWER PLAN
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27	6C1	MISCELLANEOUS DETAILS
28	6C2	MISCELLANEOUS DETAILS
		ELECTRICAL (AREA 7)
29	7E1	ELECTRICAL SINGLE LINE

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

SCALE VERIFICATION
BAR IS ONE INCH LONG ON ORIGINAL DRAWING

DRAWN BY	MRE
CHECKED BY	ANW
APPROVED BY	RKB
ISSUE DATE	DECEMBER 2020
PROJECT NUMBER	701218-04-001

NO.	DATE	INITIALS	REVISION DESCRIPTIONS

STATE OF OHIO
RYAN KENT BRAUEN
E-79180
REGISTERED
PROFESSIONAL ENGINEER
12/10/2020

WESSLER ENGINEERING
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WASTEWATER SYSTEM IMPROVEMENTS

VILLAGE OF GROVER HILL, OHIO

DRAWING INDEX, AND LOCATION AND SCOPE OF WORK PLAN

SHEET NO. 1G2

PAGE NO. 2

EXISTING FEATURES LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
BM	BENCH MARK	CB	CISTERN		EASEMENT - CONSTRUCTION/PERMANENT
TBM	TEMPORARY BENCH MARK	EM	ELECTRIC METER		LOT BOUNDARY
SB-01	SOIL BORING LOCATION	AC	AIR CONDITIONING UNIT	PL	PROPERTY BOUNDARY
	SECTION CORNER	XXX	UTILITY RISER (DEFINED BY UTILITY)		RIGHT-OF-WAY - TEMPORARY/PERMANENT
	DRILL HOLE IN CONCRETE/HARRISON MONUMENT	XXX	UTILITY PEDESTAL (DEFINED BY UTILITY)		SECTION BOUNDARY
CP	CONTROL POINT (SET/FOUND)	X	UTILITY MARKER (DEFINED BY UTILITY)		WETLANDS
MS	MAGNETIC NAIL (SET/FOUND)	J	JOINT POWER/TELEPHONE POLE	849	CONTOUR - INTERMEDIATE ELEVATION
BS	BOAT SPIKE (SET/FOUND)	L	LIGHT POLE	850	CONTOUR - INDEX ELEVATION
PK	PK NAIL (SET/FOUND)	LP	LIGHT ON POWER POLE	OHE OHE	OVERHEAD ELECTRIC
RS	RAILROAD SPIKE (SET/FOUND)	LJ	LIGHT ON JOINT POLE	OHC OHC	OVERHEAD CABLE TV
R/W	R/W MARKER - CONCRETE/GRANITE/STONE	P	POWER POLE	OHT OHT	OVERHEAD TELEPHONE
	IRON PIPE/IRON PIN/REBAR (WITH DIAMETER)	T	TELEPHONE POLE	UGC UGC	UNDERGROUND CABLE TV
BP	BRASS PLUG		LAMP POST	UGE UGE	UNDERGROUND ELECTRIC
C	CABLE TV MANHOLE		GUY ANCHOR	UGF UGF	UNDERGROUND FIBER OPTIC
E	ELECTRIC MANHOLE		GUY POLE OR STUB	G G G	GAS MAIN
G	GAS MANHOLE		CONTROLLER CABINET	DG DG	DIGESTER GAS
O	OTHER MANHOLE	FP	FLAG POLE	P P P	PETROLEUM MAIN
T	TELEPHONE MANHOLE		POST	UGT UGT	UNDERGROUND TELEPHONE
TEL	TELEPHONE VAULT		GROUND LIGHT	W W W	WATER MAIN
I	TRAFFIC MANHOLE	M	MAILBOX	W W W	WATER SERVICE
H	TRAFFIC HANDHOLE	M M	DOUBLE/MULTIPLE MAILBOX	FM FM	FORCEMAIN
W	WATER MANHOLE		MAST ARM POLE		GRAVITY SEWER PIPE
A	AIR RELEASE VALVE		TRAFFIC SIGNAL STRAIN POLE		PLANT CHLORINE PIPE
S	SANITARY SEWER MANHOLE		SIGNAL LOOP DETECTOR BOX		TOP OF BANK/TOE OF SLOPE
D	DRAINAGE/STORM SEWER MANHOLE		SIGNAL LOOP DETECTOR LOOP		CENTERLINE OF DITCH/SWALE/STREAM
CO	SANITARY SEWER CLEANOUT		SIGN - SINGLE POST	x x x x x x x x x	FENCE - FIELD
ST	SEPTIC TANK		SIGN - DOUBLE POST	o o o o o o o o o	FENCE - METAL
VV	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		
DS	DOWNSPOUT		TREE - DECIDUOUS		
GM	GAS METER		ROCK OUTCROP		
GV	GAS VALVE	SAT	SATELLITE		
GSO	GAS SERVICE VALVE	SPH	SPRINKLER CONTROL VALVE		
PV	PETROLEUM VALVE	WM	WATER METER		
PSO	PETROLEUM SHUTOFF VALVE	WV	WATER VALVE		
GMW	GAS STATION MONITORING WELL	WSO	WATER SERVICE VALVE		
GFC	GAS STATION FILL CAP	W	WATER WELL		
GW	NATURAL GAS WELL/STORAGE WELL	WW	WET WELL		
SP	SPRINKLER HEAD		FIRE HYDRANT		
	YARD HYDRANT		PROCESS VALVE		

*NOTE: THIS TABLE IS A LISTING OF TYPICAL EXISTING SYMBOLS AND MAY NOT INCLUDE ALL EXISTING SYMBOLS FOUND WITHIN THIS PLAN SET. ALL PROPOSED 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.

Ohio Utilities Protection Service
Call 811 before you dig

UTILITY CONTACTS

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

SEWER
VILLAGE OF GROVER HILL
104 SOUTH MAIN STREET
GROVER HILL, OHIO 45849
419-234-7630
ATTN: JOHN MOON, 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

TABLE OF ABBREVIATIONS

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

*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:

1. 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.
2. 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.
3. 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.
4. 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.
5. OBTAIN ALL TEMPORARY EASEMENTS REQUIRED FOR THE CONSTRUCTION OF THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.
6. 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.
7. PRIVATE WELLS EXIST THROUGHOUT THE PROJECT LIMITS AND LOCATIONS WERE NOT LOCATED BY WESSLER ENGINEERING. IDENTIFY AND PROTECT WELLS WITHIN THE PROJECT AREA.
8. 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 LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY. CONTACT NON-MEMBER UTILITIES DIRECTLY.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. BRACE AND PROTECT ALL UTILITY POLES AND EXISTING STRUCTURES ADJACENT TO NEW EXCAVATIONS. UTILITY POLE BRACING SHALL BE AS DIRECTED BY THE GOVERNING UTILITY.
15. MAINTAIN EXISTING STORMWATER DRAINAGE FOR THE ENTIRE DURATION OF THE PROJECT.
16. DO NOT DISTURB EXISTING MANHOLES OR INLETS, UNLESS NOTED OTHERWISE.
17. 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.
18. COORDINATE STAGING AREA LOCATIONS WITH THE OWNER.
19. ALL CONSTRUCTION TRAFFIC SHALL USE MAJOR ROADS. NO CONSTRUCTION TRAFFIC SHALL USE LOCAL STREETS FOR INDIRECT ACCESS.
20. TO CONTROL DUST, REMOVE SOIL FROM STREETS USED BY CONSTRUCTION TRAFFIC DAILY, VACUUM AND WATER AS NECESSARY AND/OR AS DIRECTED BY THE OWNER.
21. PLACE NEW ASPHALT PAVEMENT FLUSH WITH ADA RAMPS.
22. 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.
23. 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.
24. 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.
25. INSPECT THE SITE PRIOR TO BIDDING TO UNDERSTAND THE EXTENT OF THE WORK INVOLVED AND ADJUST BID ACCORDINGLY.
26. 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.
27. 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.
28. LENGTHS OF SEWERS AS SHOWN ON THE DRAWINGS AND INDICATED AS LINEAR FEET (LF) ARE FROM CENTER TO CENTER OF STRUCTURES.
29. NORTHING AND EASTING INFORMATION IS GIVEN AT CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
30. PLACE NO. 8 CRUSHED AGGREGATE BETWEEN PIPES AT ALL PIPE CROSSINGS TO PREVENT PIPE SETTLEMENT UNLESS SHOWN OTHERWISE.
31. VERIFY EXISTING SEWER INVERTS AND LOCATIONS PRIOR TO CONSTRUCTION AND DETERMINE IF THERE ARE ANY DISCREPANCIES OR CONFLICTS.
32. 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.
33. 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.
34. RESET ALL MAILBOXES AND SIGNS DISTURBED BY CONSTRUCTION ACTIVITIES.
35. IF REQUIRED, PLACE TEMPORARY OVERNIGHT AGGREGATE WEDGES AT DRIVEWAYS TO ALLOW PROPERTY OWNER ACCESS.

EROSION CONTROL NOTES:

1. 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.
2. 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.
3. INSTALL AND MAINTAIN CONCRETE WASHOUT AREAS AT ALL CONCRETE WORK LOCATIONS. REFER TO SITE STORM WATER POLLUTION PREVENTION PLAN (SWP3) FOR SPECIFICATIONS.
4. 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.

SCALE VERIFICATION	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	ANW				
	APPROVED BY	RKB				
	ISSUE DATE	DECEMBER 2020				
	PROJECT NUMBER	701218-04-001				

STATE OF OHIO — RYAN KENT BRAUEN — E-79180 — REGISTERED PROFESSIONAL ENGINEER — 12/10/2020

WESSLER ENGINEERING
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WASTEWATER SYSTEM IMPROVEMENTS

VILLAGE OF GROVER HILL, OHIO

GENERAL NOTES, UTILITIES, ABBREVIATIONS AND LEGEND

SHEET NO. 1G3

PAGE NO. 3

ELECTRICAL SYMBOLS

	DASH SYMBOL INDICATES PARTICULAR OUTLET OR DEVICE TO BE REMOVED AND CIRCUITRY MADE CONTINUOUS WHERE REQUIRED.
E	EXISTING OUTLET OR DEVICE TO REMAIN. MAINTAIN EXISTING CIRCUITING.
	ELECTRICAL CONNECTION
	20A–125V DUPLEX RECEPTACLE, NEMA 5–20R (18" MH UNLESS NOTED OTHERWISE)
	20A–125V SINGLE RECEPTACLE, NEMA 5–20R (18" MH UNLESS NOTED OTHERWISE)
	20A–125V DOUBLE DUPLEX RECEPTACLE, NEMA 5–20R, (18" MH UNLESS NOTED OTHERWISE) TWO GANG ASSEMBLY
	20A–125V DUPLEX RECEPTACLE, NEMA 5–20R (46" MH UNLESS NOTED OTHERWISE)
GFI	20A–125V DUPLEX RECEPTACLE, NEMA 5–20R, WITH GROUND FAULT CIRCUIT INTERRUPTER (18" MH UNLESS NOTED OTHERWISE)
WP	20A–125V WEATHERPROOF DUPLEX RECEPTACLE, NEMA 5–20R (HORIZONTAL 18" MH UNLESS NOTED OTHERWISE) WITH TAYMAC #10310 STANDARD COVER, VERTICAL MOUNT.
WP/GF	20A–125V WEATHERPROOF DUPLEX RECEPTACLE, NEMA 5–20R WITH GROUND FAULT CIRCUIT INTERRUPTER (18" MH UNLESS NOTED OTHERWISE), WITH TAYMAC #20310 STANDARD COVER, VERTICAL MOUNT.
J	JUNCTION BOX.
	SINGLE POLE SWITCH (46" MH UNLESS NOTED OTHERWISE)
M	FLUSH FRACTIONAL HORSEPOWER MOTOR STARTER WITH NEON PILOT LIGHT. ONE–GANG ASSEMBLY (46" MH UNLESS NOTED OTHERWISE)
H	HP RATED WALL SWITCH (46" MH UNLESS NOTED OTHERWISE)
	CIRCUIT BREAKER PANEL, FLUSH MOUNTED
	CIRCUIT BREAKER PANEL, SURFACE MOUNTED
	POWER PANEL OR SWITCHBOARD, SURFACE MOUNTED
PB	PULL BOX
	DISCONNECT SWITCH
	MOTOR STARTER
	COMBINATION MOTOR STARTER AND DISCONNECT SWITCH
	ELECTRIC MOTOR

GENERAL FLOOR PLAN NOTES

B / E2	DETAIL: B = DETAIL DESIGNATION. E2 = SHEET WHERE DETAIL IS LOCATED.
1 / E2	SECTION: 1 = SECTION DESIGNATION. E2 = SHEET WHERE SECTION IS LOCATED.
3	PLAN NOTE. APPLIES ONLY TO THE SHEET WHICH IT IS SHOWN UNLESS NOTED OTHERWISE.
3	DETAIL NOTE. APPLIES ONLY TO THE ASSOCIATED DETAIL.
	WIRE & CONDUIT IN WALL OR ABOVE CEILING.
	WIRE & CONDUIT IN OR BELOW FLOOR SLAB OR BELOW GRADE
	CONDUIT TO BE REMOVED
EXISTING	EXISTING WIRE & CONDUIT
X–1,3	EACH ARROWHEAD REPRESENTS ONE COMPLETE CIRCUIT. "X" DENOTES PANEL NAME; NUMBER(S) DENOTES CIRCUIT(S).

NOTE: ALL SYMBOLS AND ABBREVIATIONS ARE SUBJECT TO MODIFICATIONS ON OTHER DRAWINGS.

ALL SYMBOLS OR ABBREVIATIONS MIGHT NOT NECESSARILY BE USED ON THIS PROJECT.

ABBREVIATIONS

ACC – ACCESS
ADJ – ADJUSTABLE
AF – ARC FAULT CIRCUIT INTERUPTER
AFCI – ARC FAULT CIRCUIT INTERUPTER
AFF – ABOVE FINISHED FLOOR TO BOTTOM OF ITEM
AFG – ABOVE FINISHED GRADE TO BOTTOM OF ITEM
ALT – ALTERNATE
AP – ACCESS PANEL
APPROX – APPROXIMATE
ARCH – ARCHITECT OR ARCHITECTURAL
ASSY – ASSEMBLY
ATS – AUTOMATIC TRANSFER SWITCH

BLDG – BUILDING
BOE – BOTTOM OF EQUIPMENT
BOT – BOTTOM
BTWN – BETWEEN

CFCI – CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CKT – CIRCUIT
CLG – CEILING
CONN – CONNECT OR CONNECTION
CONTR – CONTRACTOR
CTR – CENTER

D – DEPTH
DET – DETAIL
DIA – DIAMETER
DIM – DIMENSION
DIV – DIVISION
DN – DOWN
DWG – DRAWING

EA – EACH
EC – ELECTRICAL CONTRACTOR (DIVISION 26)
ELEC – ELECTRICAL
ELEV – ELEVATION OR ELEVATOR
EM – EMERGENCY
EQ – EQUAL
EQS – EQUIPMENT SUPPLIER
EQUIP – EQUIPMENT
ETR – EXISTING TO REMAIN
EX – EXISTING
EXT – EXTERIOR

FF – FINISHED FLOOR ELEVATION
FLR – FLOOR
FT – FEET
FTG – FOOTING

GC – GENERAL CONTRACTOR
GF – GROUND FAULT CIRCUIT INTERRUPTER
GFCI – GOVERNMENT FURNISHED CONTRACTOR INSTALLED
GFFT – GROUND FAULT FEED THRU

HC – HVAC CONTRACTOR (DIVISION 23)
HP – HORSE POWER OR HIGH POINT
HVAC – HEATING, VENTILATING, AND AIR CONDITIONING
IN – INCHES

L – LENGTH
LBS – POUNDS

MAX – MAXIMUM
MFR – MANUFACTURER
MH – MANHOLE OR MOUNTING HEIGHT TO CENTER LINE OF ITEM
MIN – MINIMUM OR MINUTE
MISC – MISCELLANEOUS
MTD – MOUNTED
MTG – MOUNTING

NIC – NOT IN CONTRACT
NOM – NOMINAL
NTS – NOT TO SCALE

OD – OUTSIDE DIAMETER
OFCI – OWNER FURNISHED CONTRACTOR INSTALLED
OFOI – OWNER FURNISHED OWNER INSTALLED

PC – PLUMBING CONTRACTOR (DIVISION 22)
PLBG – PLUMBING

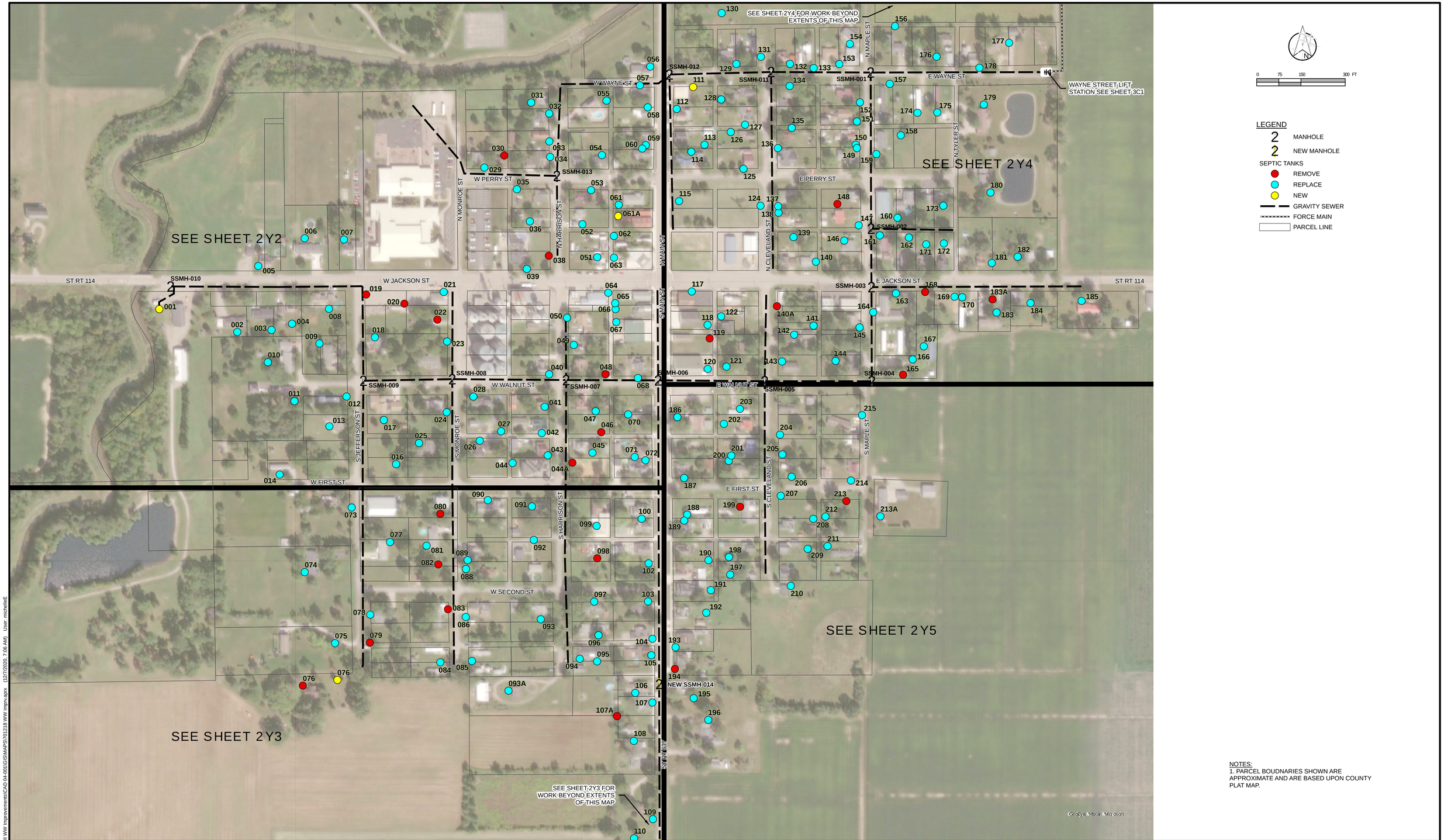
REC – RECESSED
REQD – REQUIRED
RI – ROUGH–IN

S – SURFACE MOUNTED
SC – SECURITY CONTRACTOR
SCH – SCHEDULE
SHT – SHEET
SPEC – SPECIFICATIONS
SQ – SQUARE
STD – STANDARD
STRUC – STRUCTURAL OR STRUCTURE
SUC – SITE UTILITY CONTRACTOR

TOE – TOP OF EQUIPMENT
TYP – TYPICAL

UNO – UNLESS NOTED OTHERWISE

W/ – WITH
W/O – WITHOUT
WP – WEATHERPROOF



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	APPROVED BY	RKB			
	ISSUE DATE	DECEMBER 2020			
	PROJECT NUMBER	701218-04-001			

