MIDDLETOWN JUNCTION WELLFIELD DEVELOPMENT FOR THE BOARD OF COUNTY COMMISSIONERS WARREN COUNTY, OH



PROJECT LOCATION

<image><section-header>

wing: X:\Warren Co_OH\705524 Warren Co Middletown Junction WF\DWG\Sheets\705524-GS.dwg | Layout: 1G1 | Plotted: 05/16/25 @ 11:03:51 | LastSavedBy: david

<u>PROPERTY ADDRESS</u> 1699 MASON-MORROW-MILLGROVE ROAD LEBANON, OHIO

DRAWINGS PREPARED FOR:

WARREN COUNTY, OHIO

TOM GROSSMAN, COMMISSIONER

SHANNON JONES, COMMISSIONER

DAVID G. YOUNG, COMMISSIONER

MAY 2025







LOCATION AND SCOPE OF WORK PLAN

SCALE VERIFICATION DRAWN BY DATE INITIALS **REVISION DESCRIPTIONS** DMG NO. VVS CHECKED BY BAR IS ONE INCH LONG ON ORIGINAL DRAWING RKB APPROVED BY ISSUE DATE MAY 2025 PROJECT NUMBER 705524-04-001

0 75 150 300 FT 1" = 150'

CONTROL POINTS						
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION		
CP 100	500899.46	1477960.92	698.86	СР		
CP 101	500656.18	1477742.65	653.98	CP CUT		
CP 102	504274.55	1475052.52	647.51	MAGNAIL		

WESSLER ENGINEERING

More than a Project™

HORIZONTAL AND VERTICAL CONTROL INFORMATION

- NOTES:
 A FIELD SURVEY WAS PERFORMED IN MARCH 2024.
 COORDINATES OHIO STATE PLANE, SOUTH ZONE, NAD 83 AND ELEVATIONS (NAVD 88) ARE BASED ON OHCORS.
 UNITS ARE U.S. SURVEY FEET.
 CONTROL POINTS WERE SET USING GPS.
 ALL PROPERTY LINES AND RIGHT OF WAY LINES SHOWN ARE PER WARREN COUNTY, OHIO GIS DATA.



		MIDDLETOWN JUNCTION WELLFIELD - DRAWING INDEX
	NOIL	SHEET TYPE DEFINITIONS:
~	A	G - GENERAL
E C	5	Y - SITE
W	S	C - CIVIL / PROCESS
R	ā	S - STRUCTURAL
щ	E .	E - ELECTRICAL
AG	H	N - NETWORK
Area 1	- GENERA	L
1	1G1	TITLE SHEET
2	1G2	LOCATION, SCOPE OF WORK PLAN, SURVEY CONTROL AND DRAWING INDEX
3	1G3	GENERAL NOTES AND ABBREVIATIONS
4	1S1	STRUCTURAL GENERAL NOTES
Area 2	- SITE	
5	2Y1	EXISTING SITE PLAN
6	2Y2	SITE IMPROVEMENT PLAN
7	2Y3	WELL SITES - ENLARGED SITE PLANS
8	2Y4	SITE ACCESS PLAN
9	2Y5	PLAN AND PROFILE - LITTLE MIAMI RIVER
10	2WM1	PLAN AND PROFILE - LINE A
11	2WM2	PLAN AND PROFILE - LINE A
12	2WM3	PLAN AND PROFILE - LINES B AND C
13	2E1	ELECTRICAL SITE PLAN
Area 3	- WELLS	
14	3C1	WELL PLAN, VALVE VAULT PLAN, AND SECTION VIEW
15	3S1	WELLS NO. 1 AND 3 PLATFORMS - FOUNDATION PLANS AND FRAMING PLANS
16	3S2	WELLS NO. 1 AND 3 PLATFORMS - ELEVATIONS
17	3S3	WELLS NO. 1 AND 3 PLATFORMS - PLATFORM DETAILS
18	3S4	WELL NO. 1 AND 3 PLATFORMS - DETAILS
19	385	WELL NO. 2 PLATFORM - FOUNDATION PLAN AND DETAILS
20	356	WELL NO. 2 PLATFORM - STRUCTURAL PLANS
21	357	WELL NO. 2 PLATFORM - STRUCTURAL SECTIONS
22	358	WELL NO. 2 PLATFORM - SECTIONS AND DETAILS
23	359	WELL NO. 2 PLATFORM - SECTIONS AND DETAILS
24	3510	WELL NO. 2 PLATFORM - STRUCTURAL SECTIONS AND DETAILS
20	3E1	WELL NO. 1 AND 3 - ELECTRICAL PLANS
20 Area /	MISCEL	
27	AV1	MISCELLANEOUS SITE AND CIVIL DETAILS
28	411	MISCELLANEOUS SITE AND CIVIL DETAILS
29	412	MISCELLANEOUS SITE AND CIVIL DETAILS
30	4EC1	EROSION CONTROL DETAILS
31	4EC2	EROSION CONTROL DETAILS
Area 4	- ELECTR	ICAL
32	5E1	ELECTRICAL LEGEND
33	5E2	POWER ONE LINE DIAGRAM
34	5E3	CONTROL ONE LINE DIAGRAM
35	5E4	ELECTRICAL DETAILS
36	5E5	ELECTRICAL GROUNDING DETAILS
37	5E6	REVIS WEIIFIELD PLAN AND EXISTING POWER DISTRIBUTION STRUCTURE LAYOUT
Area 6	- NETWO	RKING
38	6N1	PROCESS AND INSTRUMENTATION LEGEND
39	6N2	PROCESS AND INSTRUMENTATION DIAGRAM
40	6N3	NETWORK DIAGRAM





	E	EXISTIN	G FEATURES LEGE	ND			TABLE OF ABBI	REVIATIONS	6
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
BM	BENCH MARK	CIS	CISTERN		EASEMENT - CONSTRUCTION/PERMANENT	AFF	ABOVE FINISHED FLOOR	IPS	IRON PIPE SIZE
ТВМ	TEMPORARY BENCH MARK	EM	ELECTRIC METER		LOT BOUNDARY	ALUM	ALUMINUM	OSPC	OHIO STATE PLANE COORDINATE
SB 01	SOIL BORING LOCATION	AC	AIR CONDITIONING UNIT	₽	PROPERTY BOUNDARY	APP	APPARENT	LB	POUND(S)
• ·		YYY				APPROX	APPROXIMATE(LY)	LF	LINEAR FEET
					RIGHT-OF-WAT - TEMPORART/PERMANENT	ASPH	ASPHALT	LN	LANE
•	DRILL HOLE IN CONCRETE/HARRISON MONUMENT	XXX	UTILITY PEDESTAL (DEFINED BY UTILITY)		SECTION BOUNDARY		ASSOCIATES		
CP	CONTROL POINT (SET/FOUND)	X	UTILITY MARKER (DEFINED BY UTILITY)		WETLANDS	AVE	AVENUE	MJ	MECHANICAL JOINT
MG	MAGNETIC NAIL (SET/FOUND)		JOINT POWER/TELEPHONE POLE	849	CONTOUR - INTERMEDIATE ELEVATION	AVG	AVERAGE	MATL	MATERIAL
(BS)	BOAT SPIKE (SET/FOUND)			850	CONTOUR - INDEX ELEVATION	BLDG	BUILDING	MAX	MAXIMUM
						BLVD	BOULEVARD	MH	MANHOLE
(PK)	PK NAIL (SET/FOUND)	(PL)	LIGHT ON POWER POLE	OHE OHE		CO		MIN	MINIMUM
RS	RAILROAD SPIKE (SET/FOUND)	Ú.	LIGHT ON JOINT POLE	OHC OHC	OVERHEAD CABLE TV	CI	CAST IRON	MNFR	MANUFACTURER
RW	R/W MARKER - CONCRETE/GRANITE/STONE	P	POWER POLE	OHT OHT	OVERHEAD TELEPHONE	CL	CENTER LINE	N	NORTHING, NORTH
\bigcirc	IRON PIPE/IRON PIN/REBAR (WITH DIAMETER)		TELEPHONE POLE	UGCUGC	UNDERGROUND CABLE TV	СМА	COLD MIX ASPHALT	NGS	NATIONAL GEODETIC SURVEY
	, , , , , , , , , , , , , , , , , , ,						CORRUGATED METAL PIPE	NO.	
(BP)	BRASS PLUG	Д	LAMP POST	UGE UGE		CONC	CONCRETE		OUTSIDE DIAMETER
C	CABLE TV MANHOLE	\rightarrow	GUY ANCHOR	UGF UGF	UNDERGROUND FIBER OPTIC	CONT	CONTINUOUS	PC	POINT OF CURVE (BEGIN CURVE)
E	ELECTRIC MANHOLE	-	GUY POLE OR STUB	G G G	GAS MAIN	CNR	CORNER	POLY	POLYETHYLENE
G	GAS MANHOLE		CONTROLLER CABINET	DG DG	DIGESTER GAS	СР	CONTROL POINT	PI	POINT OF INTERSECTION
						CPP	CORRUGATED PLASTIC PIPE	POT	
<u>(</u>)	OTHER MANHOLE	(FP)						PI	
T	TELEPHONE MANHOLE	0	POST	UGT UGT	UNDERGROUND TELEPHONE	D	DEPTH	PT	POINT
TEL	TELEPHONE VAULT		GROUND LIGHT	w w w	WATER MAIN	DI	DUCTILE IRON	PVC	POLYVINYL CHLORIDE
(1)	TRAFFIC MANHOLE	M	MAILBOX	W W W	WATER SERVICE	DI MJ	DUCTILE IRON MECHANICAL JOINT	R	RADIUS
						DBL	DOUBLE	ROW	RIGHT-OF-WAY
H				F M — F M —				RCP	REINFORCED CONCRETE PIPE
Ŵ	WATER MANHOLE				GRAVITY SEWER PIPE	DIPS	DUCTILE IRON PIPE SIZE	S	SOUTH
A	AIR RELEASE VALVE	\bigcirc	TRAFFIC SIGNAL STRAIN POLE	· · · · · ·	PLANT CHLORINE PIPE	DR	DRIVE	SR	STATE ROUTE
S	SANITARY SEWER MANHOLE		SIGNAL LOOP DETECTOR BOX		TOP OF BANK/TOE OF SLOPE	E	EASTING, EAST	SST	STAINLESS STEEL
						EF	EACH FACE	SVA	SERVICE VALVE ASSEMBLY
			SIGNAL LOOP DETECTOR LOOP		CENTERLINE OF DITCH/SWALE/STREAM	EVV		SB	
\bigcirc	SANITARY SEWER CLEANOUT		SIGN - SINGLE POST	xxxxxxx	FENCE - FIELD	EJ	EAST JORDAN IRON WORKS	SDR	STANDARD DIMENSION RATIO
ST	SEPTIC TANK		SIGN - DOUBLE POST	oooooooo	FENCE - METAL	EL	ELEVATION	SECT	SECTION
(v v)	VALVE VAULT		SIGN - RAILROAD SIGNAL	0 0	FENCE - WOOD	EX	EXISTING	SF	SQUARE FEET
<u>س</u>		R∕R				EXP	EXPANSION	SHT	SHEET
			SIGN - RAILROAD CROSSING		GUARDRAIL	FFE	FINISH FLOOR ELEVATION	SPECS	SPECIFICATION(S)
	CURB INLET	\bigcirc	BUSH		STREAM	FND	FOUND	SRF	STATE REVOLVING FUND
	DROP INLET	八	STUMP		TREE/BRUSH LINE	FT	FEET	ST	STREET
	CATCH BASIN	×	TREE - CONIFEROUS			FTG	FOOTING	STA	STATION
DS						GALV	GALVANIZED	SYD	SQUARE YARD
GM						GPS HMA	GLOBAL POSITIONING SYSTEM		
Ŏ	GAS METER		KOCK OUTCROP			HDPE	HIGH DENSITY POLYETHYLENE	ТҮР	TYPICAL
GV	GAS VALVE	5 ^A >	SATELLITE			HORIZ	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
oso	GAS SERVICE VALVE	SPH	SPRINKLER CONTROL VALVE			ID		USGS	US GEOLOGICAL SURVEY
PV M	PETROLEUM VALVE	NM.	WATER METER	Ohio Utilities P	rotection Service				
0 ^S 0		U U U U U U U U U U U U U U U U U U U							
` O `									
GMW	GAS STATION MONITORING WELL	4°00	WATER SERVICE VALVE			INV	INVERT	YR	YEAR
GFC	GAS STATION FILL CAP		WATER WELL			L *NOTE: THIS TABLE IS	A LISTING OF TYPICAL ABBREVIATIONS AND N	I AY NOT INCLUDE ALL A	ABBREVIATIONS FOUND WITHIN THIS
GW	NATURAL GAS WELL/STORAGE WELL	(w w)	WET WELL	before w		PLAN SET. IF A QUEST ENGINEER FOR CLARI	ION ARISES ON THE MEANING OF AN ABBREV FICATION.	IATION NOT LISTED IN	THIS TABLE, PLEASE CONTACT THE
s P sy	SPRINKLER HEAD		FIRE HYDRANT	n a da la					
\sim		<u>≁</u> ¥						JUNIAU IS	
\cup			PROCESS VALVE				WATER		ELECTRIC

