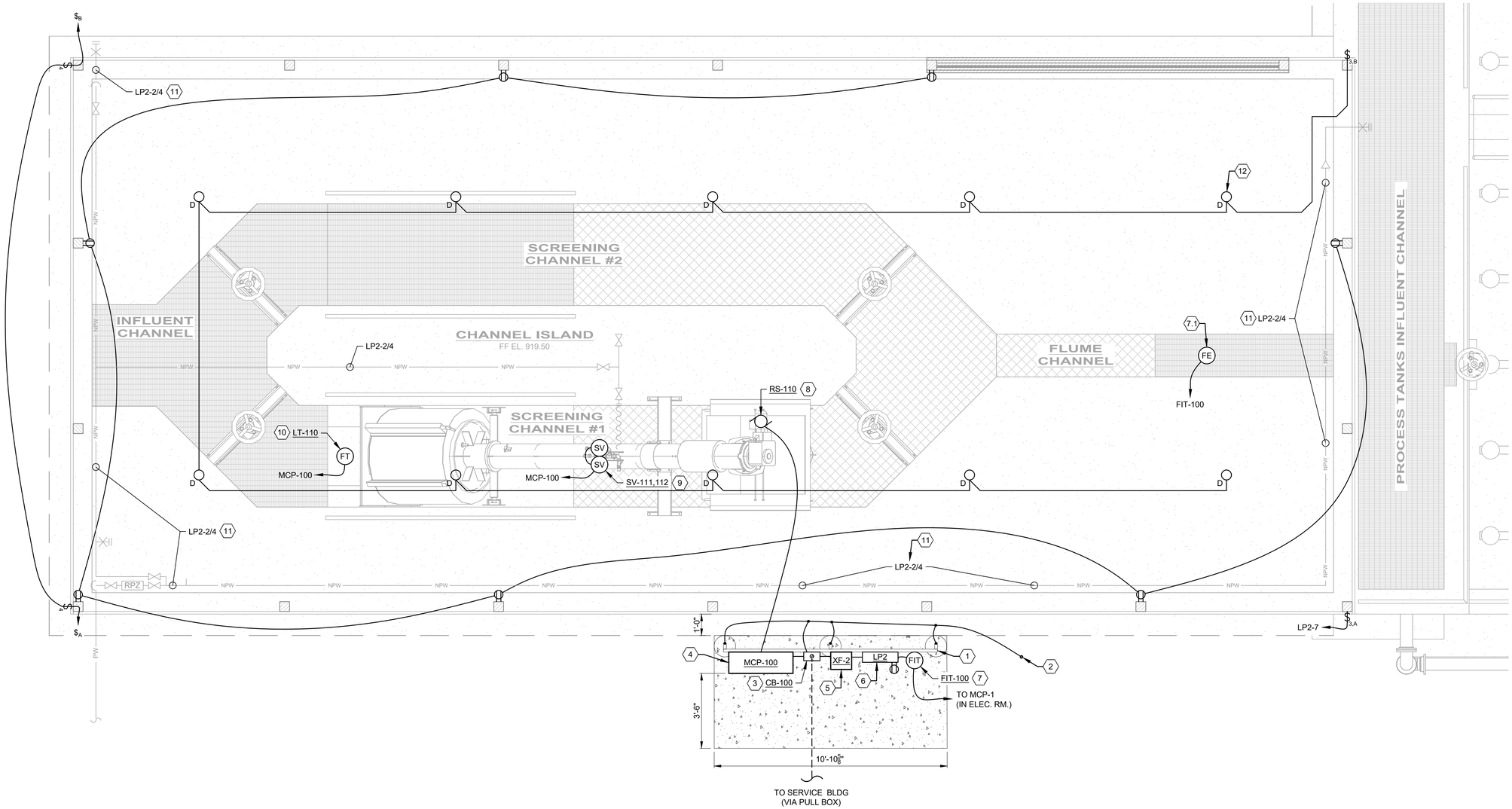


SCREENING BUILDING - ELECTRICAL PLAN

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

GENERAL NOTES:

1. ALL PROPOSED UNDERGROUND DUCT BANKS TO UTILIZE 36" SWEEPS, MINIMUM.
2. CONTRACTOR TO INSTALL METAL-FRAMED CANOPY OVER SCREENING CHANNELS AREA TO A HEIGHT OF 14' ATOC. WALLS TO REMAIN MOSTLY OPEN WITH ONLY THE SIDING NEEDED FOR WINDBREAKS TO BE INSTALLED. ARCHITECTURAL BACKGROUNDS REFLECT ASSUMED SUPPORT LOCATIONS, MODIFY ARRANGEMENT OF ELECTRICAL EQUIPMENT AS NEEDED.
3. A CLASS I, DIVISION 2 HAZARDOUS AREA EXTENDS FROM THE TOP OF THE CONCRETE CHANNELS CONTAINING WASTEWATER. THE EXTENTS ARE 18" HIGH x 10' FROM THE OUTER WALL EDGES. ALL EQUIPMENT INSTALLED WITHIN THIS AREA MUST MEET NEC ART. 500 & 501.
4. ALL RECEPTACLES AND TOGGLE SWITCHES TO BE INSTALLED ON BUILDING SUPPORTS AT A HEIGHT OF 48" AFF. WITH WEATHERPOOF IN-USE COVERS.