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WESSLER ENGINEERING
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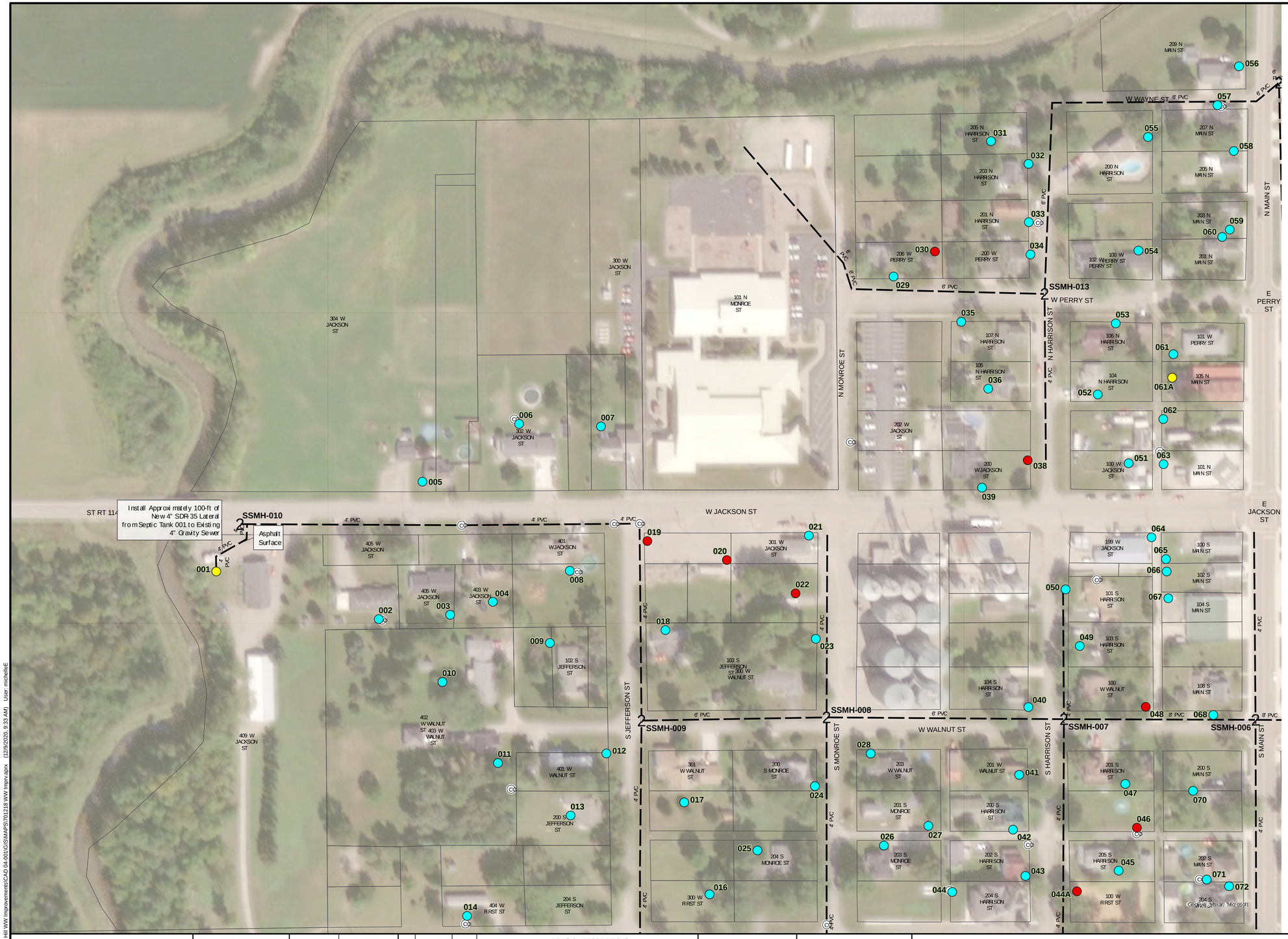
WASTEWATER SYSTEM IMPROVEMENTS

VILLAGE OF GROVER HILL, OHIO

COLLECTION SYSTEM OVERVIEW

SHEET NO. 2Y1

PAGE NO. 5



NOTES:
1. PARCEL BOUDNARIES SHOWN ARE APPROXIMATE AND ARE BASED UPON COUNTY PLAT MAP.

SCALE VERIFICATION	DRAWN BY	MRE	DATE	INITIALS	REVISION DESCRIPTIONS
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WASTEWATER SYSTEM IMPROVEMENTS

VILLAGE OF GROVER HILL, OHIO

COLLECTION SYSTEM PARTIAL SITE PLAN
NORTHWEST

SHEET NO. 2Y2

PAGE NO. 6

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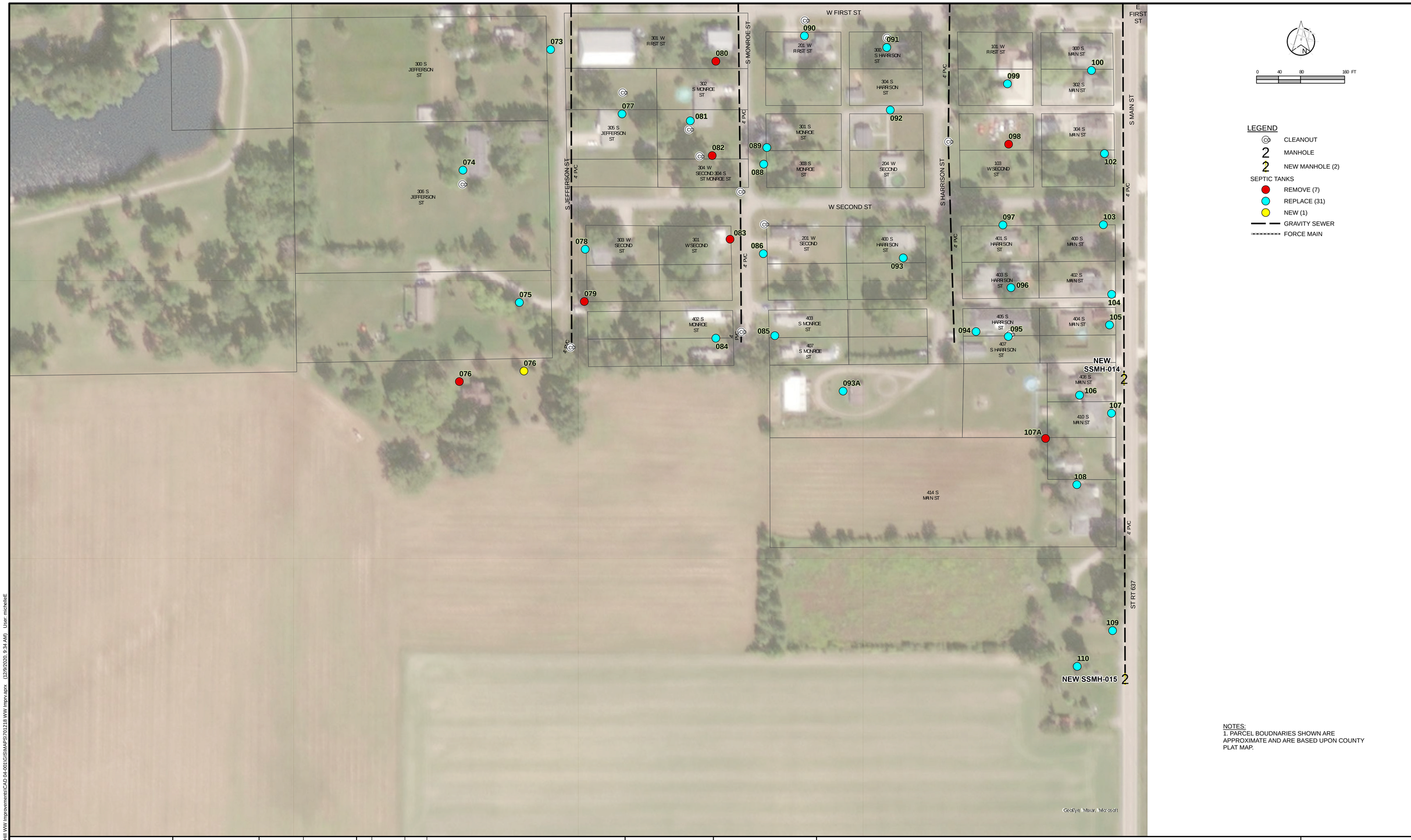

NOTES:
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	APPROVED BY	RKB					
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	PROJECT NUMBER	701218-04-001					

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WASTEWATER SYSTEM IMPROVEMENTS

VILLAGE OF GROVER HILL, OHIO

COLLECTION SYSTEM PARTIAL SITE PLAN
SOUTHWEST

SHEET NO. 2 Y 3

PAGE NO. 7

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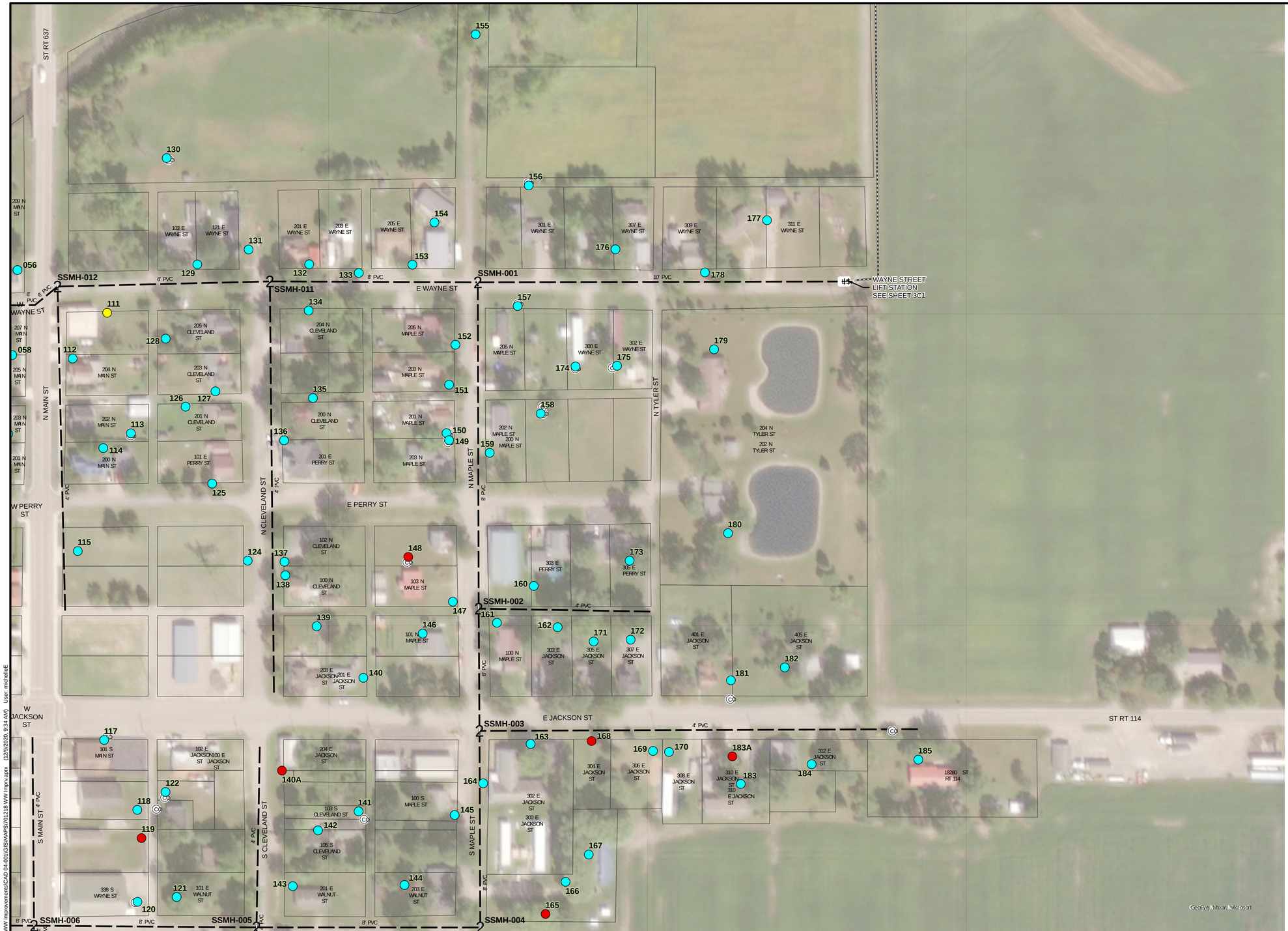

LEGEND

- CLEANOUT
- 2 MANHOLE
- 2 NEW MANHOLE (0)

SEPTIC TANKS

- REMOVE (6)
- REPLACE (71)
- NEW (1)
- GRAVITY SEWER
- FORCE MAIN

NOTES:
1. PARCEL BOUDNARIES SHOWN ARE APPROXIMATE AND ARE BASED UPON COUNTY PLAT MAP.

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WASTEWATER SYSTEM IMPROVEMENTS

VILLAGE OF GROVER HILL, OHIO

COLLECTION SYSTEM PARTIAL SITE PLAN
NORTHEAST

SHEET NO. 2Y4

PAGE NO. 8

LEGEND

- CO CLEANOUT
- 2 MANHOLE
- 2 NEW MANHOLE (1)

SEPTIC TANKS

- REMOVE (3)
- REPLACE (34)
- NEW (0)
- GRAVITY SEWER
- FORCE MAIN

NOTES:
1. PARCEL BOUDNARIES SHOWN ARE APPROXIMATE AND ARE BASED UPON COUNTY PLAT MAP.

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	ISSUE DATE	DECEMBER 2020					
	PROJECT NUMBER	701218-04-001					

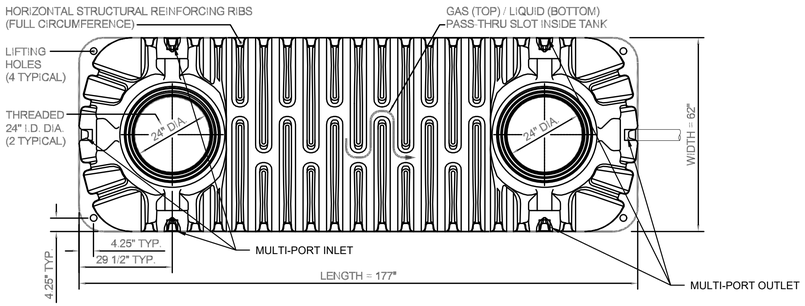
WASTEWATER SYSTEM IMPROVEMENTS

VILLAGE OF GROVER HILL, OHIO

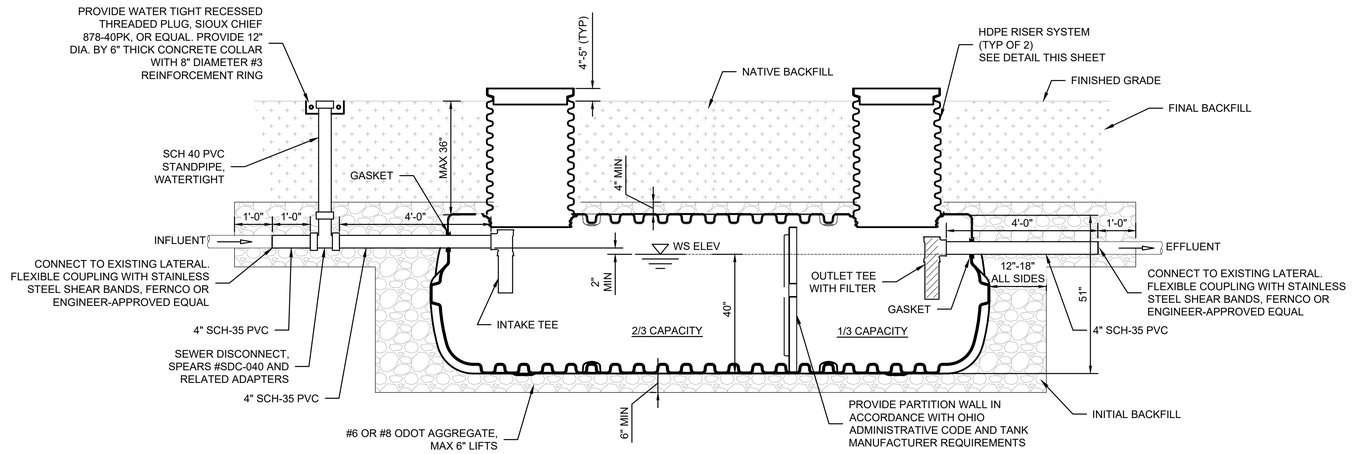
COLLECTION SYSTEM PARTIAL SITE PLAN
SOUTHEAST

SHEET NO. 2 Y5

PAGE NO. 9



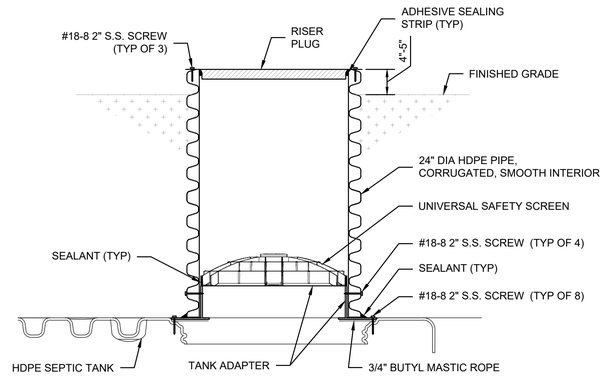
TOP PLAN



SECTION

HDPE, 1500

SCALE: 1/2" = 1'-0"



HDPE RISER SYSTEM

SCALE: 1" = 1'-0"

SCALE VERIFICATION	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS	
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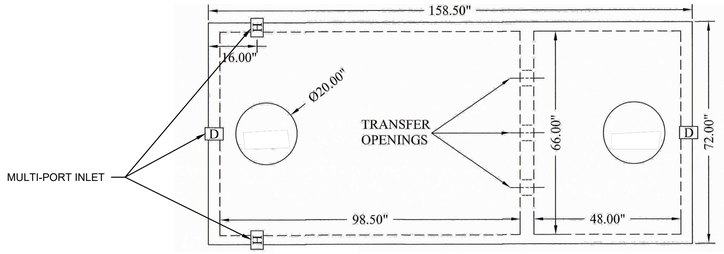
WASTEWATER SYSTEM IMPROVEMENTS

VILLAGE OF GROVER HILL, OHIO

SEPTIC TANK DETAILS

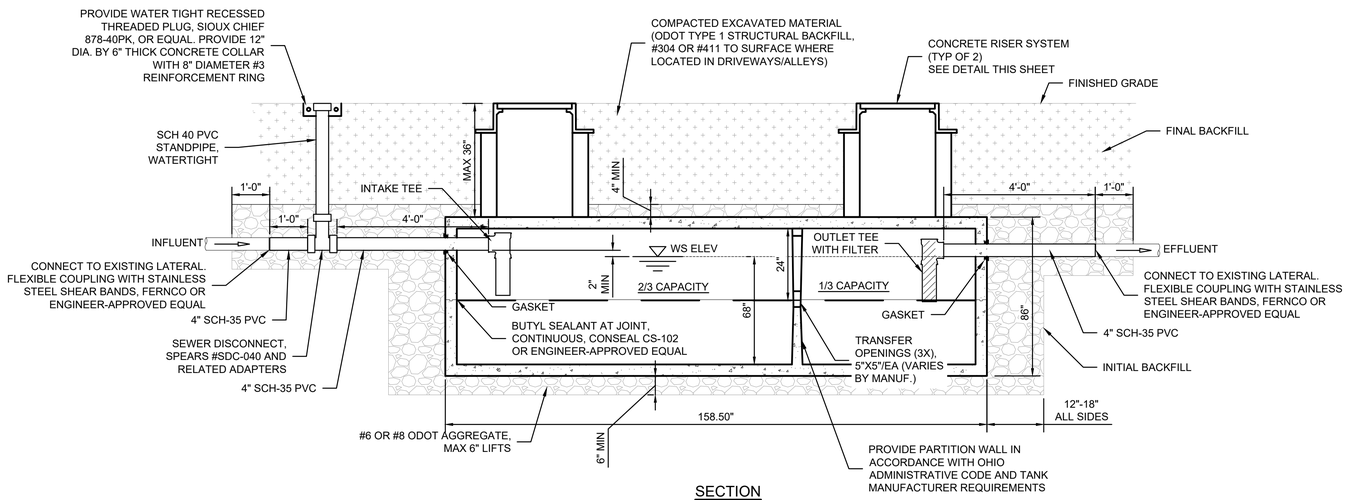
SHEET NO. **2Y6**

PAGE NO. **10**



TOP PLAN

SCALE: 1/2" = 1'-0"

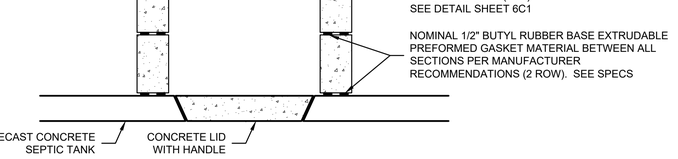


SECTION

PRECAST, 2500

SCALE: 1/2" = 1'-0"

NOTES:
1. DIMENSIONS VARY BY MANUFACTURER.