*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.

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BAR IS	ONE INCH LONG ON	CHECKED BY	VVS				
ORI	IGINAL DRAWING	APPROVED BY	RKB				
I I			ISSUE DATE				
			MAY 2025				
		PROJEC	T NUMBER				
		705524	4-04-001				
						I	

WARREN COUNTY WATER AND SEWER DEPT 406 JUSTICE DRIVE LEBANON, OHIO 45036 513-695-1377 ATTN: CHRIS BRAUSCH, DIRECTOR ENGINEER

DUKE ENERGY OHIO 11738 SOLZMAN ROAD CINCINNATI, OHIO 45249 513-256-4065 ATTN: ZAC WYSINSKI, ENGINEERING SPECIALIST

IDESCRIPTIONS





BOARD OF COUNTY COMMISSIONERS WARREN COUNTY, OH

GENERAL NOTES AND ABBREVIATIONS

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.

GENERAL NOTES:

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. 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 UTILITY PROTECTION SERVICES (OUPS) AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY. CONTACT NON-MEMBER UTILITIES DIRECTLY.

8. 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. 9. 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. 10. COORDINATE PLANNED UTILITY SERVICE INTERRUPTIONS WITH THE RESPECTIVE UTILITIES AND THE UTILITIES' AFFECTED CUSTOMERS. SERVICE INTERRUPTIONS SHOULD NOT LAST MORE THAN FOUR (4) HOURS. GIVE WRITTEN NOTICE TO ALL AFFECTED UTILITY CUSTOMERS AND PROPERTY OWNERS AT LEAST TWENTY-FOUR (24) HOURS BUT NOT MORE THAN SEVENTY-TWO (72) HOURS PRIOR TO ANY PLANNED

INTERRUPTION OF UTILITY SERVICE. 11. 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. 12. COORDINATE STAGING AREA LOCATIONS WITH THE OWNER.

13. BIKE TRAIL TO BE REPAIRED TO EXISTING CONDITIONS AND MAINTAINED DURING CONSTRUCTION.

OHIO DEPARTMENT OF NATURAL RESOURCES LITTLE MIAMI SCENIC PATHWAY ODNR (937) 382-1096 ATTN: TIFFANY DeCHANT-HART





SIC SEISMIC RESISTING SIGN BASE SHEAR ELL PLATFORM NO. 1 & 3 ELL PLATFORM NO. 2 SPONSE COEFFICIENTS SPONSE MODIFIER (R) JALYSIS PROCEDURE INFORCIAL FLOOR LOADING ELL PLATFORM NO. 1 & 3 ELL PLATFORM NO. 1 & 3 ELL PLATFORM NO. 2 OOD LOADS (ASCE 7 & AS ELL PLATFORMS ARE SEFI INFORCING SHALL BE DE ANDEES ARE REQUIRED ST-IN-PLACE CONCRETE ON STRUCT CONCRETE INFORCING SHALL BE DE CONCRETE CAST AGAINS CONCRETE CAST AGAINS C	(Cs) (Cs) SCE 24) PARATED FROM FORM NO. 2) IS OCITY AT WELD DWAY DATA. EEN DESIGNED DUE TO FLOOD NED FOR AN AS ADEQUATE SU SOF # 67 STON TIONS SHALL B ENTATIVE TO V FOR THE ASSU ETAILED ACCOI FOR REINF ST E SHALL HAVE A ISE NOTED. TE COVER SHAL ST AND PERMA D EARTH / WEA E SAME SIZE AN SCALE VERI	B H. STEEL SY DETAILED FO 0.50 KIPS 3.10 KIPS 0.062 3 EQUIVALENT 150 PSF 100 PSF M THE RIVER APPROX. 300 D TO RESIST E CONDITIONS SSUMED ALLO UBGRADE SC IE BELOW ALL SE INSPECTEE VERIFY THAT JMED ALLOW RDING TO TH TEEL SUPPOR A MINIMUM UI LL BE PROVIE ANENTLY EXF ANENTLY EXF ANENTLY EXF ANENTLY EXF ANENTLY EXF ANENTLY EXF	STEMS NOT SP OR SEISMIC RE DY A DENSELY OFEET FROM C DEET FROM C DED TO EAR AST A QUALIFI THE STRUCTURES D BY A QUALIFI THE ST	CLG	TO F AL S OF ESS S.	DATE	INITIALS	F.	1. 2. 3. 4. GAL 1. 2. 3. 4.	STRUCTURAL ST SHALL MEET AS HSS SECTIONS S STAINLESS STEP ANCHOR RODS BOLTS, NUTS, AI WELDING: AWS GROUT UNDER O UNLESS OTHER ALL METALS AR ALL METALS AR BEARING BARS: AT 1 3/16 INCH O MAXIMUM GRAT ALL GRATING IS STAINUM GRAT ALL GRATING IS STAINUM GRAT	FEEL SH TM A57. SHALL P EL : TO SHALL P SHALL P STAND COLUM VISE N E TO BE RATING BE 1 1/4 ING DE TO BE
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ISSUE DATE

MAY 2025

PROJECT NUMBER

705524-04-001

ENTS A TENSION SPLICE, AS NOTED IN THE FOLLOWING TABLE FOR EACH INFORCING BAR SIZE. AN UNDIMENSIONED BEND REPRESENTS A 100K. TENSION SPLICES ARE IN ACCORDANCE WITH ACI 318, BASED ON FEEL REINFORCING AND 4500 PSI 28 DAY CONCRETE STRENGTH BUT ARE ESS THAN THAT NOTED BELOW. CONDITION

OTHER	TOP	
18"	21"	TOP BARS ARE HORIZONTAL BARS
20"	24"	WITH MORE THAN 12 INCHES OF
24"	30"	CONCRETE CAST BELOW THE BAR
30"	36"	

NG DETAILS SHOWN REPRESENT MINIMUM REQUIREMENTS. ALTERNATE BUT HODS ARE ACCEPTABLE, BUT THEY SHALL NOT BE USED WITHOUT PRIOR BY THE ENGINEER. SEE SPECIFICATION SECTION 03200 "CONCRETE MENT" FOR SHOP DRAWING REQUIREMENTS.

NG BARS: BILLET STEEL, DEFORMED BARS TO COMPLY WITH ASTM A615,

RE FABRIC: ASTM A1064.

ED CORNERS SHALL HAVE 3/4 INCH CHAMFER.

I CHLORIDE SHALL BE USED IN CONCRETE.

TOR DESIRES TO INCREASE SLUMP ABOVE ALLOWABLE LIMITS INDICATED IN ICATION TO FACILITATE PLACEMENT OR PUMPING, THIS SHALL BE DONE APPROPRIATE APPROVED ADMIXTURE. NO WATER SHALL BE ADDED AT T SITE WITHOUT THE ENGINEER'S APPROVAL. ALL ADMIXTURES ARE TO BE WITH THE CONCRETE MIX DESIGN AND ARE TO BE APPROVED PRIOR TO USE. NITH HIGH-RANGE WATER REDUCING ADMIXTURE SHALL HAVE A MAXIMUM INCHES PRIOR TO ADDING ADMIXTURE. THE CONTRACTOR, IN TION WITH THE CONCRETE SUPPLIER, SHALL TAKE APPROPRIATE STEPS TO TE FOR THE LOSS OF AIR-ENTRAINMENT DURING PUMPING.

V CONCRETE IS DEPOSITED AGAINST CONCRETE THAT IS GREATER THAN 28 THOROUGHLY CLEAN EXISTING SURFACE OF LAITANCE AND FOREIGN AND APPLY BONDING AGENT FOLLOWING RECOMMENDATIONS OF JRER.

ETE IS REINFORCED UNLESS SPECIFICALLY NOTED AS UNREINFORCED.

SPLICES, EMBEDDED DOWELS WITH MECHANICAL SPLICES AND DOWEL TUTES, SHALL DEVELOP 125% OF THE SPECIFIED YIELD STRENGTH OF THE NG BAR PER ACI REQUIREMENTS. SPECIFIC USE SHALL BE APPROVED BY

STEEL SHALL MEET ASTM A992, GRADE 50, EXCEPT ANGLES AND PLATES ASTM A572 GRADE 50.

NS SHALL MEET ASTM A500, GRADE C, Fy = 50 KSI. STEEL : TO ASTM A276, TYPE 304, CLASS A

DDS : SHALL CONFORM TO ASTM F1554, GRADE 36. , AND WASHERS: TO ASTM A325, A563 AND A436 RESPECTIVELY.

WS STANDARDS AND SPECIFICATIONS.

ER COLUMN BASE PLATES WITH 1 1/2 INCH MINIMUM NON-SHRINK GROUT, IERWISE NOTED.

ARE TO BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123.

TO BE 1 1/4 INCH MINIMUM, GALVANIZED STEEL GRATING.

RS: 1 1/4 INCH HIGH X 3/16 INCH WIDE BEARING BARS MINIMUM AND SPACED H C/C MINIMUM.

RATING DEFLECTION IS NOT TO EXCEED 1/4 INCH.

S IS TO BE ANCHORED TO SUPPORTING ELEMENTS.