(X) CODED NOTES - PROPOSED:

1. SCREENING BLDG ELECTRICAL EQUIPMENT RACK CONSISTING OF:
   - 1.1. SS SLOTTED SUPPORT CHANNEL, UNISTRUT #P1001 FOR VERTICAL MEMBERS & #P1000 FOR HORIZONTAL. VERTICAL MEMBERS TO BE INSTALLED IN-GRADE TO A MIN. DEPTH OF 3'-6" AND SECURED WITH CONCRETE SURROUND OF 1'Ø, CONCRETE TO EXTEND BENEATH BOTTOM OF STRUT 3", MIN.
   - 1.2. GROUNDING GRID CONSISTING OF BARE STRANDED COPPER CONDUCTORS PER ONE-LINE DIAGRAM BONDED TO EACH VERTICAL MEMBER, GROUNDING ROD, FOUNDATION REBAR LONGER THAN 20', AND UNDERGROUND PROCESS PIPING VIA EXOTHERMIC WELDS.
   - 1.3. 6" DEEP CONCRETE PAD EXTENDED OUT TO DIMENSIONS AS SHOWN
   - 1.4. BUILDING MAIN CIRCUIT BREAKER (NOTE #3)
   - 1.5. ROTARY SCREEN CONTROL PANEL (NOTE #4)
   - 1.6. LIGHTING TRANSFORMER AND DISTRIBUTION PANEL (NOTES #5 & #6)
   - 1.7. PLANT INLET FLOW METER (NOTE #7)
   - 1.8. CONVENIENCE RECEPTACLE
   - 1.9. SMALL LED FLOOD LIGHT WITH LOCAL LIGHT SWITCH W/ WEATHERPROOF IN-USE COVER, 10k MIN. LUMEN OUTPUT, WIDE RECTANGULAR PATTERN, INSTALLED AT A MIN. HEIGHT OF 10'
2. 3/4" Ø X 10' LG COPPER-CLAD GROUND ROD, DRIVEN TO 3' MIN. BELOW GRADE, EXOTHERMICALLY WELDED TO #8 BARE STRANDED COPPER WIRE.
3. SCREENING BLDG MAIN CIRCUIT BREAKER "CB-100", SIZED PER ONE-LINE DIAGRAM, NEMA 4X ENCLOSURE WITH PADLOCKABLE DISCONNECT SWITCH
4. ROTARY SCREEN CONTROL PANEL "MCP=100", VENDOR SUPPLIED, INSTALLED BY CONTRACTOR ON EQUIPMENT RACK (NOTE #1).
5. SCREENING BUILDING LIGHTING TRANSFORMER, 7.5 kVA, 1ϕ, 480-240/120V, NEMA 4X ENCLOSURE
6. SCREENING BUILDING LIGHTING PANEL "LP2", 240/120V, 1ϕ, 100A BUS, 30A MCB, 12 SPACES, MIN., NEMA 4X ENCLOSURE
7. PLANT INLFUENT FLOW METER "FIT-100", NEMA 4X ENCLOSURE, 4-20 mA SIGNAL WIRED TO PLANT SCADA PLC MCP-1
   - 7.1. ULTRASONIC SENSOR "FE-100", INSTALLED ABOVE PARSHALL FLUME WITH MANUFACTURER'S CABLE TERMINATED IN FIT-100
8. ROTARY SCREEN MOTOR, 460V / 3ϕ / 60 Hz / 2 HP, WIRED TO FEEDER F-19
9. ROTARY SCREEN WASH WATER SOLENOID VALVES, "SV-111" & "SV-112", EACH WIRED WITH (2) #14 + (1) #14 GND IN 3/4"C
10. ROTARY SCREEN INLET WATER LEVEL TRANSMITTER "LT-110", RADAR TYPE, SUPPLIED BY VENDOR, INSTALLED BY CONTRACTOR PER MANUFACTURER'S SHOP DRAWINGS.
11. NON-POTABLE WATER PIPING HEAT TRACE, APPROX. 300' OF 5W/FT CABLE WIRED TO 240V PER LIGHTING PANEL SCHEDULE THIS SHEET.
12. LIGHTING FIXTURE TYPE "D", LOW BAY, 10k LUMEN OUTPUT, INSTALLED SUSPENDED FROM CEILING 1.5' WITH YOKE TYPE ASSEMBLY.

PANELBOARD	LP2		
PANEL TYPE	NQOD OR EQUAL		
NEMA TYPE	NEMA 4X		
VOLTAGE	240V/120V	PHASE	1
OCPD	30A	WIRE	3
MOUNTING	SURFACE	BUSS	100A

LOAD DESCRIPTION	LOAD	BKR.	CKT. NO.	PHASE	CKT. NO.	BKR.	LOAD	LOAD DESCRIPTION
SURGE PROTECTION DEVICE	0	30/2	1	A	2	15/2	1500	HEAT TRACING
			3	B	4			
RECEPTACLES	1440	20/1G	5	A	6	15/1	100	INFLUENT FLOW METER, FIT-100
BUILDING LIGHTS	823	15/1	7	B	8	15/1	180	SPARE
SPARE		15/1	9	A	10	20/1		SPARE
			11	B	12			

4043 VA CONNECTED
4649.5 VA DEMAND
19.37 A @ 240/120V, 1P, 3W

SCREENING BLDG LIGHTING PANEL "LP2" SCHEDULE

NOTE: CIRCUIT BREAKERS LABELED "xx/yG" DESIGNATE GFCI TYPE

BID SET

verdantas

NO	REVISION	DATE
1	ADDENDUM #3	9/30/2026

BIDDING
ISSUED FOR: BIDDING
ISSUE DATE: 7/20/2026
SCALE: AS NOTED
DESIGNED BY: ----
DRAWN BY: ----
CHECKED BY: ----

ADAMS COUNTY
NORTH ADAMS REGIONAL WASTEWATER TREATMENT PLANT
WINCHESTER, OHIO
ADAMS COUNTY
ELECTRICAL - E SERIES
SCREEN BLDG - POWER & INSTR. PLAN

PROJECT NO. 200619
DISCIPLINE ELECTRICAL
SHEET NAME E-05
SHEET 68 OF 79

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