CONCRETE RISER SYSTEM

SCALE: 1" = 1'-0"

SCALE VERIFICATION	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS	
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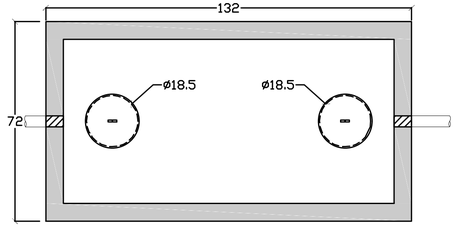
WASTEWATER SYSTEM IMPROVEMENTS

VILLAGE OF GROVER HILL, OHIO

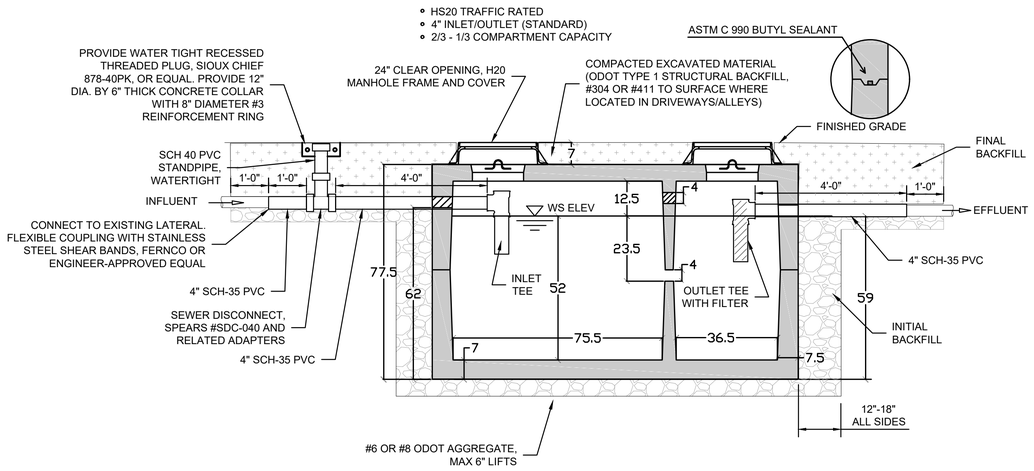
SEPTIC TANK DETAILS

SHEET NO. **2Y7**

PAGE NO. **11**



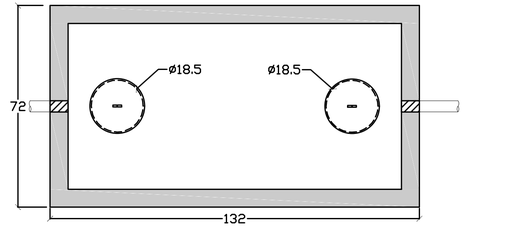
TOP PLAN



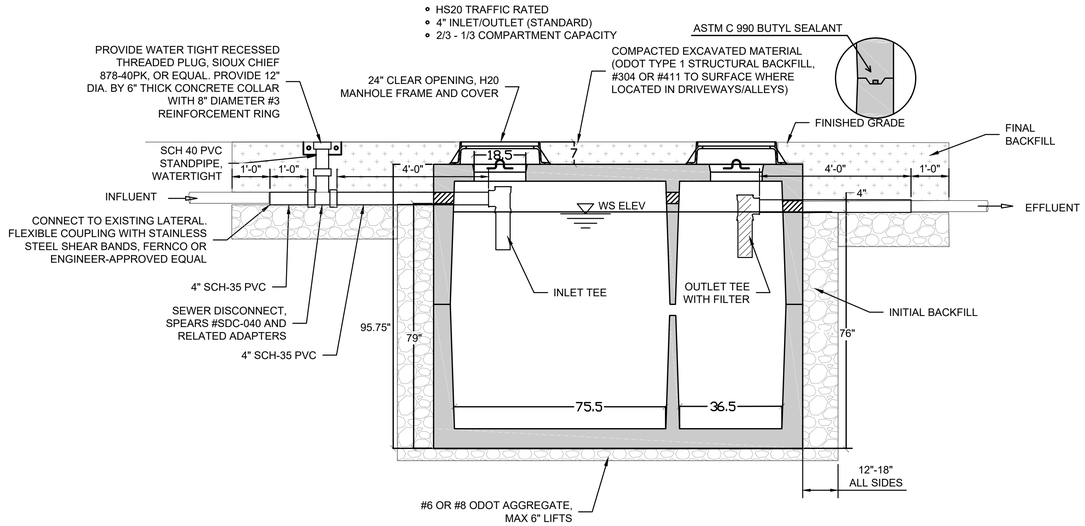
SECTION

H-20 PRECAST, 1500

SCALE: NONE



TOP PLAN



SECTION

H-20 PRECAST, 2000

SCALE: NONE

NOTES:
1. DIMENSIONS VARY BY MANUFACTURER.
2. PROVIDE 'CONCRETE RISER SYSTEM' AS REQUIRED TO MATCH FINISHED GRADE. (TYPICAL ALL ACCESS OPENINGS FOR PRECAST SEPTIC TANKS)

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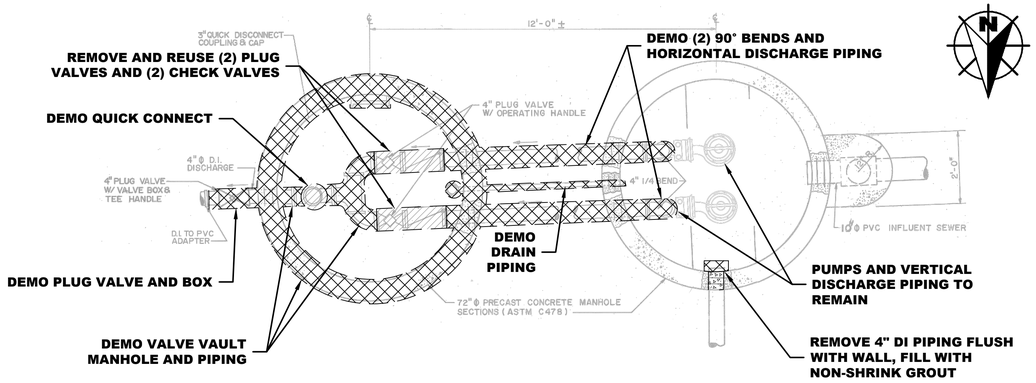
WASTEWATER SYSTEM IMPROVEMENTS

VILLAGE OF GROVER HILL, OHIO

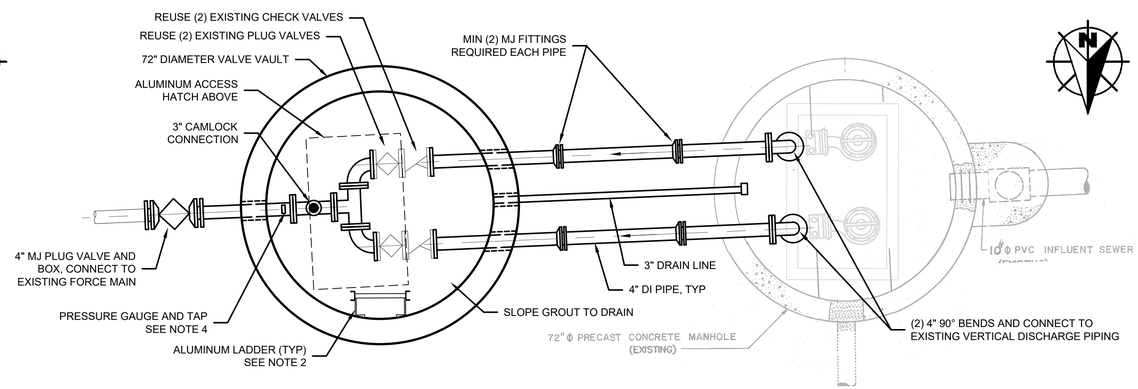
SEPTIC TANK DETAILS

SHEET NO. **2Y8**

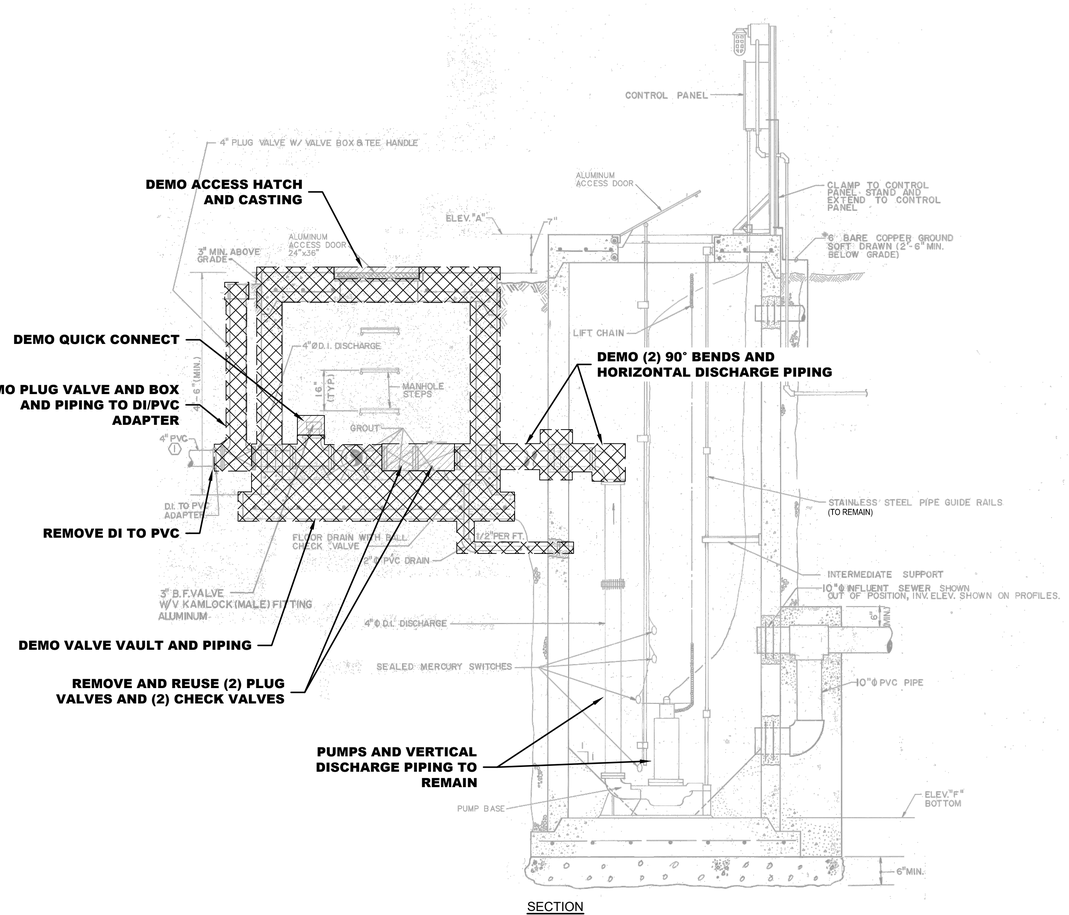
PAGE NO. **12**



PLAN



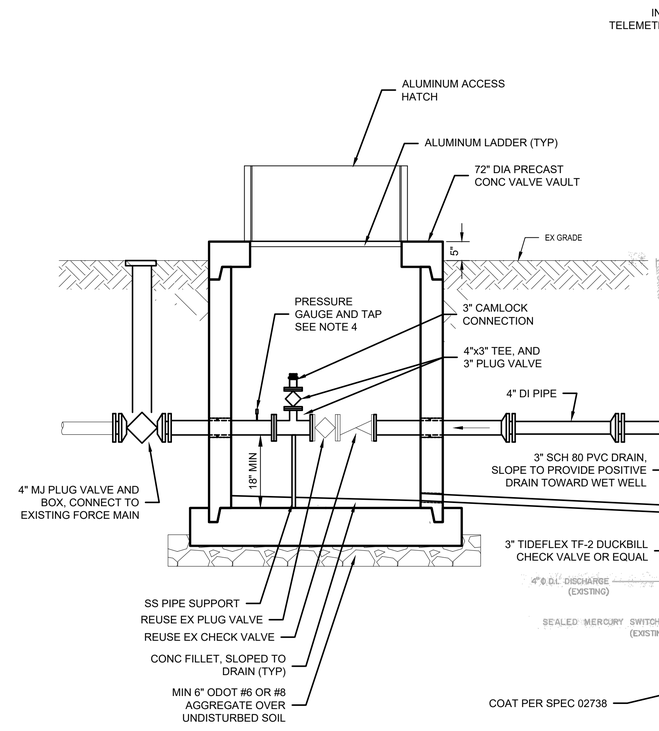
PLAN

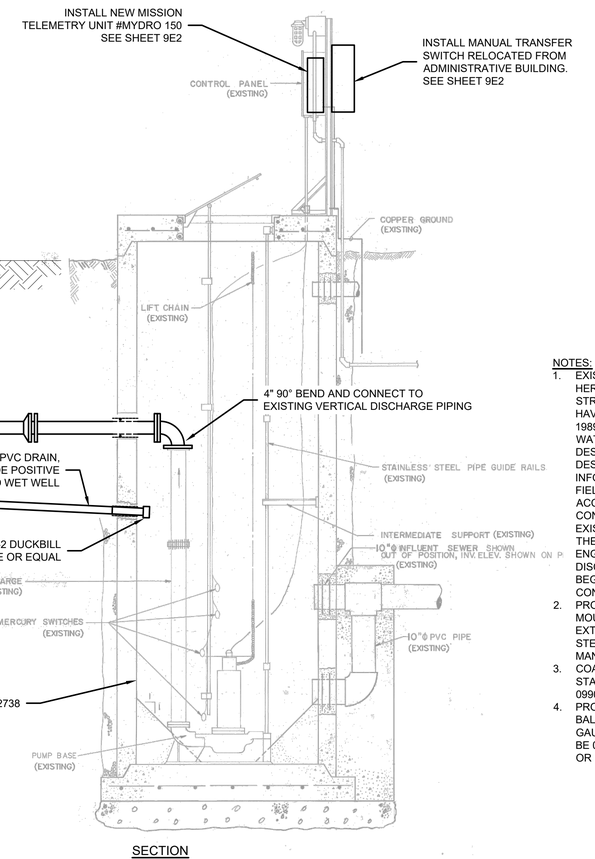


SECTION

LIFT STATION DEMOLITION

SCALE: NONE





SECTION

LIFT STATION MODIFICATION

SCALE: NONE

NOTES:

1. EXISTING FEATURES SHOWN HEREON, INCLUDING ALL STRUCTURES AND PIPING, HAVE BEEN DERIVED FROM THE 1989 GROVER HILL WASTE WATER TREATMENT PLANT DESIGN SET PREPARED BY DESIGN ENTERPRISE LTD. THE INFORMATION HAS NOT BEEN FIELD VERIFIED, AND ACCURACY IS UNCERTAIN. CONTRACTOR TO VERIFY EXISTING CONDITIONS WITHIN THE WORK AREA AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING DEMOLITION AND CONSTRUCTION.
2. PROVIDE ALUMINUM WALL MOUNT LADDER WITH LADDER EXTENSION AND STAINLESS STEEL FASTENERS. MOUNT PER MANUFACTURER DIRECTIONS.
3. COAT NEW AND EXISTING STATION PIPING PER SPEC 09900.
4. PROVIDE 1/2" STAINLESS STEEL BALL VALVE, PIPING PRESSURE GAUGE AND TAP. GAUGE SHALL BE 0-30PSI TRERICE 450 SERIES, OR EQUAL.

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STATE OF OHIO
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12/10/2020

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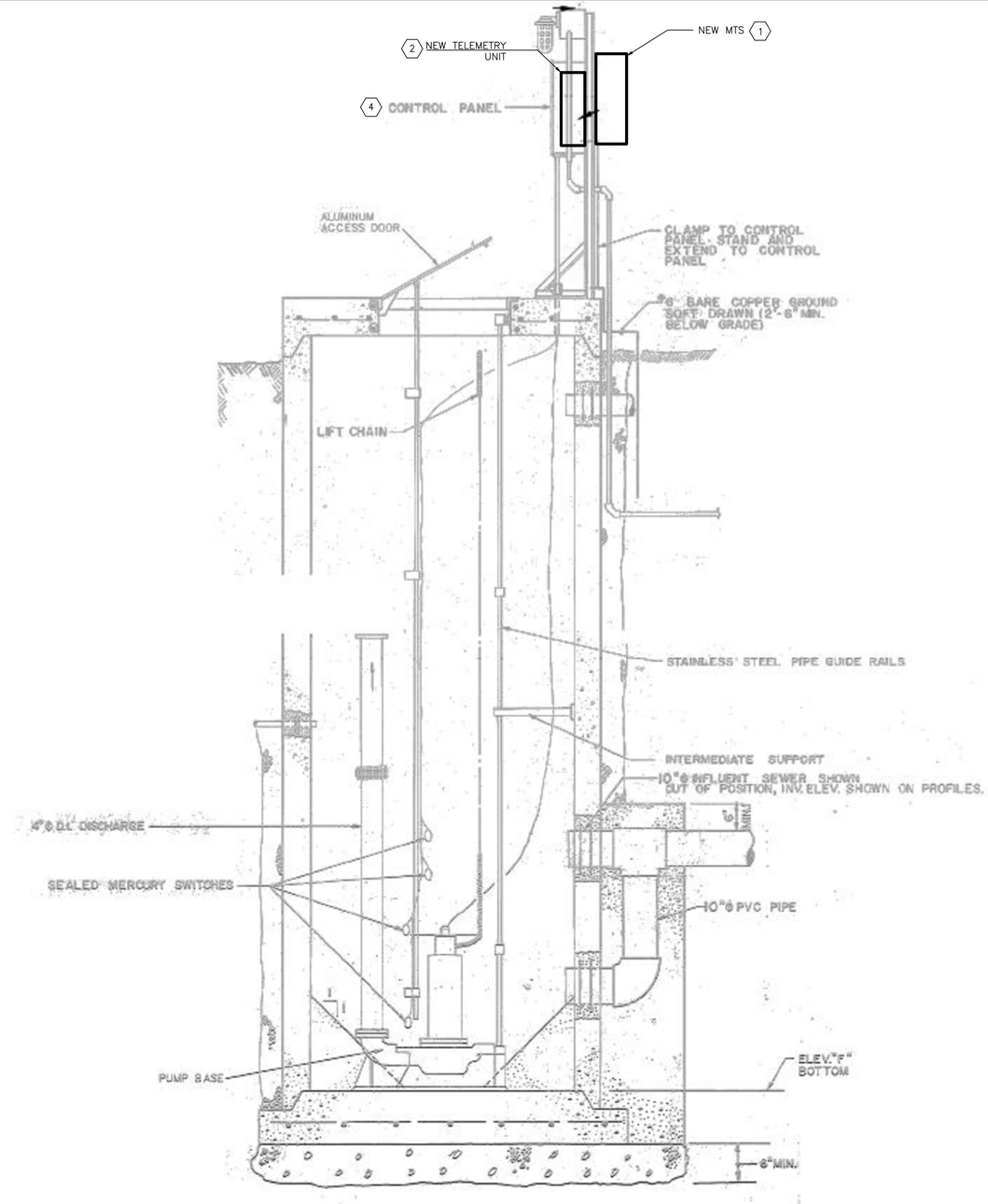
WASTEWATER SYSTEM IMPROVEMENTS

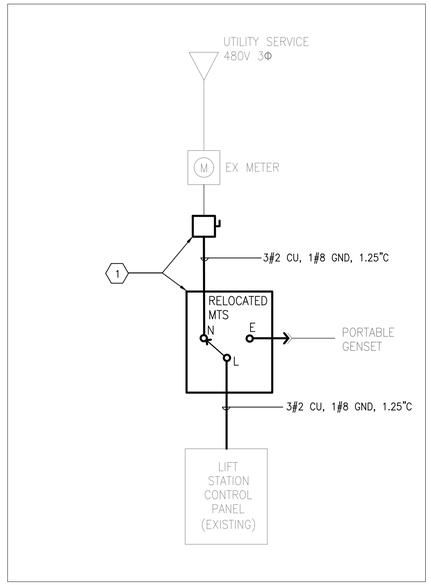
VILLAGE OF GROVER HILL, OHIO

WAYNE STREET LIFT STATION
DEMOLITION AND MODIFICATION PLANS AND SECTIONS

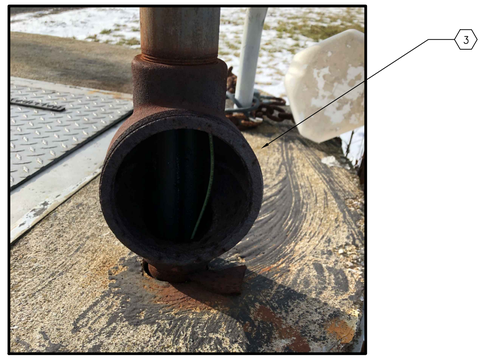
SHEET NO.
3C1
PAGE NO.
13



LIFT STATION DIAGRAM
SCALE: NONE



LIFT STATION NEW SINGLE LINE
SCALE: NONE



LIFT STATION EXISTING PIPE
SCALE: NONE

NOTES

1. REPLACE EXISTING POLE MOUNTED DISCONNECT WITH NEW 100A, FUSED DISCONNECT. PROVIDE NEW LIGHTNING ARRESTOR TO MATCH EXISTING. REUSE EXISTING FUSES FROM DISCONNECT REMOVED, WIRING AND CONDUIT BETWEEN METER BOX AND DISCONNECT. UTILIZE EXISTING GROUNDING ELECTRODE CONDUCTOR AT THE DISCONNECT. INSTALL 100A MANUAL TRANSFER SWITCH RELOCATED FROM ADMINISTRATIVE BUILDING ON THE BACK SIDE OF THE MOUNTING RACK. PROVIDE NEW WIRING AND CONDUIT PER ONE-LINE BETWEEN DISCONNECT, MTS AND EXISTING CONTROL PANEL AS REQUIRED.