SPECIAL INSPECTIONS AND TESTS

THE FOLLOWING ITEMS SHALL BE SUBJECT TO SPECIAL INSPECTIONS AS OUTLINED IN CHAPTER 17 OF THE 2024 OHIO BUILDING CODE (OBC):

- 1. STEEL CONSTRUCTION PER OBC 1705.2 AND REQUIREMENTS OF AISC 360 (QA) a. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.
- 2. CONCRETE CONSTRUCTION PER OBC 1705.3 a. INSPECT REINFORCEMENT AND VERIFY PLACEMENT. (PERIODIC)
 - b. INSPECT ANCHORS CAST IN CONCRETE. (PERIODIC) c. VERIFY USE OF REQUIRED DESIGN MIX. (CONTINUOUS)
 - d. PERFORM STRENGTH TESTS, SLUMP AND AIR CONTENT TESTS, AND DETERMINE TEMPERATURE OF CONCRETE. (CONTINUOUS)
 - e. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES. (CONTINUOUS)
 - f. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES. (PERIODIC)
 - g. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED. (PERIODIC)
- SOILS PER OBC 1705.6 3.
 - a. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY. (PERIODIC)
 - b. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL. (PERIODIC)
- CONTRACTOR TO PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND INCIDENTALS AS REQUIRED TO COOPERATE WITH INDIVIDUAL SPECIAL INSPECTORS AND TESTING AGENCIES EMPLOYED BY THE OWNER TO FACILITATE SPECIAL INSPECTIONS.
- CONTRACTOR TO NOTIFY SPECIAL INSPECTION LABORATORY AT LEAST 48 HOURS PRIOR 5. TO START OF WORK.

6. STRUCTURAL OBSERVATIONS PER OBC 1704.6.1

- a. WELL PLATFORMS ARE CLASSIFIED RISK CATEGORY III, REQUIRING STRUCTURAL OBSERVATIONS BY A REGISTERED DESIGN PROFESSIONAL. b. THE STRUCTURAL OBSERVER SHALL VISUALLY OBSERVE REPRESENTATIVE
- LOCATIONS OF STRUCTURAL SYSTEMS, DETAILS AND LOAD PATHS FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS.

MIDDLETOWN JUNCTION

BOARD OF COUNT WARREN

STRUCTURAL GENERAL NOTES





WELLFIELD DEVELOPMENT	SHEET NO.
TY COMMISSIONERS COUNTY, OH	1S1
	PAGE NO.



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MIDDLETOWN JUNCTION WELLFIELD DEVELOPMENT SHEET NO. **2Y1** BOARD OF COUNTY COMMISSIONERS WARREN COUNTY, OH PAGE NO. **EXISTING SITE PLAN** 5





GENERAL NOTES:

- CONTRACTOR TO PROTECT EXISTING MONITORING WELLS FROM DAMAGE. ACCESS TO THE SITE SHALL BE FROM THE ODNR'S LITTLE MIAMI SCENIC PATHWAY WITH ENTRY FROM 342 RAILROAD STREET, SOUTH LEBANON.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MOVEMENT ALL EQUIPMENT, MATERIALS, AND SUPPLIES ON AND OFF THE SITE, AS REQUIRED, AND SHALL TAKE ALL NECESSARY MEASURES TO MINIMIZE DAMAGE TO THE PROPERTY. CONTRACTOR SHALL TAKE PRECAUTIONS TO NOT DAMAGE THE APPROXIMATELY 6,500 FEET OF PAVED TRAIL THAT LEADS TO THE WELLFIELD AND SHALL COORDINATE ALL EQUIPMENT AND MATERIAL TRANSPORT WITH THE ODNR PARK MANAGER, TIFFANY DECHANT-HART(937-382-1096). CONTRACTOR SHALL COORDINATE ALL WORK WITH ODNR A MINIMUM TWO WEEKS PRIOR TO MOBILIZING EQUIPMENT. TRAIL CLOSURES WILL NOT BE PERMITTED. ANY AND ALL DAMAGE CAUSED TO THE TRAIL SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS REQUIRED TO REDUCE THE POTENTIAL FOR PROPERTY DAMAGE AND INJURIES. IF NECESSARY, THE CONTRACTOR SHALL PROVIDE FLAGGERS, SIGNAGE, EXTRA PERSONNEL, TEMPORARY FENCING, ETC AS REQUIRED TO SAFELY MOBILIZE AND DEMOBILIZE EQUIPMENT AND MATERIALS TO THE SITE.
- ALL EQUIPMENT, MATERIALS, JOB TRAILERS, VEHICLES (INCLUDING EMPLOYEE AND VENDORS) AND PROJECT ITEMS SHALL BE LOCATED OUtSIDE OF VIEW FROM THE LITTLE MIAMI SCENIC PATHWAY.

5.

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SCALE: 1" = 80'

MIDDLETOWN JUNCTION V N DESCRIPTIONS ATE OF BOARD OF COUNTY RYAN KENT BRAUEN E-79180 WARREN C WESSLER ENGINEERING SITE ACCI 05/16/2025 More than a Project™

GENERAL NOTES:

INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN OR AS DETERMINED NECESSARY BY CONTRACTOR TO PROVIDE ADEQUATE CONTROL FOR THE CONSTRUCTION AREA. SITE GRADING AT WELL PLATFORMS IS ON SHEET 2Y3. 1.

2.

LEGEND

CRUSHED STONE DRIVE CONCRETE WASHOUT

-/--/- SILT FENCE

VELLFIELD DEVELOPMENT	SHEET NO.
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MIDDLETOWN JUNCTION W DESCRIPTIONS STATE OF OH W BOARD OF COUNTY RYAN KENT BRAUEN E-79180 TS GISTERIS CO WARREN CC WESSLER ENGINEERING LITTLE MIAMI RIV 05/16/2025 More than a Project™

GENERAL NOTES:

INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN OR AS DETERMINED NECESSARY BY CONTRACTOR TO PROVIDE ADEQUATE CONTROL FOR THE CONSTRUCTION AREA.

ELLFIELD DEVELOPMENT	SHEET NO.
COMMISSIONERS DUNTY, OH	2Y5
/ER CROSSING	PAGE NO.

GENERAL NOTES:

- INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN OR AS DETERMINED NECESSARY BY CONTRACTOR TO PROVIDE ADEQUATE CONTROL FOR THE CONSTRUCTION AREA.
- NEW CRUSHED STONE DRIVE TO HAVE POSITIVE DRAINAGE.

NELLFIELD DEVELOPMENT	SHEET NO.
Y COMMISSIONERS COUNTY, OH	2WM1
OFILE - LINE A	PAGE NO. 10

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VERT SCALE: 1" = 5'

N DESCRIPTIONS TATE OF O RYAN KENT BRAUEN E-79180 WESSLER C. CUSTER! SONAL ENGINEERING **PLAN AND PROFILE - LINE A** 05/16/2025 More than a Project™

ISSUE DATE

MAY 2025

PROJECT NUMBER

705524-04-001

PLAN AND PROFILE

More than a Project™

SCALE: 1" = 30'

GENERAL NOTES:

- INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN OR AS DETERMINED NECESSARY BY CONTRACTOR TO PROVIDE ADEQUATE CONTROL FOR THE CONSTRUCTION AREA. 2.
- NEW CRUSHED STONE DRIVE TO HAVE POSITIVE DRAINAGE

VALVE VAULT, SEE DETAIL SHEET 3C1

NELLFIELD DEVELOPMENT	SHEET NO.
Y COMMISSIONERS OUNTY, OH	2WM3
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SHEET NO. **2E1** BOARD OF COUNTY COMMISSIONERS WARREN COUNTY, OH PAGE NO. 13

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С

	GROUT DEPTH BELOW FINISHED GRADE	GRAVEL PACK DEPTH BELOW FINISHED GRADE	SCREEN LENGTH	EXISTING GRADE AT WELL	TOP OF CASING	PUMP SETTING DEPTH BELOW FINISHED GRADE	DEPTH OF NEW WELL BELOW FINISHED GRADE	CASING DIAMETER
W-1	0' - 58'	60' - 90'	20'	613.1'	616.12'	68.1'	90'	16"
V-2	5'- 30'	45'- 71'	20'	610.5	613.50'	50'	71'	16"
V-3	0' - 54.5'	55' - 85'	20'	611.3'	614.31'	63'	85'	16"

05/16/2025	05/16/2025
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3S1 PAGE NO.

PROVIDE 1/2" DIA. DRAIN HOLES AT BASE OF COLUMNS

ALL METALS ARE TO BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123

	TE OF O	
S PROFESSIE O	JAKOB C. BRUHL E-89802 COISTER ONAL 5/16/2025	TISNEE O

JAKOB C. BRUHL E-89802 OVAL 05/16/2025	

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MIDDLETOWN JUNCTION W

BOARD OF COUNTY WARREN CO

WELLS NO. 1 AND DETA

NELLFIELD DEVELOPMENT	SHEET NO.
Y COMMISSIONERS OUNTY, OH	3S4
D 3 PLATFORMS	PAGE NO.
AILS	18

FOUNDATION PLAN SCALE: 3/8" = 1' - 0"

MIDDLETOWN JUNCTION V

BOARD OF COUNTY WARREN C

REVISION DESCRIPTIONS

VELLFIELD DEVELOPMENT	SHEET NO.
Y COMMISSIONERS OUNTY, OH	3S5
IDATION PLAN AND DETAILS	PAGE NO. 19

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MIDDLETOWN JUNCTION W		IN ATE OF ON	DESCRIPTIONS
BOARD OF COUNTY		JAKOB C. BRUHL	
		E-89802	
WELL NO. 2 PLATFORM - S	ENGINEERING	05/16/2025	
	More than a Project™		

3/4" DIA HEADED ANCHOR ROD (GALV) ASTM F1554 GR36 2'-0" EMBED
6 3S5
SHEET NO.
3S9
PAGE NO. 23

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VELLFIELD DEVELOPMENT	SHEET NO.
Y COMMISSIONERS OUNTY, OH	3S10
URAL SECTIONS AND DETAILS	PAGE NO. 24

WAYNE C. MOORE E-70068 CISTEBO OMAL 05/19/2025	
	,

WELL PW-2 VFD ENCLOSURE INTRUSION SWITCH (ZSC-0304) AND -----TEMPERATURE SWITCH (TSL-0305)

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WELL PW-2 MINI POWER

- WELL PW-2 FLOW METER (FE-0201)

PIT-0202

WELL PW-2 PRESSURE ELEMENT (PE-0202)

WELL PW-2 LEVEL ELEMENT (LE-0200)

LT-0200

WELL PLATFORM PW-2 - ELECTRICAL PLAN VIEW

SCALE: 1/4" = 1' - 0"

MIDDLETOWN JUNCTION WELLFIELD DEVELOPMENT

BOARD OF COUNTY COMMISSIONERS WARREN COUNTY, OH

WELL PLATFORM NO. 2 ELECTRICAL PLAN

KEYED NOTES:

- \bigcirc SUMP PUMP RECEPTACLE TO BE GFCI PROTECTED AT THE BREAKER. SUMP PUMP RECEPTACLE TO BE 120V, 20A, WEATHERPROOF AND PROVIDED WITH AN IN-USE COVER. SUMP PUMP RECEPTACLE TO BE MOUNTED WITHIN 18" OF TOP OF VAULT.
- 2 CONFIRM FINAL LOCATION AND ORIENTATION OF CAMERAS WITH OWNER.

