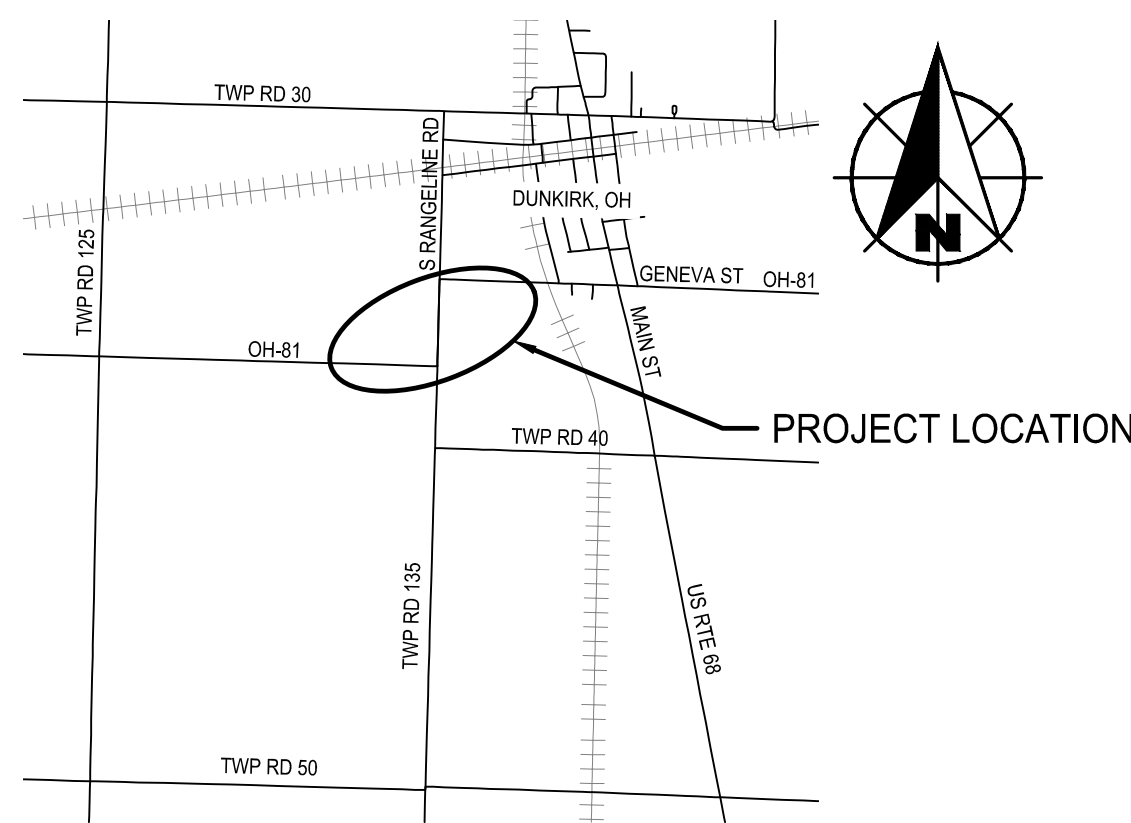


WASTEWATER GRINDER STATION AND LOW PRESSURE SEWER FOR THE HARDIN NORTHERN LOCAL SCHOOL DISTRICT DUNKIRK, OHIO



VILLAGE OF DUNKIRK, OHIO

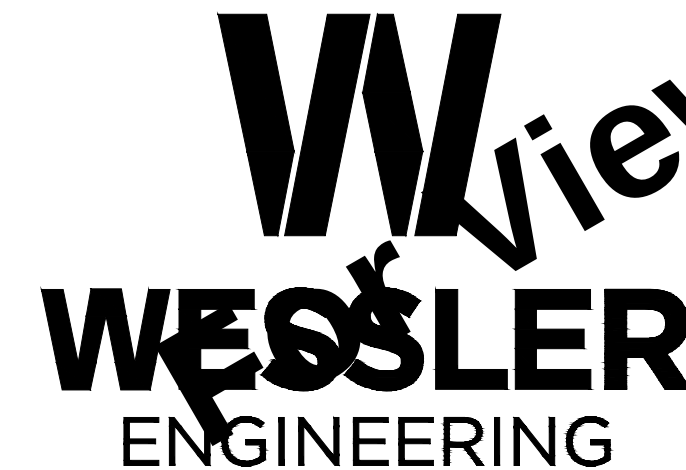
VICINITY MAP

SCALE: NONE



STATE LOCATION MAP

SCALE: NONE



More than a Project™

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

PROJECT NO. 708025-04-001

DRAWINGS PREPARED FOR:

SCHOOL BOARD

JERE SOUDER, PRESIDENT
ANGIE WHITAKER, VICE PRESIDENT
BROOKE MCBRIDE, TREASURER
BOB BAME, MEMBER
JOSH CRAMER, MEMBER

BRETT HALSEY, INTERIM SUPERINTENDENT
FORREST TRISLER, SUPERINTENDENT
BRENNON HATTERY, TREASURER
BRIAN WEBB, MAINTENANCE DIRECTOR

SEPTEMBER 2026

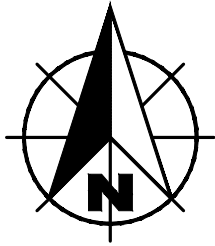
	WAYNE C. MOORE REGISTERED ENGINEER STATE OF OHIO NO. E-70068 COVERING ELECTRICAL DESIGN

Drawing: X:\Hardin N Local School District\708025\Hardin N LSO Lift Station\DWG\Sheets\708025-CS.dwg | Layout: 09/26/26 @ 03:13:37 | LastSavedBy: MichelleE



2019 OSIP III IMAGERY

LOCATION AND SCOPE OF WORK PLAN



HORIZONTAL AND VERTICAL
CONTROL INFORMATION

JOB NUMBER: HAR-WAS-2501
FIELD WORK BY: KME/EMK
R/W LINES BY: AJB / CJS2
PROJECT LOCATION: SECTIONS 13 & 18/TOWN 3 S/RANGE 11 E WASHINGTON TOWNSHIP/BLANCHARD TOWNSHIP VILLAGE OF DUNKIRK
HORIZONTAL POSITIONING CHOICE ONE HORIZONTAL CONTROL: LEVEL 2
REFERENCE FRAME: NAD83 (CORS 2011 ADJUSTED) ELLIPSOID: GRS80 MAP PROJECTION: LAMBERT CONFORMAL COORDINATE SYSTEM: OHIO STATE PLANNING NORTH POSITIONING METHOD: ODOT VRS
SCALE FACTOR: 1.0000000000000000 LATITUDE: N40°46'50.46755" LONGITUDE: W83°19'39.36353" ELEVATION: 956.89 SOURCE: NAD83
VERTICAL POSITIONING CHOICE ONE VERTICAL CONTROL: LEVEL 2
ORTHOMETRIC HEIGHT DATUM: NAVD88 GEOID: GEOID 12A

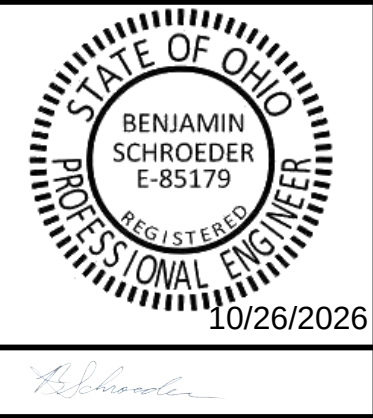
BENCHMARK #1 ELEV: 956.89 MAG NAIL IN POWER POLE SOUTHEAST OF THE TREATMENT PLANT AT THE SCHOOL.
BENCHMARK #2 ELEV: 957.70 MAG NAIL IN POWER POLE AT NORTHEAST CORNER OF ST. RT. 81 AND THE EAST ENTRANCE TO THE SCHOOL.
BENCHMARK #3 ELEV: 945.58 MAG NAIL IN POWER POLE AT EAST SIDE OF THE INTERSECTION OF ST. RT. 81 AND S. RANGELINE RD.
BENCHMARK #4 ELEV: 953.85 MAG NAIL IN TELEPHONE POLE AT 295 GENEVA ST. ALONG RANGELINE RD SIDE.
BENCHMARK #5 ELEV: 953.84 MAG NAIL IN POWER POLE AT 269 GENEVA ST. SOUTH OF THE EXISTING PUMP STATION.

CONTROL POINTS				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP 103	407584.63	1647599.61	956.0	MAG NAIL
CP 106	407525.10	1649471.05	944.1	MAG NAIL
CP 107	408820.16	1649552.19	954.5	MAG NAIL
CP 108	408824.34	1650073.15	955.0	MAG NAIL
CP 109	408055.18	1647625.33	956.1	CUT 'X'
CP 110	408583.65	1647732.53	955.6	CP MAG

DRAWING INDEX	
SHEET NO.	DESCRIPTION
GENERAL	
01	TITLE SHEET
02	LOCATION PLAN AND DRAWING INDEX
03	LEGEND, ABBREVIATIONS, UTILITY CONTACTS AND GENERAL NOTES
PLAN AND PROFILE SHEETS	
04	SITE DEMOLITION PLAN
05	SEWER IMPROVEMENTS PLAN
06	LOW PRESSURE SEWER PLAN AND PROFILE - LINE A
DETAILS AND TABLES	
12 - 13	MISCELLANEOUS DETAILS
14 - 15	EROSION CONTROL DETAILS
16	MAINTENANCE OF TRAFFIC DETAILS
ELECTRICAL	
17	ELECTRICAL LEGEND
18	ELECTRICAL SITE PLAN AND ONE LINE DIAGRAM
19	ELECTRICAL DETAILS

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

SCALE VERIFICATION BAR IS ONE INCH LONG ON ORIGINAL DRAWING 	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
	CHECKED BY	BJS				
	APPROVED BY	BJS				
	ISSUE DATE					
	SEPTEMBER 2026					
	PROJECT NUMBER					
	708025-04-001					



WASTEWATER GRINDER STATION AND LOW PRESSURE SEWER	SHEET NO. 02 TOTAL SHEETS 19
HARDIN NORTHERN LOCAL SCHOOL DISTRICT DUNKIRK, OHIO	
LOCATION PLAN AND DRAWING INDEX	

Drawing: X:\Hardin N Local School District\708025\Hardin N LSO Ltr Station\DWG\Sheet\708025-SS.dwg | Layout: 103 | Printed: 09/29/26 @ 03:13:46 | LastSavedBy: MichaelBE

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

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

TABLE OF ABBREVIATIONS			
ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	IPS	IRON PIPE SIZE
ALUM	ALUMINUM	OSPC	OHIO 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	MNFR	MANUFACTURER
CL	CENTER LINE	N	NORTHING, NORTH
CMA	COLD MIX ASPHALT	NGS	NATIONAL GEODETIC SURVEY
CMP	CORRUGATED METAL PIPE	NO.	NUMBER
CMU	CONCRETE MASONRY UNIT	OC	ON CENTER
CONC	CONCRETE	OD	OUTSIDE DIAMETER
CONT	CONTINUOUS	ODOT	OHIO DEPARTMENT OF TRANSPORTATION
CNR	CORNER	PC	POINT OF CURVE (BEGIN CURVE)
CP	CONTROL POINT	POLY	POLYETHYLENE
CPP	CORRUGATED PLASTIC PIPE	PI	POINT OF INTERSECTION
CR STN	CRUSHED STONE	POT	POINT ON TANGENT
CYD	CUBIC YARD	PT	POINT OF TANGENCY (END CURVE)
D	DEPTH	PSI	POUNDS PER SQUARE INCH
DI	DUCTILE IRON	PT	POINT
DI MJ	DUCTILE IRON MECHANICAL JOINT	PVC	POLYVINYL CHLORIDE
DBL	DOUBLE	R	RADIUS
DIA	DIAMETER	ROW	RIGHT-OF-WAY
DIP	DUCTILE IRON PIPE	RF	REINFORCED CONCRETE PIPE
DIPS	DUCTILE IRON PIPE SIZE	R	ROAD
DR	DRIVE	S	SOUTH
E	EASTING, EAST	SR	STATE ROUTE
EF	EACH FACE	SST	STAINLESS STEEL
EW	EACH WAY	SVA	SERVICE VALVE ASSEMBLY
EA	EACH	SB	SOIL BORING
EJ	EXISTING IRON WORKS	SCHED	SCHEDULE
EL	ELEVATION	SDR	STANDARD DIMENSION RATIO
EX	EXISTING	SECT	SECTION
EXP	EXPANSION	SF	SQUARE FEET
FF	FINISH FLOOR ELEVATION	SHT	SHEET
FM	FORCE MAIN	SPECS	SPECIFICATION(S)
FND	FOUND	SQ	SQUARE
FT	FEET	SRF	STATE REVOLVING FUND
FTG	FOOTING	ST	STREET
GALV	GALVANIZED	STA	STATION
GPS	GLOBAL POSITIONING SYSTEM	SYD	SQUARE YARD
HMA	HOT MIX ASPHALT	TBM	TEMPORARY BENCHMARK
HDPE	HIGH DENSITY POLYETHYLENE	TC	TOP OF CASTING
HORIZ	HORIZONTAL	TYP	TYPICAL
ID	INSIDE DIAMETER	UNO	UNLESS NOTED OTHERWISE
IE	INVERT ELEVATION	USGS	US GEOLOGICAL SURVEY
INC	INCORPORATED	VERT	VERTICAL
INDOT	INDIANA DEPARTMENT OF TRANSPORTATION	VLV	VALVE
INSTR	INSTRUMENT	W	WIDTH, WEST
INV	INVERT	WSE	WATER SURFACE ELEVATION
		YR	YEAR

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

UTILITY CONTACTS

MUNICIPAL WATER AND SEWER
VILLAGE OF DUNKIRK
201 N MAIN ST
DUNKIRK, OH 45836
419-759-2808
ATTN: TODD HACKWORTH,
SUPERINTENDENT

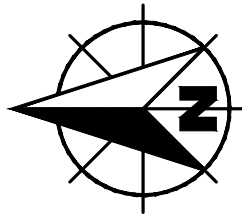
GAS
SHELDON GAS CO.
129 TOWNSHIP RD. 50
DUNKIRK, OH 45836
419-759-2351
ATTN: RICHARD WALDEN

ELECTRIC
AMERICAN ELECTRIC POWER
OHIO
300 SOUTH MAIN ST
KENTON, OH 43326
419-675-5629
ATTN: CHET RITTENHOUR

FIBER/TELEPHONE
BRIGHTSPEED
303-525-2994
XAN MARIE RYPKEMA, ANALYST FOR
ROAD MOVES

FIBER/TELEPHONE
CHARTER SPECTRUM
3760 INTERCHANGE ROAD
COLUMBUS, OHIO 43204
ATTN: LARRY BUSBY, CONSTRUCTION
COORDINATOR

<div></div>	SCALE VERIFICATION	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS		<div><div>W</div><div>WESSLER</div><div>ENGINEERING</div><div>More than a Project™</div></div>	WASTEWATER GRINDER STATION AND LOW PRESSURE SEWER				
	BAR IS ONE INCH LONG ON ORIGINAL DRAWING <div></div>	CHECKED BY	BJS								HARDIN NORTHERN LOCAL SCHOOL DISTRICT DUNKIRK, OHIO			
		APPROVED BY	BJS								LEGEND, ABBREVIATIONS, UTILITY CONTACTS AND GENERAL NOTES			
		ISSUE DATE												
		SEPTEMBER 2026												
		PROJECT NUMBER												
		708025-04-001												



GENERAL NOTES:

1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON PLAN SHEETS AND AS NECESSARY TO PROVIDE ADEQUATE CONTROL FOR THE CONSTRUCTION AREA. SEE SPECIFICATION 02101.
2. ABANDON PIPES BY FILLING WITH FLOWABLE CEMENT AND CAPPING.
3. DEMOLISH ENTIRE WASTEWATER TREATMENT FACILITY MINIMUM 4 FEET BELOW FINISHED GRADE INCLUDING STRUCTURES, PIPING, AND EQUIPMENT. EXISTING WASTEWATER TREATMENT FACILITY DRAWINGS INCLUDED IN PROJECT MANUAL.
4. EXISTING FENCE IS TO REMAIN. IF NECESSARY, PORTIONS OF THE FENCE CAN BE TAKEN DOWN FOR DEMOLITION OF THE WASTEWATER TREATMENT FACILITY BUT WILL NEED TO BE RESTORED AND/OR REPLACED PRIOR TO PROJECT COMPLETION. ALL NEW FENCE SHALL MATCH EXISTING.
5. THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER BEFORE CONNECTING THE SEWER TO THE GRINDER STATION. REMOVE THE TRASH TRAP TANK AS NEEDED TO INSTALL THE NEW GRAVITY SEWER LINE SERVING THE GRINDER STATION. PROVIDE BYPASS PUMPING FROM SANITARY MANHOLE #3 TO THE AERATION TANK, IF NECESSARY. AFTER THE GRINDER STATION IS OPERATIONAL, DEMOLISH THE REMAINING PACKAGE TREATMENT PLANT FACILITIES.

KEYED NOTES - ERC

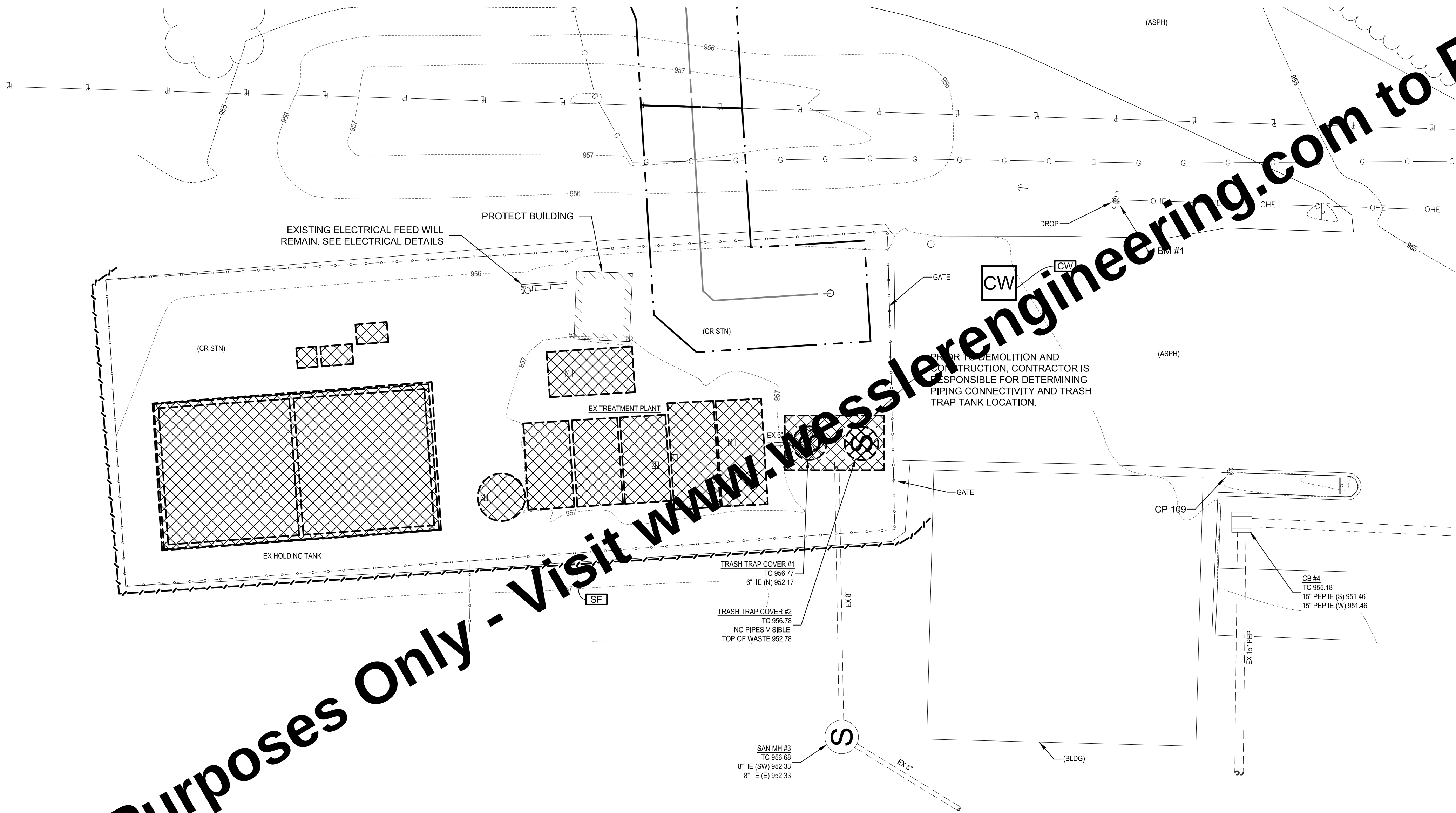
(SEE DETAILS AND SCHEDULES ON SHEETS 14-15)

CW CONCRETE WASHOUT

SF SILT FENCE OR FILTER TUBE

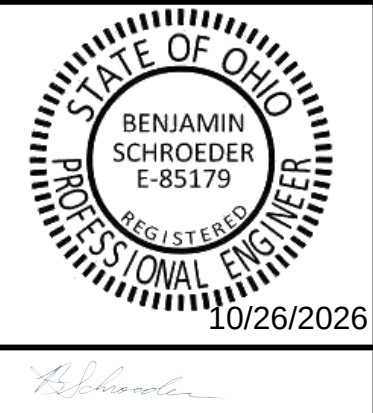
LEGEND

- EXISTING FEATURES TO REMAIN
- DEMOLISH EXISTING FEATURES



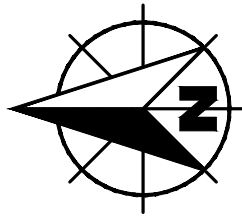
For Viewing Purposes Only - Visit www.wesslerengineering.com to Purchase

SCALE VERIFICATION BAR IS ONE INCH LONG ON ORIGINAL DRAWING 	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
	CHECKED BY	BJS				
	APPROVED BY	BJS				
	ISSUE DATE					
	SEPTEMBER 2026					
	PROJECT NUMBER					
	708025-04-001					



WASTEWATER GRINDER STATION AND LOW PRESSURE SEWER	
HARDIN NORTHERN LOCAL SCHOOL DISTRICT DUNKIRK, OHIO	
SITE DEMOLITION PLAN	

SHEET NO.
04
TOTAL SHEETS
19



GENERAL NOTES:

1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON PLAN SHEETS AND AS NECESSARY TO PROVIDE ADEQUATE CONTROL FOR THE CONSTRUCTION AREA. SEE SPECIFICATION 02101.
2. EXISTING FENCE IS TO REMAIN. IF NECESSARY, PORTIONS OF THE FENCE CAN BE TAKEN DOWN FOR DEMOLITION OF THE WASTEWATER TREATMENT FACILITY BUT WILL NEED TO BE RESTORED AND/OR REPLACED PRIOR TO PROJECT COMPLETION. ALL NEW FENCE SHALL MATCH EXISTING.
3. THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER BEFORE CONNECTING THE SEWER TO THE GRINDER STATION. REMOVE THE TRASH TRAP TANK AS NEEDED TO INSTALL THE NEW GRAVITY SEWER LINE SERVING THE GRINDER STATION. PROVIDE BYPASS PUMPING FROM SANITARY MANHOLE #3 TO THE AERATION TANK, IF NECESSARY. AFTER THE GRINDER STATION IS OPERATIONAL, DEMOLISH THE REMAINING PACKAGE TREATMENT PLANT FACILITIES.