2. PROVIDE NEW TELEMETRY UNIT AT LIFT STATION FOR REMOTE ALARM NOTIFICATION. UTILIZE MISSION COMMUNICATION #MYDRO 150, NEMA 4X ENCLOSURE. PROVIDE UNINTERRUPTIBLE POWER SUPPLY TO PROVIDE 10-MIN, RIDE-THROUGH FOR TELEMETRY UNIT. TELEMETRY UNIT TO BE MOUNTED ON EITHER SIDE OF EXISTING CONTROL PANEL. PROVIDE 120V POWER TO TELEMETRY UNIT FROM CONTROL PANEL. PROVIDE MOUNTING HARDWARE AS REQUIRED AND SIGNAL WIRING FOR THE FOLLOWING:
   a. HIGH-LEVEL ALARM
   b. PUMP 1 (ON/OFF)
   c. PUMP 2 (ON/OFF)
   d. PUMP 1 FAULT
   e. PUMP 2 FAULT
   f. POWER FAILURE

   PROVIDE SERVICES TO SETUP TELEMETRY UNIT FOR COMPLETE OPERATION.

3. PROVIDE CAP FOR CONDUIT DOWN TO PUMP MOTORS.

4. CONDUIT FOR PUMP WIRING TO BE SEALED TO PREVENT INFILTRATION OF FUMES INTO PANEL FROM THE CLASS 1 DIV 1 AREA WHICH IS THE SEWAGE PIT.

HEAPY
PROJECT NO. 2019-07112

SCALE VERIFICATION
BAR IS ONE INCH LONG ON ORIGINAL DRAWING

DRAWN BY	MPH
CHECKED BY	AWM
APPROVED BY	
ISSUE DATE	MARCH 2020
PROJECT NUMBER	701218-04-001

NO.	DATE	INITIALS	REVISION DESCRIPTIONS

03-16-2020
STATE OF OHIO
GREGORY P. WRIGHT
77056
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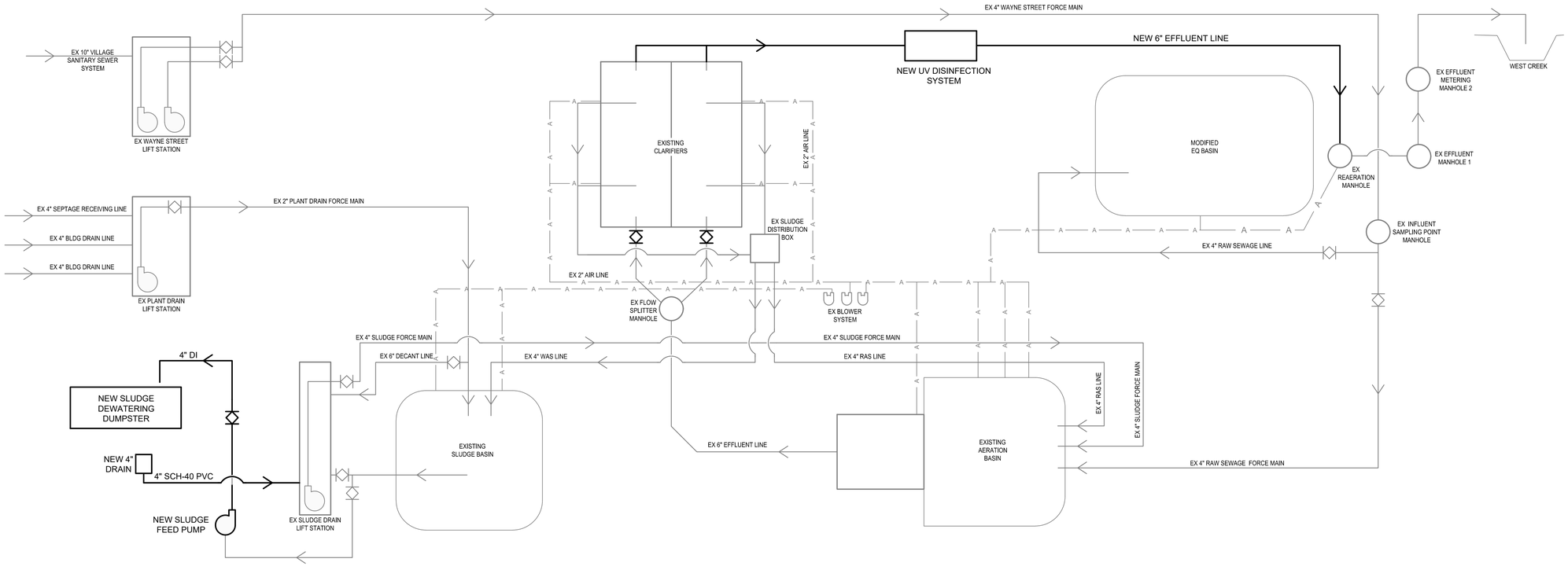
WASTEWATER SYSTEM IMPROVEMENTS

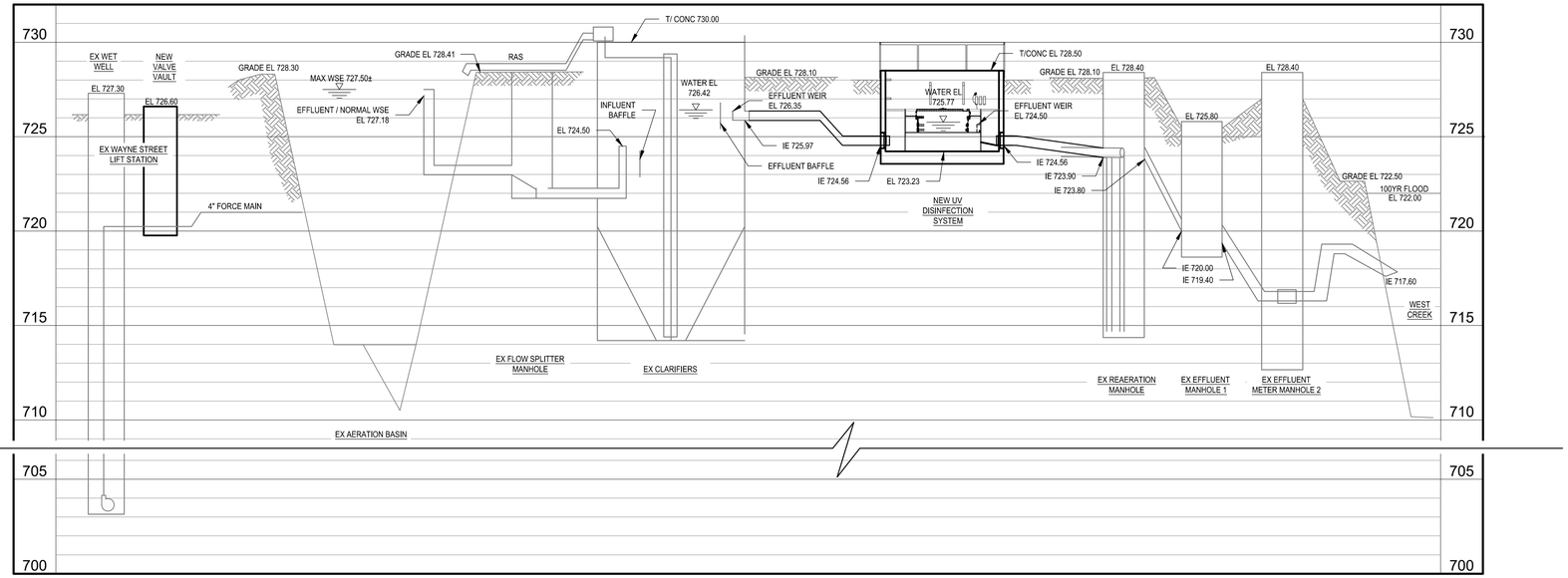
VILLAGE OF GROVER HILL, OHIO

LIFT STATION - ELECTRICAL MODIFICATIONS

SHEET NO.
3E1
PAGE NO.
14



FLOW DIAGRAM
SCALE: NONE



HYDRAULIC PROFILE
SCALE: NONE

PROFILE NOTES

1. ELEVATIONS SHOWN HERE ARE BASED ON TOP OF STRUCTURE ELEVATIONS AND MEASURE DOWNS AS DETERMINED FROM THE WESSLER ENGINEERING SITE SURVEY. THESE DIFFER FROM THE ELEVATIONS SHOWN ON THE 1989 GROVER HILL WASTEWATER TREATMENT PLANT DESIGN SET PREPARED BY DESIGN ENTERPRISE LTD. & 2002 WASTEWATER TREATMENT PLANT IMPROVEMENTS PREPARED BY POGGEMEYER DESIGN GROUP, INC.
2. THE MAXIMUM WATER SURFACE ELEVATIONS ARE SHOWN AT A PEAK DAY EFFLUENT FLOW OF 0.246 MGD BASED UPON EFFLUENT FLOW DATA RECORDED FROM 2013 THROUGH 2016.
3. THE 100 YEAR FLOOD ELEVATION IS AS DETERMINED FROM THE 1989 GROVER HILL WASTEWATER TREATMENT PLANT DESIGN SET PREPARED BY DESIGN ENTERPRISE LTD. & 2002 WASTEWATER TREATMENT PLANT IMPROVEMENTS PREPARED BY POGGEMEYER DESIGN GROUP, INC.

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BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	ANW				
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	ISSUE DATE	DECEMBER 2020				
	PROJECT NUMBER	701218-04-001				

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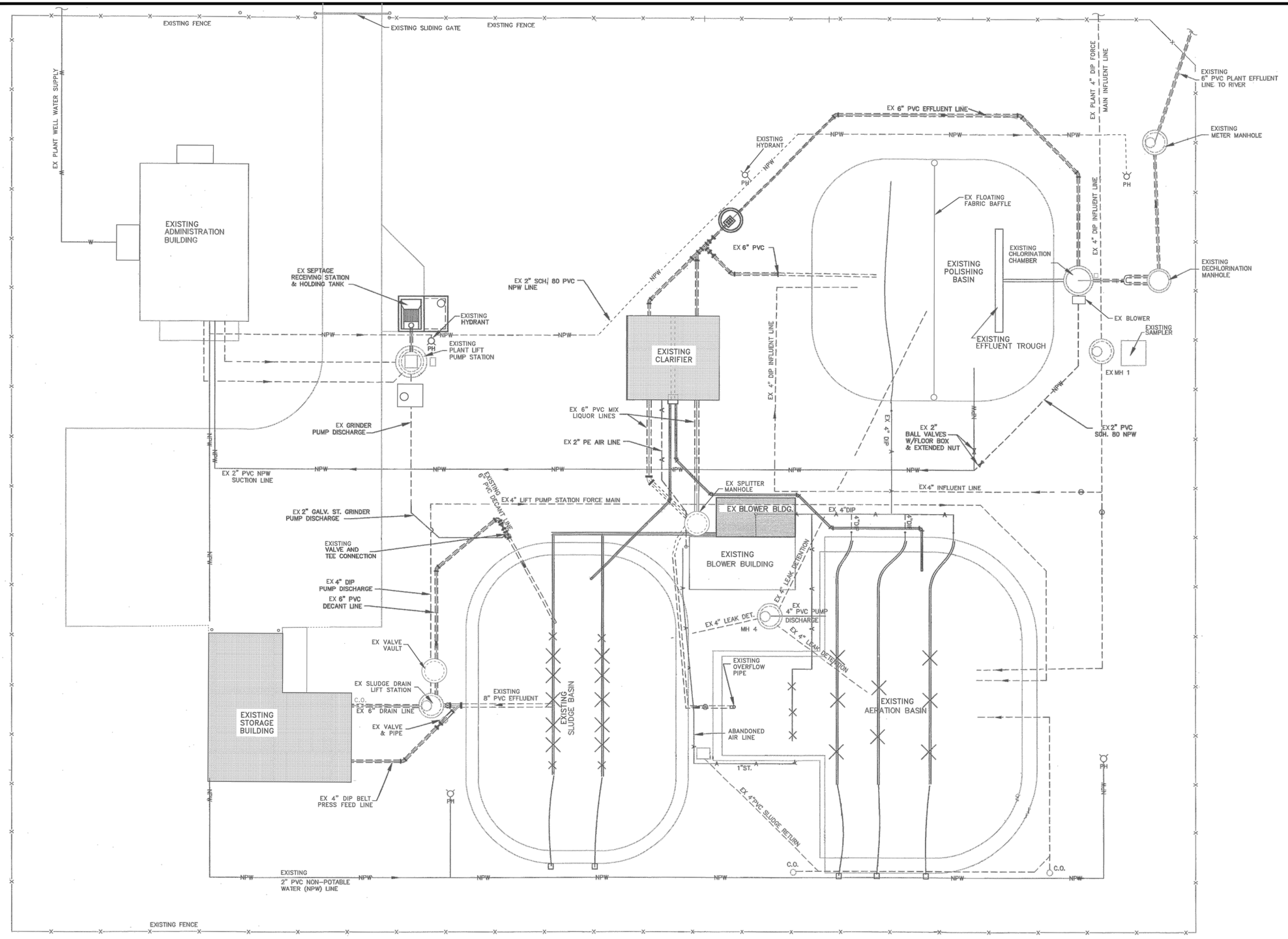
WASTEWATER SYSTEM IMPROVEMENTS

VILLAGE OF GROVER HILL, OHIO

WWTP SITE
HYDRAULIC PROFILE AND FLOW DIAGRAM

SHEET NO. **4G1**

PAGE NO. **15**



0 5 10 20 FT
1"=10' *

* APPROXIMATE SCALE (SCANNED DRAWING UNDERLAY). SEE NOTE 1.

NOTES:
1. EXISTING FEATURES SHOWN HEREON, INCLUDING ALL STRUCTURES AND PIPING, HAVE BEEN DERIVED FROM THE 1989 GROVER HILL WASTE WATER TREATMENT PLANT DESIGN SET PREPARED BY DESIGN ENTERPRISE LTD. & 2002 WASTEWATER TREATMENT PLANT IMPROVEMENTS PREPARED BY POGGEMEYER DESIGN GROUP, INC. THE UNDERGROUND PIPING INFORMATION HAS NOT BEEN FIELD VERIFIED, AND ACCURACY IS UNCERTAIN.

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WASTEWATER SYSTEM IMPROVEMENTS

VILLAGE OF GROVER HILL, OHIO

WWTP SITE
EXISTING SITE PLAN

SHEET NO. **4Y1**

PAGE NO. **16**

EXISTING FENCE
EXISTING SLIDING GATE
EXISTING FENCE
EX PLANT WELL WATER SUPPLY
EXISTING ADMINISTRATION BUILDING
EX SEPTAGE RECEIVING STATION & HOLDING TANK
EXISTING HYDRANT
EXISTING PLANT LIFT PUMP STATION
EX GRINDER PUMP DISCHARGE
EX 2" PVC NPW SUCTION LINE
EX 2" GALV. ST. GRINDER PUMP DISCHARGE
EXISTING VALVE AND TEE CONNECTION
EX 4" DIP PUMP DISCHARGE
EX 6" PVC DECANT LINE
EX VALVE VAULT
EX SLUDGE DRAIN LIFT STATION
EX 6" DRAIN LINE
EX VALVE & PIPE
EXISTING STORAGE BUILDING
SEE SHEET 5C1 FOR DEMOLITION AT STORAGE BUILDING
EX 4" DIP BELT PRESS FEED LINE
EXISTING 2" PVC NON-POTABLE WATER (NPW) LINE
EXISTING FENCE
EX 6" PVC EFFLUENT LINE
EXISTING HYDRANT
DEMO YARD HYDRANT
CUT EX NPW AND DEMO PIPING TO WEST AND NORTH
DEMO CHLORINATION MANHOLE (MH 6) AND PIPING
EX 6" PVC
EX 2" SCH. 80 PVC NPW LINE
CAP AND ABANDON EX 6" PVC
EXISTING CLARIFIER
EX 4" DIP INFLUENT LINE
EX 6" PVC MIX LIQUOR LINES
EX 2" PE AIR LINE
SEE SHEET 4C2 FOR DEMOLITION AT FLOW SPLITTER MANHOLE (MH 5)
EX SPLITTER MANHOLE
EX 4" LIFT PUMP STATION FORCE MAIN
EXISTING 6" PVC DECANT LINE
EX BLOWER BLDG.
EXISTING BLOWER BUILDING
EX 4"DIP
EX 4" LEAK DETENTION
EX 4" LEAK DET. MH 4
EX 4" PVC PUMP DISCHARGE
EX 4" LEAK DETERIORATION
EXISTING OVERFLOW PIPE
ABANDONED AIR LINE
1"ST.
EX 4"PVC SLUDGE RETURN
EXISTING SLUDGE BASIN
EXISTING AERATION BASIN
EXISTING 8" PVC EFFLUENT
EX FLOATING FABRIC BAFFLE
EXISTING POLISHING BASIN
EXISTING CHLORINATION CHAMBER
EXISTING EFFLUENT TROUGH
EX 4" DIP INFLUENT LINE
EX PLANT 4" DIP FORCE MAIN INFLUENT LINE
EX BLOWER
EXISTING SAMPLER
EX MH 1
EX 2" BALL VALVES W/FLOOR BOX & EXTENDED NUT
EX 4" INFLUENT LINE
EX 2" PVC SCH. 80 NPW
EXISTING 6" PVC PLANT EFFLUENT LINE TO RIVER
EXISTING METER MANHOLE
EXISTING DECHLORINATION MANHOLE
DEMO YARD HYDRANT
SEE SHEET 4C2 FOR DEMOLITION AT EFFLUENT STRUCTURES
DEMO EFFLUENT TROUGH, AND CAP EX 6" DI PIPE
DEMO SAMPLER ENCLOSURE
DEMO FABRIC BAFFLE. END POSTS MAY REMAIN
C.O.
PH
NPW
MJN

N

0 5 10 20 FT
1"=10' *
* APPROXIMATE SCALE (SCANNED DRAWING UNDERLAY). SEE NOTE 1.