GENERAL NOTES:

- ALL RECEPTACLES TO BE GFCI PROTECTED, WEATHERPROOF, AND PROVIDED WITH IN-USE COVERS. (SUMP PUMP GFCI PROTECTION PROVIDED AT THE BREAKER)
- SEE SHEET 5E4 FOR DETAILS ON MOUNTING ELECTRICAL 2. EQUIPMENT.
- METER VAULT AND ITS LOCATION NOT TO SCALE MOUNT ALUMINUM SIGN ON EACH VALVE VAULT STATING "DANGER - CONFINED SPACE. PERMIT REQUIRED, DO NOT ENTER."
- MOUNT ALUMINUM SIGN ON EACH VFD ENCLOSURE 5. STATING "DANGER HIGH VOLTAGE UNAUTHORIZED PERSONNEL KEEP OUT"

SHEET NO. **3E2** PAGE NO.

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NS CR D.T. IT	OSSING UNDER STORM DRAINS SHALL EM 310.02, BETWEEN MAINS AND DRAIN	. BE BACK-FIL NS.	LED WITH GRANUL	AR	
r Main . Be Pi	IS SHALL BE PRESSURE TESTED FOR 2 ER TABLE 6A OF AWWA C-600.	HOURS AT 2	00 PSI. ALLOWABLE	E	
JSED I HOULI	N RURAL WATER SERVICE AREAS, DET D BE PLACED 1' ABOVE WATER MAIN.	ECTABLE WA	TER TAPE, PRESCO	o l	
LATER	AL MUST BE A CONTINUOUS PIECE OF SHALL NOT BE ALLOWED. TYPE K COPP /LENE 200 PSI (COPPER TUBE SIZE) MA SE USED WITH POLY AND SDR 21.	PIPE FROM T PER SHALL BE NY BE USED F	HE CORP STOP TO USED FOR 3/4" AN OR 1 1/2" AND 2" SE	THE D 1" RVICES.	
1" ANE INT) (A ETER I) LARGER MUST BE EITHER TYPE K COI (STM-2241). TRACER WIRE MUST BE TA PIT INTO THE STRUCTURE BEING SERV	PPER, POLY 2 PED EVENLY 'ED (A 3' LEAD	00 PSI (ASTM D-27 EVERY 3' ON POLY IS REQUIRED INSI	37) OR AND SDR DE THE	
RVICE 200 P	LINES FROM THE CORP STOP TO THE I SI. POLY MUST HAVE A TRACER WIRE.	METER PIT M SEE W-10B.	JST BE TYPE K COI	PPER OR	
MUST 5.	BE PROVIDED AT THE ENTRANCE TO	ALL SUBDIVIS	IONS AND AT ALL S	STREET	
BACKF HE PRO /ICES	LOW PREVENTION ASSEMBLY SHALL B DPERTY OWNER PRIOR TO ANY POINT AND LOCATIONS ARE REQUIRED.	E INSTALLED OF CONNECT	ON ALL WATER SE ION OR USAGE. TH	ERVICE	
IAL DV RE. DL PE IRR ON AS ECTIO PRES S; A.S.S DENTI	VELLING UNITS (3 FAMILY OR LESS): LO IEL CHECK VALVE A.S.S.E. 1024. IGATION SYSTEMS: REDUCED PRESSU SEMBLY A.S.S.E. 1013. LOCATED IMMEL <u>ON SYSTEMS:</u> DOUBLE CHECK DETECT(SURE PRINCIPLE DETECTOR CHECK A.S S.E. 1048 LOCATED IN VAULT AND A.S.S AL SERVICES: REDUCED PRESSURE PR S.E. 1013, LOCATED IMMEDIATELY UPON	RE PRINCIPLI DIATELY UPO OR CHECK AS S.S.E. 1047 IF J.E. 1047 LOC/ RINCIPLE BAC N ENTRY OF S	DIATELY UPON ENT E BACKFLOW N ENTRY OF STRUG SEMBLY A.S.S.E. 1 SYSTEM CONTAIN ATED IN BUILDING. KFLOW PREVENTIG TRUCTURE.	rry of Cture. 048 or S DN	
VENTI BUT I	ON DEVICE THAT COMPLIES WITH A.S.S NOT IN THE METER PIT.	S.E. 1013 IS T	D BE INSTALLED AF	IEAD OF	
/ PRE\ ER IM GROI	VENTION DEVICES BEING INSTALLED OF MEDIATELY UPON ENTRY TO THE BUILT JND HEATED INCLOSURE (IN ACCORDA NIMUM OF 4 FEET AWAY FROM THE EXI	N EXISTING S DING, BEFORI NCE WITH DE ISTING METEI	ERVICES SHALL BE E ANY CONNECTIOI EVICE INSTALLATIO R PIT OR VAULT.	ns, or in N	
	WARREN COUNTY STANDARD DETA DEPARTMENT OF WATER & SEWE	AILS ER	standard num	1BER	
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DOUBLE GATE

- NOTES:
- 1. TERMINAL POSTS SHALL BE USED AT EACH FENCE CORNER OR END. GATE POSTS SHALL BE USED AT EACH GATE OPENING. LINE POSTS SHALL BE USED AT MAXIMUM 10' SPACING WHERE TERMINAL, GATE OR PULL POSTS ARE NOT REQUIRED.
- 2. PULL POSTS SHALL BE SPACED AT A MAXIMUM OF 500' ON LONG STRAIGHT RUNS ALONG CONSISTENT GRADES, AT EVERY HORIZONTAL BEND GREATER THAN 10° WHERE TERMINAL POSTS ARE NOT REQUIRED, AND AT EVERY MAJOR CHANGE OF GRADE. PULL POSTS SHALL NOT BE USED AS GATE OR TERMINAL POSTS.
- 4. PROVIDE 8" X 8" X 12" DEEP CONCRETE BLOCKING FOR GATE LATCH.

STATE OF OH
RYAN KENT BRAUEN E-79180 FS O/STEES ONAL ELIM

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	05/16/2025

EROSION CONT	ROL SCHEDULE	
CONSTRUCTION ACTIVITY	SCHEDULE CONSIDERATION	
PRECONSTRUCTION ACTIVITIES: POST THE FOLLOWING INFORMATION NEAR THE MAIN ENTRANCE OF THE PROJECT SITE OR AT A PUBLICLY ACCESSIBLE LOCATION: NOTICE OF INTENT (NOI) DOCUMENT, COPY OF THE PUBLIC NOTICE, NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT NUMBER, NAME, ADDRESS, AND PHONE NUMBER OF THE LOCAL CONTACT PERSON, AND LOCATION OF A COPY OF THE CONSTRUCTION DRAWINGS AND STORMWATER POLLUTION PREVENTION PLAN (SWP3).	AUTHORIZATION UNDER THE CGP IS EFFECTIVE 48-HOURS AFTER SUBMITTAL OF THE NOTICE OF INTENT TO OEPA AND LOCAL AUTHORITY BY THE OWNER.	
MAINTAIN DOCUMENTATION ON-SITE PER SPECIFICATION 02101 FOR THE PROJECT MANAGEMENT LOG. THE SWPPP SHOULD BE ONSITE AND SELF-MONITORING INSPECTION REPORTS MUST BE AVAILABLE WITHIN 48 HOURS OF REQUEST. INFORM OR TRAIN PERSONNEL ASSOCIATED WITH THE PROJECT OF THE TERMS AND CONDITIONS OF THE CGP AND THE SWPPP REQUIREMENTS.		
REVIEW THE EROSION CONTROL SCHEDULE ON THE DRAWINGS AND REVISE AS NEEDED TO PHASE CONSTRUCTION ACTIVITIES TO MINIMIZE THE FOOTPRINT OF DISTURBED UNSTABLE AREAS. SUBMIT A REVISED EROSION CONTROL SCHEDULE AS NEEDED FOR TEMPORARY AND PERMANENT EROSION CONTROL WORK AS APPLICABLE.	COMPLETE BEFORE CONSTRUCTION BEGINS.	
CONSTRUCTION ACCESS - ENTRANCE TO SITE, CONSTRUCTION ROUTES, AREAS DESIGNATED FOR EQUIPMENT PARKING OR MATERIAL STAGING AND WASTE HANDLING.	THIS IS THE FIRST LAND-DISTURBING ACTIVITY. AS SOON AS CONSTRUCTION BEGINS, STABILIZE ANY BARE AREAS WITH AGGREGATE AND TEMPORARY VEGETATION.	<u>NOT</u> 1.
SEDIMENT TRAPS AND BARRIERS - BASIN TRAPS, SILT FENCE AND PERIMETER PROTECTION.	AFTER CONSTRUCTION IS ACCESSED, BASINS SHALL BE INSTALLED, WITH THE ADDITION OF MORE TRAPS AND BARRIERS AS NEEDED DURING GRADING. SET UP PROTECTION FOR NATURAL FEATURES, TREES AND BUFFERS.	2.
RUNOFF CONTROL - DIVERSIONS, PERIMETER PROTECTION, CHECK DAMS, OUTLET PROTECTION.	RUNOFF CONTROL PRACTICES SHALL BE INSTALLED AFTER THE INSTALLATION OF SEDIMENT TRAPS AND BEFORE LAND GRADING. ADDITIONAL RUNOFF CONTROL MEASURES MAY BE INSTALLED DURING GRADING.	2. 3. 4. 5.
RUNOFF CONVEYANCE SYSTEM - STABILIZE STREAM BANKS, STORM DRAINS, CHANNELS, INLET AND OUTLET PROTECTION, SLOPE DRAINS.	AS NECESSARY, STABILIZE STREAM BANKS AND SIDE SLOPES OF RUNOFF SYSTEMS AS SOON AS POSSIBLE. USE EROSION CONTROL BLANKETS OR SLOPE DRAINS TO PREVENT EROSION. INSTALL INLET PROTECTION TO PREVENT SEDIMENTS FROM ENTERING STORM DRAINAGE SYSTEMS. PROTECT STORM OUTLETS TO PREVENT EROSION.	6. 7. 8. 9.
LAND CLEARING AND GRADING - SITE PREPARATION (CUTTING, FILLING, AND GRADING, SEDIMENT TRAPS, BARRIERS, DIVERSIONS, DRAINS, SURFACE ROUGHENING).	IMPLEMENT CLEARING AND GRADING AFTER INSTALLATION OF SEDIMENT TRAPS AND RUNOFF CONTROL MEASURES, AND INSTALL ADDITIONAL CONTROL MEASURES AS GRADING CONTINUES. CLEAR BORROW AND DISPOSAL AREAS AS NEEDED.	10. 11.
SURFACE STABILIZATION - TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, RIPRAP, EROSION CONTROL BLANKET.	APPLY TEMPORARY OR PERMANENT STABILIZING MEASURES IMMEDIATELY TO ANY DISTURBED AREAS WHERE WORK HAS BEEN EITHER COMPLETED OR DELAYED.	12. 13. 14
CONSTRUCTION - STRUCTURES, UTILITIES, PAVING, CONCRETE WASHOUT, AND CONSTRUCTION ENTRANCES.	DURING CONSTRUCTION, INSTALL ANY EROSION AND SEDIMENTATION CONTROL MEASURES THAT ARE NEEDED.	15. MAII
LANDSCAPING AND FINAL STABILIZATION - TOPSOILING, TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIPRAP.	THIS IS THE LAST CONSTRUCTION PHASE. STABILIZE ALL DISTURBED AREAS, INCLUDING BORROW AND SPOIL AREAS, AND REMOVE ALL TEMPORARY CONTROL MEASURES. FINAL STABILIZATION IS WHEN A UNIFORM DENSITY OF 70% VEGETATION COVER IS MET. PROVIDE NOTIFICATION TO THE OWNER WHEN THE ENTIRE SITE HAS BEEN STABILIZED AND ALL CONSTRUCTION MATERIALS, WASTES, AND EQUIPMENT HAVE BEEN REMOVED.	1. 2. 3. 4.