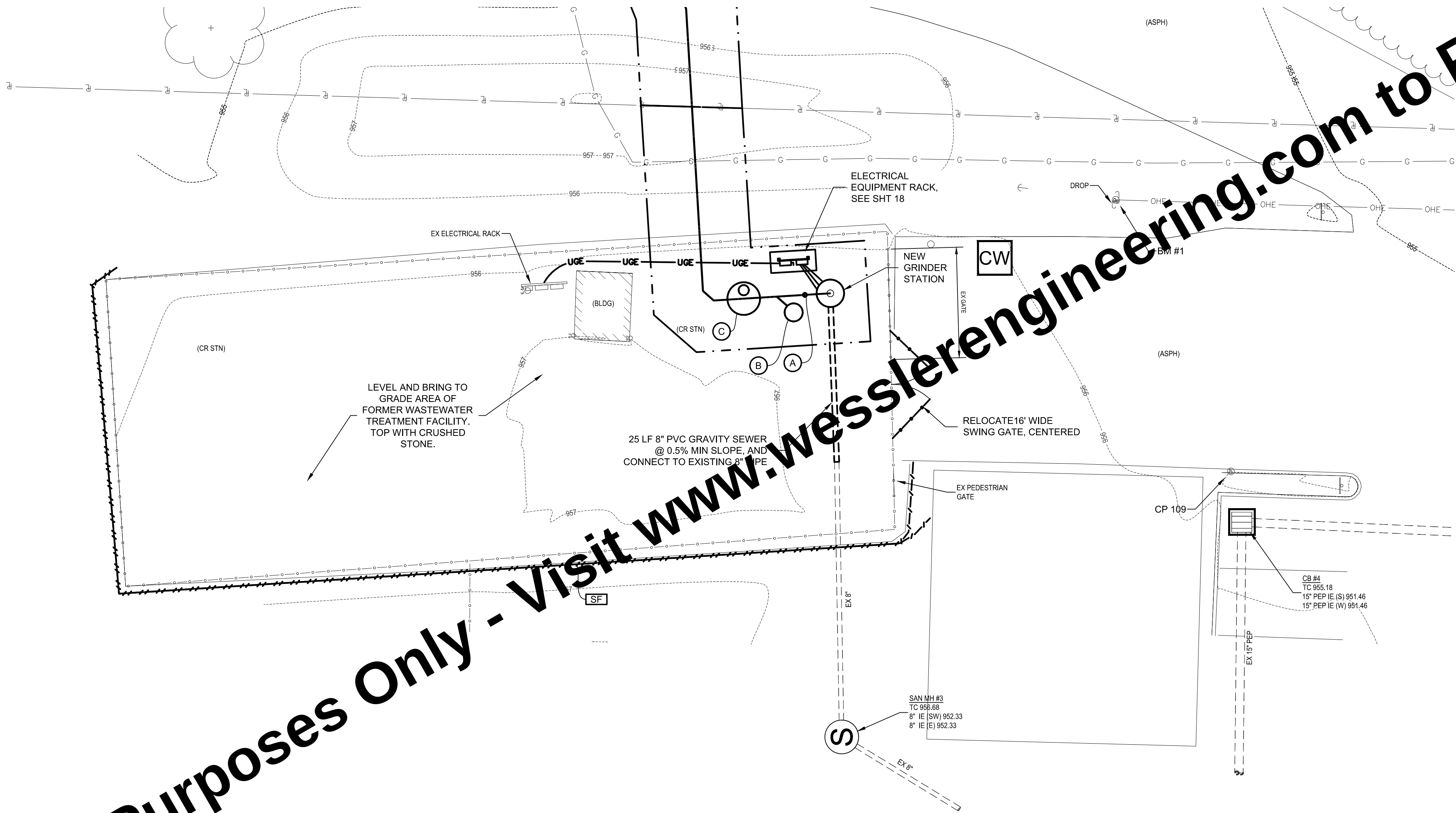
KEYED NOTES ○

- A STAINLESS STEEL LATERAL KIT, SEE DTL SHT 12
- B LPS IN-LINE FLUSHING CONNECTION, SEE DTL SHT 12
- C IN-LINE ARV, SEE DTL SHT 13
- D LPS IN-LINE ARV AND FLUSHING CONNECTION, SEE DTL SHT 13

KEYED NOTES - ERC □

(SEE DETAILS AND SCHEDULES ON SHEETS 14-15)

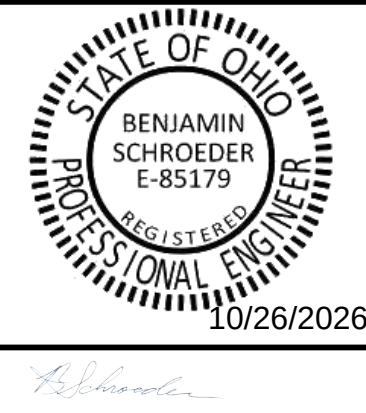
- CW CONCRETE WASHOUT
- SF SILT FENCE OR FILTER TUBE



THE E

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

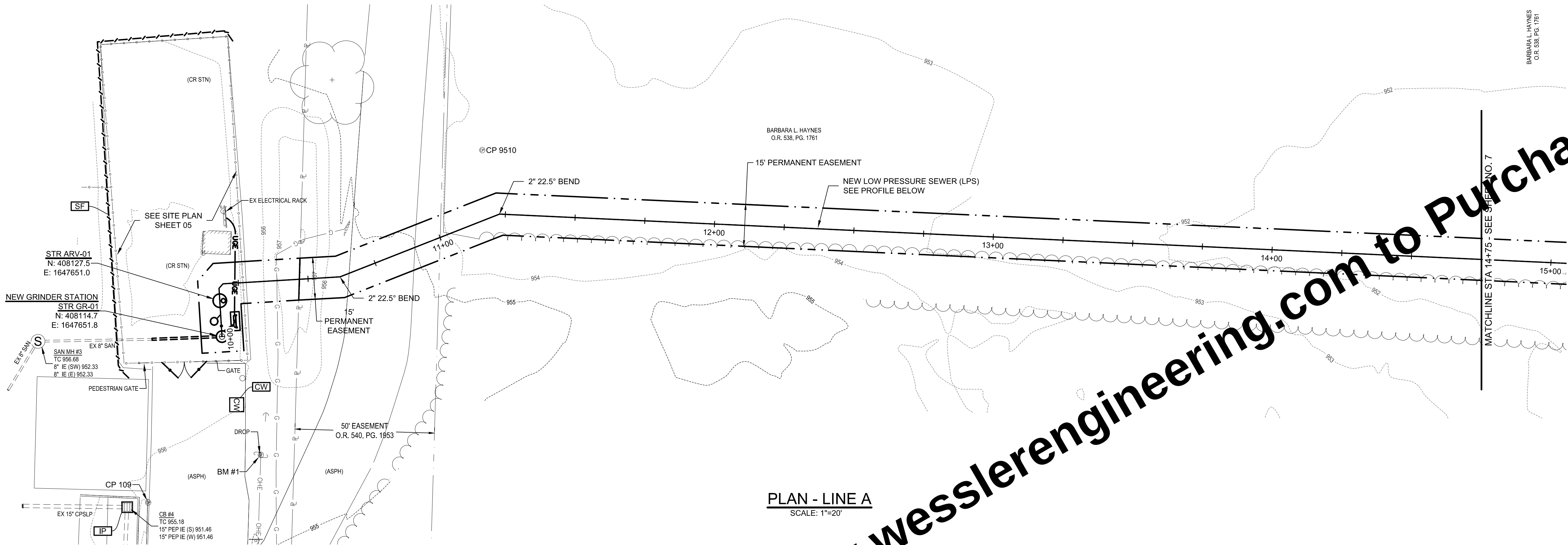
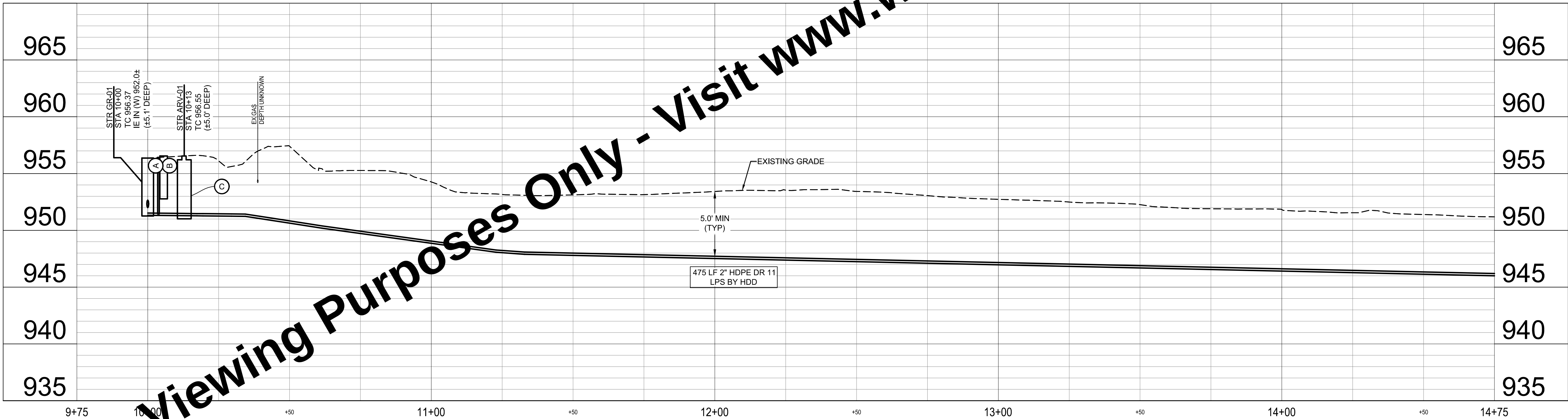
SCALE VERIFICATION	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
	CHECKED BY	BJS				
BAR IS ONE INCH LONG ON ORIGINAL DRAWING 	APPROVED BY	BJS				
	ISSUE DATE					
	SEPTEMBER 2026					
	PROJECT NUMBER					
	708025-04-001					



WASTEWATER GRINDER STATION AND LOW PRESSURE SEWER	
HARDIN NORTHERN LOCAL SCHOOL DISTRICT DUNKIRK, OHIO	
SITE IMPROVEMENTS PLAN	

SHEET NO.
05
TOTAL SHEETS
19

Drawing: X:\Hardin N Local School District\708025-Hardin N LSO Lift Station\DWG\Sheet\708025-PP.dwg | Plotter: 09/20/26 @ 03:20:55 | LastSavedBy: MichelleE



GENERAL NOTES:

1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON PLAN SHEETS AND AS NECESSARY TO PROVIDE ADEQUATE CONTROL FOR THE CONSTRUCTION AREA. SEE SPECIFICATION 02101.
2. CONTRACTOR TO REPAIR AND REINSTATE ANY DAMAGED FIELD TILE WITHIN 24 HOURS OF OCCURRENCE.
3. CONTRACTOR IS TO AVOID INTERMEDIATE HIGH POINTS IN LOW PRESSURE LINE DURING INSTALLATION. INTERMEDIATE HIGH POINTS THAT OCCUR IN THE FIELD AND NOT INDICATED ON THE DRAWINGS WILL REQUIRE INLINE AIR RELEASE VALVES INSTALLED AT THE CONTRACTOR'S EXPENSE.
4. ALL EXCAVATION AND BORE PITS MUST MEET THE MINIMUM EROSION AND SEDIMENT CONTROL REQUIREMENTS ILLUSTRATED IN THE DETAIL. REFER TO PLAN SHEET 15.
5. CONTRACTOR IS TO PROTECT ALL PAVEMENT FROM DAMAGE AND IS RESPONSIBLE FOR REPLACING ANY DAMAGED PAVEMENT TO ORIGINAL OR BETTER CONDITION.

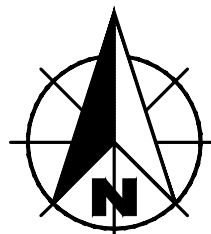
KEYED NOTES ○

- A STAINLESS STEEL LATERAL KIT, SEE DTL SHT 12
- B LPS IN-LINE FLUSHING CONNECTION, SEE DTL SHT 12
- C IN-LINE ARV, SEE DTL SHT 13
- D LPS IN-LINE ARV AND FLUSHING CONNECTION, SEE DTL SHT 13

KEYED NOTES - ERC □

(SEE DETAILS AND SCHEDULES ON SHEETS 14-15)

- CW CONCRETE WASHOUT 
- IP INLET PROTECTION 
- SF SILT FENCE OR FILTER TUBE 



0 10 20 40 FT
1" = 20'

BARBARA L. HAYNES
O.R. 538, PG. 1761

PLAN - LINE A

SCALE: 1"=20'

PROFILE - LINE A

HORIZ SCALE: 1" = 20'

VERT SCALE: 1" = 5'

SCALE VERIFICATION	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING 	CHECKED BY	BJS				
	APPROVED BY	BJS				
	ISSUE DATE					
	SEPTEMBER 2026					
	PROJECT NUMBER					
		708025-04-001				



WASTEWATER GRINDER STATION AND LOW PRESSURE SEWER
HARDIN NORTHERN LOCAL SCHOOL DISTRICT DUNKIRK, OHIO
LOW PRESSURE SEWER PLAN AND PROFILE - LINE A

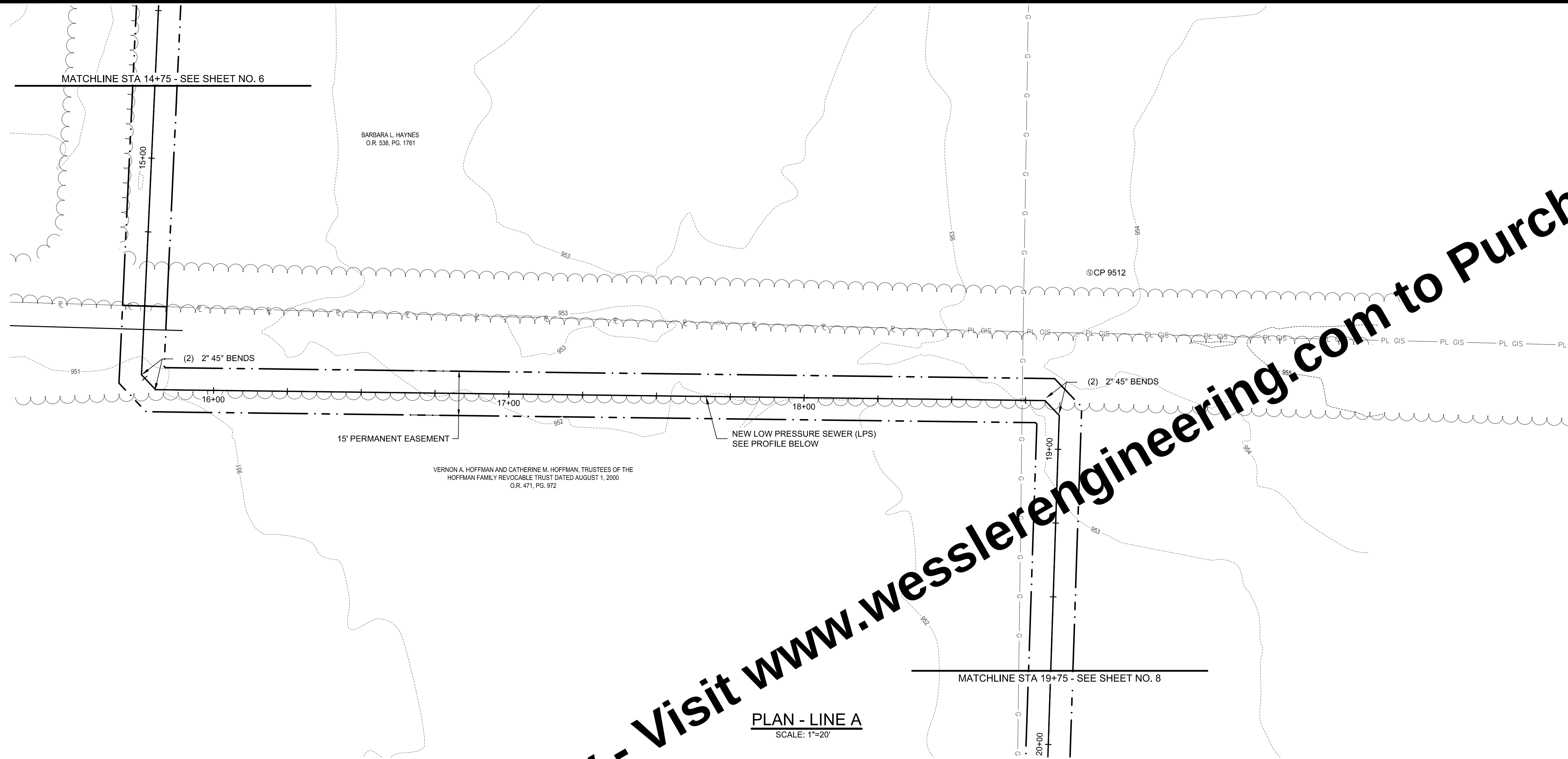
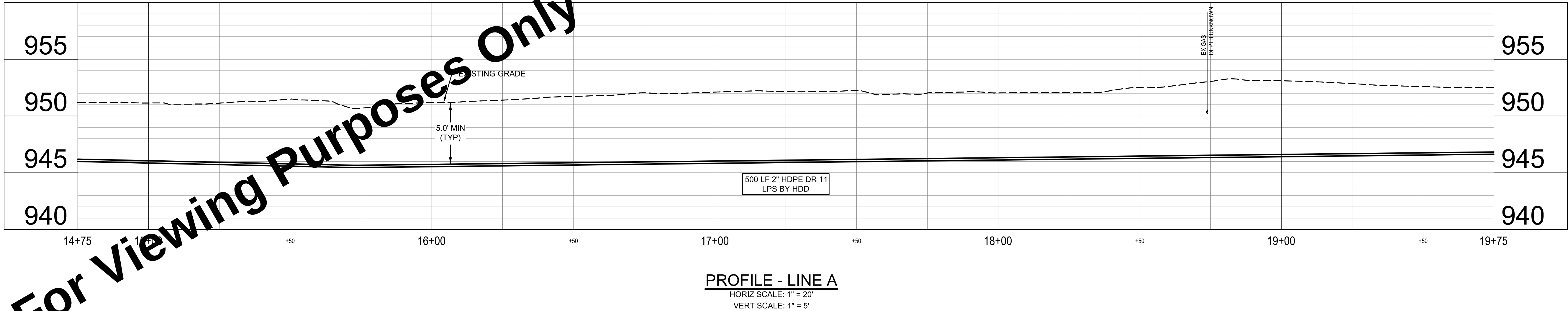
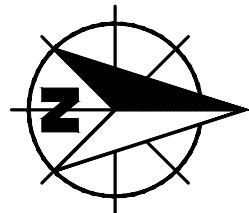
SHEET NO.

06

TOTAL SHEETS

19

Drawing: X:\Hardin N Local School District\708025-Hardin N LSO Lift Station\DWG\Sheets\708025-PP.dwg | Layout: PP2 | Plotter: 09/29/26 @ 03:21:08 | LastSavedBy: MichelleE



0 10 20 40 FT
1" = 20'

GENERAL NOTES:

1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON PLAN SHEETS AND AS NECESSARY TO PROVIDE ADEQUATE CONTROL FOR THE CONSTRUCTION AREA. SEE SPECIFICATION 02101.
2. CONTRACTOR TO REPAIR AND REINSTATE ANY DAMAGED FIELD TILE WITHIN 24 HOURS OF OCCURRENCE.
3. CONTRACTOR IS TO AVOID INTERMEDIATE HIGH POINTS IN LOW PRESSURE LINE DURING INSTALLATION. INTERMEDIATE HIGH POINTS THAT OCCUR IN THE FIELD AND NOT INDICATED ON THE DRAWINGS WILL REQUIRE INLINE AIR RELEASE VALVES INSTALLED AT THE CONTRACTOR'S EXPENSE.
4. ALL EXCAVATION AND BORE PITS MUST MEET THE MINIMUM EROSION AND SEDIMENT CONTROL REQUIREMENTS ILLUSTRATED IN THE DETAIL. REFER TO PLAN SHEET 15.
5. CONTRACTOR IS TO PROTECT ALL PAVEMENT FROM DAMAGE AND IS RESPONSIBLE FOR REPLACING ANY DAMAGED PAVEMENT TO ORIGINAL OR BETTER CONDITION.