NOTES:
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EXISTING POLISHING BASIN: FLOATING FABRIC BAFFLE & EFFLUENT TROUGH

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WASTEWATER SYSTEM IMPROVEMENTS

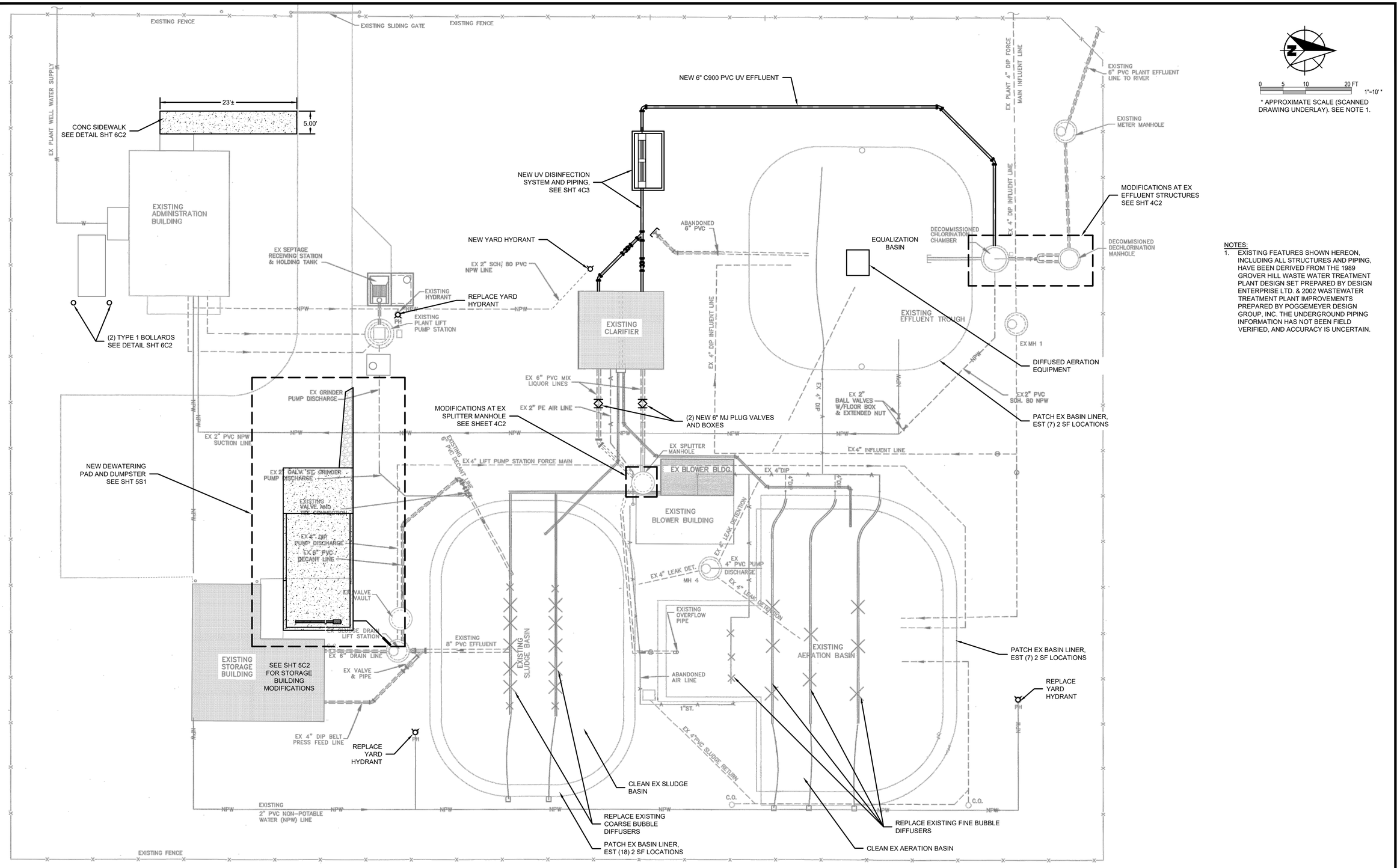
VILLAGE OF GROVER HILL, OHIO

WWTP SITE DEMOLITION SITE PLAN

SHEET NO. 4Y2

PAGE NO. 17

Drawing: J:\Grover Hill_OH\Projects\701218 Grover Hill WW Improvements\CAD 04-001\DWG\Sheets\701218-EX-SI.dwg | Layout: 4Y2 | Plotted: 12/07/20 @ 07:28:32 | LastSavedBy: michellee



0 5 10 20 FT
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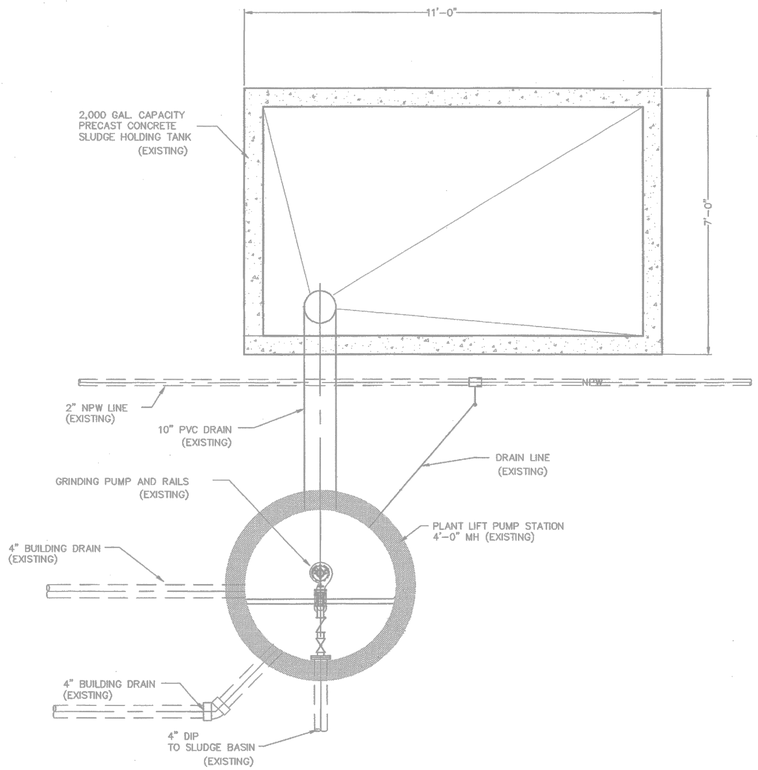
WASTEWATER SYSTEM IMPROVEMENTS

VILLAGE OF GROVER HILL, OHIO

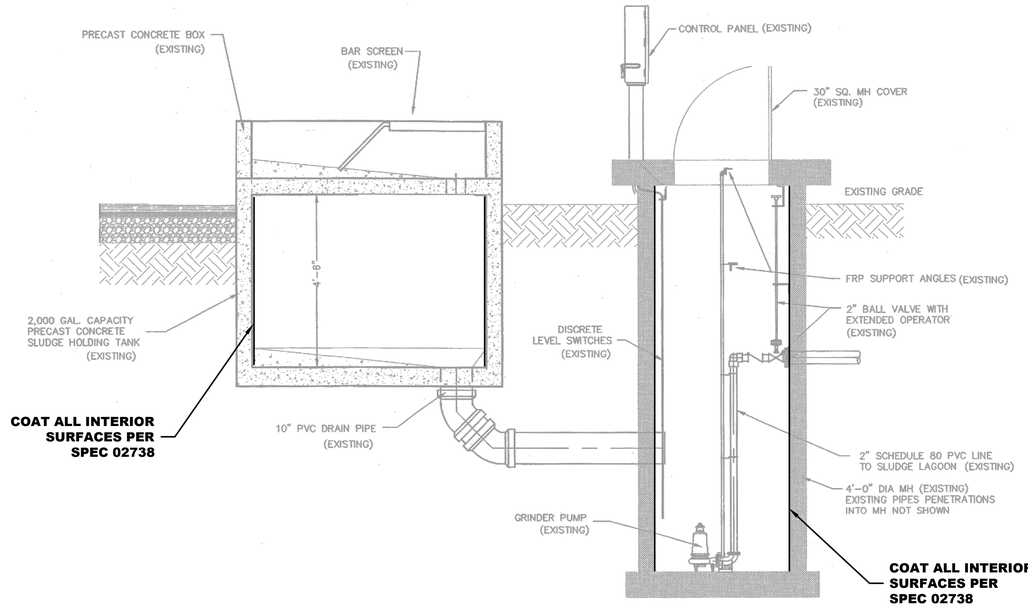
WWTP SITE
NEW SITE PLAN

SHEET NO. 4Y3

PAGE NO. 18



BOTTOM PLAN
SCALE: NONE



SECTION
SCALE: NONE

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STATE OF OHIO
RYAN KENT BRAUEN
E-79180
REGISTERED PROFESSIONAL ENGINEER
12/10/2020

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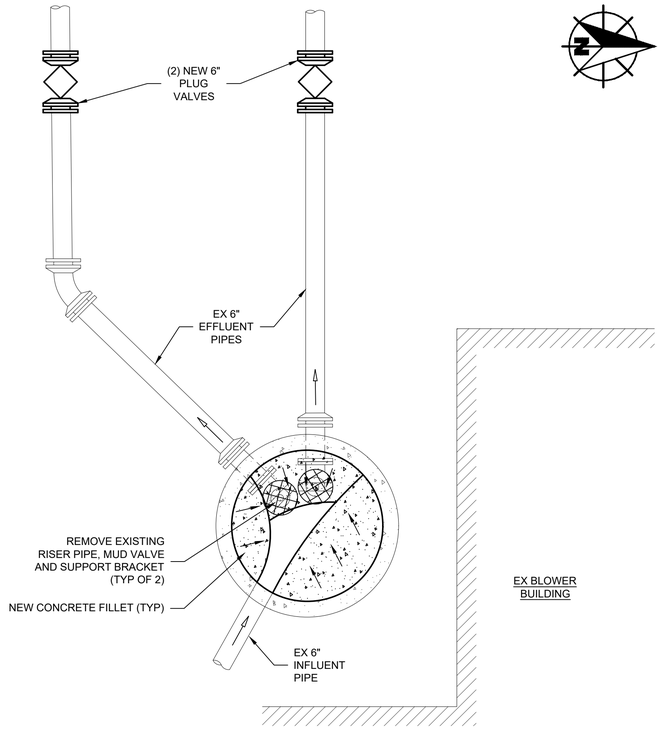
WASTEWATER SYSTEM IMPROVEMENTS

VILLAGE OF GROVER HILL, OHIO

WWTP SITE
PLANT DRAIN LIFT STATION MODIFICATION PLAN AND SECTION

SHEET NO.
4C1
PAGE NO.
19



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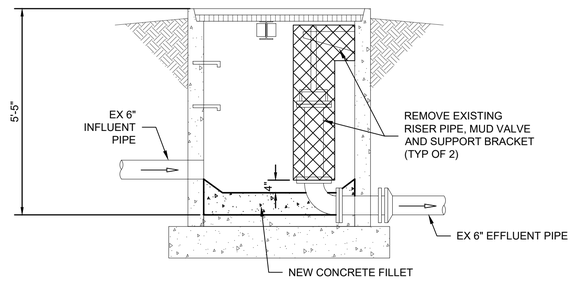
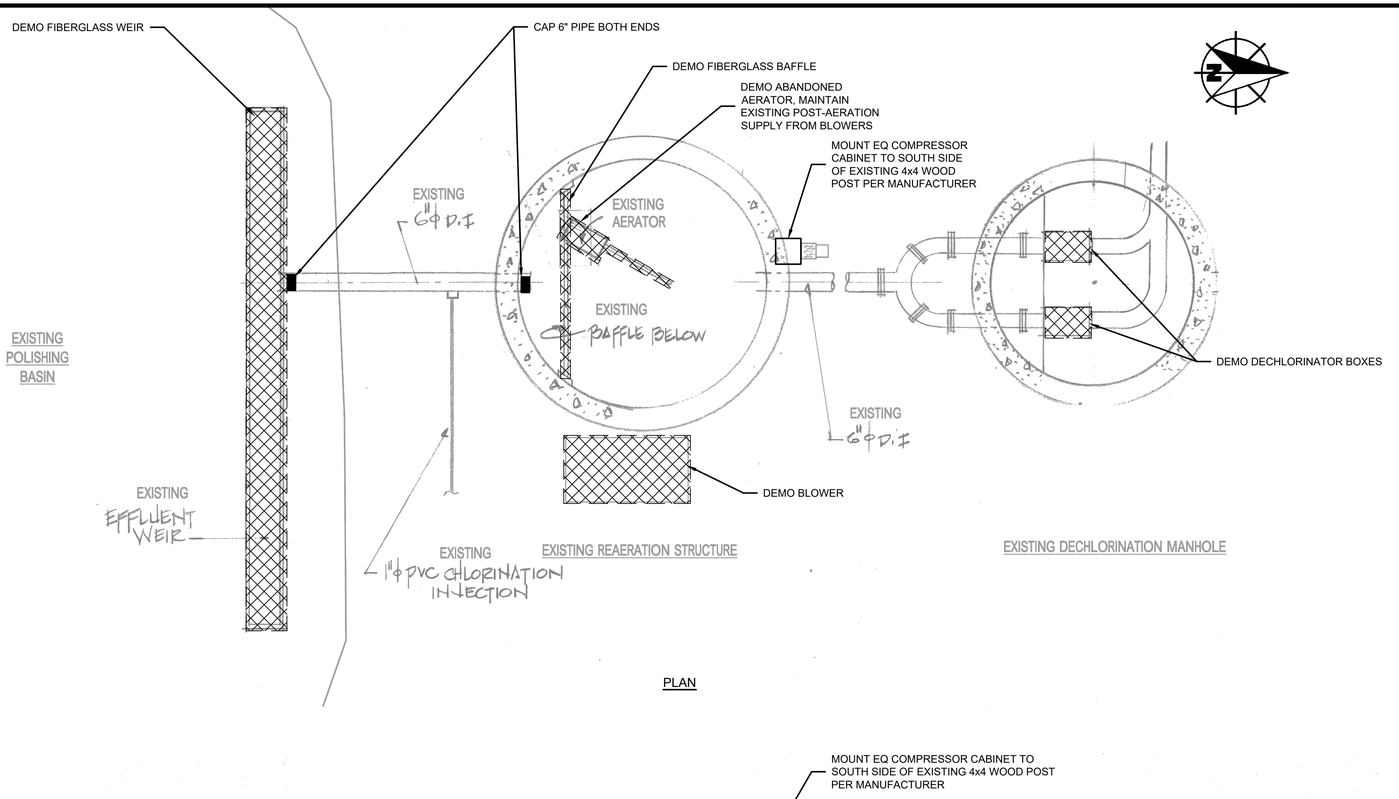


SECTION

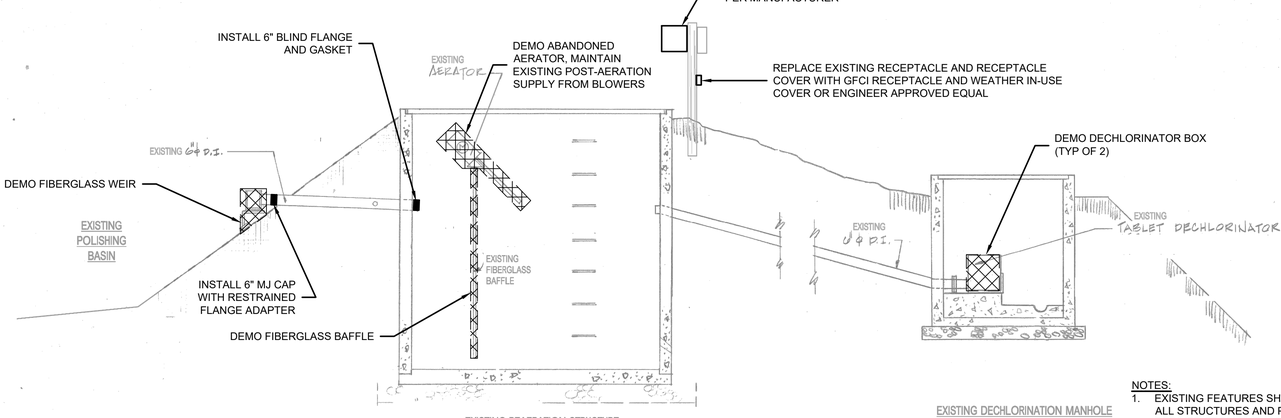
EXISTING FLOW SPLITTER MANHOLE

0 1 2 4 FT

1/2"=1'-0"



PLAN



SECTION

EXISTING EFFLUENT STRUTURES

SCALE: NONE

NOTES:

1. EXISTING FEATURES SHOWN HEREON, INCLUDING ALL STRUCTURES AND PIPING, HAVE BEEN DERIVED FROM THE 1989 GROVER HILL WASTE WATER TREATMENT PLANT DESIGN SET PREPARED BY DESIGN ENTERPRISE LTD. & 2002 WASTEWATER TREATMENT PLANT IMPROVEMENTS PREPARED BY POGGEMEYER DESIGN GROUP, INC. THE INFORMATION HAS NOT BEEN FIELD VERIFIED, AND ACCURACY IS UNCERTAIN.CONTRACTOR TO VERIFY EXISTING CONDITIONS WITHIN THE WORK AREA AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING DEMOLITION AND CONSTRUCTION.

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STATE OF OHIO — JERYAMY MICHAEL BRAMER — PE-86550 — PROFESSIONAL ENGINEER — 12/10/2020

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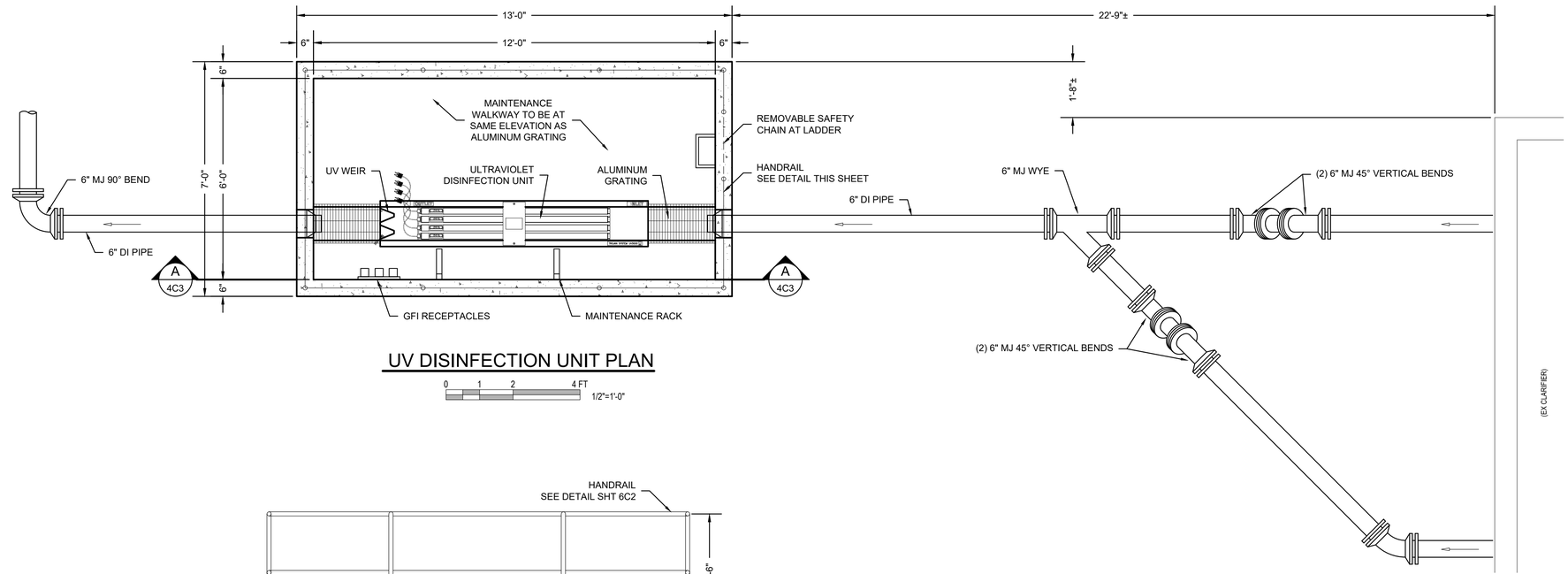
WASTEWATER SYSTEM IMPROVEMENTS

VILLAGE OF GROVER HILL, OHIO

WWTP SITE
MODIFICATIONS AT EXISTING FLOW SPLITTER MANHOLE AND EFFLUENT STRUCTURES

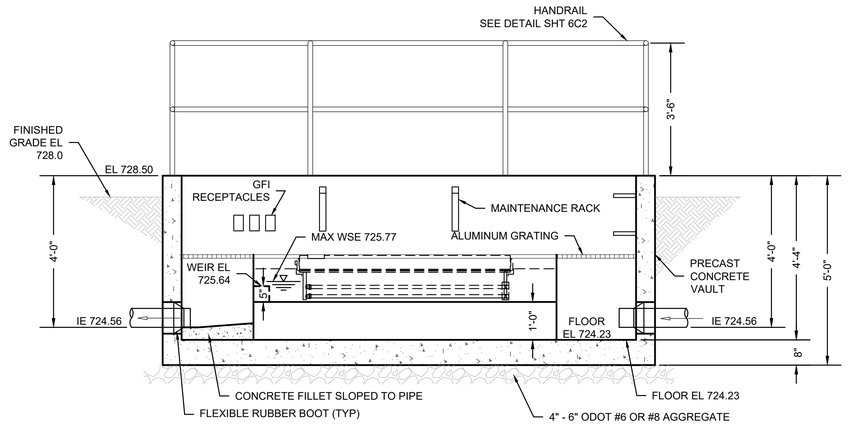
SHEET NO. 4C2

PAGE NO. 20



UV DISINFECTION UNIT PLAN

0 1 2 4 FT
1/2"=1'-0"



SECTION A 4C3

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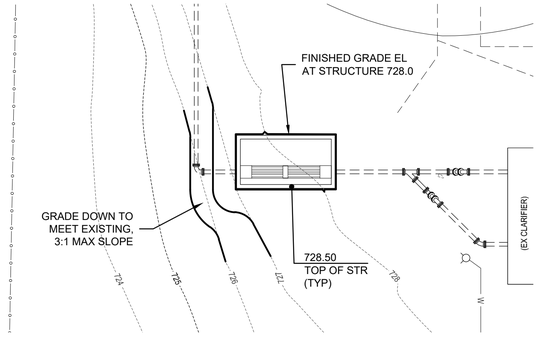

UV SITE GRADING PLAN

0 5 10 20 FT
1"=10'

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WASTEWATER SYSTEM IMPROVEMENTS