EROSION CONTROL SCHEDULE

SCALE: NONE

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TNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF WOVEN OR NON-WOVEN GEOTEXTILE FABRIC AND SHALL BE CERTIFIED BY THE ANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS:

FEXTILE STRENGTH AT 20% (MAXIMUM) ELONGATION, PER ASTM D4632. NOVEN EXTRA STRENGTH - 50 LB/LINEAR INCH (MINIMUM), NON-WOVEN EXTRA STRENGTH - 70 LB/INCH (MINIMUM).

NOVEN STANDARD STRENGTH - 30 LB/LINEAR INCH (MINIMUM), NON-WOVEN STANDARD STRENGTH - 50 LB/INCH (MINIMUM).

VPARENT OPENING SIZE (AOS) (U.S. SIEVE) - NO. 30 PARTICLE SIZE OF 0.6 mm (MAXIMUM), ASTM D4751.

PERMITTIVITY - 0.05 S⁻¹ (MAXIMUM), ASTM D4491. DSTS FOR SILT FENCES SHALL BE EITHER 2"X2" SQUARE WOOD OR EQUIVALENT METAL POSTS WITH A MINIMUM LENGTH OF 5'. METAL POSTS HALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.

NCHOR STAKES FOR SILT FENCES SHALL BE 1"x2" WOOD (PREFERRED) OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 18". IRE FENCE REINFORCEMENT FOR SILT FENCES USING STANDARD STRENGTH FILTER CLOTH SHALL BE A MINIMUM OF 42" IN HEIGHT, A MINIMUM OF GAUGE, AND SHALL HAVE A MAXIMUM MESH SPACING OF 6".

IE HEIGHT OF THE BARRIER SHALL BE A MINIMUM OF 18" AND A MAXIMUM OF 30".

IE FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE ECESSARY, FILTER FABRIC SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6" OVERLAP, AND SECURELY SEALED. DSTS SHALL BE SPACED A MAXIMUM OF 6' APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 18"). WHEN [ANDARD STRENGTH FABRIC IS USED WITH THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 8] IE SPACING OF TIEBACKS SHALL EQUAL THE SPACING OF THE POSTS. ADDITIONAL POST DEPTH OR TIEBACKS MAY BE REQUIRED IN UNSTABLE

TRENCH SHALL BE EXCAVATED APPROXIMATELY 4" WIDE AND A MINIMUM OF 8" DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE

HEN STANDARD STRENGTH FILTER FABRIC IS USED WITH A WIRE MESH SUPPORT FENCE IT SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE F THE POSTS USING HEAVY DUTY 1" WIRE STAPLES, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2" AND HALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND SURFACE.

HE STANDARD STRENGTH FILTER FABRIC, WITHOUT A WIRE MESH SUPPORT FENCE, SHALL BE STAPLED OR WIRED TO THE FENCE, AND A MINIMUM OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND JRFACE. DO NOT STAPLE FILTER FABRIC TO EXISTING TREES.

HEN EXTRA STRENGTH FILTER FABRIC OR BURLAP AND POST SPACING IS LESS THAN THE MAXIMUM SPECIFIED SPACING OF 6', THE WIRE MESH IPPORT FENCE MAY BE ELIMINATED.

ACKFILL THE TRENCH AND COMPACT THE SOIL OVER THE FILTER FABRIC. EMOVE SILT FENCES WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY FABILIZED.

LT FENCE SHALL NOT BE USED AS A DIVERSION AND SHALL NOT BE INSTALLED ACROSS A STREAM, CHANNEL, DITCH, SWALE, ETC.

ENANCE: SPECT AFTER EACH RAINFALL AND DAILY DURING PROLONGED RAINFALL. INSPECT AT LEAST ONCE EVERY 7 CALENDAR DAYS.

EPLACE OR REPAIR FABRIC IMMEDIATELY IF IT DECOMPOSES OR IS INEFFECTIVE.

DIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY HALF IE HEIGHT OF THE BARRIER. PREAD ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED AND DRESS TO CONFORM WITH THE NISHED GRADING.

SODDING MULCHING

E. = SOD

NOTES MAINTENANCE:

4

FLOW RATE PERMITTIVITY

MAINTENANCE

SOURCE: KRISTAR DANDY DEWATERING BAG SEDCATCH

MIDDLETOWN JUNCTION WELLFIELD DEVELOPMENT BOARD OF COUNTY COMMISSIONERS

WARREN COUNTY, OH

EROSION CONTROL DETAILS

WESSLER

ENGINEERING

More than a Project™

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)

=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)

F. = ANCHORED STRAW/HAY (2 TONS/ACRE) OR WOOD CELLULOSE FIBER (750 LB/ACRE) OR WOOD MULCH/CHIPS (10 TONS/ACRE)

IRRIGATION NEEDED DURING MAY THROUGH SEPTEMBER.

IRRIGATION NEEDED FOR 2 TO 4 WEEKS AFTER APPLYING SOD.

ANCHORED MULCH IS REQUIRED FOR PERMANENT, DORMANT AND TEMPORARY SEEDING. OPTIMUM SEEDING DATES PROVIDED. DATES MAY BE EXTENDED OR SHORTENED BASED ON PROJECT LOCATION.

SEED MIXTURES PROVIDED FOR LAWNS AND HIGH MAINTENANCE AREAS.

ADDITIONAL REQUIREMENTS AND INFORMATION ARE LOCATED IN THE OHIO DEPT. OF NATURAL RESOURCES RAINWATER AND LAND DEVELOPMENT MANUAL.

INSPECT WITHIN 24 HOURS OF EACH 0.5-INCH RAIN EVENT AND AT LEAST ONCE EVERY 7 CALENDAR DAYS. CHECK FOR EROSION AND MOVEMENT OF MULCH AND REPAIR IMMEDIATELY.

MONITOR FOR EROSION DAMAGE AND ADEQUATE COVER (70% DENSITY).

RESEED, FERTILIZE OR APPLY MULCH WHERE NECESSARY.

MECHANICAL PROPERTIES TEST METHOD UNITS INDUSTRY STANDARD ASTM D4632 kN (LB) GRAB TENSILE STRENGTH 0.9 (205) X 0.9 (205) GRAB TENSILE ELONGATION ASTM D4632 50 X 50 % PUNCTURE STRENGTH **ASTM D4833** kN (LB) 0.58 (130) kPa (PSI) 2618 (380) ASTM D3786 MULLEN BURST STRENGTH TRAPEZOID TEAR STRENGTH ASTM D4533 kN (LB) 0.36 (80) X 0.36 (80) UV RESISTANCE ASTM D4355 % 70 Mm (US STD SIEVE) 0.180 (80) APPARENT OPENING SIZE ASTM D4751 I/MIN/M² (GAL/MIN/FT²) 3866 (95) ASTM D4491

S⁻¹

1. DURING THE ACTIVE DEWATERING PROCESS, INSPECTION OF THE PUMPING BAG SHOULD BE REVIEWED FREQUENTLY. SPECIAL ATTENTION SHOULD BE PAID TO THE BUFFER AREA FOR ANY SIGN OF EROSION AND CONCENTRATION OF FLOW. OBSERVE WHERE POSSIBLE THE VISUAL QUALITY OF THE EFFLUENT AND DETERMINE IF ADDITIONAL TREATMENT CAN BE PROVIDED.

ASTM D4491

2. DISPOSE OF ACCUMULATED SEDIMENT REMOVED DURING PUMPING OPERATIONS IN CONFORMANCE WITH THE SPECIFICATIONS.

3. REPLACE THE BAG OR DISPOSE OF SILT WHEN HALF FULL OF SEDIMENT OR WHEN SEDIMENT HAS REDUCED THE FLOW RATE TO AN IMPRACTICAL RATE.

PUMPING BAG

1.2

- 2. FILTER WATER FROM BORE PIT DEWATERING, AND DO NOT DIRECTLY DISCHARGE TO ANY DITCH, STREAM, WETLAND OR STORM WATER CONVEYANCE. REFER TO PUMPING BAG DETAIL.
- 3. PLACE SOIL STOCKPILES WITHIN THE SILT FENCE BOUNDARY. 4. SOIL FROM STOCKPILES SHALL BE USED FOR BACKFILL OR DISPOSED OF PROPERLY.
- 5. RESEED AND MULCH ALL DISTURBED SOIL SURFACES.
- 6. ENVIRONMENTAL PROTECTION TO BE PROVIDED AS NECESSARY TO CONTAIN ANY DRILLING FLUID SPILLS.
- MAINTENANCE:

1. INSPECT SILT FENCE BARRIERS AFTER EACH RAINFALL, AND REPAIR OR REPLACE IMMEDIATELY. 2. REMOVE SEDIMENT DEPOSITS FROM THE SILT FENCE AFTER STORM EVENTS.

> HORIZONTAL DIRECTIONAL DRILLING SCALE: NONE

SCALE VERIFICATION	DRAWN BY	DMG	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON	CHECKED BY	VVS				
ORIGINAL DRAWING	APPROVED BY	RKB				
	ISSUE DATE					
	MAY 2025					
	PROJECT NUMBER					
	705524	4-04-001				

- SOIL, RESEED, RELAY AND STAPLE THE BLANKET.
- 3. CHECK AREAS PERIODICALLY AFTER VEGETATION ESTABLISHMENT.

EROSION CONTROL BLANKET SCALE: NONE

_	 •••	 		

WARREN COUNTY, OH

EROSION CONTROL DETAILS

<u>NOTES:</u> 1. LOCATE WASHOUTS AT LEAST 50' FROM ANY CREEKS, WETLANDS, DITCHES, KARST FEATURES, OR STORM DRAIN/CONVEYANCES.