KEYED NOTES ○

- A STAINLESS STEEL LATERAL KIT, SEE DTL SHT 12
- B LPS IN-LINE FLUSHING CONNECTION, SEE DTL SHT 12
- C IN-LINE ARV, SEE DTL SHT 13
- D LPS IN-LINE ARV AND FLUSHING CONNECTION, SEE DTL SHT 13

KEYED NOTES - ERC □

(SEE DETAILS AND SCHEDULES ON SHEETS 14-15)

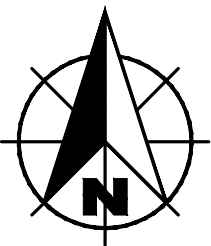
- CW CONCRETE WASHOUT ☒
- IP INLET PROTECTION ☐
- SF SILT FENCE OR FILTER TUBE ☒

SCALE VERIFICATION	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING 	CHECKED BY	BJS				
	APPROVED BY	BJS				
	ISSUE DATE					
	SEPTEMBER 2026					
	PROJECT NUMBER					
	708025-04-001					



WASTEWATER GRINDER STATION AND LOW PRESSURE SEWER
HARDIN NORTHERN LOCAL SCHOOL DISTRICT DUNKIRK, OHIO
LOW PRESSURE SEWER PLAN AND PROFILE - LINE A

SHEET NO.
07
TOTAL SHEETS
19



GENERAL NOTES:

1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON PLAN SHEETS AND AS NECESSARY TO PROVIDE ADEQUATE CONTROL FOR THE CONSTRUCTION AREA. SEE SPECIFICATION 02101.
2. CONTRACTOR TO REPAIR AND REINSTATE ANY DAMAGED FIELD TILE WITHIN 24 HOURS OF OCCURRENCE.
3. CONTRACTOR IS TO AVOID INTERMEDIATE HIGH POINTS IN LOW PRESSURE LINE DURING INSTALLATION. INTERMEDIATE HIGH POINTS THAT OCCUR IN THE FIELD AND NOT INDICATED ON THE DRAWINGS WILL REQUIRE INLINE AIR RELEASE VALVES INSTALLED AT THE CONTRACTOR'S EXPENSE.
4. ALL EXCAVATION AND BORE PITS MUST MEET THE MINIMUM EROSION AND SEDIMENT CONTROL REQUIREMENTS ILLUSTRATED IN THE DETAIL. REFER TO PLAN SHEET 15.
5. CONTRACTOR IS TO PROTECT ALL PAVEMENT FROM DAMAGE AND IS RESPONSIBLE FOR REPLACING ANY DAMAGED PAVEMENT TO ORIGINAL OR BETTER CONDITION.

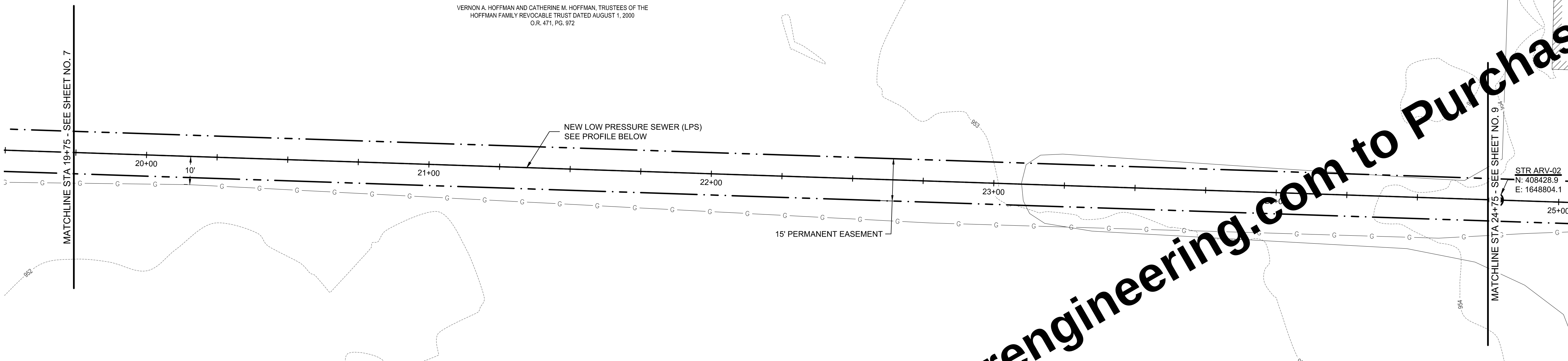
KEYED NOTES ○

- A STAINLESS STEEL LATERAL KIT, SEE DTL SHT 12
- B LPS IN-LINE FLUSHING CONNECTION, SEE DTL SHT 12
- C IN-LINE ARV, SEE DTL SHT 13
- D LPS IN-LINE ARV AND FLUSHING CONNECTION, SEE DTL SHT 13

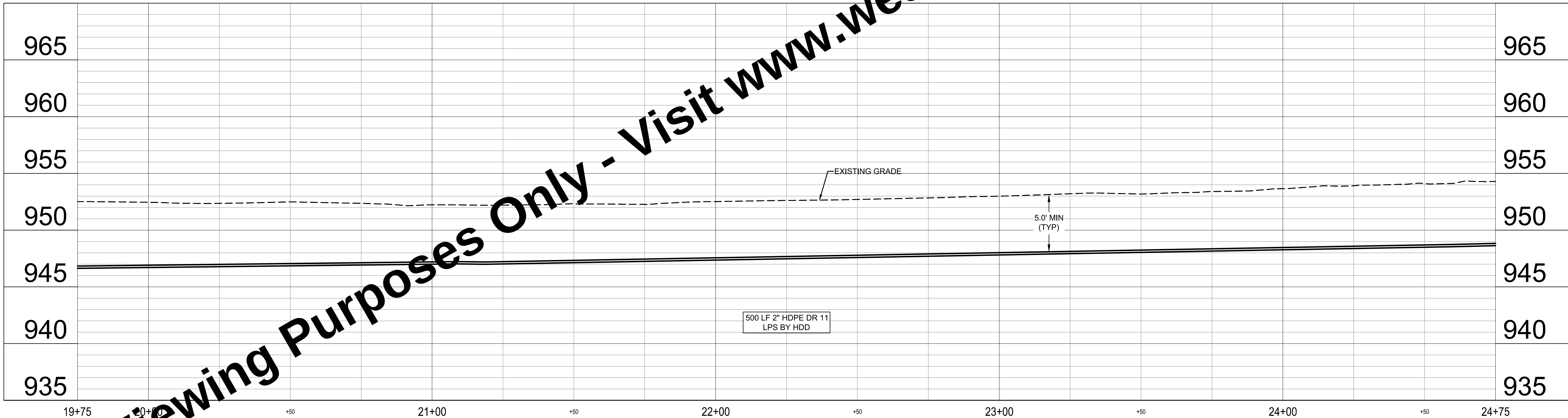
KEYED NOTES - ERC ☐

(SEE DETAILS AND SCHEDULES ON SHEETS 14-15)

- CW CONCRETE WASHOUT ☒
- IP INLET PROTECTION ☐
- SF SILT FENCE OR FILTER TUBE ☒



PLAN - LINE A
SCALE: 1"=20'



PROFILE - LINE A
HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 5'

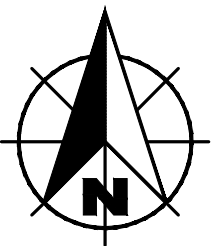
Drawing: X:\Hardin N Local School District\708025-Hardin N LSO Lift Station\DWG\Sheets\708025-PP.dwg | Plotter: PP3 | Plotter: 09/29/2025 @ 03:21:15 | LastSavedBy: MichelleE

SCALE VERIFICATION BAR IS ONE INCH LONG ON ORIGINAL DRAWING 	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
	CHECKED BY	BJS				
	APPROVED BY	BJS				
	ISSUE DATE					
	SEPTEMBER 2026					
	PROJECT NUMBER					
	708025-04-001					



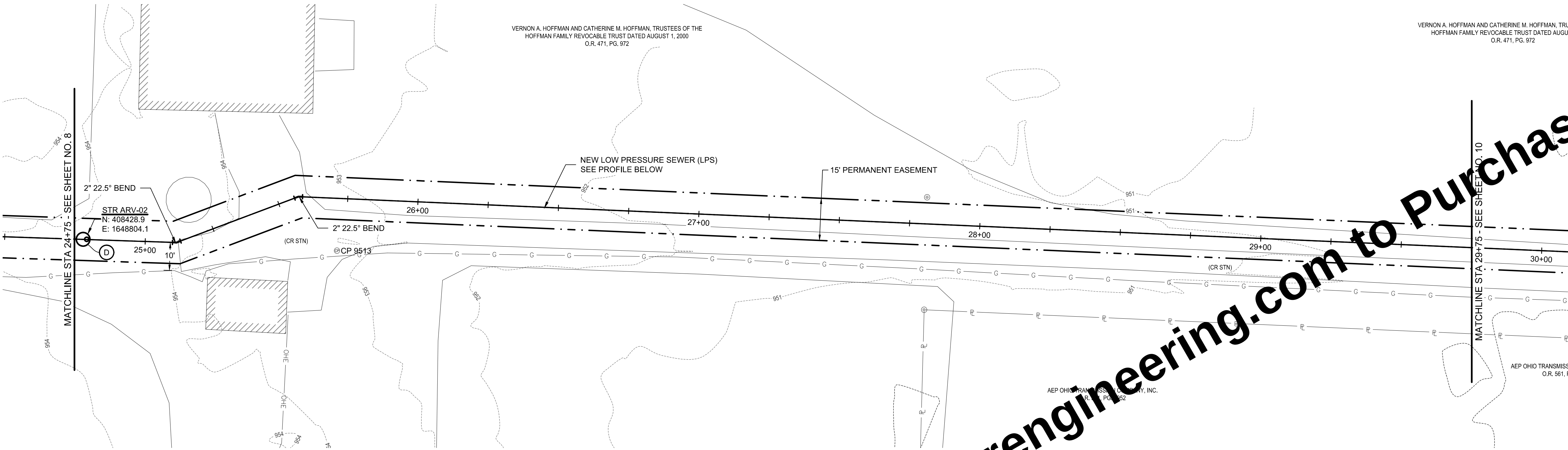
WASTEWATER GRINDER STATION AND LOW PRESSURE SEWER	
HARDIN NORTHERN LOCAL SCHOOL DISTRICT DUNKIRK, OHIO	
LOW PRESSURE SEWER PLAN AND PROFILE - LINE A	

SHEET NO.
08
TOTAL SHEETS
19



VERNON A. HOFFMAN AND CATHERINE M. HOFFMAN, TRS.
HOFFMAN FAMILY REVOCABLE TRUST DATED AUGU
O.R. 471, PG. 972

VERNON A. HOFFMAN AND CATHERINE M. HOFFMAN, TRUSTEES OF THE
HOFFMAN FAMILY REVOCABLE TRUST DATED AUGUST 1, 2000
O.R. 471, PG. 972



PLAN - LINE A
SCALE: 1"=20'

GENERAL NOTES:

1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON PLAN SHEETS AND AS NECESSARY TO PROVIDE ADEQUATE CONTROL FOR THE CONSTRUCTION AREA. SEE SPECIFICATION 02101.
2. CONTRACTOR TO REPAIR AND REINSTATE ANY DAMAGED FIELD TILE WITHIN 24 HOURS OF OCCURRENCE.
3. CONTRACTOR IS TO AVOID INTERMEDIATE HIGH POINTS IN LOW PRESSURE LINE DURING INSTALLATION. INTERMEDIATE HIGH POINTS THAT OCCUR IN THE FIELD AND NOT INDICATED ON THE DRAWINGS WILL REQUIRE INLINE AIR RELEASE VALVES INSTALLED AT THE CONTRACTOR'S EXPENSE.
4. ALL EXCAVATION AND BORE PITS MUST MEET THE MINIMUM EROSION AND SEDIMENT CONTROL REQUIREMENTS ILLUSTRATED IN THE DETAIL. REFER TO PLAN SHEET 15.
5. CONTRACTOR IS TO PROTECT ALL PAVEMENT FROM DAMAGE AND IS RESPONSIBLE FOR REPLACING ANY DAMAGED PAVEMENT TO ORIGINAL OR BETTER CONDITION.

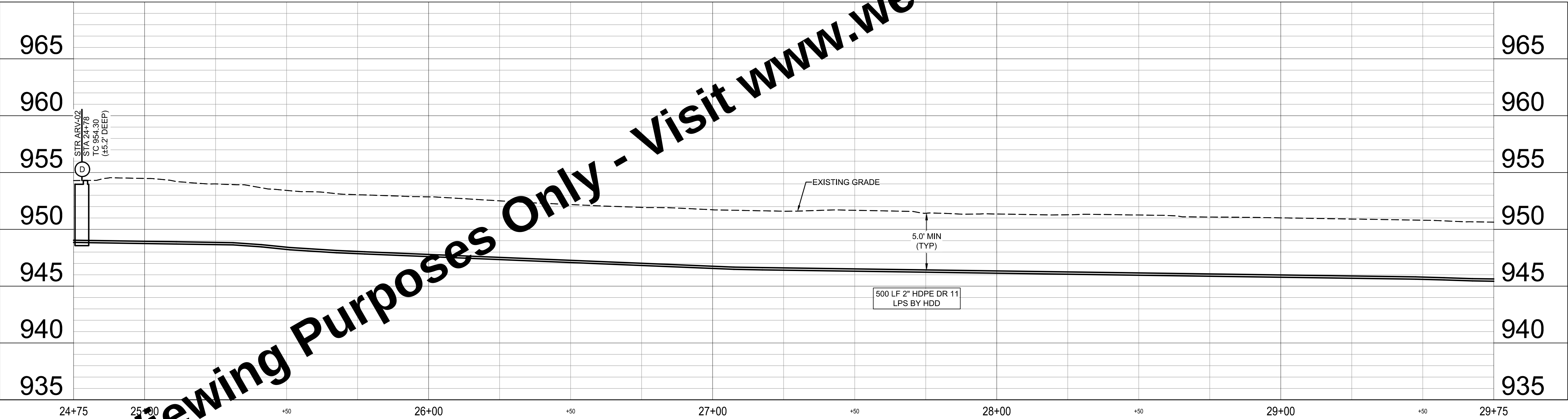
KEYED NOTES ○

- A STAINLESS STEEL LATERAL KIT, SEE DTL SHT 12
- B LPS IN-LINE FLUSHING CONNECTION, SEE DTL SHT 12
- C IN-LINE ARV, SEE DTL SHT 13
- D LPS IN-LINE ARV AND FLUSHING CONNECTION, SEE DTL SHT 13

KEYED NOTES - ERC □

(SEE DETAILS AND SCHEDULES ON SHEETS 14-15)

- CW CONCRETE WASHOUT
- IP INLET PROTECTION
- SF SILT FENCE OR FILTER TUBE



PROFILE - LINE A
HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 5'

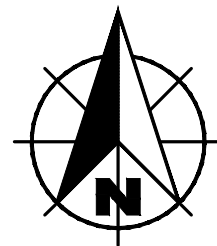
For Viewing Purposes Only - Visit www.wesslerengineering.com

SCALE VERIFICATION BAR IS ONE INCH LONG ON ORIGINAL DRAWING 	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
	CHECKED BY	BJS				
	APPROVED BY	BJS				
	ISSUE DATE					
	SEPTEMBER 2026					
	PROJECT NUMBER					
	708025-04-001					



WASTEWATER GRINDER STATION AND LOW PRESSURE SEWER	
HARDIN NORTHERN LOCAL SCHOOL DISTRICT DUNKIRK, OHIO	
LOW PRESSURE SEWER PLAN AND PROFILE - LINE A	

SHEET NO.
09
TOTAL SHEETS
19



GENERAL NOTES:

1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON PLAN SHEETS AND AS NECESSARY TO PROVIDE ADEQUATE CONTROL FOR THE CONSTRUCTION AREA. SEE SPECIFICATION 02101.
2. CONTRACTOR TO REPAIR AND REINSTATE ANY DAMAGED FIELD TILE WITHIN 24 HOURS OF OCCURRENCE.
3. CONTRACTOR IS TO AVOID INTERMEDIATE HIGH POINTS IN LOW PRESSURE LINE DURING INSTALLATION. INTERMEDIATE HIGH POINTS THAT OCCUR IN THE FIELD AND NOT INDICATED ON THE DRAWINGS WILL REQUIRE INLINE AIR RELEASE VALVES INSTALLED AT THE CONTRACTOR'S EXPENSE.
4. ALL EXCAVATION AND BORE PITS MUST MEET THE MINIMUM EROSION AND SEDIMENT CONTROL REQUIREMENTS ILLUSTRATED IN THE DETAIL. REFER TO PLAN SHEET 15.
5. CONTRACTOR IS TO PROTECT ALL PAVEMENT FROM DAMAGE AND IS RESPONSIBLE FOR REPLACING ANY DAMAGED PAVEMENT TO ORIGINAL OR BETTER CONDITION.

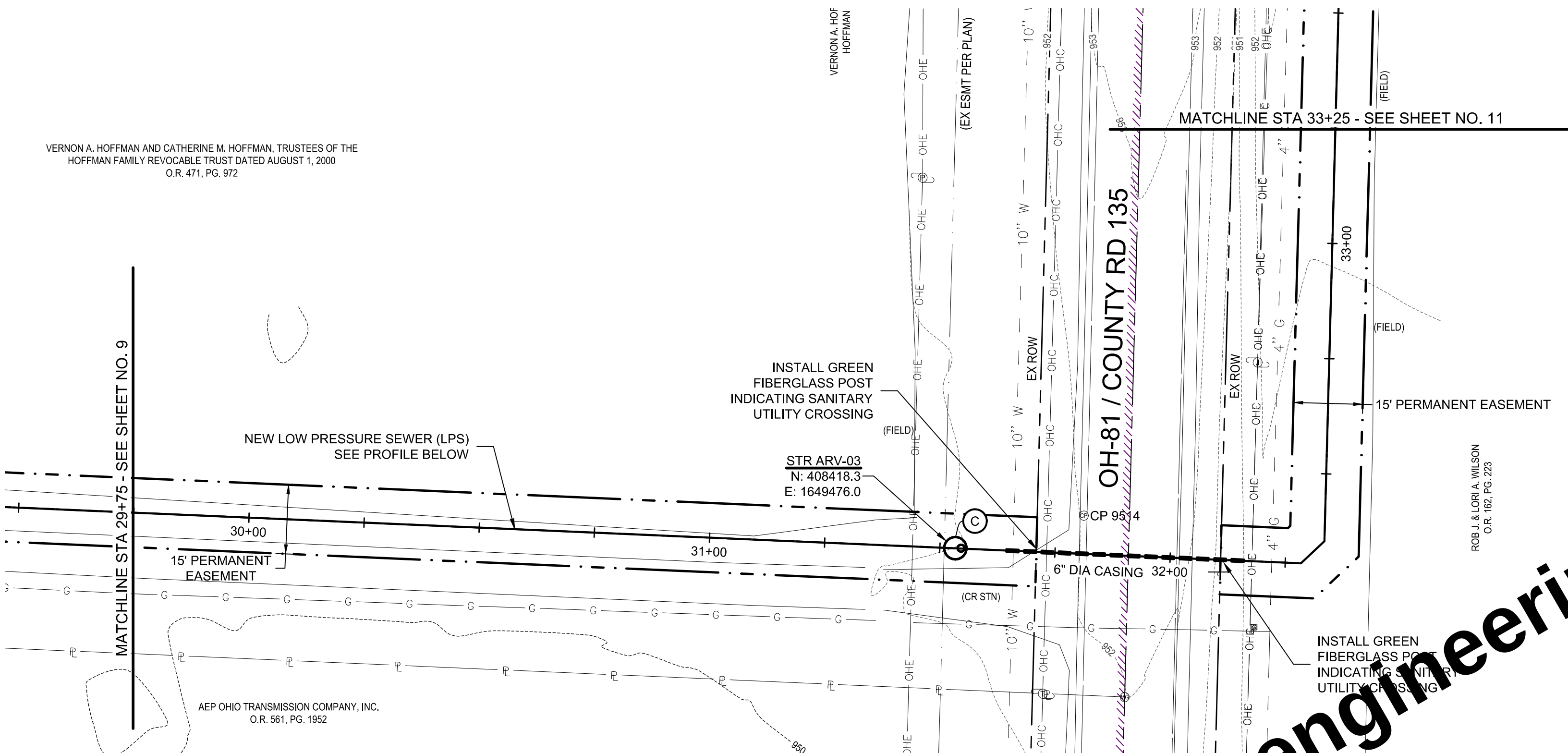
KEYED NOTES ○

- A STAINLESS STEEL LATERAL KIT, SEE DTL SHT 12
- B LPS IN-LINE FLUSHING CONNECTION, SEE DTL SHT 12
- C IN-LINE ARV, SEE DTL SHT 13
- D LPS IN-LINE ARV AND FLUSHING CONNECTION, SEE DTL SHT 13