VILLAGE OF GROVER HILL, OHIO

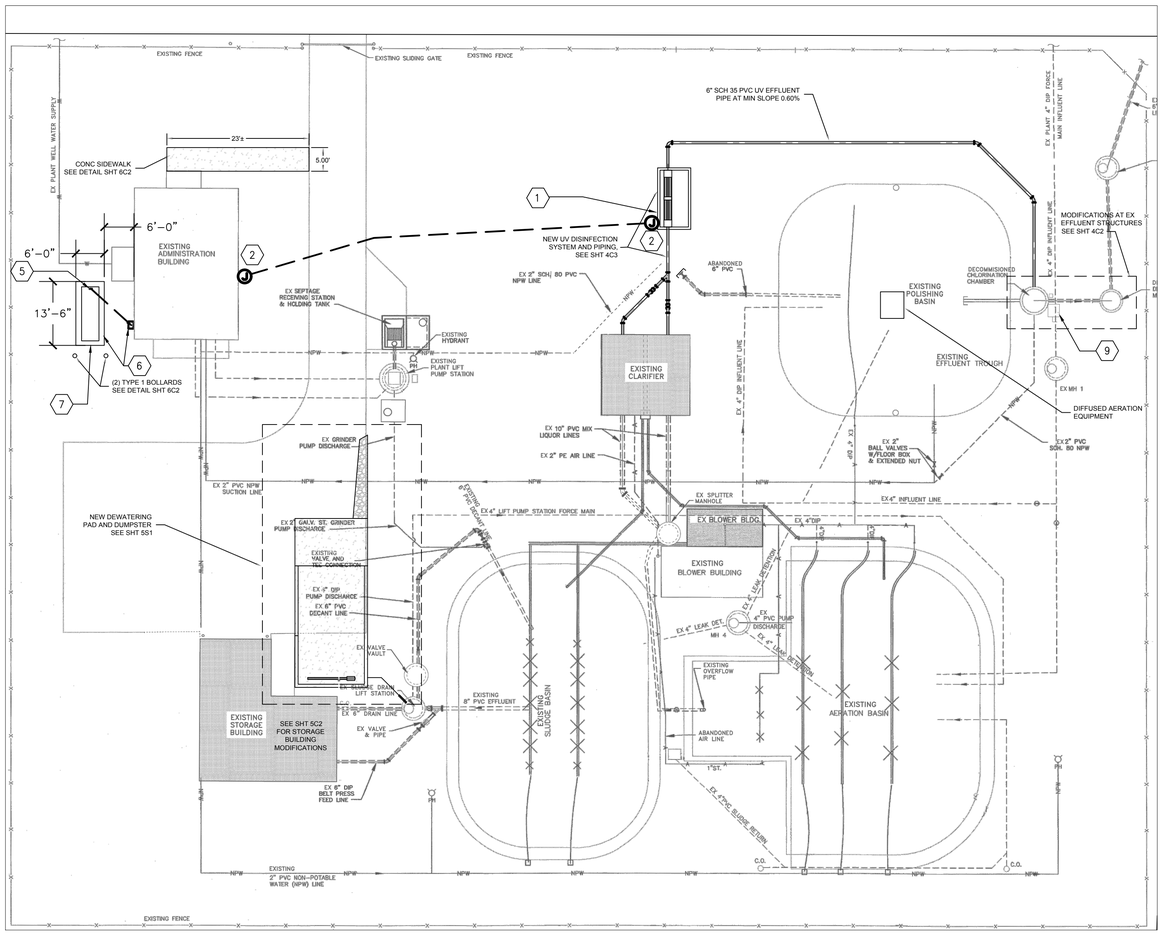
WWTP SITE
UV DISINFECTION SYSTEM PLANS AND SECTION

SHEET NO. **4C3**

PAGE NO. **21**

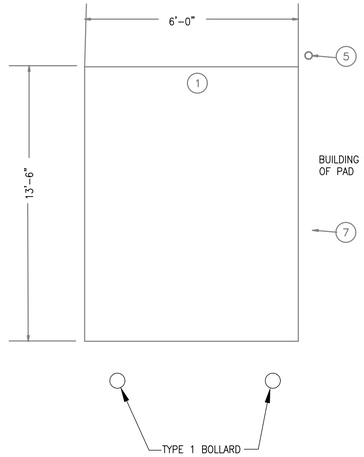
GENERAL NOTES

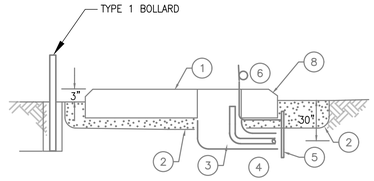
A. ALL UNDERGROUND CONDUIT ROUTING SHOWN ARE DIAGRAMMATIC AND SHOULD NOT BE USED FOR EXACT PLACEMENT. FIELD VERIFY EXACT ROUTING WITH ENGINEER PRIOR TO EXCAVATION.



ELECTRICAL SITE PLAN

SCALE: 1/16"=1'





NEW CONCRETE PAD LAYOUT

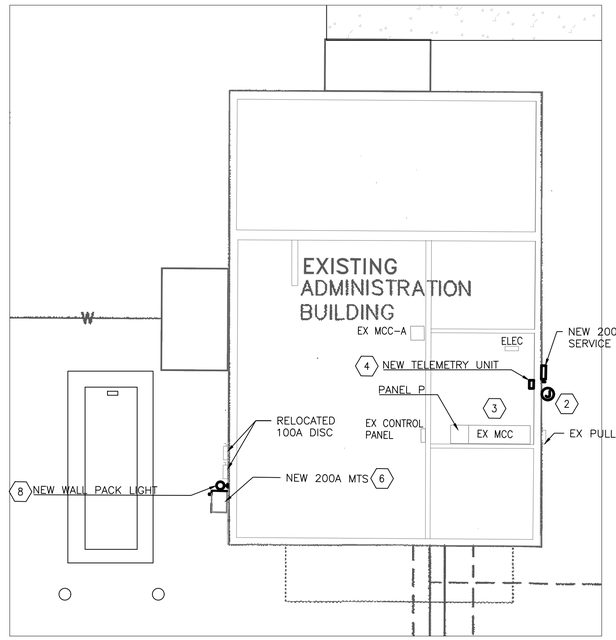
SCALE: NONE

DETAIL NOTES

1. CONCRETE PAD OF 9" THICKNESS AND OPENINGS AS RECOMMENDED BY SUPPLIER OF GENERATOR. 1/2"DIA. REINF. 12"CC BOTH WAYS.
2. PEA GRAVEL UNDER CONCRETE PAD 12" MINIMUM AND TO EXTEND 2 FT. BEYOND EDGE OF PAD (12"DEEP).
3. SEE PLAN AND SCHEDULES FOR NUMBER AND SIZE OF CONDUIT.
4. ALL UNDERGROUND CONDUITS TO HAVE LONG SWEEPING BENDS, PROPER ADAPTER FROM PVC TO RIGID METALLIC CONDUIT AND STUB 3" ABOVE CONCRETE PAD.
5. 5/8" X 10 FT. GROUND RODS UNLESS OTHERWISE SHOWN.
6. 5 FT. #1/0 BARE COPPER GROUNDING PIGTAIL.
7. CONCRETE PAD TO BE MINIMUM 5' AWAY FROM BUILDING.
8. EXPOSED CONCRETE SURFACES TO HAVE RUBBED FINISH AND 3/4" CHAMFERED CORNERS.

GENERAL DETAIL NOTES

A COORDINATE EXACT CONCRETE PAD SIZE, OPENINGS AND OTHER REQUIREMENTS TO EXTEND EDGE OF CONCRETE 12" BEYOND EQUIPMENT. ALL SIDES OF EQUIPMENT PAD SHALL BE MAINTAINED RECTANGULAR WITH RUBBED FINISH AND CHAMFERED EDGE. REFER TO SPEC SECTION 26 27 13. COORDINATE EXACT ORIENTATION OF EQUIPMENT WITH POWER CO. PRIOR TO EXCAVATION AND PROVIDE ACCORDINGLY.



ADMINISTRATIVE BUILDING PLAN

SCALE: 3/16"=1'

NOTES

1. REMOVE EXISTING CHLORINATION EQUIPMENT AND INSTALL NEW UV SYSTEM. CONFIRM WITH ENGINEER THAT UV DISINFECTION SYSTEM IS TO BE TROJAN UV PTP MODEL#3200K. COORDINATE LOCATION OF EQUIPMENT WITH OWNER PRIOR TO ROUGH-IN. COORDINATE INSTALLATION OF SYSTEM WITH TROJAN MANUFACTURER REPRESENTATIVE. PROVIDE 120V/20A CIRCUIT IN 3/4"C UNDERGROUND FROM AVAILABLE BREAKER IN PANEL P TO POWER THE TWO GFI RECEPTACLES INCLUDED WITH THE EQUIPMENT. PROVIDE NEMA 3R J-BOX IN PIT TO DISTRIBUTE POWER TO RECEPTACLES. COORDINATE EXACT LOCATION OF RECEPTACLES AND J-BOX WITH ENGINEER PRIOR TO ROUGH-IN.
2. PROVIDE NEMA 4X J-BOX IN UV SYSTEM PIT AND NEMA 4X J-BOX ON OUTSIDE OF ADMINISTRATIVE BUILDING ON OPPOSITE SIDE OF WALL SHARED WITH THE ELECTRICAL ROOM, INCLUDING 1" SPARE CONDUIT WITH PULL STRING, CONNECTING THEM FOR FUTURE MONITORING SYSTEM. COORDINATE WITH ENGINEER FOR EXACT LOCATIONS OF J-BOXES AND CONDUIT ROUTING.
3. ADMINISTRATIVE BUILDING AND ELECTRICAL ROOM LAYOUT IS SCHEMATIC IN NATURE AND MAY NOT MATCH EXISTING CONDITIONS EXACTLY. FIELD COORDINATE ALL ROUTING OF WIRING AND CONDUIT INTO BUILDING AS NEEDED. COORDINATE NEW ELECTRICAL EQUIPMENT LOCATIONS IN ADMINISTRATIVE BUILDING WITH ENGINEER PRIOR TO ROUGH-IN.
4. DISCONNECT AND REPLACE OLD TELEMETRY SYSTEM WITH NEW MISSION, NEMA 1, MYDRO 150 TELEMETRY SYSTEM ENCLOSURE AND WIRE ACCORDINGLY. TIE IN EXISTING SENSOR LINES AS REQUIRED. PROVIDE UNINTERRUPTIBLE POWER SUPPLY TO PROVIDE 10-MIN, RIDE-THROUGH FOR TELEMETRY UNIT. PROVIDE SERVICES TO SETUP TELEMETRY UNIT FOR COMPLETE OPERATION.
5. COORDINATE ROUTING OF CONDUIT TO GENERATOR ELECTRICAL STUB-UP AREA WITH GENERATOR MANUFACTURER. PROVIDE 120V POWER, INCLUDING WIRING AND CONDUIT, FROM AVAILABLE BREAKER IN PANEL P TO GENERATOR FOR WATER JACKET HEATER AND BATTERY CHARGER.
6. PROVIDE 100kW, 480/277V, 3Φ OUTDOOR, DIESEL GENERATOR W/ ENCLOSURE, 24 HOUR TANK CAPACITY AND MTS. UTILIZE CATERPILLAR #D100 GENERATOR AND ASCO 300 SERIES NON-AUTOMATIC 200A, TRANSFER SWITCH W/ STRIP HEATER AS BASIS OF DESIGN. MTS TO BE FULLY ENCLOSED IN A NEMA 3R ENCLOSURE. CONDUIT BETWEEN GENERATOR AND NEW MTS TO BE UNDERGROUND. REMAINING CONDUIT TO BE RUN THROUGH BUILDING OVERHEAD TO EXISTING MCC'S. FIELD COORDINATE WITH ENGINEER ROUTING OF CONDUIT PRIOR TO ROUGH-IN. REFER TO NEW SINGLE LINE ON SHEET 9E1 FOR WIRE AND CONDUIT SIZING. PROVIDE REMOTE ENGINE STOP BUTTON AT ENTRY TO OUTSIDE ENCLOSURE. CONNECT TO ENGINE CONTROLS FOR SHUTDOWN. REFER TO GENERATOR SPEC FOR MORE SPECIFIC REQUIREMENTS.
7. CONCRETE PAD SIZE AND THICKNESS IS BASED ON CATERPILLAR GENERATOR AS BASIS OF DESIGN. COORDINATE WITH GENERATOR MANUFACTURER SELECTED FOR CONCRETE PAD REQUIREMENTS.
8. PROVIDE NEW LED WALL PACK WITH PHOTOCELL TO ILLUMINATE AREA. UTILIZE LITHONIA #TWP-LED-ALO-30K-T3M-MVOLT-PE-SF-DWXHD AS BASIS OF DESIGN. PROVIDE WIRING AND CONDUIT AS REQUIRED AND TIE INTO EXISTING ADMINISTRATIVE BUILDING LIGHTING CIRCUIT. LIGHT TO BE WIRED AHEAD OF ANY SWITCH. FIXTURE LUMEN LEVEL IS ADJUSTABLE. COORDINATE LUMEN LEVEL SETTING WITH OWNER.
9. UTILIZE EXISTING DISCONNECT FOR POWER TO NEW 120V DIFFUSER. INTERCEPT FEEDER CONDUIT PRIOR TO ENTERING MCC AND REROUTE TO PANEL P. PROVIDE NEW 2#10, 1#10 GND WIRE BETWEEN PANEL P AND NEW DIFFUSER.

HEAPY
PROJECT NO. 2019-07112

SCALE VERIFICATION
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GREGORY P. WRIGHT
77056
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PROFESSIONAL ENGINEER

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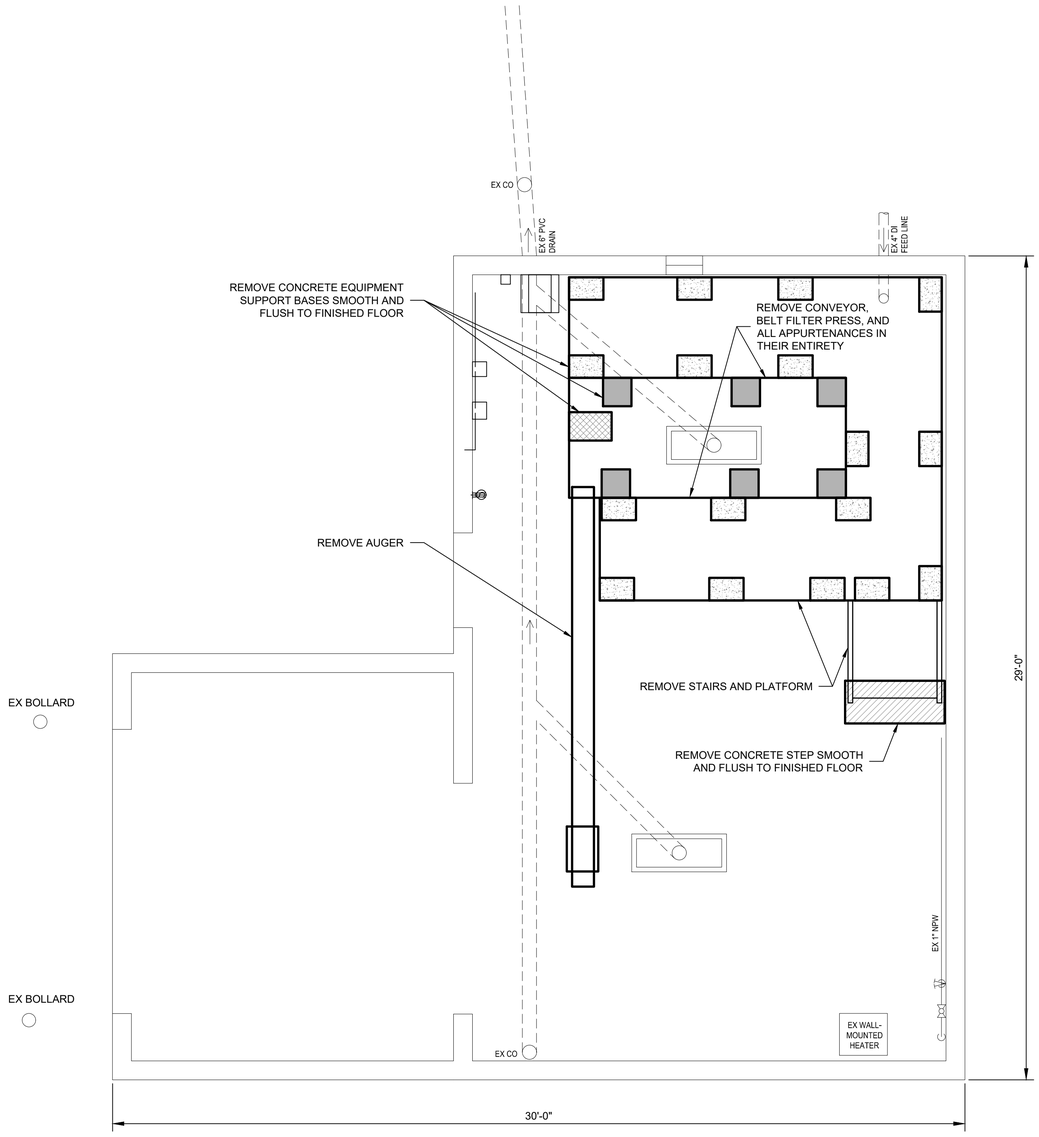
WASTEWATER SYSTEM IMPROVEMENTS

VILLAGE OF GROVER HILL, OHIO

WWTP - ELECTRICAL SITE PLAN

SHEET NO. **4E1**

PAGE NO. **22**



NOTES:
1. ALL EXISTING STEEL HARDWARE USED TO FASTEN EQUIPMENT (THAT IS TO BE REMOVED) TO THE FLOOR SHALL BE GROUND TO THE FLOOR SURFACE. COAT EXPOSED STEEL SURFACES WITH CLEAR SEALANT.

LEGEND

- CONCRETE SUPPORT BASE (6 EA) 12" x 12" x 40.5"H
- CONCRETE SUPPORT BASE (1 EA) 12" x 18" x 44.5"H
- CONCRETE SUPPORT BASE (16 EA) 14" x 9.5" x 9"H
- CONCRETE STEP (1 EA) 42" x 18" x 9"H

STORAGE BUILDING DEMOLITION

0 2 4 6 FT
3/8"=1'-0"

SCALE VERIFICATION	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS	
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	APPROVED BY	RKB					
	ISSUE DATE	DECEMBER 2020					
	PROJECT NUMBER	701218-04-001					

STATE OF OHIO
RYAN KENT BRAUEN
E-79180
REGISTERED PROFESSIONAL ENGINEER
12/10/2020

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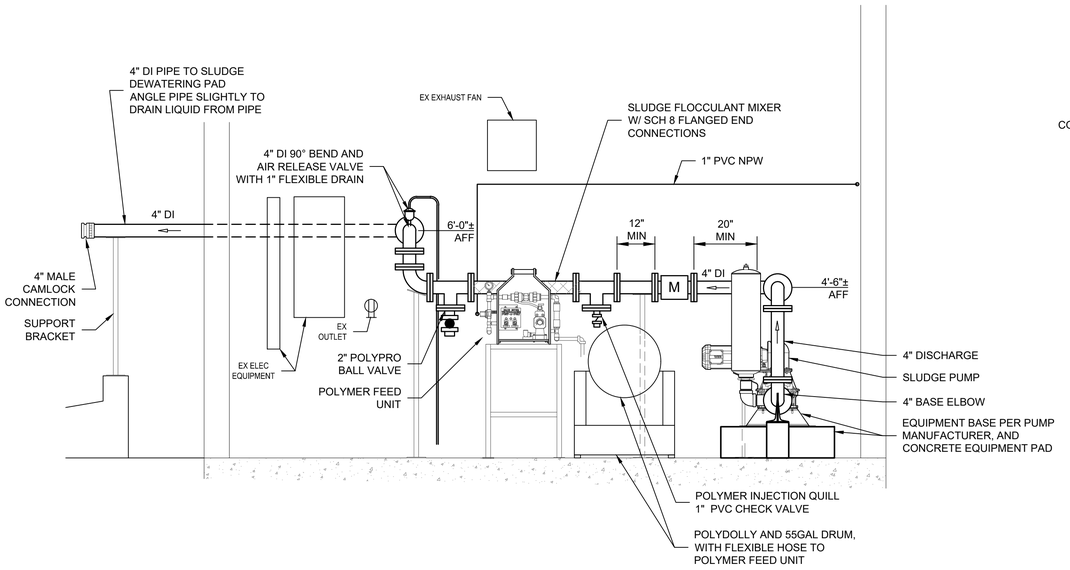
WASTEWATER SYSTEM IMPROVEMENTS