- WASHOUT PROCEDURES: 1. DO NOT LEAVE EXCESS MUD IN THE CHUTES OR HOPPER AFTER POURING CONCRETE. MAKE EVERY EFFORT TO EMPTY THE CHUTE AND HOPPER AT THE POUR. THE LESS MATERIAL LEFT IN THE CHUTES AND HOPPER, THE QUICKER AND EASIER THE CLEANOUT. SMALL AMOUNTS OF EXCESS CONCRETE (NOT WASHOUT WATER) MAY BE DISPOSED OF IN AREAS THAT WILL NOT FLOW TO AN AREA THAT IS TO BE PROTECTED.
- 2. SCRAPE AS MUCH MATERIAL FROM THE CHUTES AS POSSIBLE BEFORE WASHING THEM. USE NON-WATER CLEANING METHODS TO MINIMIZE THE CHANCE FOR WASTE TO FLOW OFF SITE.
- 3. STOP WASHING OUT IN AN AREA IF YOU OBSERVE WATER RUNNING OFF THE DESIGNATED AREA OR IF
- THE WATER IS NOT BEING CONTAINED WITHIN THE WASHOUT AREA.
- 4. DO NOT BACK FLUSH EQUIPMENT AT THE PROJECT SITE.
- 5. DO NOT USE ADDITIVES WITH WASH WATER. 6. DO NOT WASH OUT OR DRAIN WASTE WATERS TO STORM DRAINS, WETLANDS, STREAMS, RIVERS,

CREEKS, DITCHES OR STREETS. MAINTENANCE:

1. MAINTENANCE REQUIREMENTS PROVIDED IN SPECIFICATIONS.

NOTES

- 1. PLACE CONSTRUCTION ENTRANCE AS SHOWN ON THE PLANS AND AT ALL TEMPORARY CONSTRUCTION DRIVES THAT ARE INSTALLED.
- 2. FOR LARGE SITES (2 ACRES OR LARGER) THE MINIMUM LENGTH IS 150'. FOR SMALLER
- SITES (LESS THAN 2 ACRES) THE MINIMUM LENGTH IS 50'.
- PROVIDE CULVERT OR OTHER METHODS AS NECESSARY TO MAINTAIN POSITIVE

DRAINAGE. MAINTENANCE:

- 1. INSPECT DAILY AND REPLACE DISPLACED STONE.
- IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED ONTO ADJACENT ROADWAY.
- RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL. AT COMPLETION OF PROJECT COMPLETELY REMOVE AND RESTORE SITE TO ORIGINAL CONDITIONS, OR AS APPLICABLE USE FOR BASE OF NEW PERMANENT DRIVE, MAINTAINING DESIGN ELEVATIONS AND SECTION.

CONSTRUCTION ENTRANCE

SCALE: NONE

SHEET NO.

PAGE NO.

31

4EC2

MIDDLETOWN JUNCTION WELLFIELD DEVELOPMENT BOARD OF COUNTY COMMISSIONERS

A <i>u</i>	<u>LIGHTING</u>					WIRI	NG	
A #	SURFACE/PENDANT M FIXTURE LETTER DEN	IOUNTED LIGHT OTES TYPE, # DENOTED				- COND	UIT HO	MERUN
	CIRCUIT, SHADING DE AND/OR NIGHT LIGHT	NOTES EMERGENCY				- CONE	UIT EXF	POSED
A #	SURFACE/PENDANT M					- COND		NCEALED
A	CIRCUIT, SHADING DE AND/OR NIGHT LIGHT	OTES TYPE, # DENOTES NOTES EMERGENCY		*		FLEXI	BLE CO	NDUIT
#	RECESS MOUNTED LIG DENOTES TYPE, # DEN SHADING DENOTES E	GHT FIXTURE LETTER NOTED CIRCUIT, MERGENCY AND/OR		H KS	A	<u>SCH</u>	EMAT	<u>ICS</u>
A #	RECESS MOUNTED LIG DENOTES TYPE, # DEI SHADING DENOTES E	GHT FIXTURE LETTER NOTES CIRCUIT, MERGENCY AND/OR			00	3-POS HAND	ITION S - OFF -	ELECTOR SWITCH AUTO
Å #	NIGHT LIGHT H.I.D. OR INCANDESCI MOUNTED LETTER DE	ENT FIXTURE CEILING ENOTES TYPE, #		STAF O	RT O	PUSH TEXT	BUTTON	N SWITCH N.O. ES LEGEND PLATE
	DENOTES CIRCUIT			sto o	P _ 9	PUSH DENO	BUTTON TES LE	N SWITCH N.C. TEXT GEND PLATE
	DENOTES TYPE, # DEN	NOTES CIRCUIT		E-STC)P	MUSH STOP	ROOM I PUSHB	HEAD EMERGENCY UTTON SWITCH N.C.
P	WALL MOUNTED PHO	TOCELL		و	ف	MAIN1 LEGEI	AINED	TEXT DENOTES FE
\bigotimes	CEILING MOUNTED EX	KIT SIGN		STO	P	PUSH LOCK	BUTTON -OUT TE	N SWITCH N.C. WITH EXT DENOTES
$\mathbf{\nabla}$	WALL MOUNTED EXIT	SIGN		L.O.		LEGEI	ND PLA	ΓE
₩#	DENOTES CIRCUIT	XIURE#		0	Q	DISCO	ONNECT	SWITCH N.O.
⊶	POLE MOUNTED FIXT	JRE		0	~	DISCO	ONNECT	SWITCH N.C.
	RECEPTACLE				/0	TEMP THER TAG N	ERATUF MOSTA ⁻ IUMBEF	RE SWITCH OR T N.O. TEXT DENOTES
# G -	DENOTES UNINTERRU # DENOTES CIRCUIT	IPTIBLE POWER SUPPLY			σ	TEMP THER TAG N	ERATUF MOSTA IUMBEF	RE SWITCH OR T N.C. TEXT DENOTES
0-	SINGLE OUTLET RECE	EPTACLE			° /		SURE S	WITCH N.O. TEXT
●	SPECIAL PURPOSE O			ے PS		DENO		
Ш Ф				°T	σ	PRES DENO	SURE S	WITCH N.C. TEXT G NUMBER
	240 VOLT RECEPTACL	E			0/	LEVEL TEXT	SWITC	H N.O. ES TAG NUMBER
Ē	PANELS AND B	OXES			σ	LEVEL		H N.C. TEXT
JB				O TR	_	DENO		
	PANEL			\sim	/0	DENO	TES TA	G NUMBER
	HVAC AND FIR			o TR →	σ	ON DE DENO	ELAY TII TES TA	MED SWITCH N.C.T.O. TEXT G NUMBER
	FIRE ALARM PULL STA	L PANEL			0	OFF D	ELAY T	IMED SWITCH N.O.T.O. TEXT
	ANNUNCIATOR			ł		DENO	TES TA	G NUMBER
	HORN/LIGHT DEVICE				σ	OFF D DENO	ELAY T	IMED SWITCH N.C.T.C. TEXT G NUMBER
DD	DUCT DETECTOR	IBSCRIPT		TS	-	TORQ	UE SWI	ТСН
Sz	DENOTES TYPE: Z DENOTES IONIZAT P DENOTES PHOTO			LS	0	TEXT LIMIT	DENOTI SWITCH	ES TAG NUMBER
()	T DENOTES THERM	AL		#	0	TEXT	DENOT	ES TAG NUMBER
R	AMBIENT TEMPERATU	IRE TRANSMITTER				CONT DENO	ACT (NO TES CO	DRMALLY OPEN) # IL NUMBER
	UNIT HEATER			↓ [#]	1	CONT DENO	ACT (NO TES CO	DRMALLY CLOSED) # IL NUMBER
₽,	WALL MOUNTED GAS	DETECTION FIXTURE		R	{		ATOR L	IGHT - LETTER
	WALL SWITCH	TYPE.			``````````````````````````````````````	PUSH	-TO-TES	T INDICATOR LIGHT
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\boxtimes	MOTOR STARTER				יי	ELAPS	SED HIV	IE METER
-	COMBINATION MOTOR	R STARTER		SV		SOLE	NOID VA	ALVE
4	DISCONNECT SWITCH	I				MECH	IANICAL	INTERLOCK CONNECTION
42	FUSED DISCONNECT	SWITCH				COIL		
LS	DOOR LIMIT SWITCH			M		M [CR		ES MOTOR STARTER
•	LOCAL CONTROL STA	TION)			ES TIME DELAY RELAY ES LIGHTING CONTACTOR ES INTERPOSING PILOT RELAY
<u> </u>	SPEED SWITCH					XXX	DENOT	ES REFERENCE LINE NUMBER
		SCALE VERIFICATION	DRAWN BY	JLK	NO.	DATE	INITIALS	REVISION
			CHECKED BY	JLK				
			APPROVED BY	WCM	$\left \right $			
			ISSU	E DATE	-			
			MAY	⁄ 2025	\square		 	

PROJECT NUMBER

705524-04-00

MIDDLETOWN JUNCTION WELLFIELD DEVELOPMENT SHEET NO. BOARD OF COUNTY COMMISSIONERS **5E1** WARREN COUNTY, OH PAGE NO. ELECTRICAL LEGEND 32

5/0NAL 05/19/2025

ENGINEERING

More than a Project™

	ABBREVI	ATIONS	
А	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	ΜН	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
ATI	ACROSS THE LINE (STARTER)	NEC	NATIONAL ELECTRICAL CODE
ATS	AUTOMATIC TRANSFER SWITCH	NET	NETWORK (PANEL)
AUX	AUXILIARY	NF	NON-FUSED
AWG	AMERICAN WIRE GAUGE	NFSS	NON-FUSED SAFETY SWITCH
BKR	BREAKER	N.O.	
BLDG	BUILDING	NTS	NOT TO SCALE
C	CONDUIT	OL	
CB		PB	
CKT	CIRCUIT	PLC	
	CONTROL PANEL	PM	
	CORROSION RESISTANT	PNI	
	COPPER	PP	
		RCPT	
		RGS	
		RIO	
		R/S	
		RVSS	
		RVAT	
		SE	REDUCED VOLTAGE AUTOTRANSFORMER
		SHI D	
		SOL	
		SOL	
		SPN	
	FUSED OR FUSE	SED	
		SST STD	STAINLESS STEEL
		SIK	STARTER
		SW	SWITCH
		SWDD	SWITCHBOARD
	FULL VOLTAGE (NON) REVERSING	SWGR	SWITCHGEAR
G	GROUND		
GEN	GENERATOR		TWISTED PAIR SHIELDED
GF	GROUND FAULT		TYPICAL
GF(C)I	GROUND FAULT (CIRCUIT) INTERRUPTER	UGE	UNDERGROUND ELECTRICAL
НН	HANDHOLE	UGI	UNDERGROUND TELEPHONE
HUA	HAND-OFF-AUTOMATIC	UGCC	UNDERGROUND CONTROLS CABLE
HOR	HAND-OFF-REMOTE	UGF	UNDERGROUND FIBER
HP	HORSEPOWER	UH	UNIT HEATER
HPS	HIGH PRESSURE SODIUM	UL	UNDERWRITERS LABORATORIES
JB	JUNCTION BOX	UNO	UNLESS NOTED OTHERWISE
KV	KILOVOLTS	V	VOLTS
KVA	KILOVOLTS AMPS	VFD	VARIABLE FREQUENCY DRIVE
KVAR	KILOVAR	VM	VOLTMETER
KW	KILOWATTS	VS	VOLTMETER SWITCH
LCP	LOCAL CONTROL PANEL	VV	WIRE/WATT
LCS	LOCAL CONTROL STATION	WH	WATER HEATER
LE	LEVEL SENSOR	WP	WEATHERPROOF
LIT	LEVEL INDICATING TRANSMITTER	XFMR	TRANSFORMER
LOR	LOCAL-OFF-REMOTE		
LP	LIGHTING PANEL		
LTG	LIGHTING		
LV	LOW VOLTAGE		
LTG LV	LIGHTING LOW VOLTAGE		