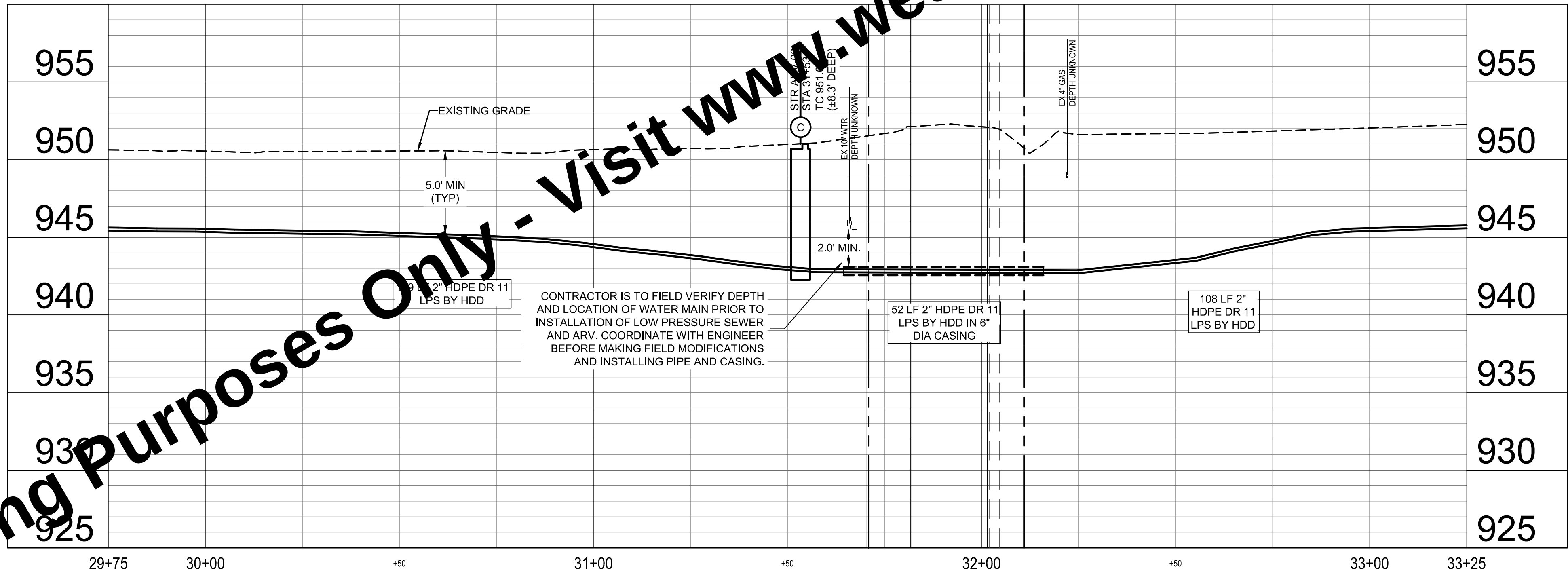
KEYED NOTES - ERC □

(SEE DETAILS AND SCHEDULES ON SHEETS 14-15)

- CW CONCRETE WASHOUT
- IP INLET PROTECTION
- SF SILT FENCE OR FILTER TUBE

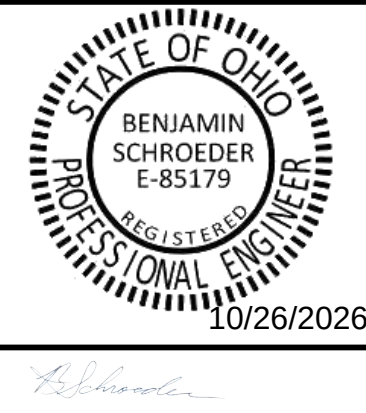


PLAN - LINE A
SCALE: 1"=20'



PROFILE - LINE A
HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 5'

SCALE VERIFICATION BAR IS ONE INCH LONG ON ORIGINAL DRAWING 	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
	CHECKED BY	BJS				
	APPROVED BY	BJS				
	ISSUE DATE					
	SEPTEMBER 2026					
	PROJECT NUMBER					
	708025-04-001					

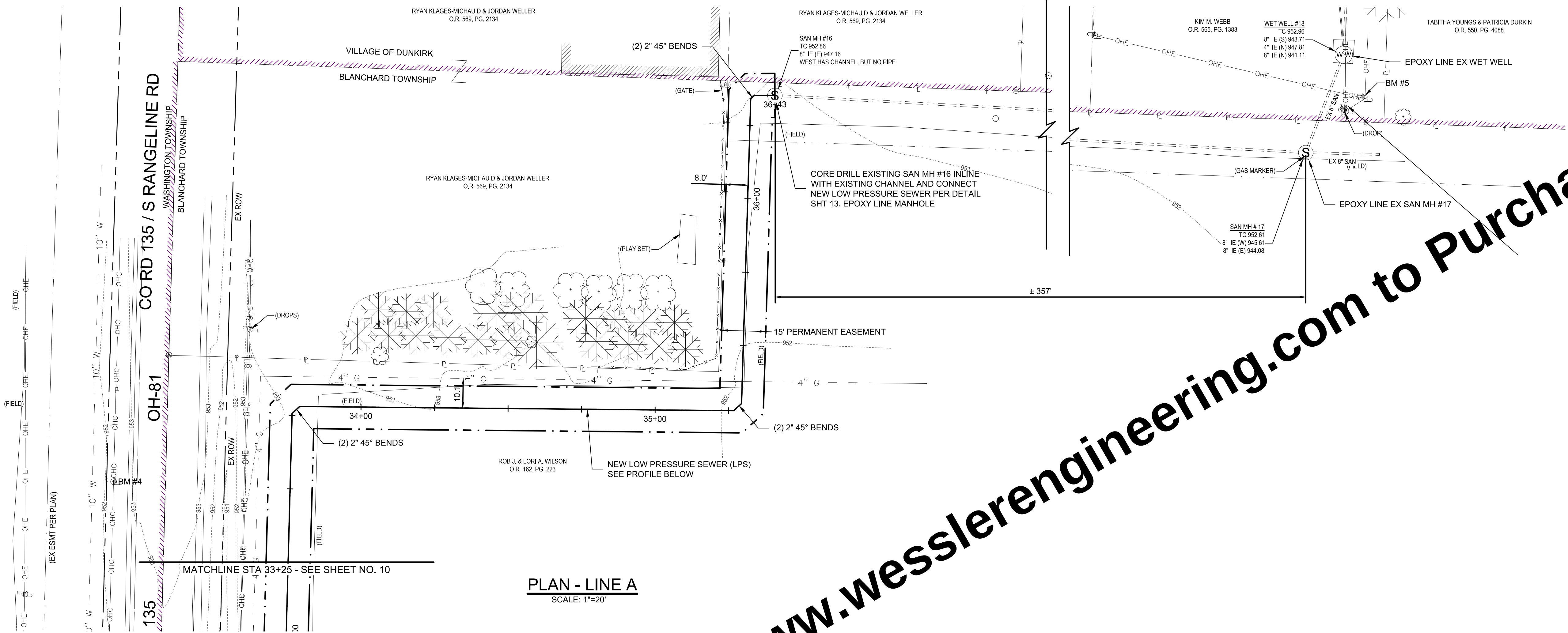


WASTEWATER GRINDER STATION AND LOW PRESSURE SEWER	
HARDIN NORTHERN LOCAL SCHOOL DISTRICT DUNKIRK, OHIO	
LOW PRESSURE SEWER PLAN AND PROFILE - LINE A	

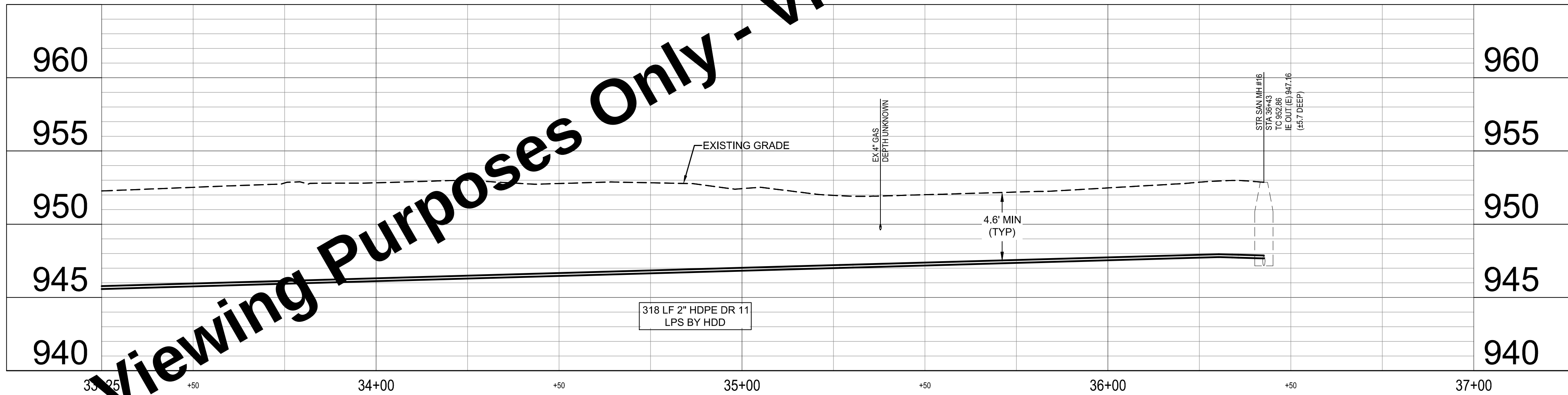
SHEET NO.
10
TOTAL SHEETS
19

Drawing: X:\Hardin N Local School District\708025-Hardin N LSO Lift Station\DWG\Sheet\708025-PP.dwg | Layout: PP6 | Plotted: 10/22/26 @ 10:50:35 | LastSavedBy: MichelleE

VERNON A. HOFFMAN AND CATHERINE M. HOFFMAN, TRUSTEES OF THE
HOFFMAN FAMILY REVOCABLE TRUST DATED AUGUST 1, 2000
O.R. 471, PG. 972



PLAN - LINE A
SCALE: 1"=20'



PROFILE - LINE A
HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 5'

GENERAL NOTES:

1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON PLAN SHEETS AND AS NECESSARY TO PROVIDE ADEQUATE CONTROL FOR THE CONSTRUCTION AREA. SEE SPECIFICATION 02101.
2. CONTRACTOR TO REPAIR AND REINSTATE ANY DAMAGED FIELD TILE WITHIN 24 HOURS OF OCCURRENCE.
3. CONTRACTOR IS TO AVOID INTERMEDIATE HIGH POINTS IN LOW PRESSURE LINE DURING INSTALLATION. INTERMEDIATE HIGH POINTS THAT OCCUR IN THE FIELD AND NOT INDICATED ON THE DRAWINGS WILL REQUIRE INLINE AIR RELEASE VALVES INSTALLED AT THE CONTRACTOR'S EXPENSE.
4. ALL EXCAVATION AND BORE PITS MUST MEET THE MINIMUM EROSION AND SEDIMENT CONTROL REQUIREMENTS ILLUSTRATED IN THE DETAIL. REFER TO PLAN SHEET 15.
5. CONTRACTOR IS TO PROTECT ALL PAVEMENT FROM DAMAGE AND IS RESPONSIBLE FOR REPLACING ANY DAMAGED PAVEMENT TO ORIGINAL OR BETTER CONDITION.

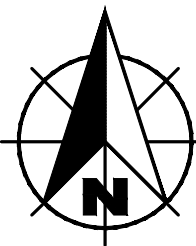
KEYED NOTES ○

- A STAINLESS STEEL LATERAL KIT, SEE DTL SHT 12
- B LPS IN-LINE FLUSHING CONNECTION, SEE DTL SHT 12
- C IN-LINE ARV, SEE DTL SHT 13
- D LPS IN-LINE ARV AND FLUSHING CONNECTION, SEE DTL SHT 13

KEYED NOTES - ERC □

(SEE DETAILS AND SCHEDULES ON SHEETS 14-15)

- CW CONCRETE WASHOUT ☒
- IP INLET PROTECTION ☐
- SF SILT FENCE OR FILTER TUBE ☒



0 10 20 40 FT
1" = 20'

WASTEWATER GRINDER STATION AND LOW PRESSURE SEWER

HARDIN NORTHERN LOCAL SCHOOL DISTRICT
DUNKIRK, OHIO

LOW PRESSURE SEWER PLAN AND PROFILE - LINE A

SHEET NO.

11

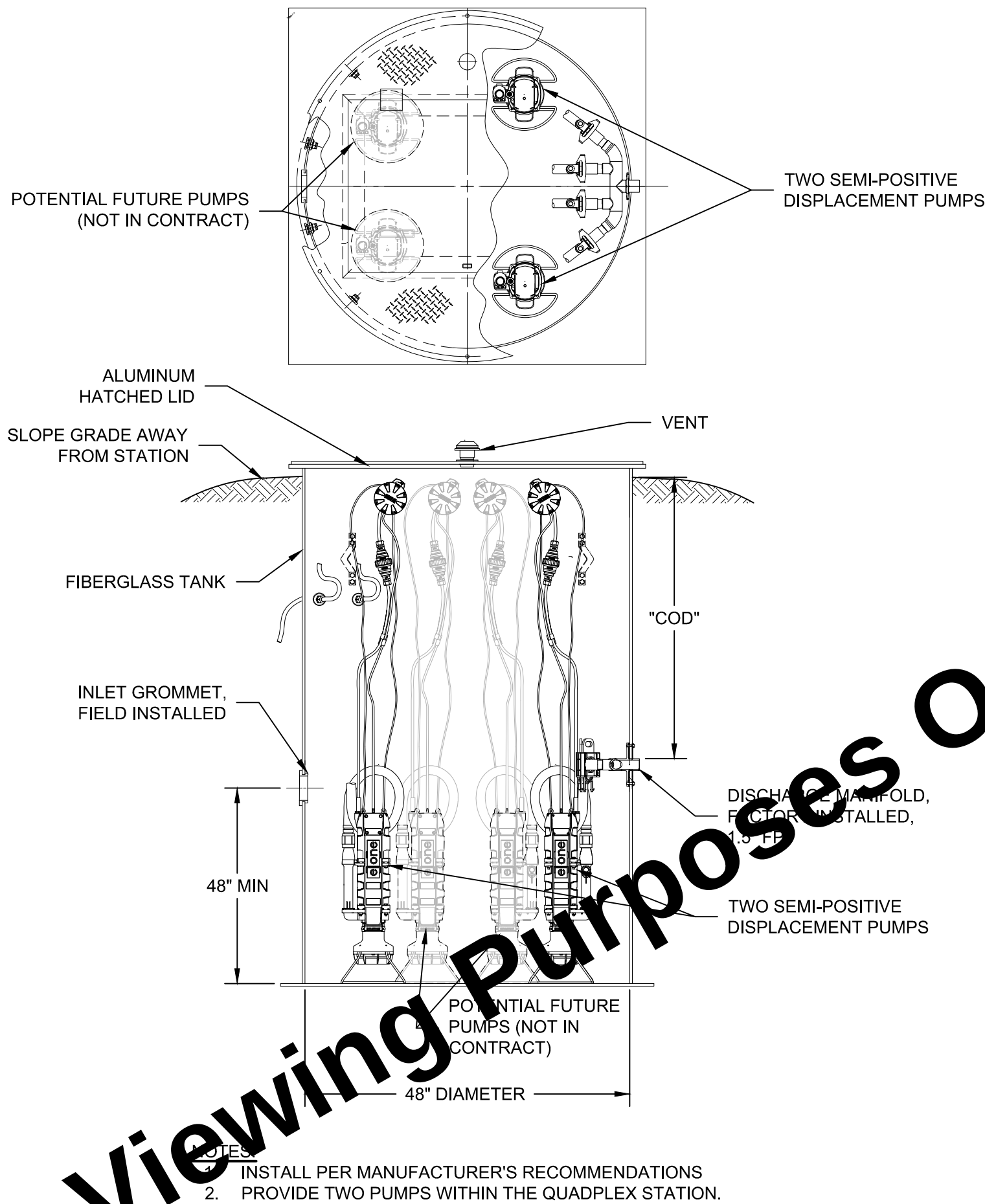
TOTAL SHEETS

19

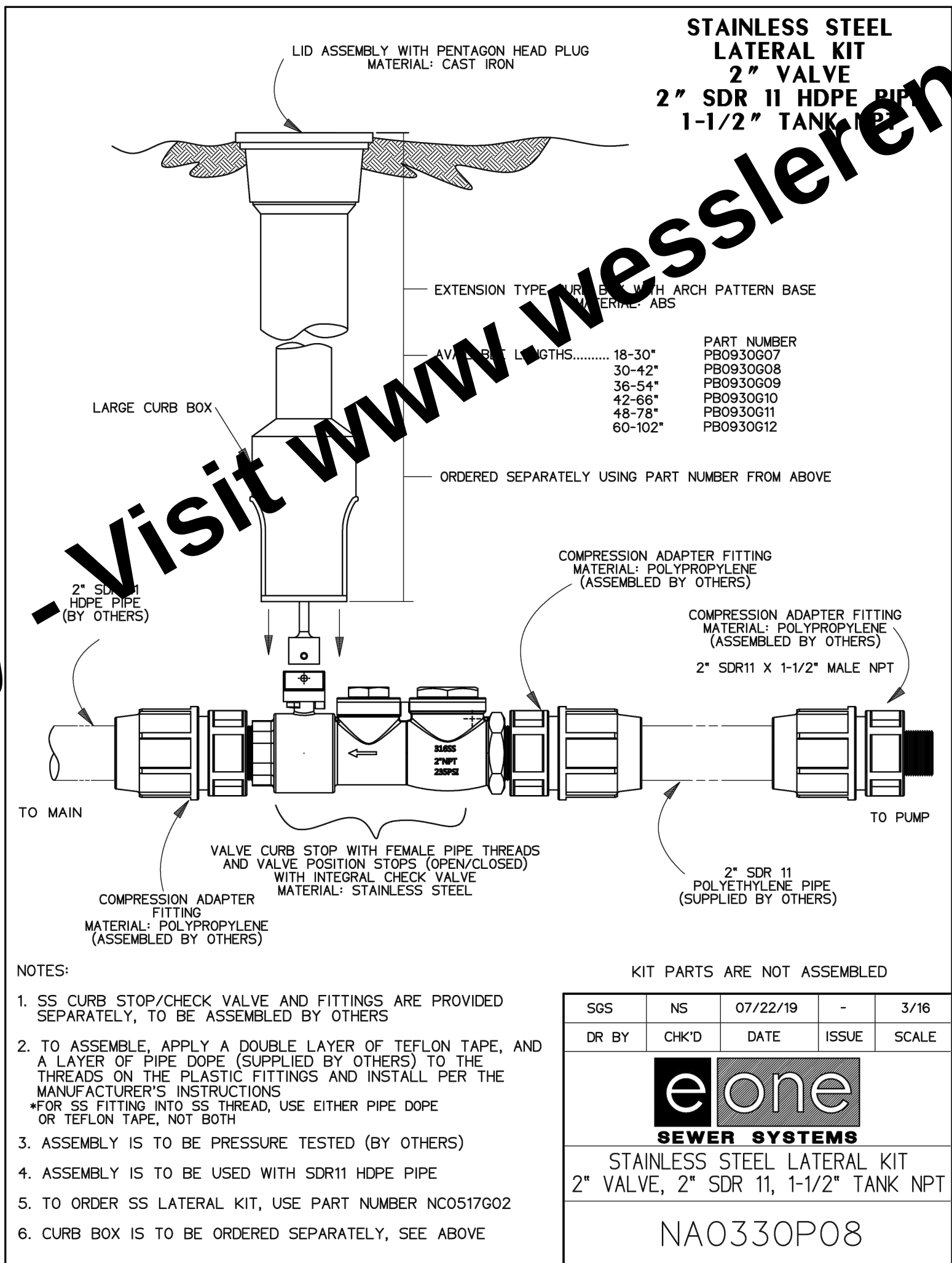


W
WESSLER
ENGINEERING
More than a Project™

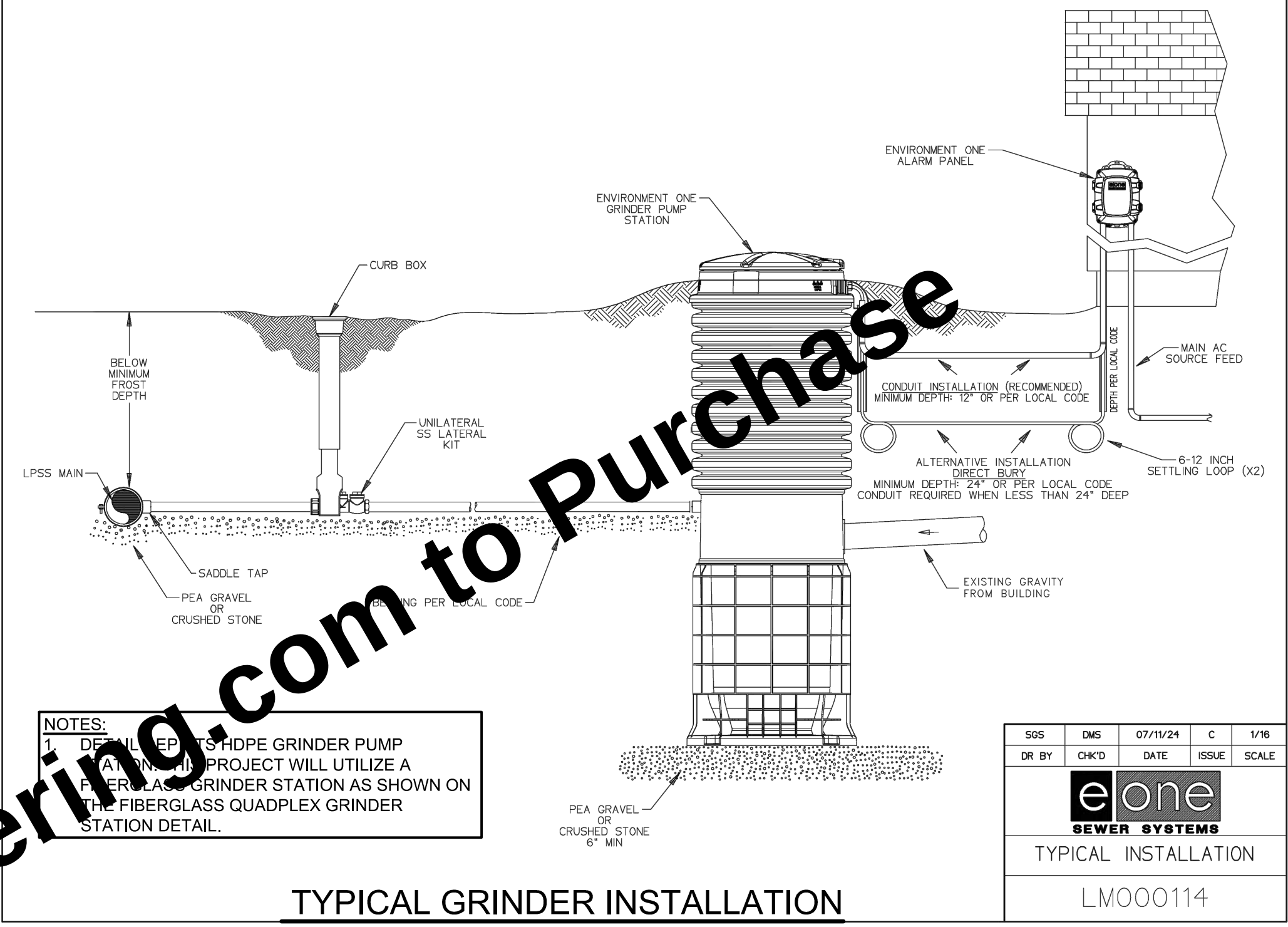
Drawing: X:\Hardin N Local School District\708025-Hardin N LSSD Lift Station\DWG\Sheet\708025-LMD.dwg | Layout: M01 | Printed: 09/28/26 @ 03:22:03 | LssSewerBy: Mechanical