VILLAGE OF GROVER HILL, OHIO

SLUDGE DEWATERING
STORAGE BUILDING DEMOLITION PLAN

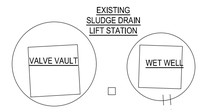
SHEET NO.
5C1
PAGE NO.
23

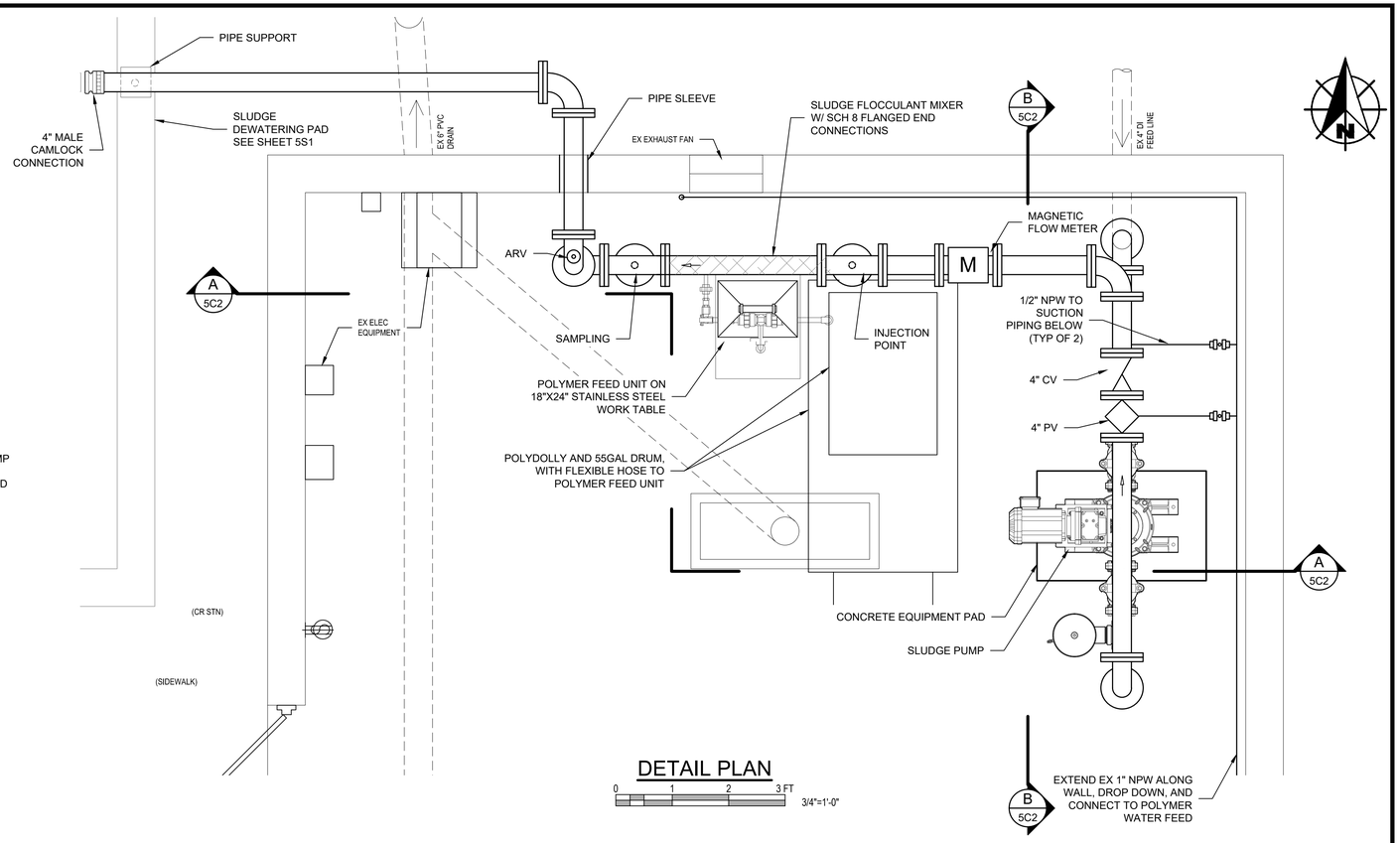


SECTION A 5C2

0 1 2 4 FT

1/2"=1'-0"

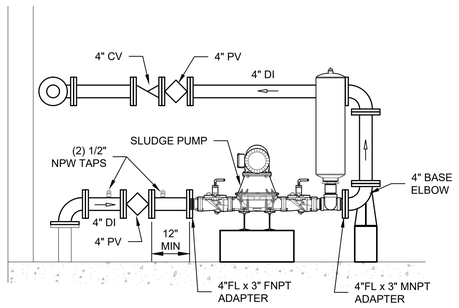




DETAIL PLAN

0 1 2 3 FT

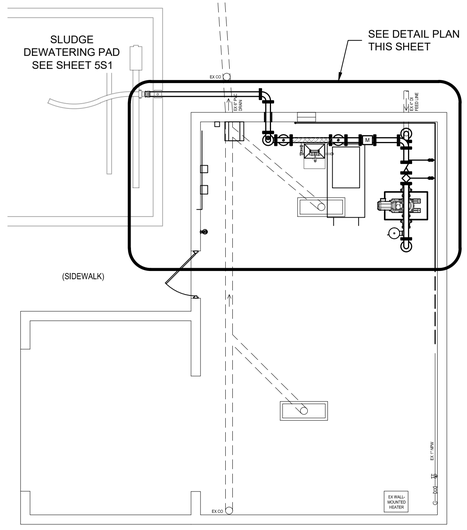
3/4"=1'-0"



SECTION B 5C2

0 1 2 4 FT

1/2"=1'-0"



OVERVIEW PLAN

0 4 8 12 FT

3/16"=1'-0"

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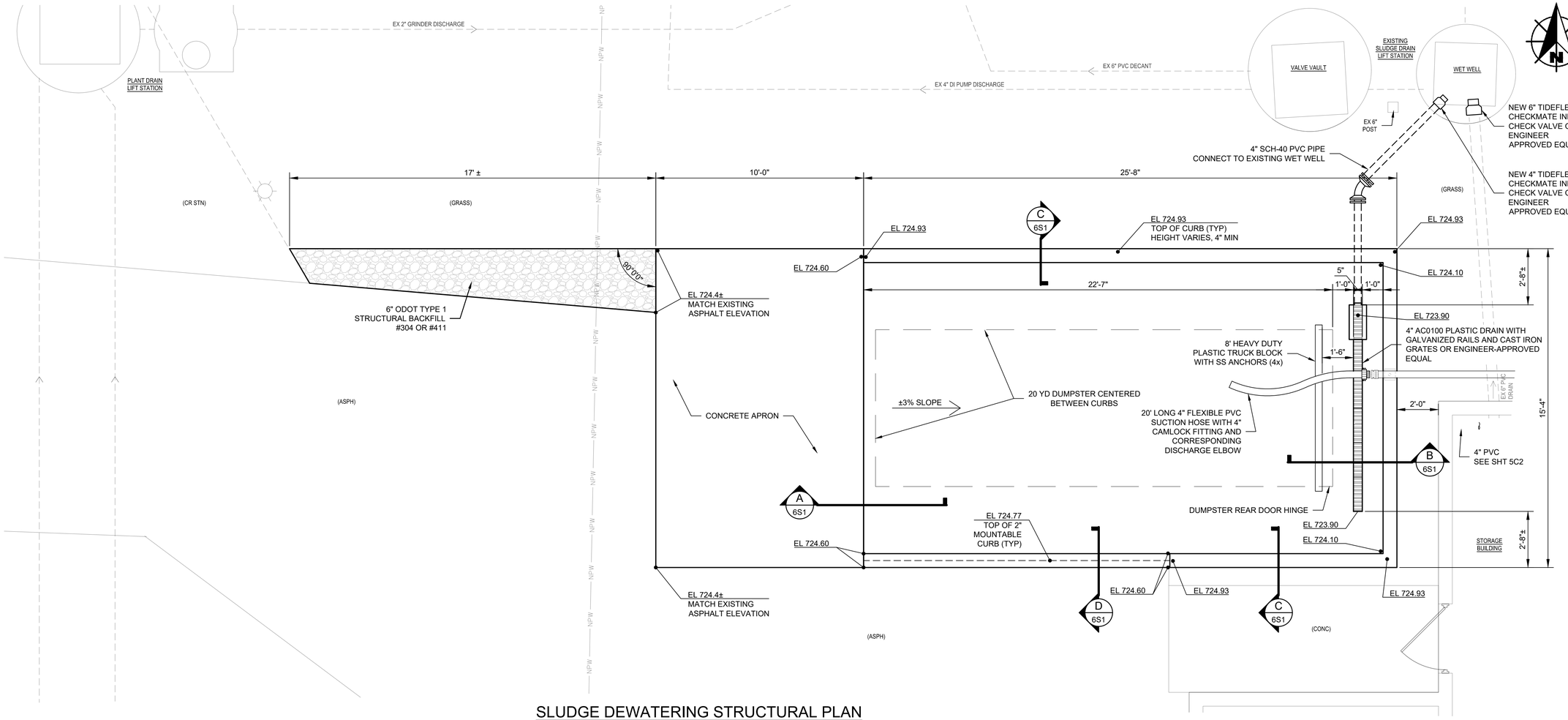
WASTEWATER SYSTEM IMPROVEMENTS

VILLAGE OF GROVER HILL, OHIO

SLUDGE DEWATERING STORAGE BUILDING MODIFICATION PLAN AND SECTIONS

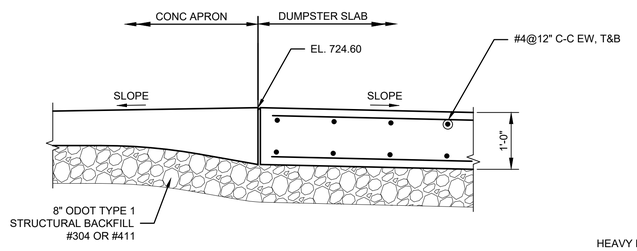
SHEET NO. **5C2**

PAGE NO. **24**



SLUDGE DEWATERING STRUCTURAL PLAN

0 2 4 6 FT 3/8"=1'-0"



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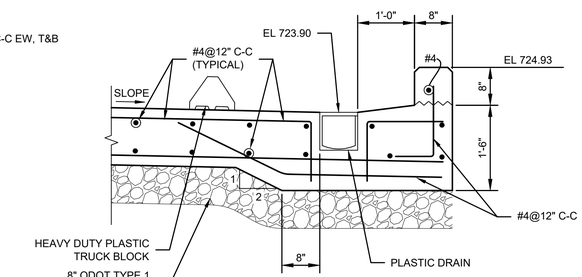
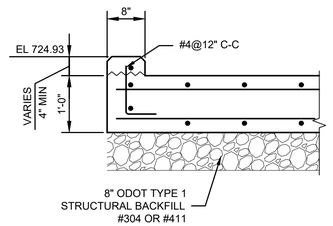
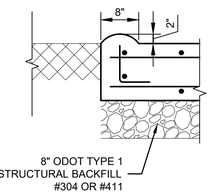


SECTION B 5S1 — 0 1 2 3 FT — 3/4"=1'-0"



SECTION C 5S1 — 0 1 2 3 FT — 3/4"=1'-0"



SECTION D 5S1 — 0 1 2 3 FT — 3/4"=1'-0"

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	APPROVED BY	RKB				
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	PROJECT NUMBER	701218-04-001				

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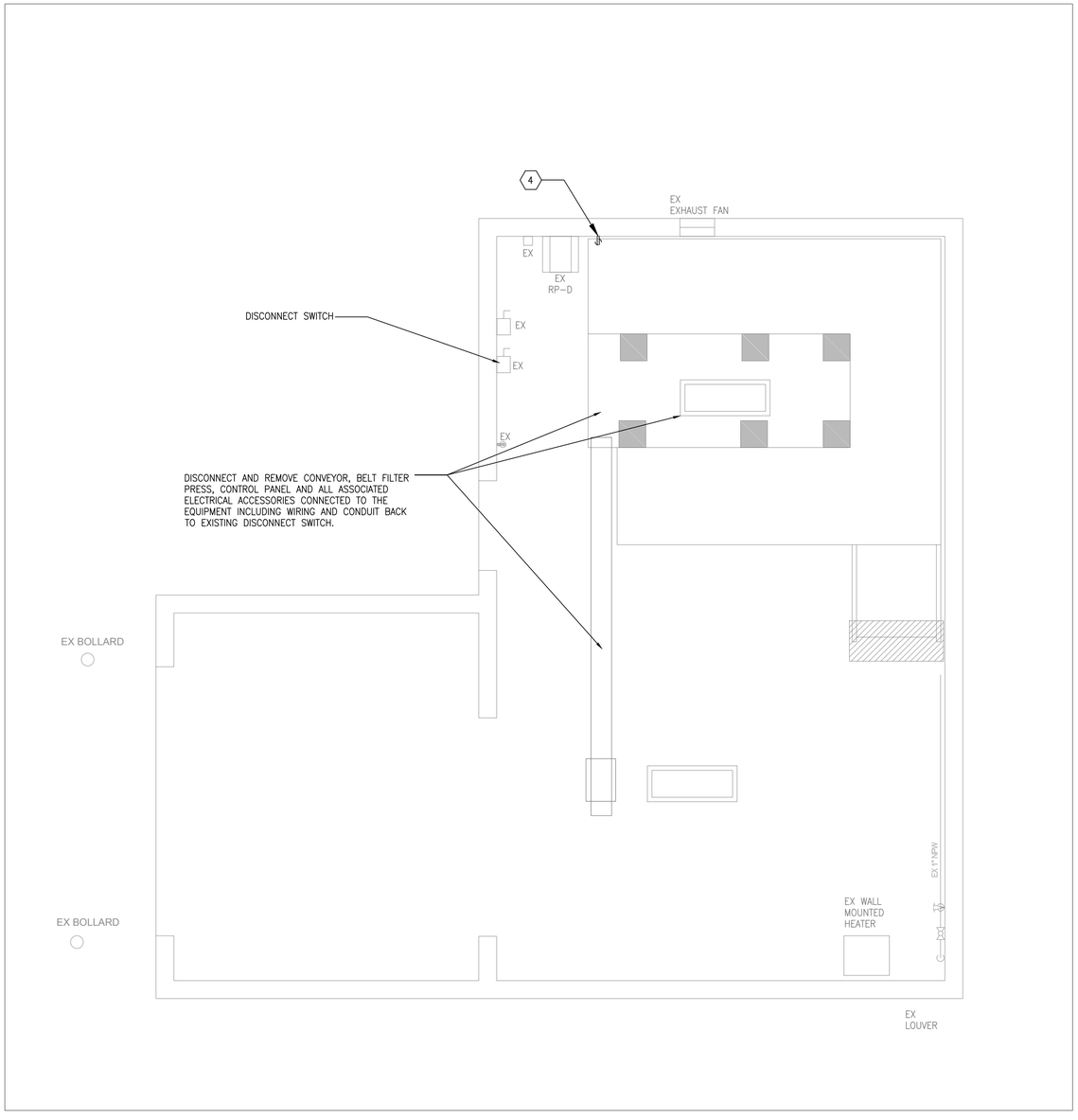
WASTEWATER SYSTEM IMPROVEMENTS

VILLAGE OF GROVER HILL, OHIO

SLUDGE DEWATERING
DEWATERING PAD PLAN, SECTIONS AND DETAILS

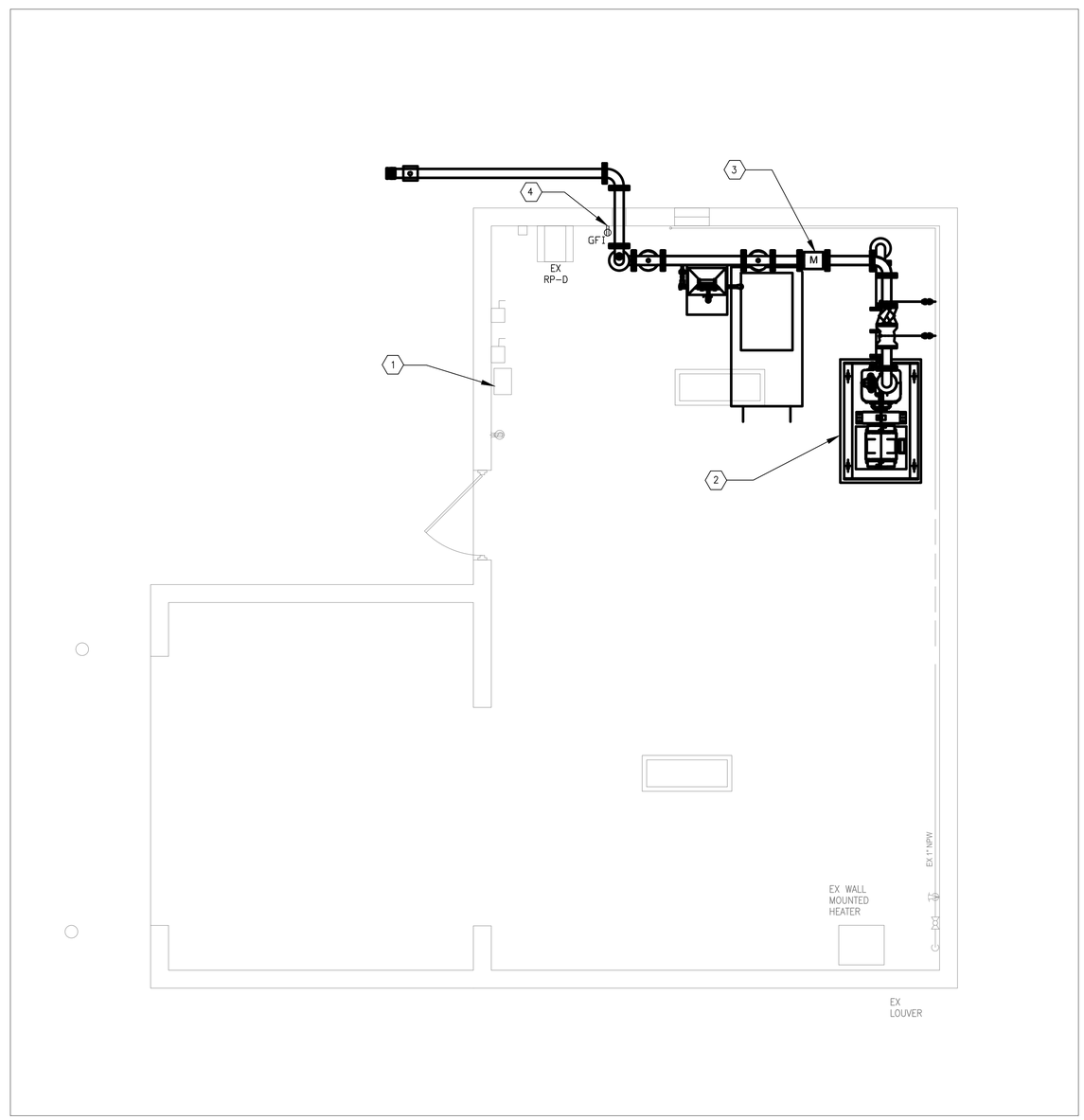
SHEET NO. 5S1

PAGE NO. 25



SLUDGE DEWATERING STORAGE BUILDING ELECTRICAL DEMO PLAN

SCALE: 3/8"=1'



SLUDGE DEWATERING STORAGE BUILDING ELECTRICAL POWER PLAN

SCALE: 3/8"=1'

NOTES

1. INSTALL VARIABLE FREQUENCY DRIVE (VFD) PROVIDED BY OTHERS IN APPROXIMATE LOCATION SHOWN. COORDINATE EXACT LOCATION OF INVERTER WITH ENGINEER PRIOR TO ROUGH-IN.
2. PROVIDE POWER, WIRING, AND CONDUIT BETWEEN EXISTING DISCONNECT THROUGH VFD TO NEW SLUDGE PUMP MOTOR AS REQUIRED, INCLUDING ANY ASSOCIATED CONTROL WIRING WITH FLOW METER. COORDINATE WITH PUMP MANUFACTURER FOR ELECTRICAL REQUIREMENTS.
3. PROVIDE 120V POWER TO FLOW METER FROM PANEL RP-D.
4. EXISTING RECEPTACLE TO BE REPLACED WITH NEW GFCI TYPE RECEPTACLE. EXISTING DOCUMENTATION SHOWS THAT THIS RECEPTACLE IS POWERED THROUGH CONTROL PANEL TO BE REMOVED. PROVIDE NEW CIRCUIT FROM RP-D IF REQUIRED. FIELD VERIFY PRIOR TO BIDDING. NOTE: RECEPTACLE TO PROVIDE POWER FOR POLYMER FEED.

HEAPY
PROJECT NO. 2019-07112

SCALE VERIFICATION

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APPROVED BY	
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PROJECT NUMBER	701218-04-001

NO.	DATE	INITIALS	REVISION DESCRIPTIONS

03-16-2020
STATE OF OHIO
GREGORY P. WRIGHT
77056
REGISTERED
PROFESSIONAL ENGINEER

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WASTEWATER SYSTEM IMPROVEMENTS

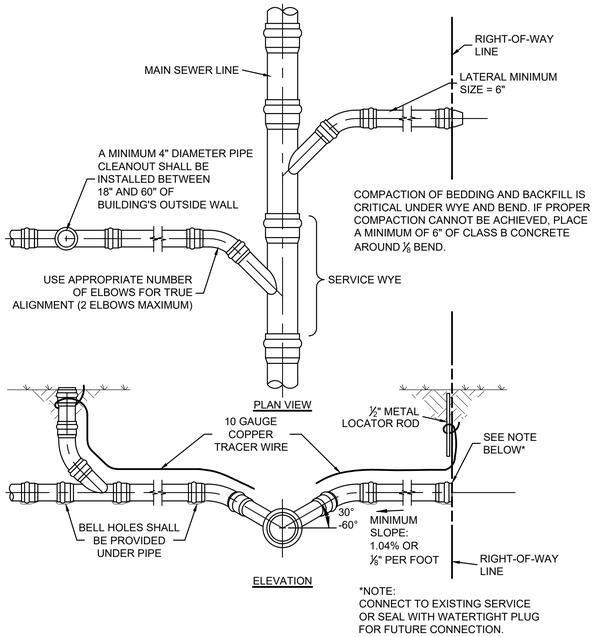
VILLAGE OF GROVER HILL, OHIO

SLUDGE DEWATERING - STORAGE BUILDING POWER PLAN

SHEET NO. **5E1**

PAGE NO. **26**

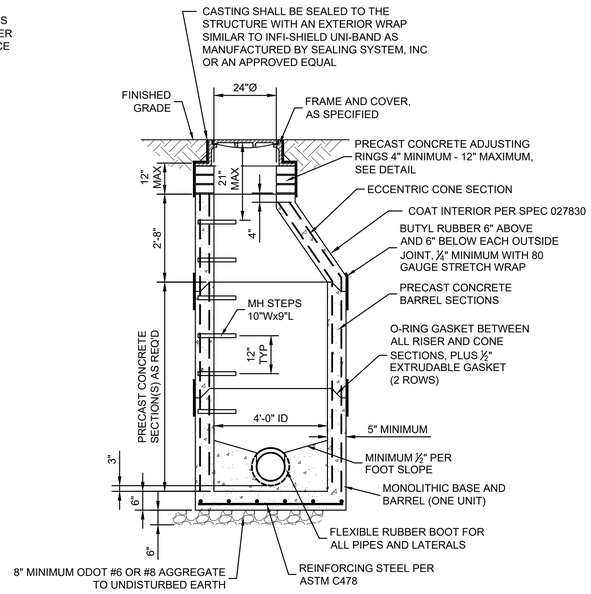
Drawing: H:\L700\2019-07112 - Grover Hill Waste\Water Imp\AutoCAD\2019\2019-07112 GroverHill.dwg | Layout: 5E1 | Plotted: 03/16/20 @ 10:18:47 | LastSavedBy: mphcehn



NOTES:
1. WYE BRANCHES SHALL BE INSTALLED WHERE INDICATED. THEY SHALL BE EXTENDED TO PROPERTY LINES OR TO DISTANCES AS SHOWN ON THE DRAWINGS, AND SHALL BE OF 6" PIPE UNLESS OTHERWISE SHOWN.
2. THE DEPTH OF THE LATERAL AT THE PROPERTY LINE SHALL BE APPROXIMATELY 8'-0" UNLESS SEWER DEPTH IS LESS, IN WHICH EVENT A MINIMUM SLOPE OF 1/8" PER 1'-0" SHALL BE USED.