PANEL SCHEDULE			MPZ-W1 AJ WELL (NO. 120/240 V 1 PHASE. 3				BUS SIZE ENCLOSURI ALL BREAK	E ERS:		30 AMP PRIMARY 60 AMP SE 60 AMP NEMA 3R STAINLESS STEEL 10000 A.I.C. (MINIMUM)		
LOAD			CKT.	BKR.	KR. KVA			BKR.	10/4		L	
NO. DESCRIPTION	DESCRIPTION #	KVA	AMPS	POLE	A	В	AMPS	POLE	KVA	#	# DES	
SCADA PANEL	11	2.00	20	1	3.50		20	1	1.50	11		
RECEPTACLES	11	1.50	20	1		1.50	20	1		11	INSTRUMENT I	
SUMP PUMP RECEPTACLE 7	11	1.00	20	1	1.00		20	1				
SPARE			20	1		0.00	20	1				
SPARE			20	1	0.00		20	1				
SPARE			20	1		0.00	20	1				
SPARE			20	1	0.00		30	2		13		
SPARE			20	1		0.00						
TOTAL CONNECTED LOAD:					4.50	1.50	TOTAL =		6.00	KVA		
	SCHEDULE LOAD DESCRIPTION CADA PANEL IECEPTACLES UMP PUMP RECEPTACLE PARE PARE PARE PARE PARE PARE	SCHEDULE VOLTAGE: PHASE: LOAD # DESCRIPTION # iCADA PANEL 11 IECEPTACLES 11 IUMP PUMP RECEPTACLE 7 IPARE 11 IPARE 11	SCHEDULE VOLTAGE: PHASE: LOAD # DESCRIPTION # ICADA PANEL 11 ICADA PANEL 7 ICADA PANEL 11 ICADA PANEL 7 ICADA PANEL 7 ICADA PANEL 7 ICADA PANEL 1 ICADA PANEL 1 ICADA PANEL 7 ICADA PANEL 7	SCHEDULE voltage: phase: LOAD # KVA OKT. DESCRIPTION # KVA AMPS iCADA PANEL 11 2.00 20 iCADA PANEL 11 1.50 20 iECEPTACLES 11 1.50 20 iUMP PUMP RECEPTACLE 7 11 1.00 20 iPARE 20 20 20 20	SCHEDULE VOLTAGE: 120/240 V A PHASE: 1 PHASE.3 LOAD # KVA OKT. BKR. DESCRIPTION # KVA OKT. BKR. ICADA PANEL 11 2.00 20 1 ICADA PANEL 11 2.00 20 1 IECEPTACLES 11 1.50 20 1 IMP PUMP RECEPTACLE 7 11 1.00 20 1 IPARE 20 1 1 20 1 1 IPARE 20 1 20 1	SCHEDULE VOLTAGE: 120/240 V AC PHASE: 1 PHASE.3 WIRE LOAD # KVA CKT. BKR. K DESCRIPTION # KVA AMPS POLE A ICADA PANEL 11 2.00 20 1 3.50 IECEPTACLES 11 1.50 20 1 3.50 IUMP PUMP RECEPTACLE 7 11 1.00 20 1 1.00 IPARE 20 1 1.00 20 1 0.00 IPARE 20 1 0.00 20	SCHEDULE VOLTAGE: 120/240 V AC PHASE: 1 PHASE. 3 WIRE LOAD # KVA CKT. BKR. KVA DESCRIPTION # KVA AMPS POLE A B ICADA PANEL 11 2.00 20 1 3.50 IECEPTACLES 11 1.50 20 1 1.50 IMP PUMP RECEPTACLE 7 11 1.00 20 1 1.00 IECEPTACLES 11 1.00 20 1 0.00 IPARE 20 1 0.00 20 1 0.00 IECEPTACLE 0.00 IECEPTACLE 20 1 0.00 IECEPTACLE 0.00 IECEPTACLE 20 1 0.00 IECEPTACLE 1.00 IECEPTACLE 20 1 0.00 IECEPTACLE IECEPTACLE 20 1 0.00 IECEPTACLE IECEPTACLE IECEPTACLE IECEPTACLE IECEPTACLE IECEPTACLE IECEPTACLE IECEPTACLE IECEPTACLE IECEPTACLE	SCHEDULE VOLTAGE: 120/240 V AC ENCLOSURE PHASE: 1 PHASE. 3 WIRE ALL BREAKING LOAD # KVA CKT. BKR. KVA CKT. DESCRIPTION # KVA CKT. BKR. KVA CKT. GADA PANEL 11 2.00 20 1 3.50 20 IECEPTACLES 11 1.50 20 1 1.50 20 IMP PUMP RECEPTACLE 7 11 1.00 20 1 1.00 20 IPARE 20 1 0.00 20 1 0.00 20 IPARE 20 1 0.00 20 1 0.00 20 IPARE 20 1 0.00 20 1 0.00 20 IPARE 20 1 0.00 30 30 30 IPARE 20 1 0.00 30 30 30 30 IPARE 20	SCHEDULE VOLTAGE: 120/240 V AC ENCLOSURE PHASE: 1 PHASE. 3 WIRE ALL BREAKERS: LOAD # KVA CKT. BKR. KVA CKT. BKR. DESCRIPTION # KVA CKT. BKR. KVA CKT. BKR. ICADA PANEL 11 2.00 20 1 3.50 20 1 IECEPTACLES 11 1.50 20 1 3.50 20 1 IMP PUMP RECEPTACLE 11 1.00 20 1 1.50 20 1 IPARE 20 1 1.00 20 1 0.00 20 1 IPARE 20 1 0.00 20 1	SCHEDULE VOLTAGE: PHASE: 1 20/240 V AC ENCLOSURE LOAD DESCRIPTION # KVA CKT. BKR. ALL BREAKERS: LOAD DESCRIPTION # KVA CKT. BKR. KVA CKT. BKR. KVA icada Panel 11 2.00 20 1 3.50 20 1 1.50 icada Panel 11 2.00 20 1 3.50 20 1 1.50 icada Panel 11 1.50 20 1 1.50 20 1 1.50 icada Panel 11 1.50 20 1 1.50 20 1 1.50 icada Panel 11 1.00 20 1 0.00 20 1 1.50 icada Panel 1 1.00 20 1 1.60 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1.50 1 1	SCHEDULE VOLTAGE: 120/240 V AC ENCLOSURE NEMA 3R S PHASE: 1 PHASE. 3 WIRE ALL BREAKERS: 10000 ALC LOAD # KVA CKT. BKR. KVA CKT. BKR. KVA KVA # ICADA DESCRIPTION # KVA CKT. BKR. KVA CKT. BKR. KVA # # ICADA PANEL 11 2.00 20 1 3.50 20 1 1.50 11 IECEPTACLES 11 1.50 20 1 1.50 20 1 11 1.50 11 1.10 11 11 11 1.10 20 1 1.50 11 111 1.50 11 1.11 1.50 11 1.11 1.50 11 1.11 1.50 11 1.11 1.10 20 1 1.11 1.11 1.11 1.10 20 1 1.11 1.11 1.11 1.11 1.10 2.01 1 1.11 1	

WELL NO.1 AND NO.3 MINI POWER ZONE PANEL SCHEDULE

	SCALE VERIFICATION	DRAWN BY	JLK	NO.	DATE	INITIALS	REVISION
		CHECKED BY	JLK				
	ORIGINAL DRAWING						
		APPROVED BY	WCM				
		1000	JEDATE				
		MA`	Y 2025				
		PROJEC	CT NUMBER				
		705524-04-001					

PANEL LOCATION: SCHEDULE VOLTAGE: PHASE:			ON:		MPZ-W2 WELL NO.2 120/240 V A 1 PHASE. 3	.C WIRE		MAINS: BUS SIZE ENCLOSURI ALL BREAKE	E ERS:		30 AMP PRIMARY 60 AMP SECONDARY 60 AMP NEMA 3R STAINLESS STEEL 10000 A.I.C. (MINIMUM)			
CKT.	LOAD			OKT.	BKR.	K	VA	CKT.	BKR.			LOAD	OKT.	
NO.	DESCRIPTION	#	KVA	AMPS	POLE	A	В	AMPS	POLE	KVA	#	DESCRIPTION	NO.	
1	SCADA PANEL	11	2.00	20	1	3.50		20	1	1.50	11	LIGHTING	2	
3	RECEPTACLES	11	1.50	20	1		1.50	20	1		11	INSTRUMENT INDICATING PANEL	4	
5	MISC GENERATOR LOAD 1	11		20	1	1.00		20	1	1.00	11	7 SUMP PUMP RECEPTACLE	6	
7	MISC GENERATOR LOAD 2	11		20	1		0.00	20	1			SPARE	8	
9	MISC GENERATOR LOAD 3	12		20	2	0.00		20	1			SPARE	10	
11							0.00	20	1			SPARE	12	
13	SPARE			20	1	0.00		30	2		13	(1) SPD	14	
15	SPARE			20	1		0.00					0	16	
	TOTAL CONNECTED LOAD:					4.50	1.50	TOTAL =		6.00	KVA			
#	ONE (1) OR TWO (2) DIGIT NUM 12 1-pole 20A breakers, 1 2-	BERS REFER TO pole 20A break	CONDUIT &	wire sche e 30A break	DULE ON TH	IS SHEET.								

WELL NO.2 MINI POWER ZONE PANEL SCHEDULE

CONDUIT & WIRE SCHEDULE:

- SEE SHEET 2E1
- **X** (3"C, 3#4/0, #4/0N)
- 3 3X (3"C, 3#4/0, #4/0G)
- 4 1"C, 1/0G
- 5 3/4"C, 2#10, #10G
- 6 1.5"C, 2#6, #8G
- (7) 3"C, 3#250MCM, #4G
- 8 3"C, 3#250MCM VFD CABLE WITH SYMMETRICAL GROUND. GROUND WIRE BETWEEN MOTOR AND VFD SHOULD BE CONTINUOUS WITH NO SPLICES.
- 9 SUBMERSIBLE PUMP CABLE BY PUMP MANUFACTURER
- (10) 1"C, 3#6, #10G
- (11) 3/4"C, #12, #12N, #12G
- (12) 3/4"C, 2#12, #12G
- (13) 3/4"C, 2#10, #10G

KEYED NOTES:

SEE PANELBOARD SPECIFICATION FOR SPD INFORMATION (2)THREE (3) CIRCUITS ARE SHOWN BETWEEN MPZ-W2 AND EXISTING GENERATOR. MISCELLANEOUS GENERATOR LOADS VARY BY MODEL/MANUFACTURER. CONTRACTOR TO PROVIDE THESE CIRCUITS AND ANY OTHERS REQUIRED TO PROVIDE POWER FOR MISCELLANEOUS GENERATOR LOADS. BATTERY CHARGER, BLOCK HEATER ETC. 3 480V, 400A, 3PH, NEMA 4X S.S. DISCONNECT SWITCH, NON-FUSIBLE UNLESS FUSES REQUIRED BY VFD MANUFACTURER (4)ALLEN BRADLEY POWERFLEX TL XT 755 DRIVE WITH ACTIVE FRONT END. VFD TO BE HOUSED IN A NEMA 4X STAINLESS STEEL, AIR CONDITIONED AND HEATED ENCLOSURE 5 MANUFACTURER'S TERMINAL BOX. ALL JUNCTIONS MADE HERE SHALL BE WATERPROOF. 6 CONTRACTOR SHALL PROVIDE ATS WITH REMOTE START AND STOP CAPABILITY FOR THE GENERATOR. FOR ASCO SWITCH, INCLUDE FEATURE 17 TO ENABLE GENERATOR START VIA A CONTRACTOR PROVIDED NORMALLY OPEN DRY CONTACT WITHIN THE CONTROL PANEL. PROVIDE A SEPARATE DRY CONTACT RELAY WIRED TO THE GENERATOR'S EMERGENCY STOP (ESTOP) CIRCUIT TO ENABLE SCADA-BASED STOP CONTROL. SUMP PUMP RECEPTACLE TO BE GFCI PROTECTED AT $\overline{7}$ THE BREAKER. SUMP PUMP RECEPTACLE TO BE 120V, 20A, WEATHERPROOF AND PROVIDED WITH AN IN-USE

VELLFIELD DEVELOPMENT	SHEET NO.
Y COMMISSIONERS OUNTY, OH	5E2
NE DIAGRAM	PAGE NO. 33

COVER.