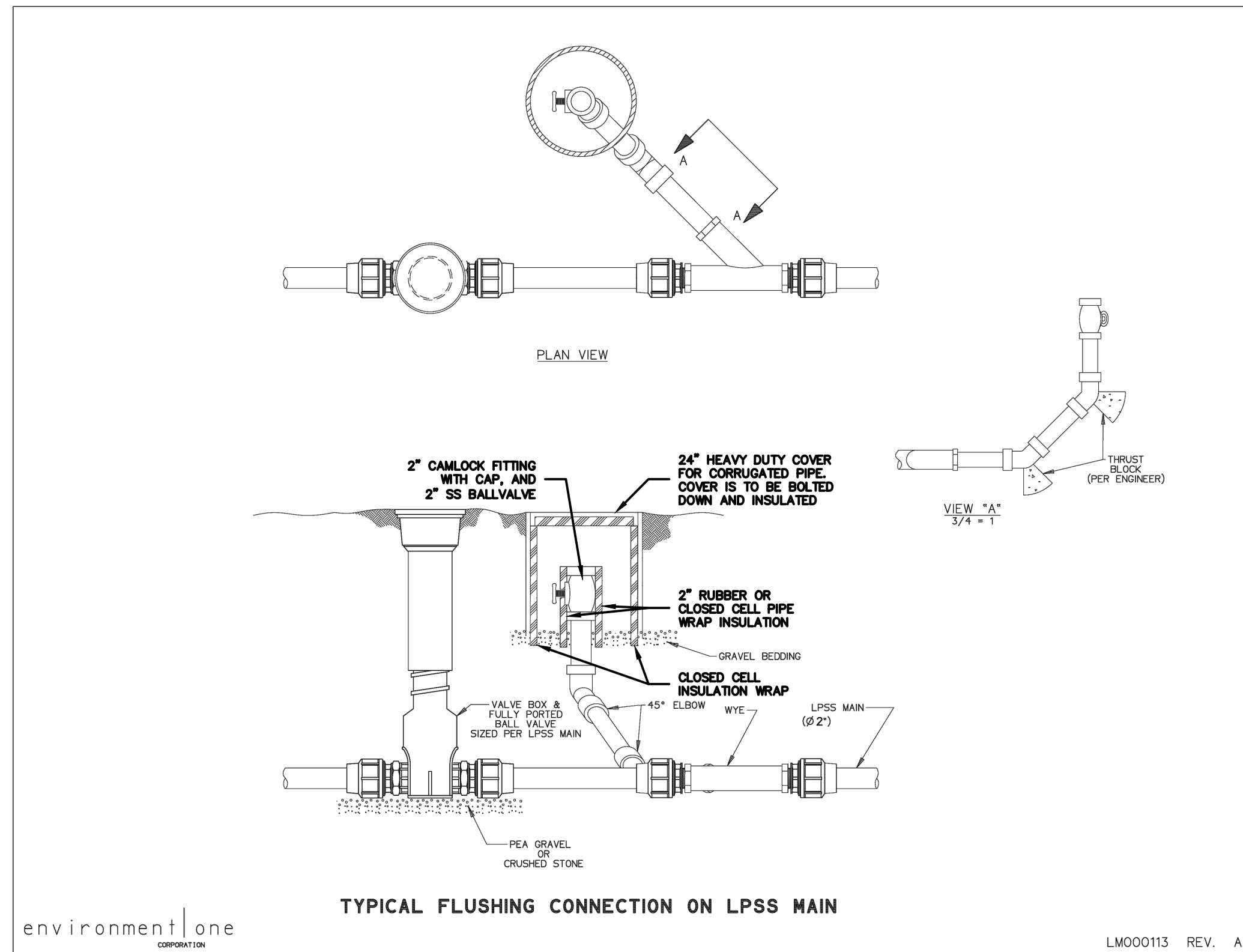
FIBERGLASS QUADPLEX
GRINDER STATION
SCALE: NONE



Ⓐ STAINLESS STEEL LATERAL KIT
SCALE: NONE

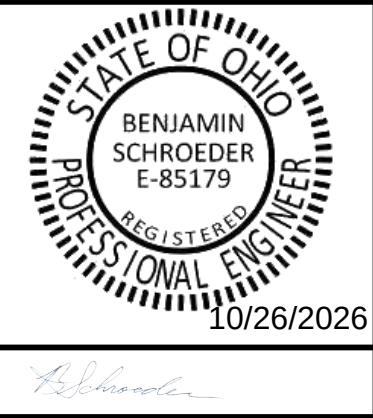


TYPICAL GRINDER INSTALLATION
SCALE: NONE



Ⓑ LPS IN-LINE FLUSHING CONNECTION
SCALE: NONE

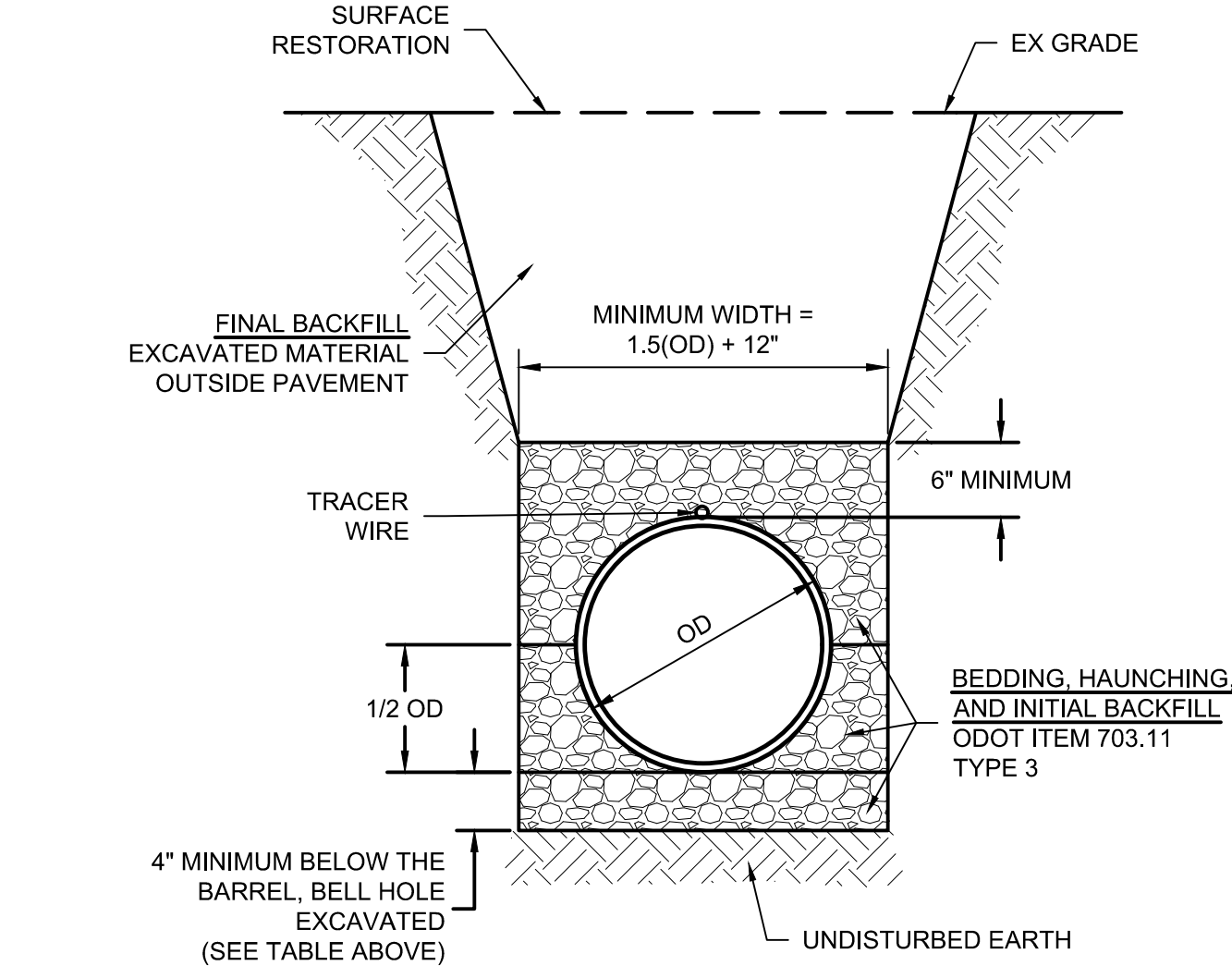
SCALE VERIFICATION	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING 	CHECKED BY	BJS				
	APPROVED BY	BJS				
	ISSUE DATE					
	SEPTEMBER 2026					
	PROJECT NUMBER					
		708025-04-001				



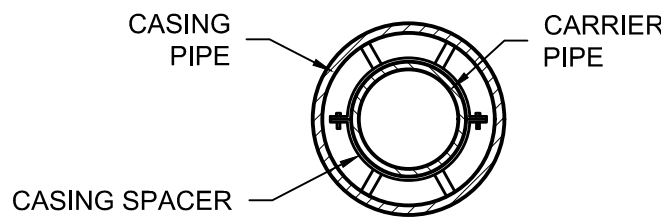
WASTEWATER GRINDER STATION AND LOW PRESSURE SEWER
HARDIN NORTHERN LOCAL SCHOOL DISTRICT DUNKIRK, OHIO
MISCELLANEOUS DETAILS

SHEET NO.
12
TOTAL SHEETS
19

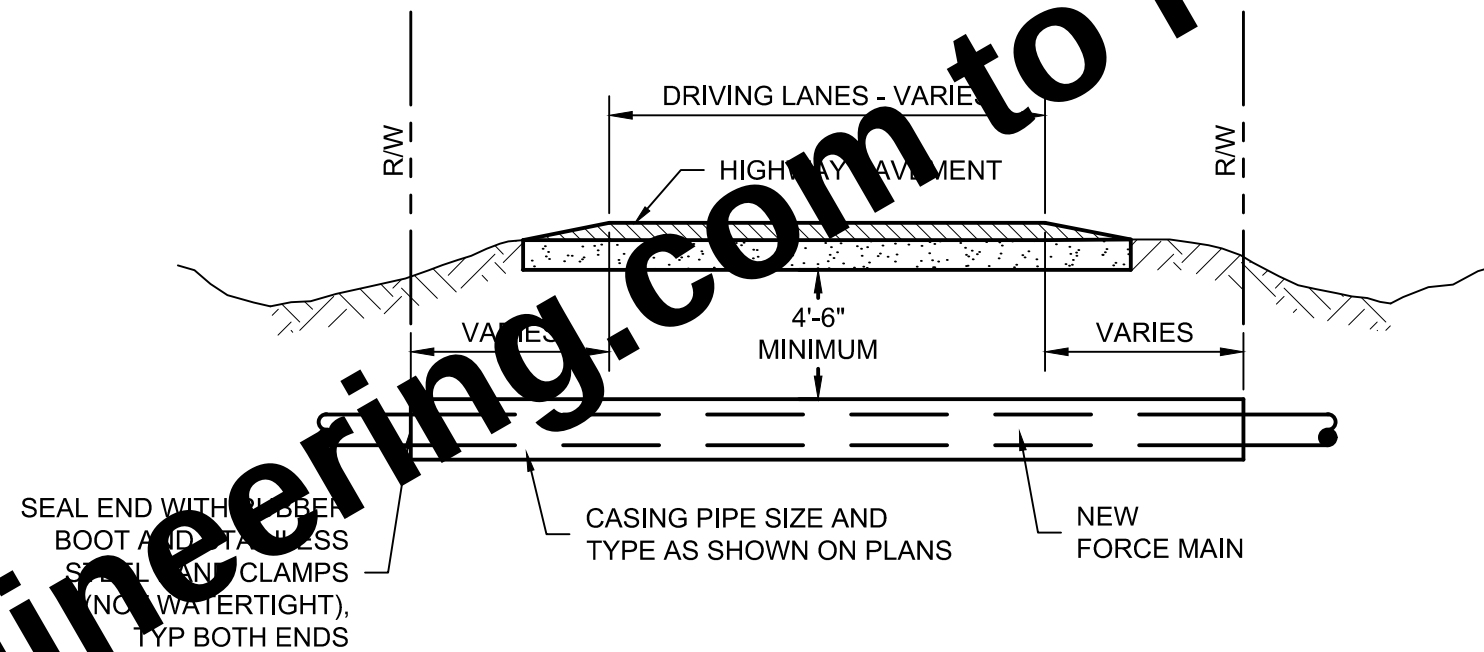
PIPE SIZE	16" AND LESS	18" TO 30"	33" AND OVER
BEDDING BELOW THE PIPE BARREL	4"	OD / 4	8"



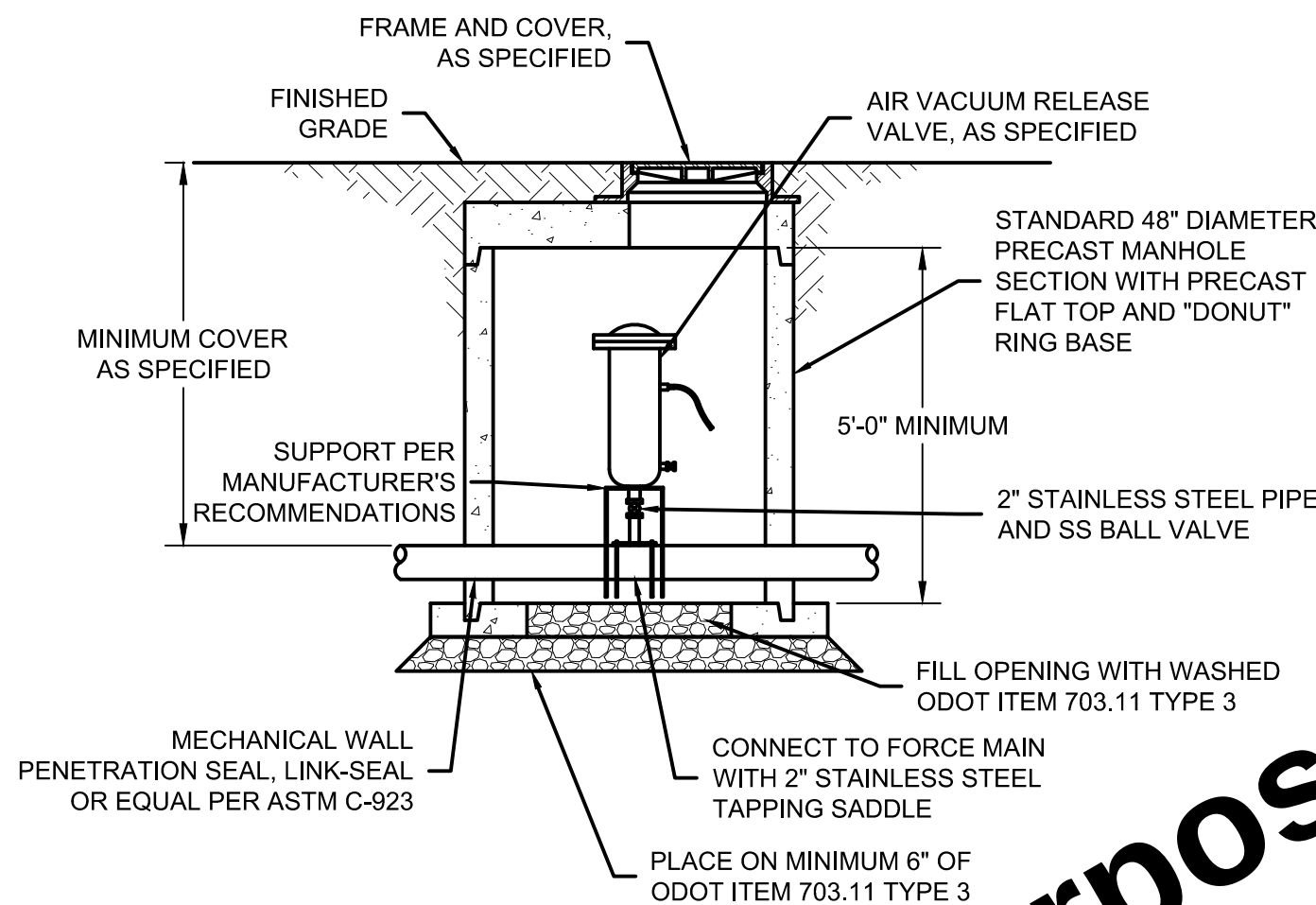
PLASTIC PIPE TRENCH (PRESSURE)
SCALE: NONE