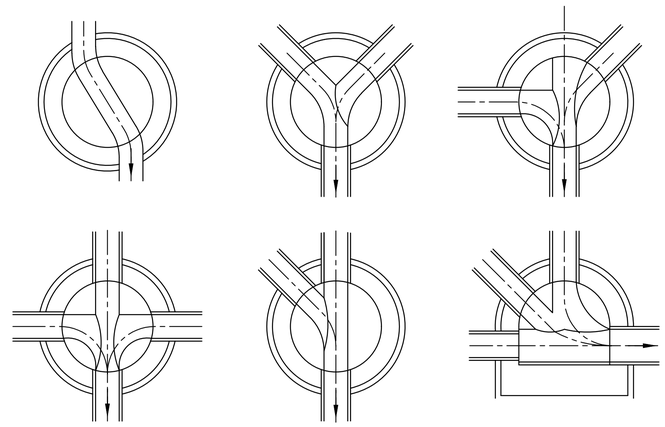
SANITARY LATERAL FOR SHALLOW SEWERS (LESS THAN 15' DEEP)

SCALE: NONE



STANDARD SANITARY SEWER MANHOLE

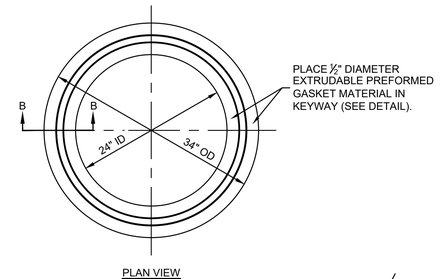
SCALE: NONE



NOTES:
1. SANITARY SEWER BENCH SLOPE = ½" PER FOOT

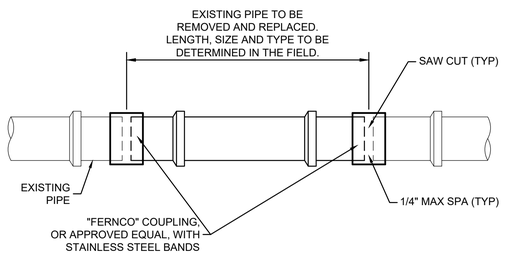
STANDARD MANHOLE BENCHES

SCALE: NONE



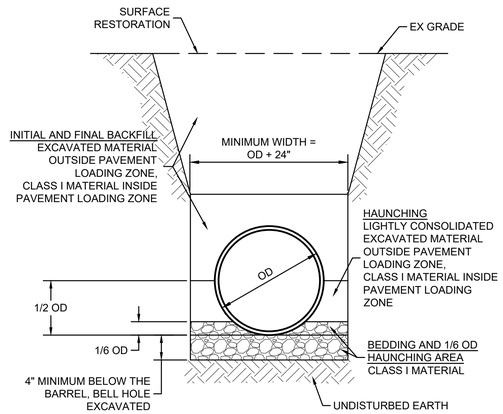
ADJUSTING RING

SCALE: NONE



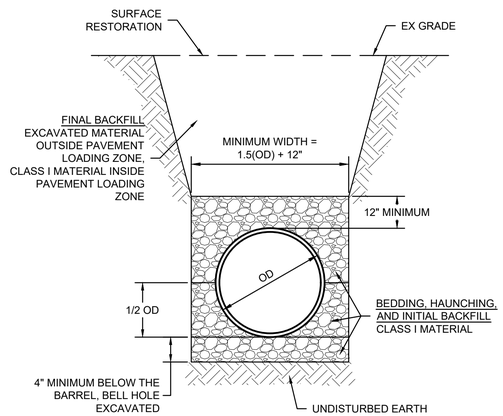
GRAVITY PIPE REPAIR

SCALE: NONE



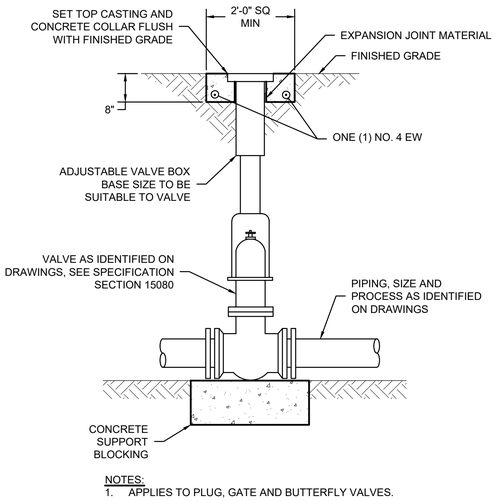
DUCTILE IRON (DI) PIPE TRENCH

SCALE: NONE



FLEXIBLE (HDPE, PP, PVC) PIPE TRENCH

SCALE: NONE



NOTES:
1. APPLIES TO PLUG, GATE AND BUTTERFLY VALVES.

VALVE AND BOX

SCALE: NONE

SCALE VERIFICATION	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
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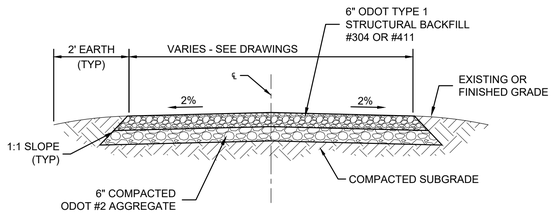
WASTEWATER SYSTEM IMPROVEMENTS

VILLAGE OF GROVER HILL, OHIO

MISCELLANEOUS DETAILS

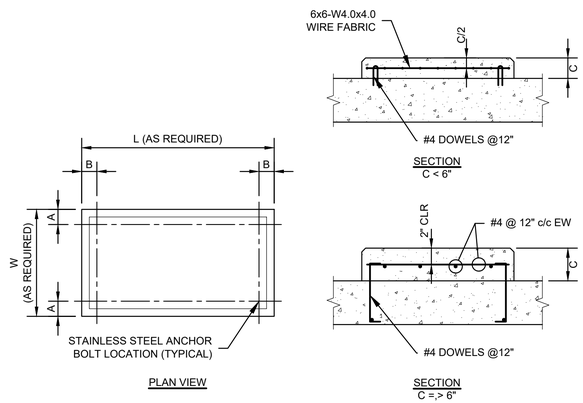
SHEET NO. **6C1**

PAGE NO. **27**



CRUSHED STONE DRIVE

SCALE: NONE

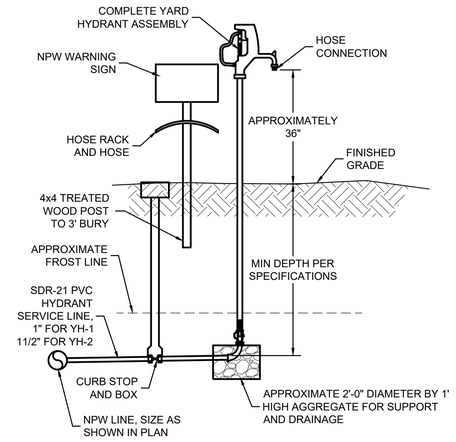


NOTE:

1. DIMENSIONS 'A' & 'B' SHALL BE AS REQ'D BY THE EQUIPMENT, BUT NOT LESS THAN 6". EQUIPMENT PAD HEIGHT SHALL BE AS SHOWN ON THE PLANS OR AS REQUIRED TO SET THE EQUIPEMENT AT THE REQUIRED ELEVATION, BUT NOT LESS THAN 4".

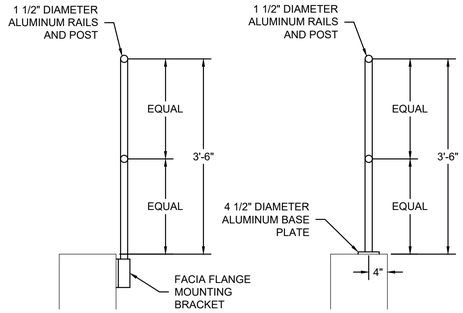
INTERIOR EQUIPMENT BASE DETAIL

SCALE: 1" = 1'-0"



YARD HYDRANT

SCALE: NONE



NOTES:

1. MOUNT HANDRAIL ON TOP OR SIDE AS INDICATED ON THE DRAWINGS. MOUNT WITH STAINLESS STEEL EXPANSION ANCHORS, SIZED AS RECOMMNEDED BY THE HANDRAIL MANUFACTURER.
2. TOP MOUNTED HANDRAIL SHOWN AS OFFSET ON DRAWINGS, SHALL BE OFFSET FROM WALL EDGE AS DIMENSIONED IN THIS DETAIL. CENTER ALL OTHER TOP MOUNTED HANDRAIL.

2-RAIL HANDRAIL

SCALE: NONE

SEASONAL SOIL PROTECTION CHART

STABILIZATION PRACTICE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
PERMANENT SEEDING			A									
DORMANT SEEDING	B											B
TEMPORARY SEEDING			C						D			
SODDING				E								
MULCHING	F											

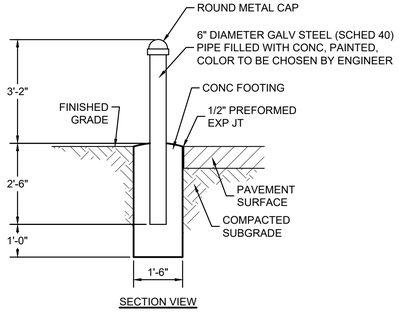
A. = KENTUCKY BLUEGRASS AND PERENNIAL RYEGRASS 100 LB/ACRE
B. = KENTUCKY BLUEGRASS AND PERENNIAL RYEGRASS 150 LB/ACRE. PREPARE SEEDBED PRIOR TO NOV 20
C. = MIX 1 (128 LB/ACRE OATS, 40 LB/ACRE TALL FESCUE, 40 LB/ACRE ANNUAL RYEGRASS), MIX 2 (40 LB/ACRE PERENNIAL RYEGRASS, 40 LB/ACRE TALL FESCUE, 40 LB/ACRE 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)

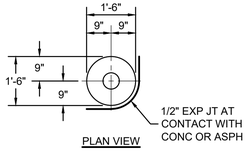
NOTES:

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:

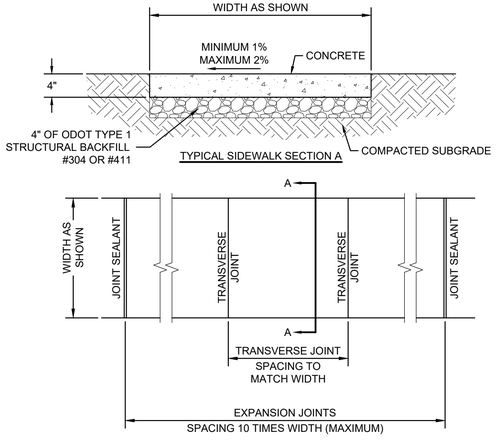
1. INSPECT WITHIN 24 HOURS OF EACH 0.5-INCH RAIN EVENT AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.
2. CHECK FOR EROSION AND MOVEMENT OF MULCH AND REPAIR IMMEDIATELY.
3. MONITOR FOR EROSION DAMAGE AND ADEQUATE COVER (70% DENSITY).
4. RESEED, FERTILIZE OR APPLY MULCH WHERE NECESSARY.





TYPE 1 BOLLARD

SCALE: NONE



CONCRETE SIDEWALK

SCALE: NONE

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WASTEWATER SYSTEM IMPROVEMENTS

VILLAGE OF GROVER HILL, OHIO

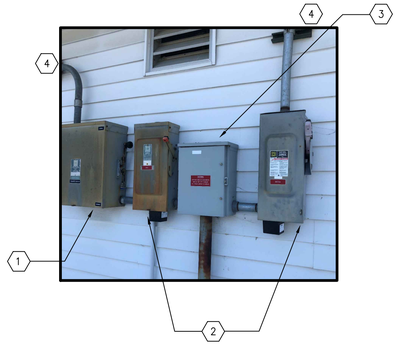
MISCELLANEOUS DETAILS

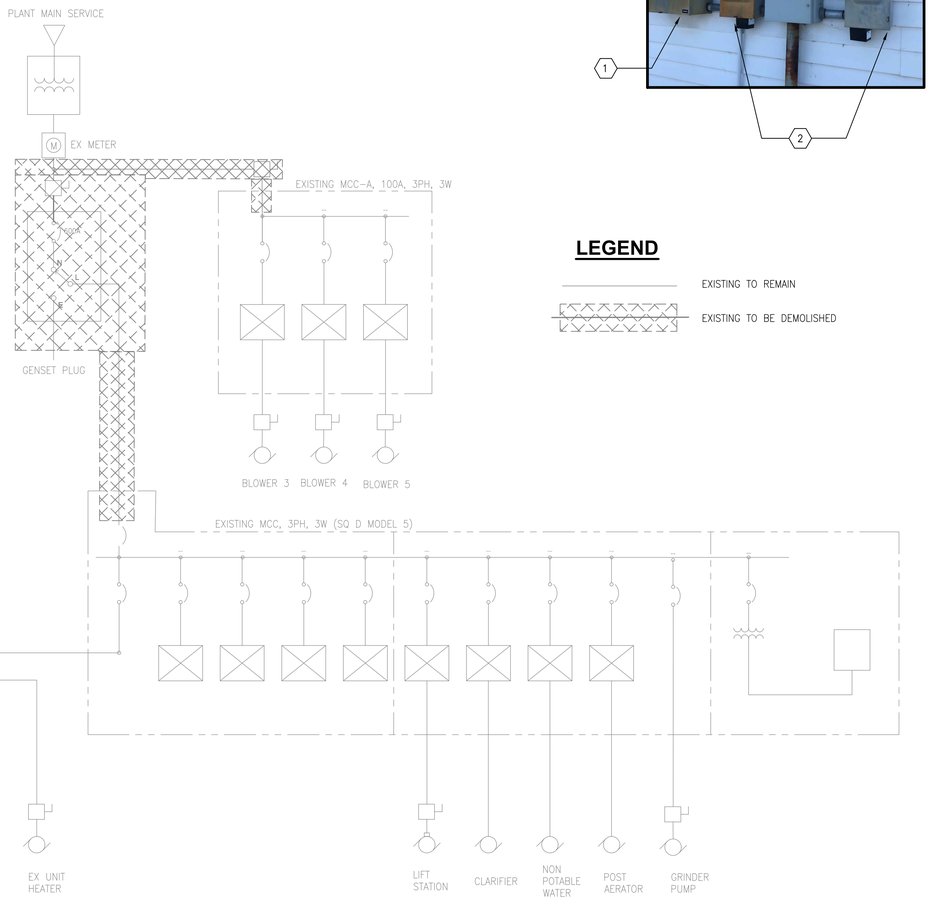
SHEET NO. **6C2**

PAGE NO. **28**

DEMOLITION NOTES

1. DISCONNECT AND REMOVE MTS INCLUDING WIRING AND CONDUIT FROM ITS LOAD SIDE TO THE MCC. MTS TO BE RELOCATED TO WAYNE ST. LIFT STATION.
2. DISCONNECT AND REMOVE TWO (2) EXISTING 100A FUSED DISCONNECTS, INCLUDING WIRE AND CONDUIT ON ITS LOAD SIDE. RELOCATE TO OPPOSITE SIDE OF THE BUILDING CONNECTED TO THE LOAD SIDE OF THE NEW MTS. REFER TO NEW SINGLE LINE.
3. DISCONNECT AND REMOVE EXISTING SPLICE BOX AND REPLACE WITH NEW 200A SERVICE RATED DISCONNECT WITH 150A FUSES. EXISTING INCOMING CONDUCTORS AND CONDUIT TO REMAIN. RE-TERMINATE AS REQUIRED.
4. PLUG ANY HOLES IN BUILDING LEFT BY CONDUITS REMOVED. COORDINATE WITH ENGINEER.





LEGEND

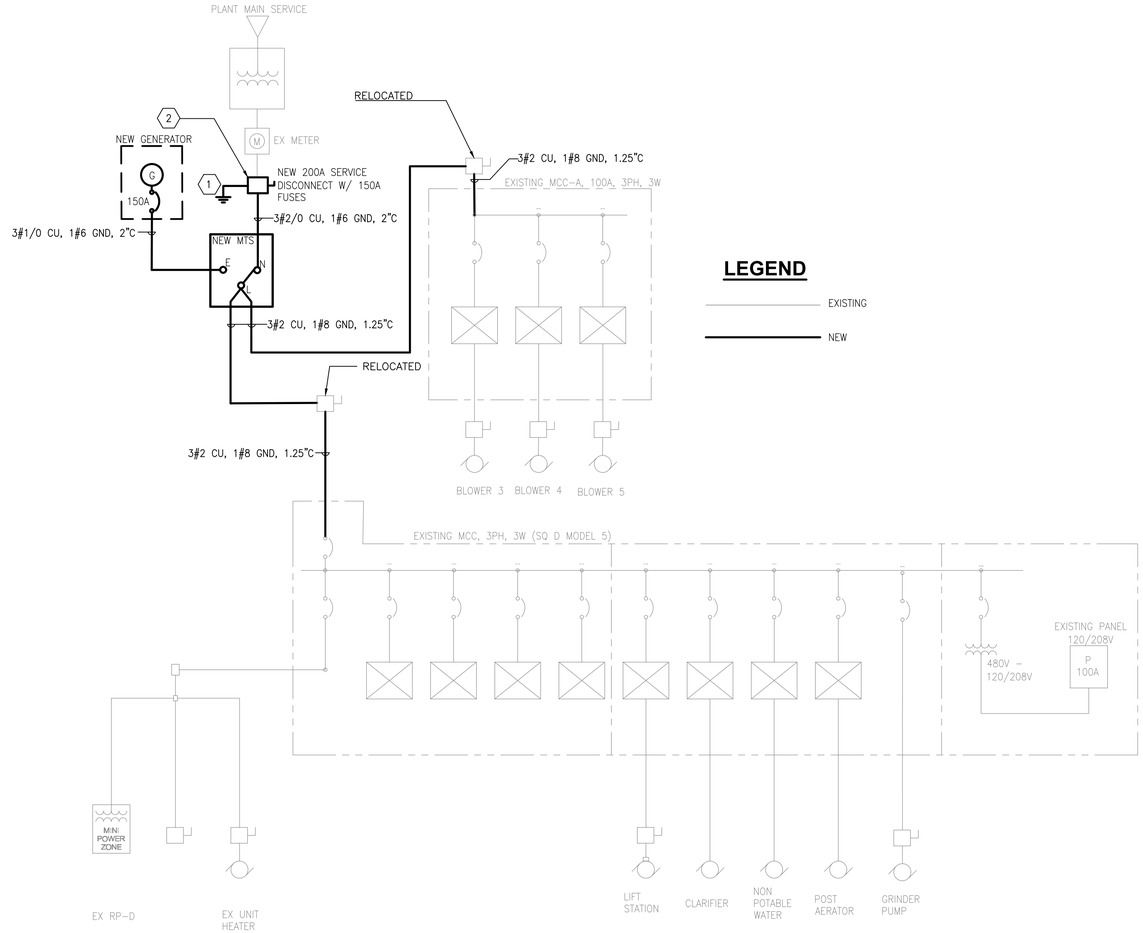
EXISTING TO REMAIN

EXISTING TO BE DEMOLISHED

EXISTING SINGLE LINE
SCALE: NONE

NOTES

1. PROVIDE GROUNDING ELECTRODE CONDUCTOR PER NEC TABLE 250.66. FIELD VERIFY INCOMING SERVICE CONDUCTORS. PROVIDE NEW 10' X 3/4" GROUND ELECTRODE.
2. PROVIDE NEW LIGHTNING ARRESTOR WITH DISCONNECT.



LEGEND

EXISTING

NEW

NEW SINGLE LINE
SCALE: NONE

HEAPY	SCALE VERIFICATION	DRAWN BY	MPH	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
PROJECT NO. 2019-07112	BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	AWM				
		APPROVED BY					
		ISSUE DATE	MARCH 2020				
		PROJECT NUMBER	701218-04-001				

03-16-2020
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