MIDDLETOWN JUNCTION		INTE OF ON THE	DN DESCRIPTIONS
BOARD OF COUN WARREN		WAYNE C. MOORE E-70068	
CONTROL ONE	WESSLER ENGINEERING	ONAL 05/19/2025	
	More trian a Project		

VELLFIELD DEVELOPMENT	SHEET NO.
Y COMMISSIONERS OUNTY, OH	5E3
LINE DIAGRAM	PAGE NO. 34

				— —							
SCALE \	/ERIFICATION	DRAWN BY	JLK	NO.	DATE	INITIALS	REVISION DESCRIPTIONS				
BAR IS ON	BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	JLK								
ORIGIN											
					APPROVE	APPROVED BY	VVCIVI				
					JE DATE						
			/ 2025 📃								
				PROJEC	CT NUMBER						
		705524	4-04-001								

WELLFIELD GROUND SYSTEM DIAGRAM SCALE: NONE

		77"
-		7 ₁₆
0	0	С
	0	С
0		

1.	<u>NOTES:</u> PROVIDE 1/4"DEEP ERICO EGB-A-14-4- INDICATED. PROVII EQUIPMENT BEING
2.	REFER TO EQUIPM
3.	ONE (1) GROUND E
4.	ALL WIRE TO GROU

MIDDLETOWN JUNCTION WELLFIELD DEVELOPMENT

BOARD OF COUNTY COMMISSIONERS WARREN COUNTY, OH

ELECTRICAL GROUNDING DETAILS

WAYNE C.
MOORE E-70068
ONAL 05/19/2025

YX 4" HIGH X 2'-0" LONG COPPER GROUND BUS BAR WITH INSULATED WALL BRACKET ASSEMBLY. -24-CC OR APPROVED EQUAL AS SPECIFIED. PRE DRILLED NEMA BOLT CONFIGURATION AS DE BRASS METAL NAME TAGS ON EACH GROUNDING CABLE INDICATING IDENTIFYING TAG OF GROUNDED. TERMINATE GROUNDING CABLE WITH NEMA TWO-HOLE BOLTED LUG.

MENT PLANS FOR GROUNDING CABLE SIZES, QUANTITIES AND EQUIPMENT DESCRIPTIONS.

BUS BAR FOR EACH WELL.

UND BUS BAR SHALL BE INSTALLED IN CONDUIT. NO COPPER SHALL BE EXPOSED.

GROUND BUS BAR DETAIL SCALE: NONE

WELLFIELD AREA PLAN SCALE: 1" = 500'

	SCALE VERIFICATION	DRAWN BY	DMG	NO.	DATE	INITIALS	REVISION																
		CHECKED BY	JLK																				
	ORIGINAL DRAWING				1																		
		APPROVED BY	WCM																				
			ISSU	JE DATE																			
																	F	MAY 2025					
			PROJEC																				
		70552	4-04-001																				
					1		1																

EXISTING POWER DISTRIBUTION BUILDING. EQUIPMENT LOCATIONS BASED ON HISTORIC DRAWINGS AND SHOULD BE CONFIRMED IN THE FIELD.

MIDDLETOWN JUNCTION W

BOARD OF COUNTY WARREN C

REVIS WELLFIE EXISTING POWER DISTRIBU

-	TE OF O	
in PROTECTION	WAYNE C. MOORE E-70068	HI-10/2025

ESCRIPTIONS	

GENERAL NOTES:

EXISTING 355KW DIESEL GENERATOR TO BE 1 RELOCATED FROM THE EXISTING REVIS WELL FIELD TO THE NEW MIDDLETOWN JUNCTION WELL FIELD.

REMOVE ALL WIRING TO THE GENERATOR

MOVING THE GENERATOR. CONDUITS TO THE

AND DISCONNECT CONDUITS BEFORE

KEYED NOTES ()

1.

GENERATOR CAN BE CAPPED AND LEFT IN PLACE BELOW THE PLATFORM. INSTALL 1/4" THICK GALVANIZED STEEL CHECKER PLATE TO COVER VOID IN GRATING LEFT BY REMOVED CONDUITS. PLATE SHALL EXTEND A MINIMUM OF 5" BEYOND EDGE OF OPENING ON ALL SIDES. FIELD WELD PLATE TO EXISTING PLATFORM. CLEAN WELDS AND APPLY COLD GALVANIZING SPRAY TO ALL BARE STEEL SURFACES EXPOSED FROM WELDING. 355KW DIESEL GENERATOR TO BE RELOCATED ATS EXISTING ATS TO BE REWIRED/REPROGRAMMED TO OPERATE SIMPLY AS A SERVICE DISCONNECT AND MAIN BREAKER. WITH NO BACKUP GENERATOR TO SWITCH TO, ATS HAS NO NEED TO DO ANY SWITCHING FROM UTILITY POWER EXISTING POWER DISTRIBUTION STRUCTURE LAYOUT SCALE: NO SCALE

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	PAGE NO.
TION STRUCTURE LAYOUT	37

VALVE SYMBOLS	<u>S</u>								
	ECCENTRIC PLU	G				MUD			
	THREE - WAY					BALL CHEC	СК		
	BUTTERFLY					SWING CH	ECK		
— X	BALL				— K —	SPLIT DISC	CHECK		
— X —	GLOBE					REGULATE PRESSURE	ED SIDE E CONTRO	Ľ	
一译	PRESSURE RELI	EF				PINCH			
<u> </u>	AIR RELEASE AN VACUUM RELIEF	ID			-5-	DIAPHRAG	М		
	GATE					NEEDLE			
$-\!\!\!\!\bigwedge^{\!$	KNIFE GATE					CALIBRATI	ED BALAN	CE	5
	CONSTANT VOL	JME OR				SOLENOID			
GATE SYMBOLS									
	SLUICE GATE	C		SLIDE GATE			FLAP G	ATE	
	WEIR GATE	Г		STOP GATE			WEIR A	ND STOP GATE	
									-
VALVE AND GAT ACTUATOR SYM	<u>E POWER</u> BOLS								
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FLOW ELEMENT	<u>S SYMBOLS</u>								
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\leq	PARSHALL ELLIN	IF	H∭H	MAGI	NETIC FLOWMET	ΓER			
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	ROTAMETER		H AV H	AREA FLO	A VELOCITY WMETER				
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PLC-W2

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WELLS

GENERATOR

(GEN-W2)

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PLC-W2

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— — — ATS-W2

AUTOMATIC

TRANSFER

SWITCH

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MIDDLETOWN JUNCTION		INTE OF OXIN	DESCRIPTIONS
BOARD OF COUNT		WAYNE C.	
WARREN (MOORE E-70068 近	
		THE CAST OF	
NETWORK	More than a Project	05/19/2025	
	Prore than a Project		

KEYED NOTES:

DESIGN OF THE FIBER FROM REVIS TO MIDDLETOWN FOPP IS PROVIDED IN THE YATES ENGINEERING DRAWINGS.

LINE TYPE DETAILS:

- ETHERNET

FIBER OPTIC PATCH CABLE

WARREN COUNTY REVIS STATION TO BIKE TRAIL FOR BIDDING AND CONSTRUCTION

PREPARED BY YATES ENGINEERING SERVICES LLC 2536 W. INDUSTRIAL PARK DR. SUITE #1 BLOOMINGTON, IN 47404 812-333-7335

EXISTING HH

MH MANHOLE

HYDRANT

WATER MARKER 0 CABLE MARKER

0

GAS MARKER

PROPOSED ROUTE MARKER

EXISTING ROUTE MARKER

CULVERT

PROPOSED AERIAL FIBER EXISTING AERIAL FIBER PROPOSED BORE 6

1	OVERVIEW
	Velas Engineering Services, LLC 2535 W Industrial Park Dr - Swit i Biopmongton, N: 47.024 (112)333-7335
	PROJECT: REVIS WELL FIELD DATE: 5/7/2020 DRAWN BY: CS STAKED BY: YES COUNTY: ON CITY: MARPEN
nTom DUCT STREET CENTERLINE	CONTY, UN CONTY, UN CONTY, UN CONSTRUCTION NOTES CONSTRUCTION NOTES The exact location of facility placement will be determined after all underground utilities have been located. The preferred route is as close to the Right-of-Way line as possible. Right-of-Way line hourd be determined by diff prior to construction areas will be restored to the inginal conductor or better. A fine construction areas will be restored to the inginal condition or better. An exhange an deviations in proposed work must be sporoved by the determined the eviations in proposed work must be sporoved by the designated Resident Engineer.
FENCE	SIL OVERVIEW

PROPOSED HH	SANITATION MARKER
	WATER MARKER
MH MANHOLE	CABLE MARKER
HYDRANT	O GAS MARKER
PROPOSED ROL EXISTING'ROUTI CULVERT	JTE MARKER E MARKER
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	PROPOSED AERIAL FIBER
(PROPOSED BORE
	DUCT
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	RIGHT OF WAY
-0	FENCE
YATES	Yates Engreening Services LLC 2538 Win4ustral Park Or Sule * Bioenington, nr. 47404 (#12)33-7355
PROJECT: REVIS WELL	FIELD DATE: 5/7/2025
PROJECT: REVIS WELL DRAWN BY: YES	FIELD DATE: 5/7/2025 STAKED BY: YES
PROJECT: REVIS WELL DRAWN BY: YES COUNTY: OH	FIELD DATE: 5/7/2025 STAKED BY: YES CITY: WARREN
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-00	DUCT STREET CENTERLINE RIGHT OF WAY FENCE
YATES	Yates Engineering Services LLC 2534 W Endacted Park Cr Suffi 1 Bloomington 14 47404 (6:22133.7356
PROJECT: REVIS WEI DRAWN BY: YES COUNTY: OH DRAFTER: CS TWP: RNG: SEC:	LL FIELD DATE: 5/7/2025 STAKED BY: YES CITY: WARREN SCALE: 1:50
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 All new handholes are required. Any changes or deviations a designated Resident Engine 	nired to be installed on a 6° base of pea gravel. In proposed work must be approved by the ser.
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	YATES	Yukos Englineering Services. LLC 2538 Windontital Park Or Suide 1 Biocrivington, IN 47404 (812)332-7335
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SEPARATION AIN FEREIS	YATES	Yates Engineering Services LLC 2530 Windushill Park Dr Birdet Bhanaragion, iki 47-004 (87)33-7335
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