CASING SPACER
SCALE: NONE

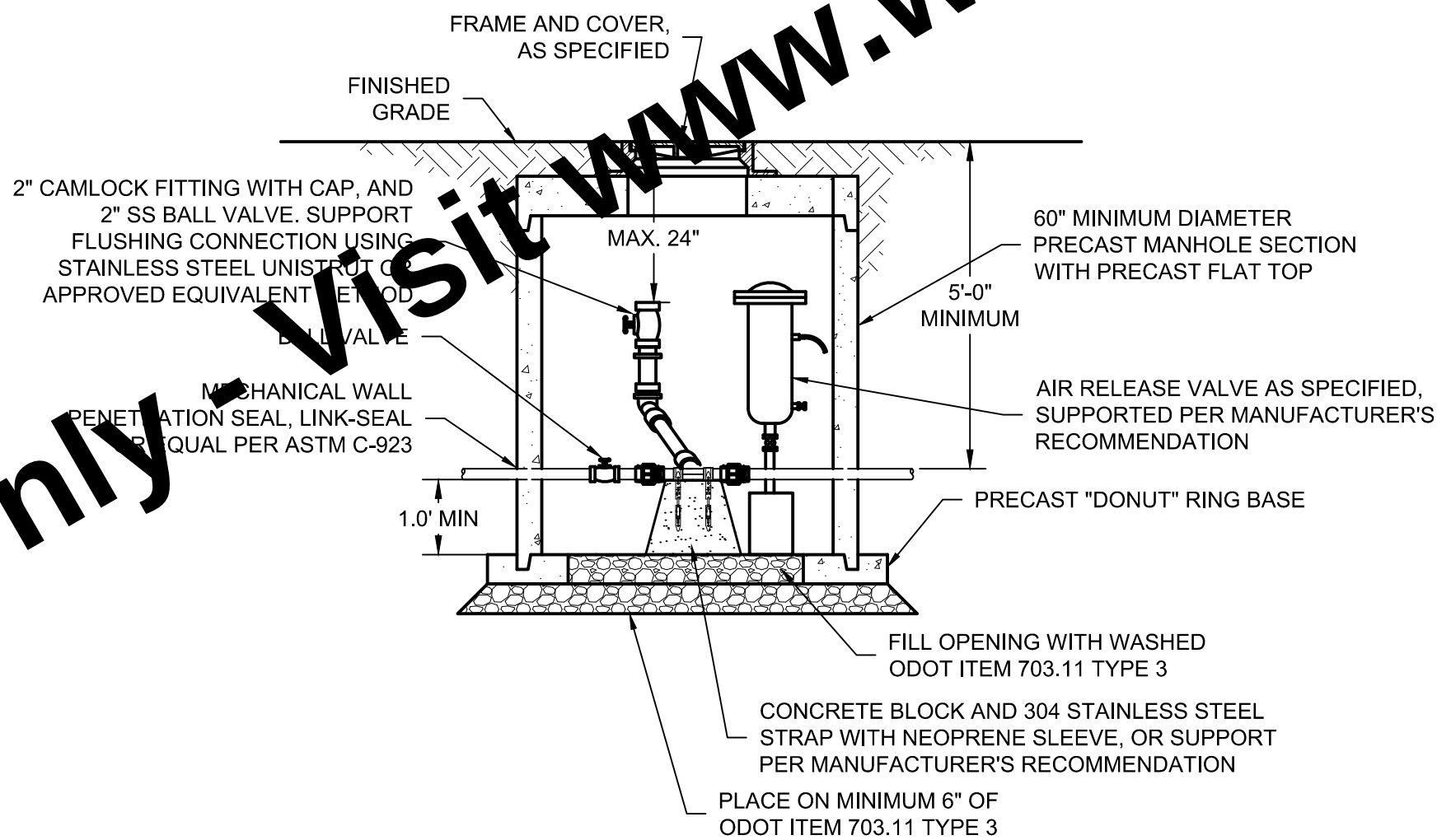


CASING PIPE
SCALE: NONE



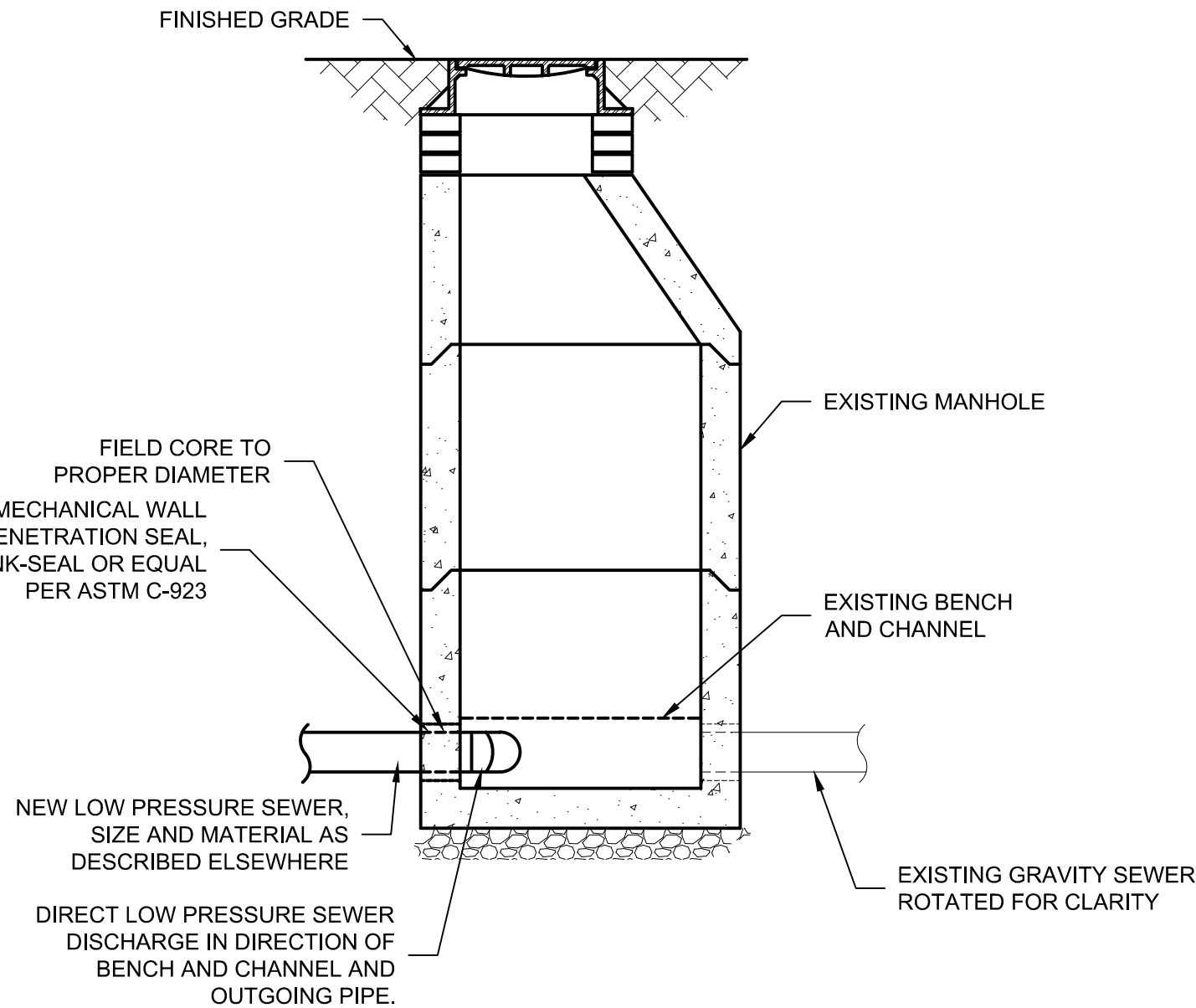
- NOTES:
1. THE CONTRACTOR SHALL DETERMINE THE REQUIRED FORCE MAIN DEPTH AT THE STRUCTURE TO ENSURE THAT THE VALVE VAULT STRUCTURE DOES NOT EXTEND ABOVE FINISHED GRADE.
 2. LOCATION OF AIR/VACUUM RELEASE STRUCTURES ARE APPROXIMATE. THE FINAL LOCATION TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR AT THE HIGH ELEVATION POINT OF THE FORCE MAIN.

AIR/VACUUM RELEASE
VALVE AND VAULT
SCALE: NONE



- NOTES:
1. THE CONTRACTOR SHALL DETERMINE THE REQUIRED FORCE MAIN DEPTH AT THE STRUCTURE TO ENSURE THAT THE VALVE VAULT STRUCTURE DOES NOT EXTEND ABOVE FINISHED GRADE.
 2. LOCATION OF AIR/VACUUM RELEASE STRUCTURES ARE APPROXIMATE. THE FINAL LOCATION TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR AT THE HIGH ELEVATION POINT OF THE FORCE MAIN.
 3. FLOW DIRECTION THROUGH STRUCTURE IS VARIABLE. FLUSHING CLEANOUT AND ARV PLACED AT DOWNSTREAM END OF STRUCTURE.

IN-LINE ARV FLUSHING CONNECTION
SCALE: NONE



LOW PRESSURE SEWER CONNECTION
AT EXISTING MANHOLE
SCALE: NONE

Drawing: X:\Hardin N Local School District\708025-Hardin N LSO Lift Station\DWG\Sheet\708025-HLP.dwg | Layout: M02 | Plotter: 09/28/26 @ 03:22:18 | LastSavedBy: MichaelME

<div>SCALE VERIFICATION</div> <div>BAR IS ONE INCH LONG ON ORIGINAL DRAWING</div> <div><div></div></div>	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
	CHECKED BY	BJS				
	APPROVED BY	BJS				
	ISSUE DATE					
	SEPTEMBER 2026					
	PROJECT NUMBER					
	708025-04-001					



WASTEWATER GRINDER STATION AND LOW PRESSURE SEWER	
HARDIN NORTHERN LOCAL SCHOOL DISTRICT DUNKIRK, OHIO	
MISCELLANEOUS DETAILS	

SHEET NO.	13
TOTAL SHEETS	19

- INSTALLATION:**

- MAINTENANCE:

- ## FIBER FILTRATION TUBES - SLOPE

SCALE: NONE



- INSTALLATION:**

- ## MAINTENANCE

- ## INLET PROTECTION BAG

SCALE: NONE



- WASHOUT PROCEDURES:

- MAINTENANCE:

1. MAINTENANCE REQUIREMENTS PROVIDED IN SPECIFICATIONS.



- NOTES:

- MAINTENANCE:**

- ## EROSION CONTROL BLANKET

SCALE: NONE



A. = KENTUCKY BLUEGRASS AND PERENNIAL RYEGRASS 150 LB/ACRE
B. = KENTUCKY BLUEGRASS AND PERENNIAL RYEGRASS 150 LB/ACRE CREEPING RED FESCUE 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, 40 LB/ACRE CREEPING RED FESCUE, 17 LB/ACRE KENTUCKY BLUEGRASS), OR MIX 4 (112 LB/ACRE RYE, 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 ANNUAL RYEGRASS, 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 (2 TONS/ACRE) OR WOOD CELLULOSE FIBER (750 LB/ACRE) OR WOOD MULCH/CHIPS (5 TONS/ACRE)

- NOTES:

- MAINTENANCE:

-
- The diagram illustrates the Dewatering Bag System in two views:
- SIDE VIEW:** Shows a cross-section of the system. A **WATER PUMP** is connected to a **PUMP DISCHARGE HOSE**, which is inserted into a **REGATE OR STRAW (FOR ADDED FLOW)** in the ground. The hose leads into a **DEWATERING BAG** buried in the soil.
 - PLAN:** Shows a top-down view of the system. A **WATER PUMP** is connected to a **DEWATERING BAG** via a **PUMP DISCHARGE HOSE**. The hose is secured with a **TIE DOWN STRAP**. The bag has a **SEWN IN SPOUT** for **FLOW** of **FILTERED WATER** out of the system.

MAINTENANCE:

- SOURCE:

SOURCE:
KRISTAR
DANDY DEWATERING BAG
SEDCATCH

CONCRETE WASHOUT

SCALF: NONE

SHEET NO

14

TOTAL SHEETS

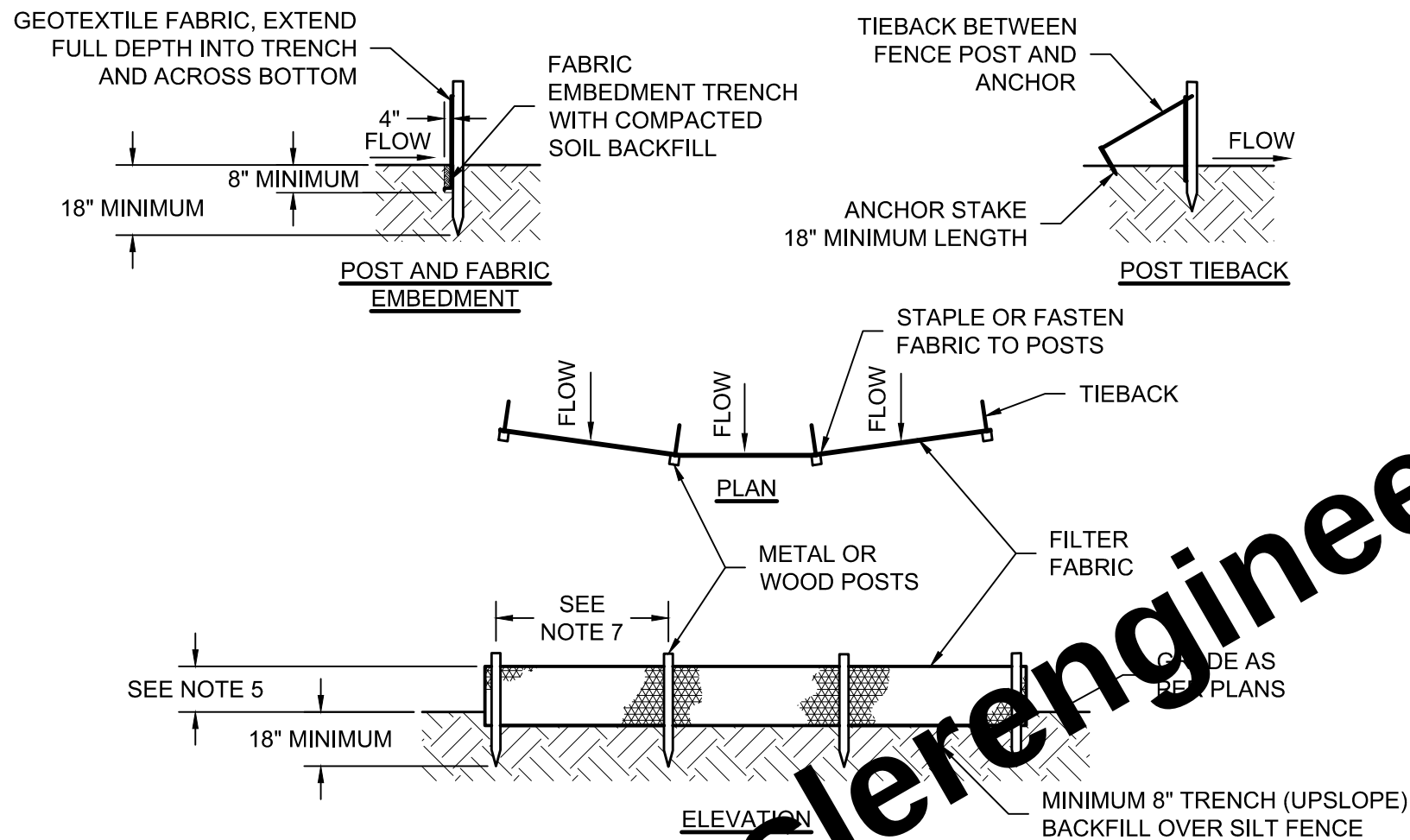
19

Drawing: X:\Hardin N Local School District\708025-Hardin N L SD Lift Station\DWG\Sheets\708025-HLP.dwg | Layout: CD2 | Plotted: 09/28/26 @ 03:22:31 | LastSavedBy: MichaelE

EROSION CONTROL SCHEDULE	
CONSTRUCTION ACTIVITY	SCHEDULE CONSIDERATION
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.
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.
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.
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.
LAND CLEARING AND GRADING - SITE PREPARATION (CUTTING, FILLING, AND GRADING, SEDIMENT TRAPS, BARRIERS, DIVERSIONS, DRAINS, SURFACE ROUGHENING).	IMPLEMENT CLEARING AND GRADING AFTER INSTALLATION OF SEDIMENT TRAPS AND RUNOFF CONTROL MEASURES, AND INSTALL ADDITIONAL CONTROL MEASURES AS GRADING CONTINUES. CLEAR BORROW AND DISPOSAL AREAS AS NEEDED.
SURFACE STABILIZATION - TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, RIPRAP, EROSION CONTROL BLANKET.	APPLY TEMPORARY OR PERMANENT STABILIZING MEASURES IMMEDIATELY TO ANY DISTURBED AREAS WHERE WORK HAS BEEN EITHER COMPLETED OR DELAYED.
CONSTRUCTION - STRUCTURES, UTILITIES, PAVING, CONCRETE WASHOUT, AND CONSTRUCTION ENTRANCES.	DURING CONSTRUCTION, INSTALL ANY EROSION AND SEDIMENTATION CONTROL MEASURES THAT ARE NEEDED.
LANDSCAPING AND FINAL STABILIZATION - TOPSOILING, TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIPRAP.	THIS IS THE LAST CONSTRUCTION PHASE. STABILIZE ALL DISTURBED AREAS, INCLUDING BORROW AND SPOIL AREAS. 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.

EROSION CONTROL SCHEDULE

SCALE: NONE



NOTES:

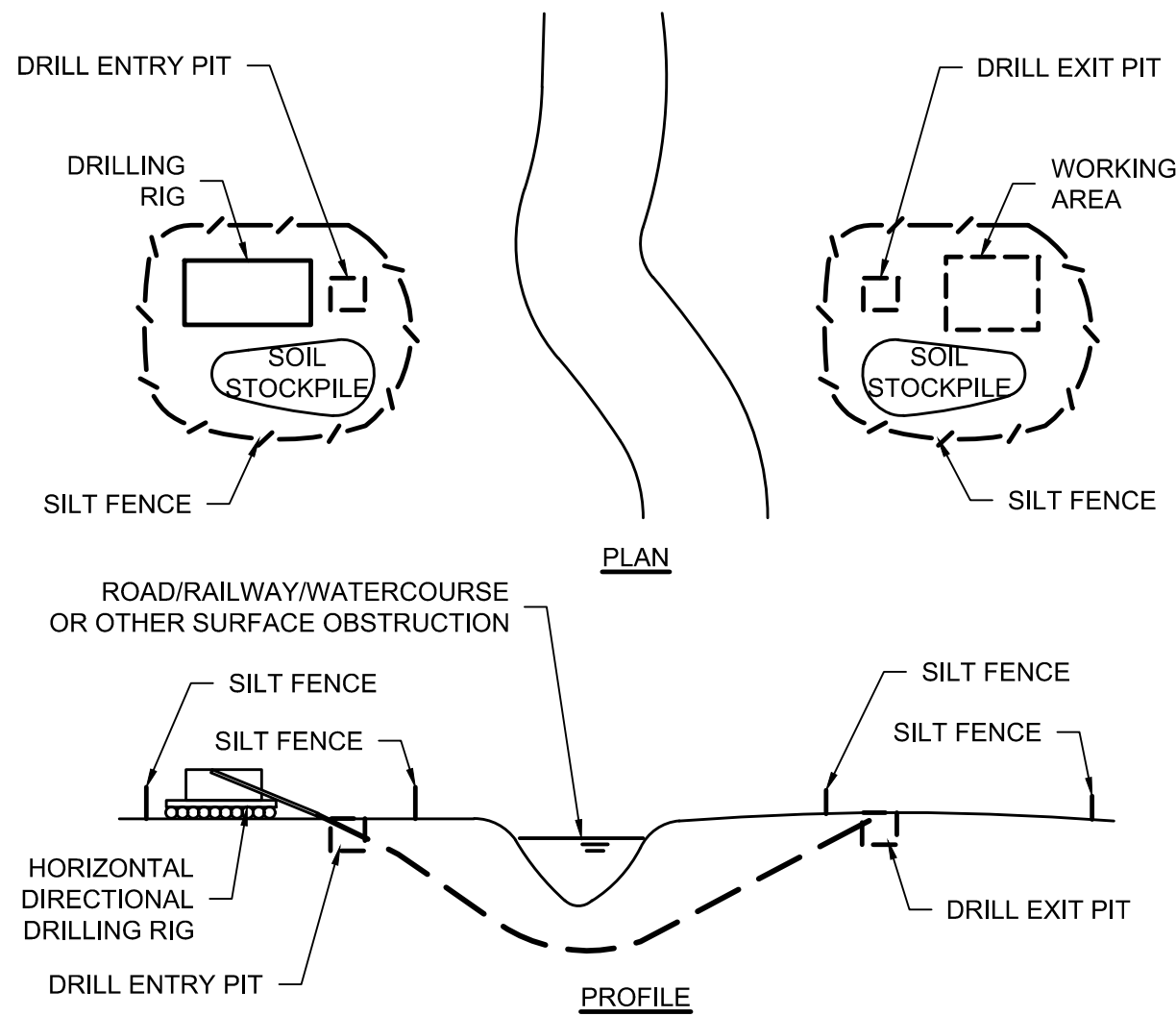
1. SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF WOVEN OR NON-WOVEN GEOTEXTILE FABRIC AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS:
 - a. TEXTILE STRENGTH AT 20% (MAXIMUM) ELONGATION - 20 LB/INCH (MINIMUM), ASTM D4832.
 - b. WOVEN EXTRA STRENGTH - 50 LB/LINEAR INCH (MINIMUM), NON-WOVEN EXTRA STRENGTH - 70 LB/INCH (MINIMUM).
 - c. WOVEN STANDARD STRENGTH - 30 LB/LINEAR INCH (MINIMUM), NON-WOVEN STANDARD STRENGTH - 50 LB/INCH (MINIMUM).
 - d. APPARENT OPENING SIZE (AOS) (U.S. Sieve #) - NO. 10 PARTICLE SIZE OF 0.6 mm (MAXIMUM), ASTM D4751.
 - e. PERMITTIVITY - 0.05 S\"/>
2. POSTS FOR SILT FENCES SHALL BE 1\"/>
3. ANCHOR STAKES FOR SILT FENCES SHALL BE 1\"/>
4. WIRE FENCE REINFORCING FOR SILT FENCES USING STANDARD STRENGTH FILTER CLOTH SHALL BE A MINIMUM OF 42\"/>
5. THE HEIGHT OF THE BARRIER SHALL BE A MINIMUM OF 18\"/>
6. THE FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE USED, THE FABRIC SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6\"/>
7. POSTS SHALL BE SPACED A MAXIMUM OF 6\"/>
8. THE SPACING OF TIEBACKS SHALL EQUAL THE SPACING OF THE POSTS. ADDITIONAL POST DEPTH OR TIEBACKS MAY BE REQUIRED IN UNSTABLE SOILS.
9. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4\"/>
10. WHEN STANDARD STRENGTH FILTER FABRIC IS USED WITH A WIRE MESH SUPPORT FENCE IT SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY 1\"/>
11. THE STANDARD STRENGTH FILTER FABRIC, WITHOUT A WIRE MESH SUPPORT FENCE, SHALL BE STAPLED OR WIRED TO THE FENCE, AND A MINIMUM 8\"/>
12. WHEN EXTRA STRENGTH FILTER FABRIC OR BURLAP AND POST SPACING IS LESS THAN THE MAXIMUM SPECIFIED SPACING OF 6\"/>
13. BACKFILL THE TRENCH AND COMPACT THE SOIL OVER THE FILTER FABRIC.
14. REMOVE SILT FENCES WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
15. SILT FENCE SHALL NOT BE USED AS A DIVERSION AND SHALL NOT BE INSTALLED ACROSS A STREAM, CHANNEL, DITCH, SWALE, ETC.

MAINTENANCE:

1. INSPECT AFTER EACH RAINFALL AND DAILY DURING PROLONGED RAINFALL. INSPECT AT LEAST ONCE EVERY 7 CALENDAR DAYS.
2. REPLACE OR REPAIR FABRIC IMMEDIATELY IF IT DECOMPOSES OR IS INEFFECTIVE.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY HALF THE HEIGHT OF THE BARRIER.
4. SPREAD ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED AND DRESS TO CONFORM WITH THE FINISHED GRADING.

SILT FENCE

SCALE: NONE



NOTES:

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

MAINTENANCE:

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

HORIZONTAL DIRECTIONAL DRILL

SCALE: NONE

WASTEWATER GRINDER STATION AND LOW PRESSURE SEWER

HARDIN NORTHERN LOCAL SCHOOL DISTRICT
DUNKIRK, OHIO

EROSION CONTROL DETAILS

SHEET NO.

15

TOTAL SHEETS

19



Drawing: X:\Hardin N Local School District\708025-Hardin N LSO Lift Station\DWG\Sheets\708025-MD.dwg | Layout: MT1 | Plotted: 09/28/25 @ 03:22:37 | LastSavedBy: MichaelE

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

Table 6H-2. Meaning of Symbols on Typical Application Diagrams

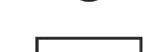
	Arrow panel
	Arrow panel support or trailer (shown facing down)
	Changeable message sign or support trailer
	Channelizing device
	Crash Cushion
	Direction of temporary traffic detour
	Direction of traffic
	Flagger
	High level warning device (Flag tree)
	Luminaire
	Pavement markings that should be removed for a long term project
	Sign (shown facing left)
	Surveyor
	Temporary barrier
	Temporary barrier with warning lights
	Traffic or Pedestrian signal
	Truck mounted attenuator
	Type III Barricade
	Warning lights
	Work space
	Work vehicle

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

Road Type	Distance Between Signs**		
	A	B	C
Urban (low speed)*	30 (100)	30 (100)	30 (100)
Urban (high speed)*	100 (350)	100 (350)	100 (350)
Rural	150 (500)	150 (500)	150 (500)
Expressway / Freeway	300 (1,000)	450 (1,500)	800 (2,640)

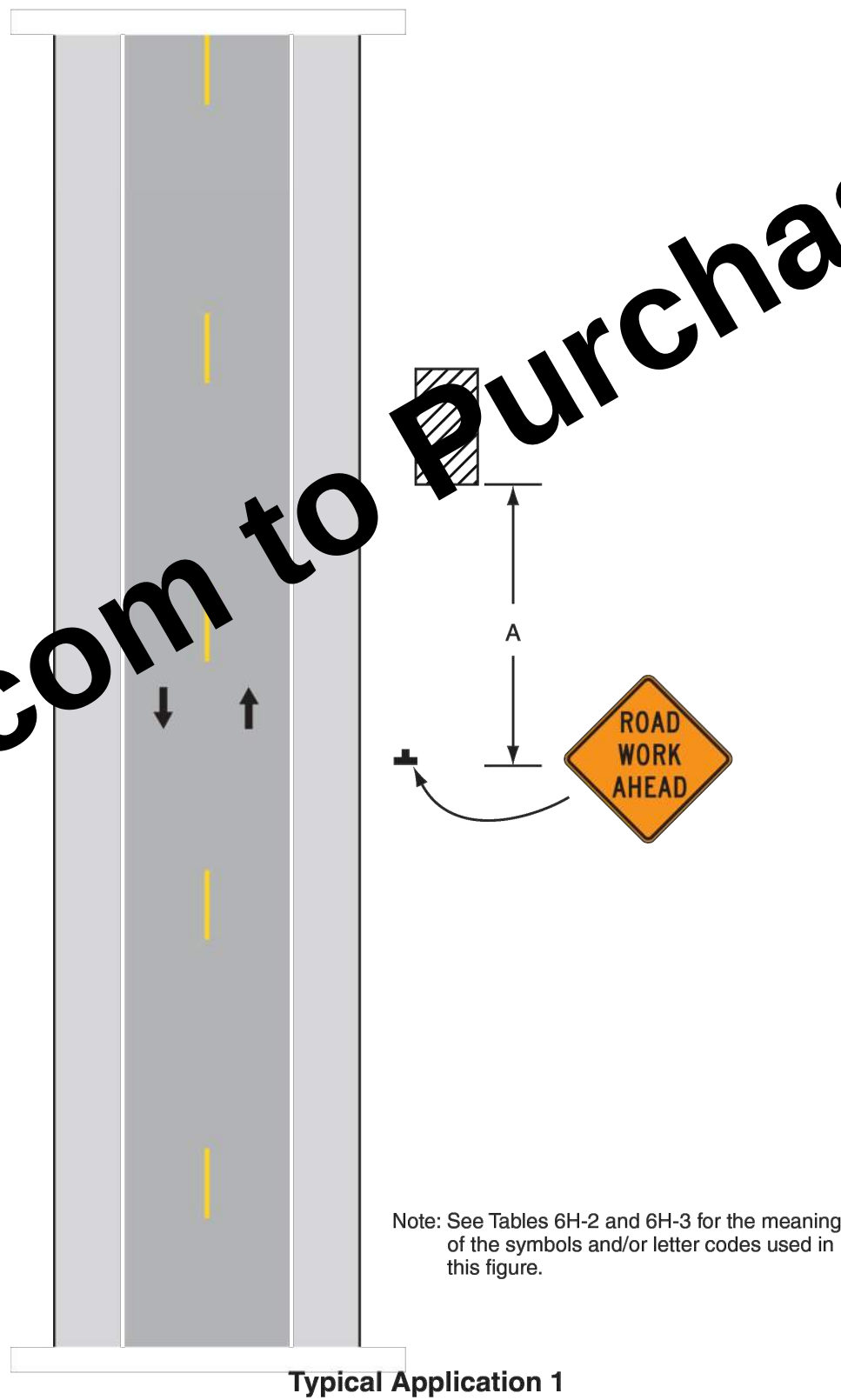
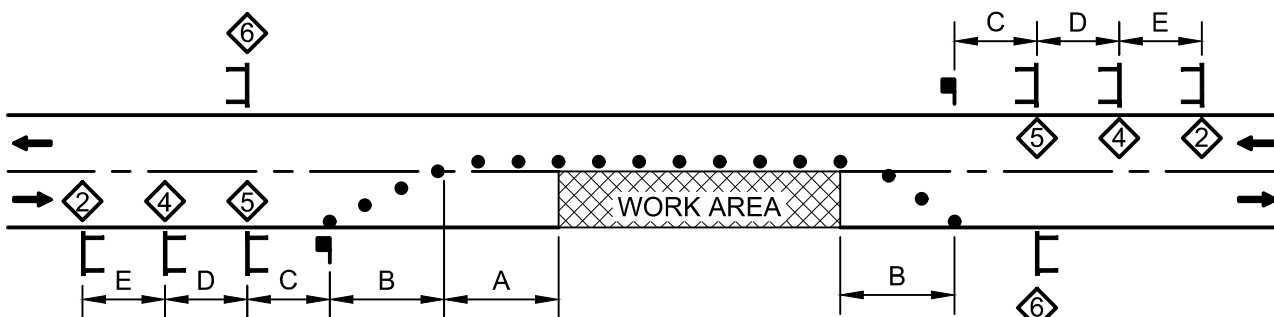
* Speed category to be determined by highway agency
** Distances are shown in meters (feet). The column headings A, B, and C are the dimensions shown in Figures 6H-1 through 6H-4b. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The third sign is the first one in a three-sign series encountered by a driver approaching a TTC zone.)

Table 6H-4. Formulas for Determining Taper Lengths

Speed Limit (S)	Taper Length (L) Meters	Speed Limit (S)	Taper Length (L) Feet
60 km/h or less	$L = \frac{WS^2}{155}$	40 mph or less	$L = \frac{WS^2}{60}$
70 km/h or more	$L = \frac{WS}{1.6}$	45 mph or more	$L = WS$

Where: L = taper length in meters (feet)
W = width of offset in meters (feet)
S = posted speed limit, or off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in km/h (mph)

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



TEMPORARY FLAGGER OPERATION

SCALE: NONE

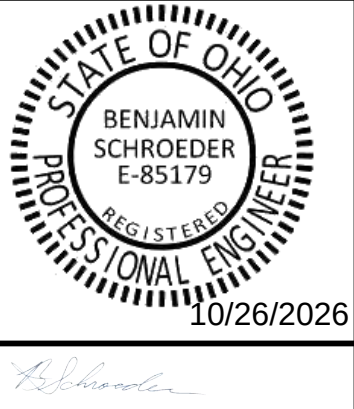
SPEED (MPH)	DISTANCE (FEET)				
	A	B	C	D	E
20 OR LESS	120	100	100	100	100
25	160	100	100	100	100

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

ADVANCE WARNING SIGN AND
FLAGGER OPERATION SPACING

SCALE: NONE

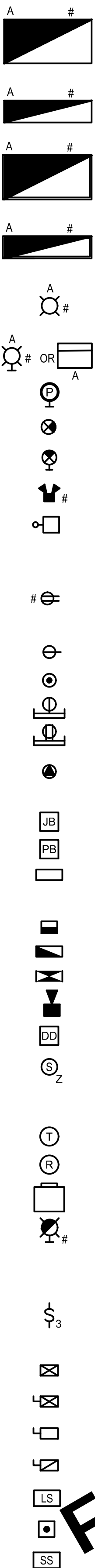
SCALE VERIFICATION BAR IS ONE INCH LONG ON ORIGINAL DRAWING 	DRAWN BY	MRE	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
	CHECKED BY	BJS				
	APPROVED BY	BJS				
	ISSUE DATE					
	SEPTEMBER 2026					
	PROJECT NUMBER					
	708025-04-001					



WASTEWATER GRINDER STATION AND LOW PRESSURE SEWER	
HARDIN NORTHERN LOCAL SCHOOL DISTRICT DUNKIRK, OHIO	
MAINTENANCE OF TRAFFIC DETAILS	

SHEET NO.	16
TOTAL SHEETS	19

Drawing: X:\Hardin N Local School District\708025-EL.dwg | Layout: 16 | Plotted: 09/29/26 @ 03:23:11 | LastSavedBy: Michelle



LIGHTING

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

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

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

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

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

WALL MOUNTED FIXTURE
LETTER DENOTES TYPE, # DENOTES CIRCUIT

WALL MOUNTED PHOTOCELL

CEILING MOUNTED EXIT SIGN

WALL MOUNTED EXIT SIGN

EMERGENCY LIGHT FIXTURE
DENOTES CIRCUIT

POLE MOUNTED FIXTURE

RECEPTACLE
DUPLX RECEPTACLE
SUBSCRIPT DENOTES TYPE: UPS
DENOTES UNINTERRUPTIBLE POWER SUPPLY
DENOTES CIRCUIT

SINGLE OUTLET RECEPTACLE

SPECIAL PURPOSE OUTLET

MULTI-OUTLET RECEPTACLE SINGLE

MULTI-OUTLET RECEPTACLE DUPLEX

240 VOLT RECEPTACLE

PANELS AND BOXES
JUNCTION BOX

PULL BOX

PANEL

HVAC AND FIRE ALARM
FIRE ALARM PULL STATION

FIRE ALARM CONTROL PANEL

ANNUNCIATOR

HORN/LIGHT DEVICE

DUCT DETECTOR

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

THERMOSTAT

AMBIENT TEMPERATURE TRANSMITTER

UNIT HEATER

WALL MOUNTED GAS DETECTION FIXTURE

SWITCHES
WALL SWITCH
SUBSCRIPT DENOTES TYPE:
NO SUBSCRIPT DENOTES SINGLE POLE
3 DENOTES 3 WAY M DENOTES MANUAL
4 DENOTES 4 WAY MOTOR STARTER

MOTOR STARTER

COMBINATION MOTOR STARTER

DISCONNECT SWITCH

FUSED DISCONNECT SWITCH

PILOT UNIT SWITCH

LOCAL CONTROL STATION

SPEED SWITCH

WIRING

CONDUIT HOME RUN

CONDUIT EXPOSED

CONDUIT CONCEALED

FLEXIBLE CONDUIT

SCHEMATICS

3-POSITION SELECTOR SWITCH
HAND - OFF - AUTO

PUSHBUTTON SWITCH N.O.
TEXT DENOTES LEGEND PLATE

PUSHBUTTON SWITCH N.C.
TEXT DENOTES LEGEND PLATE

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

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

DISCONNECT SWITCH N.O.

DISCONNECT SWITCH N.C.

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

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

PRESSURE SWITCH N.O.
TEXT DENOTES TAG NUMBER

PRESSURE SWITCH N.C.
TEXT DENOTES TAG NUMBER

LEVEL SWITCH N.O.
TEXT DENOTES TAG NUMBER

LEVEL SWITCH N.C.
TEXT DENOTES TAG NUMBER

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

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

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

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

TORQUE SWITCH
TEXT DENOTES TAG NUMBER

LIMIT SWITCH
TEXT DENOTES TAG NUMBER

CONTACT (NORMALLY OPEN) #
DENOTES COIL NUMBER

CONTACT (NORMALLY CLOSED) #
DENOTES COIL NUMBER

INDICATOR LIGHT - LETTER
DENOTES COLOR

PUSH-TO-TEST INDICATOR LIGHT
LETTER DENOTES COLOR

ELAPSED TIME METER

SOLENOID VALVE

MECHANICAL INTERLOCK CONNECTION

COIL
M DENOTES MOTOR STARTER
CR DENOTES MOTOR CONTROL RELAY
TR DENOTES TIME DELAY RELAY
LC DENOTES LIGHTING CONTACTOR
PR DENOTES INTERPOSING PILOT RELAY
XXX DENOTES REFERENCE LINE NUMBER

SINGLE LINE

EXISTING TO REMAIN

EXISTING TO BE DEMOLISHED

NEW

FUTURE

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

TRANSFORMER
3P/4W
TYPE OF TRANSFORMER

PROTECTIVE RELAY, NUMBER
DENOTES IEEE DEVICE FUNCTION

MEDIUM VOLTAGE DRAWOUT CIRCUIT BREAKER

FUSE

DRAWOUT POWER CIRCUIT BREAKER

MOLDED CASE CIRCUIT BREAKER

THERMAL OVERLOAD RELAY

GROUND

CURRENT TRANSFORMER NUMBER
DENOTES QUANTITY

POTENTIAL TRANSFORMER
NUMBER DENOTES QUANTITY

DRAW-OUT ELEMENT

ALTERNATE OR MANUAL
THRU PANEL OPERATOR SWITCH

MOTOR NUMBER DENOTES
HORSEPOWER

GENERATOR XX NUMBER DENOTES
REQUIRED KW RATING AND VOLTAGE

EQUIPMENT/DEVICE LOCATION SYMBOLS

LOCATED AT MCC, COMBINATION STARTER, OR BYPASS STARTER

LOCATED IN FIELD

LOCATED AT DCU 1A REMOTE I/O RACK

LOCATED AT VFD

MISC PLAN VIEW SYMBOLS

EQUIPMENT CONNECTION

GROUND ROD

INSTRUMENT TRANSMITTER

COMMUNICATIONS

TELEPHONE OR NETWORK DROP

ETHERNET JACK

SINGLE LINE, CONT'D.

LINE REACTOR
X% NUMBER DENOTES PERCENT IMPEDANCE

CAPACITOR

VOLTMETER AND SWITCH

SHUNT TRIP

SURGE PROTECTION DEVICE

LIGHTNING ARRESTOR

KIRK-KEY INTERLOCK

MINI POWER UNIT

VARIABLE FREQUENCY DRIVE

SITE DUCTBANKS

UNDERGROUND CONTROL

UNDERGROUND ELECTRICAL

UNDERGROUND FIBER

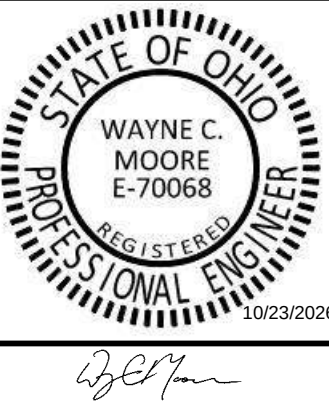
ABBREVIATIONS

A	AMPERE(S)	MAN	MANUFACTURER SUPPLIED (EX. MAN-CP)
ACU	AIR CONDITIONING UNIT	MAU	MAKEUP AIR UNIT
AE	ANALYTICAL SENSOR	MCC	MOTOR CONTROL CENTER
AF	AMP FRAME	MH	MANHOLE
AFF	ABOVE FINISHED FLOOR	MOL	MOTOR OPERATED LOUVER
AHU	AIR HANDLING UNIT	MPU	MINI POWER UNIT
AIT	ANALYTICAL INDICATOR TRANSMITTER	MV	MEDIUM VOLTAGE
AM	AMMETER	N	NEUTRAL
AMP	AMPERE(S)	N/A	NOT APPLICABLE
AT	AMP TRIP	NCS	NORMALLY CLOSED
ATL	ACROSS THE LINE (STARTER)	NEC	NATIONAL ELECTRICAL CODE
ATS	AUTOMATIC TRANSFER SWITCH	NET	NETWORK (PANEL)
AUX	AUXILIARY	NF	NON-FUSED
AWG	AMERICAN WIRE GAGE	NFSS	NON-FUSED SAFETY SWITCH
BKR	BREAKER	N.O.	NORMALLY OPEN
BLDG	BUILDING	NTS	NOT TO SCALE
C	CONDUIT	OL	OVERLOAD
CB	CIRCUIT BREAKER	PB	PUSHBUTTON
CKT	CIRCUIT	PLC	PROGRAMMABLE LOGIC CONTROLLER
CMS	COMBINATION MOTOR STARTER	PM	POWER METER/MONITOR
CP	CONTROL PANEL	PNL	PANEL
CR	CORROSION RESISTANT	PP	POWER PANEL
CU	COPPER	RCPT	RECEPTACLE
DF	DUCT FAN	RGS	RIGID GALVANIZED STEEL
DH	DUCT HEATER	RIO	REMOTE INPUT/OUTPUT
DISC	DISCONNECT	R/S	RING SWITCH
EF	EXHAUST FAN	RVSS	REDUCED VOLTAGE SOFT STARTER
ELEV	ELEVATION	RVAT	REDUCED VOLTAGE AUTOTRANSFORMER
EMH	ELECTRICAL MANHOLE	SF	SUPPLY FAN
EMT	ELECTRICAL METALLIC TUBING	SHLD	SHIELDED
EQUIP	EQUIPMENT	SOL	SOLENOID
EXP	EXPLOSION PROOF	SP	SINGLE POLE
F	FUSED OR FUSE	SPD	SURGE PROTECTIVE DEVICE
FE	FLOW SENSOR	SST	STAINLESS STEEL
FIT	FLOW INDICATING TRANSMITTER	STR	STARTER
FLA	FULL LOAD AMPS	SW	SWITCH
FOPP	FIBER OPTIC PATCH PANEL	SWBD	SWITCHBOARD
FV(N/R)	FULL VOLTAGE (NON) REVERSING	SWGR	SWITCHGEAR
G	GROUND	TB	TERMINAL BOX
GEN	GENERATOR	TPS	TWISTED PAIR SHIELDED
GF	GROUND FAULT	TYP	TYPICAL
GF(C/I)	GROUND FAULT (CIRCUIT) INTERRUPTER	UGE	UNDERGROUND ELECTRICAL
HH-(P/C)	HANDHOLE (POWER/CONTROLS)	UGT	UNDERGROUND TELEPHONE
HOA	HAND-OFF-AUTOMATIC	UGCC	UNDERGROUND CONTROLS CABLE
HOR	HAND-OFF-REMOTE	UGF	UNDERGROUND FIBER
HP	HORSEPOWER	UH	UNIT HEATER
JB	JUNCTION BOX	UL	UNDERWRITERS LABORATORIES
KV	KILOVOLTS	UNO	UNLESS NOTED OTHERWISE
KVA	KILOVOLTS AMPS	V	VOLTS
KVAR	KILOVAR	VFD	VARIABLE FREQUENCY DRIVE
KW	KILOWATTS	VM	VOLTMETER
LCP	LOCAL CONTROL PANEL	VS	VOLTMETER SWITCH
LCS	LOCAL CONTROL STATION	W	WIRE/WATT
LE	LEVEL SENSOR	WH	WATER HEATER
LIT	LEVEL INDICATING TRANSMITTER	WP	WEATHERPROOF
LOR	LOCAL-OFF-REMOTE	XFMR	TRANSFORMER
LP	LIGHTING PANEL		
LTG	LIGHTING		
LV	LOW VOLTAGE		

GENERAL NOTES:

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

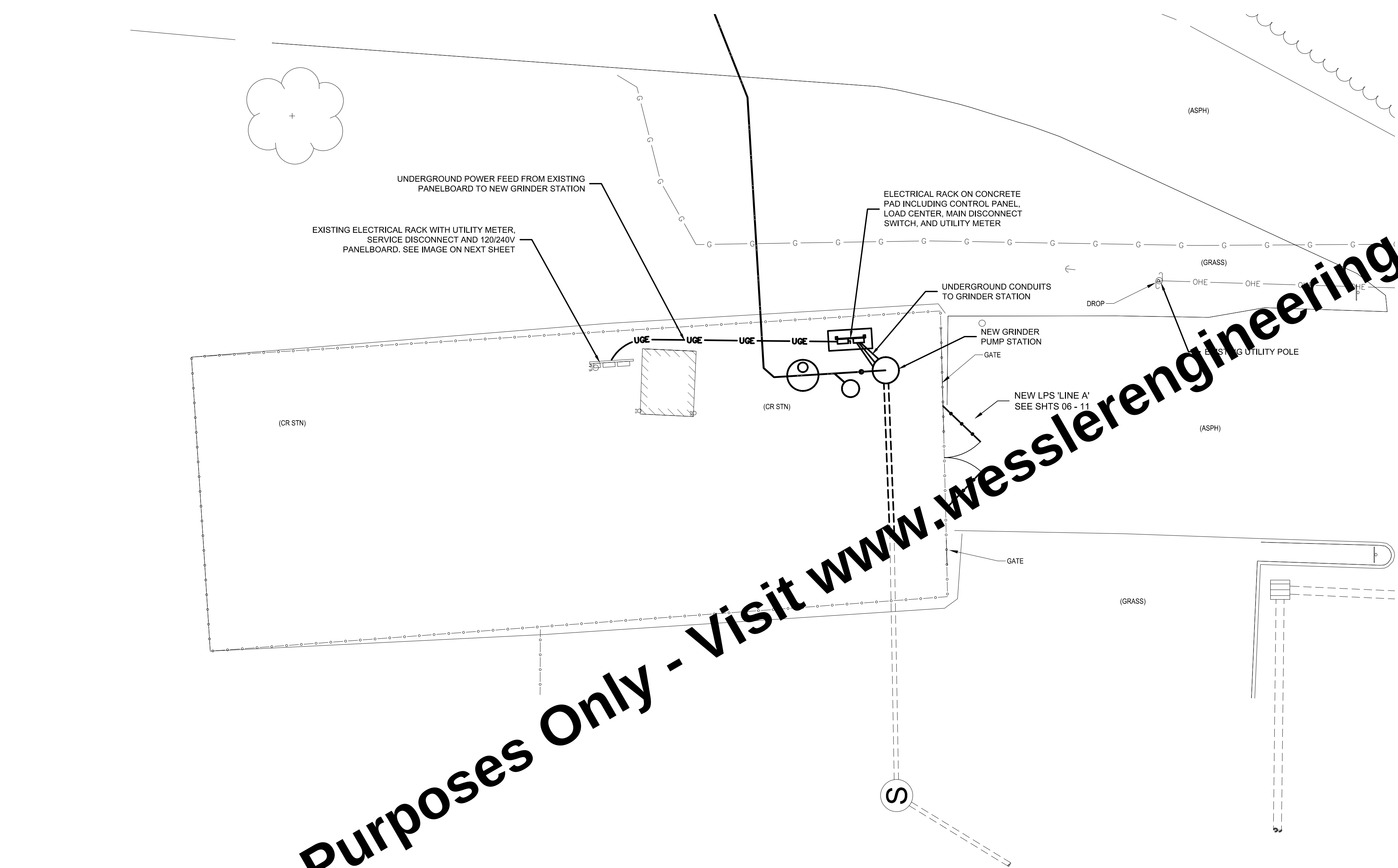
SCALE VERIFICATION	DRAWN BY	JLK	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	JAP				
	APPROVED BY	WCM				
	ISSUE DATE					
	SEPTEMBER 2026					
	PROJECT NUMBER					
		708025-04-001				



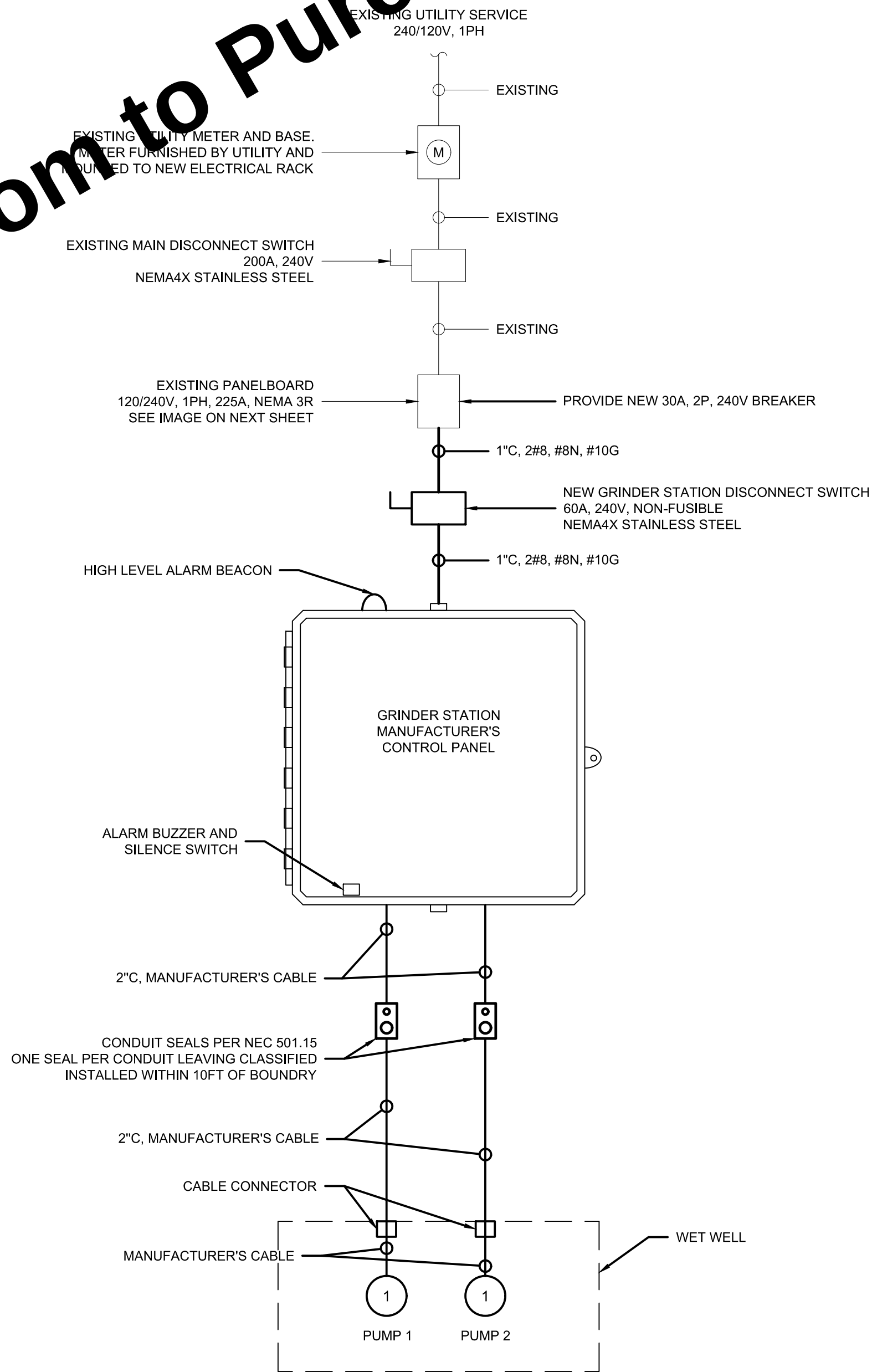
WASTEWATER GRINDER STATION AND LOW PRESSURE SEWER
HARDIN NORTHERN LOCAL SCHOOL DISTRICT DUNKIRK, OHIO
ELECTRICAL LEGEND

SHEET NO.
17
TOTAL SHEETS
19

Drawing: X:\Hardin N Local School District\708025-Hardin N LSO Lift Station\DWG\Sheets\708025-EL.dwg | Layout: 17 | Plotted: 09/29/26 @ 02:23:20 | LastSavedBy: Michelle



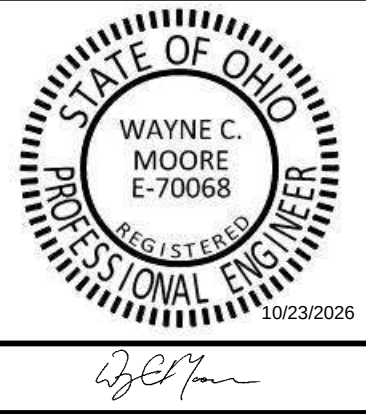
ELECTRICAL SITE PLAN
SCALE: NONE



GRINDER STATION ONE-LINE DIAGRAM
SCALE: NONE

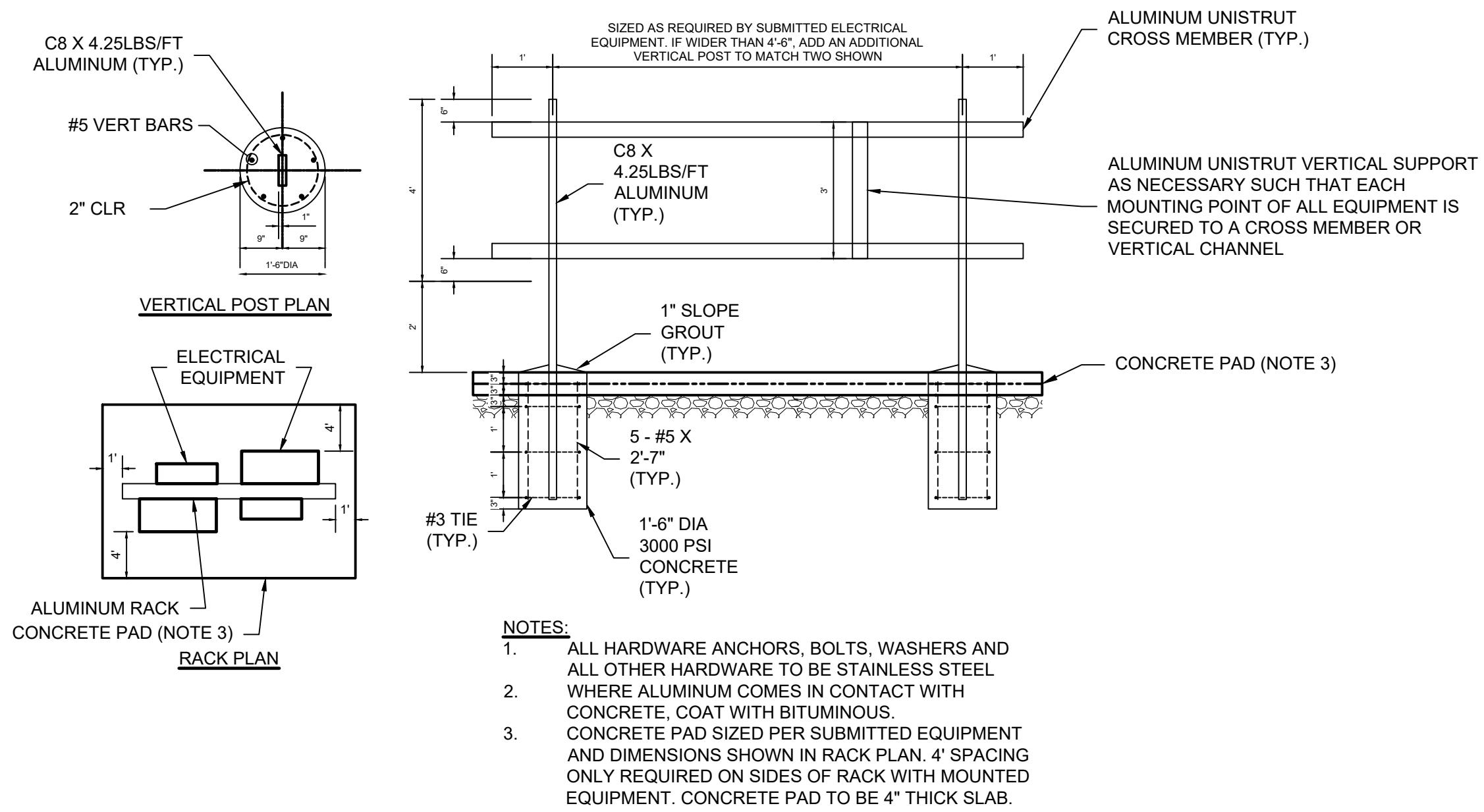
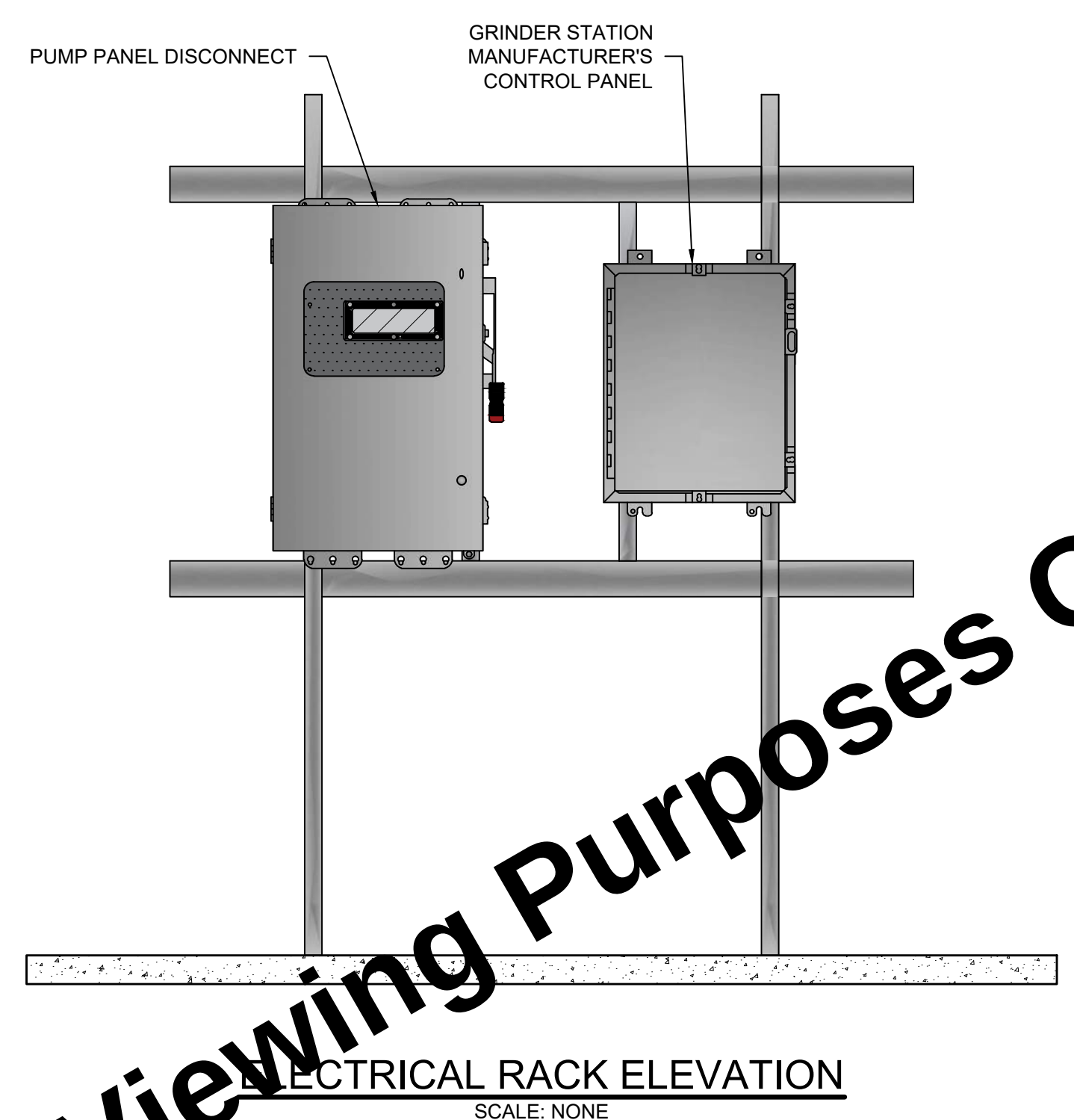
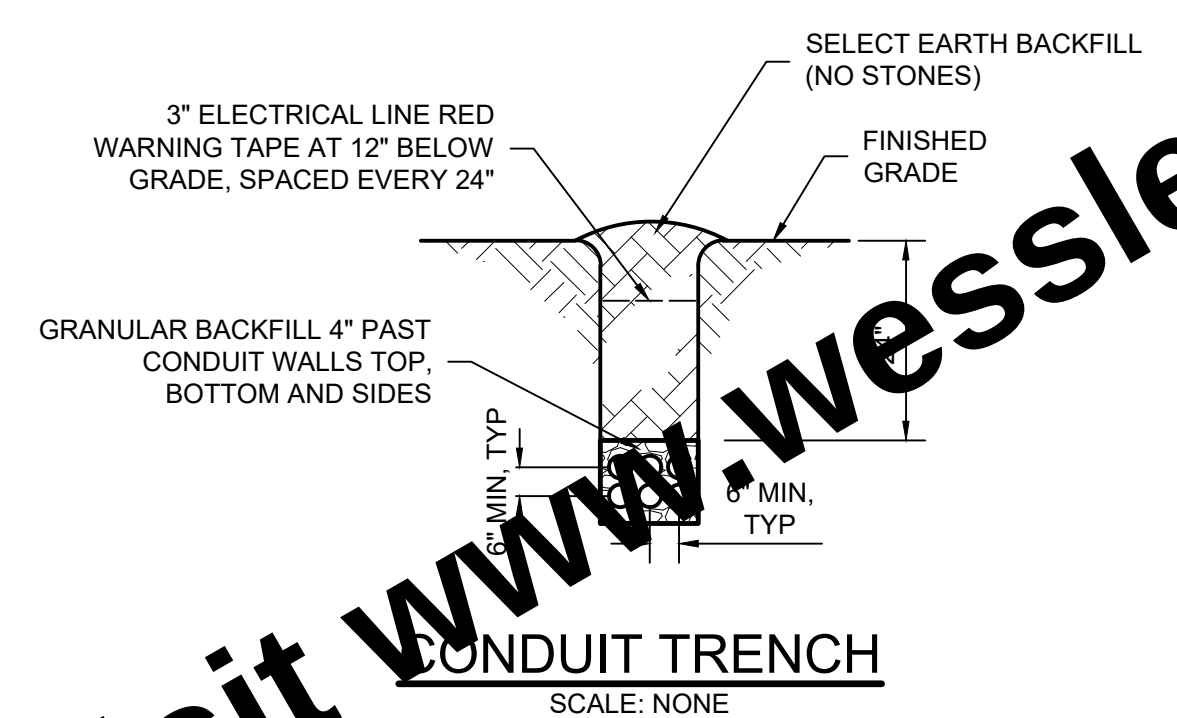
For Viewing Purposes Only - Visit www.wesslerengineering.com to Purchase

SCALE VERIFICATION	DRAWN BY	JLK	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING 	CHECKED BY	JAP				
	APPROVED BY	WCM				
	ISSUE DATE					
	SEPTEMBER 2026					
	PROJECT NUMBER					
		708025-04-001				

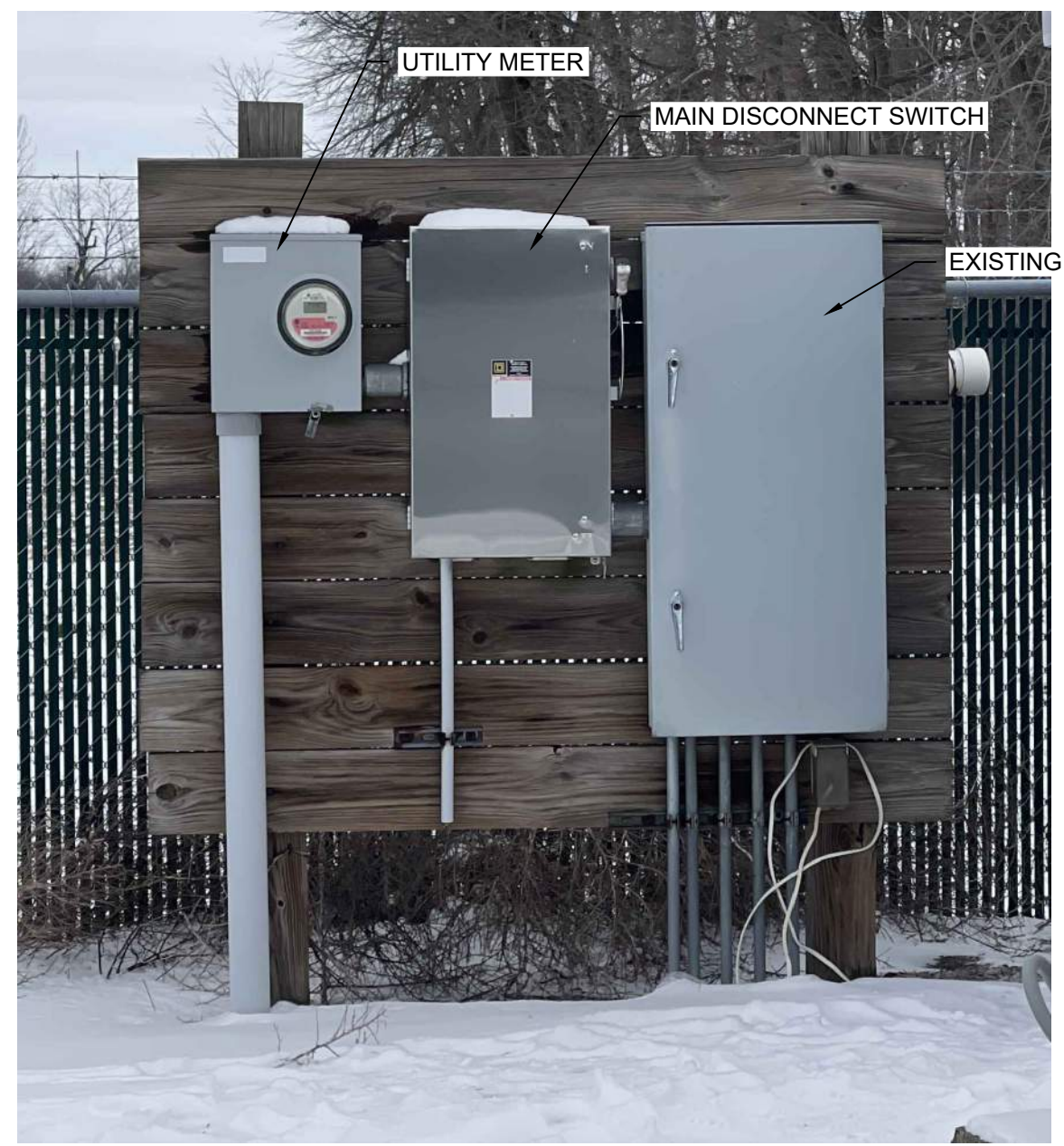


WASTEWATER GRINDER STATION AND LOW PRESSURE SEWER	SHEET NO.
HARDIN NORTHERN LOCAL SCHOOL DISTRICT DUNKIRK, OHIO	18
ELECTRICAL SITE PLAN AND ONE LINE DIAGRAM	TOTAL SHEETS 19

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

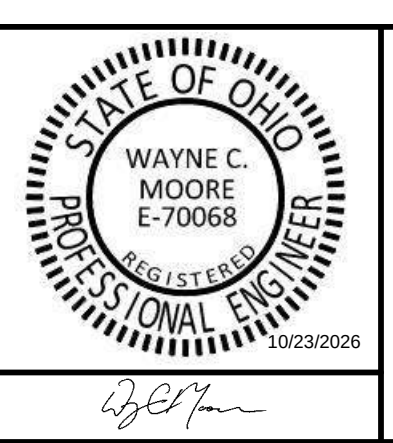


EXISTING 120/240V PANELBOARD MODIFICATION
SCALE: NONE



EXISTING ELECTRICAL RACK - FOR REFERENCE
SCALE: NONE

SCALE VERIFICATION	DRAWN BY	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY				
	APPROVED BY				
	ISSUE DATE				
	PROJECT NUMBER				
	708025-04-001				



WASTEWATER GRINDER STATION AND LOW PRESSURE SEWER	SHEET NO.
HARDIN NORTHERN LOCAL SCHOOL DISTRICT DUNKIRK, OHIO	19
ELECTRICAL DETAILS	TOTAL SHEETS
	19