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DRAWING FILE: P:400-6314 SWEETSER WW IMPROVEMENTS
ACAD/PLAN SHEETS & WORKING DRAWINGS
400-6314 - ELECTRICAL SYMBOLS AND ABBREVIATIONS.DWG

ELECTRICAL SYMBOLS - PLANS			
CLG.	WALL	FLOOR	SYMBOLS DESCRIPTION
			INCANDESCENT OR HID FIXTURE
			LED FIXTURE - CIRCLE INDICATES J-BOX ABOVE
			AREA LIGHT AND POLE
			LIGHTING FIXTURE WITH EMERGENCY BATTERY BACKUP
			EXIT FIXTURE, ARROWS AS INDICATED, SHADE AREA INDICATES EXIT FACE
			EMERGENCY LIGHTING UNIT (BATTERY POWERED)
			FIXTURE CONNECTED TO CKT #1, SWITCH "B"
			FIXTURE TYPE "A", 2-40 WATT LAMPS TYPICAL FOR ROOM NOTED, UON
			DUPLEX RECEPTACLE
			DUPLEX RECEPTACLE GFCI TYPE
			DOUBLE DUPLEX RECEPTACLE
			RECEPTACLE, TYPE AS NOTED ON PLANS
			SINGLE POLE SWITCH
			DOUBLE POLE SWITCH
			THREE WAY SWITCH
			FOUR WAY SWITCH
			"b" DENOTES OUTLET CONTROLLED
			KEY OPERATED SWITCH
			MANUAL MOTOR STARTER
			OCCUPANCY SENSOR
			TELEPHONE OUTLET
			DATA OUTLET
			TELEPHONE/DATA OUTLET COMBO
			THERMOSTAT OUTLET + 66" UON
			JUNCTION BOX FOR WALL MOUNT
			INDICATES HEIGHT FROM FINISHED FLOOR GRADE TO CENTERLINE OF DEVICE
			+ 18" UON
			+ 48" UON
			CONTROLLER/STARTER FURNISHED WITH EQUIPMENT
			DETAIL CALL-OUT: X, DETAIL IDENTIFIER; Y, SHEET WHERE DETAIL IS DRAWN
			POWER DISTRIBUTION SWITCHBOARD
			SURFACE MOUNTED PANELBOARD
			FLUSH MOUNTED PANELBOARD
			SHEET NOTE, SEE NOTE INDICATED
			DEVICE CONNECTION POINT
			INTERCEPTION POINT FROM EXISTING TO NEW

	HAND HOLE, 11"H X 17"L X 12" D, UON
	PULLBOX, 36"H X 60"L X 36"D, UON
	PAD MOUNTED TRANSFORMER/ DRY TYPE TRANSFORMER
	NON-FUSIBLE DISCONNECT SWITCH, SIZE AS NOTED ON ONE-LINE DIAGRAM
	FUSIBLE DISCONNECT SWITCH, 3P UON SIZE AS NOTED ON ONE-LINE DIAGRAM
	DISCONNECT WITH EMERGENCY STOP
	FIELD CONTROL STATION SEE SCHEMATIC DIAGRAM
	FEEDER DESIGNATION SEE SCHEDULE FOR SIZE
	EQUIPMENT TAG
	CONDUIT CONCEALED IN WALLS OR CEILING 3/4"C, 2 - #12, 1 - #12G, UON
	CONDUIT UNDER GROUND 3/4" C., 2 - #12; 1 - #12G, UON
	CONDUIT EXPOSED 3/4" C., 2 - #12, 1 - #12G, UON
	QUANTITY #12 WIRE CURVE LINE INDICATES GROUND WIRE
	WIRE SIZE OTHER THAN #12 CURVE LINE INDICATES GROUND WIRE
	CONDUIT STUBBED UP INTO EQUIPMENT AND PLUGGED
	NUMBER OF 18 AWG TWISTED SHIELDED PAIR CABLE
	CONNECTION TO GROUND BUS
	GROUNDING CONDUCTOR 30" BELOW GRADE, #4/O UON
	GROUND ROD, 3/4" X 10' - 0" GW NEXT TO SYMBOL INDICATES GROUND ROD IN HANDHOLE
	EXOTHERMIC WELD CONNECTION
	DUCT BANK
	EXISTING UNDERGROUND ELECTRICAL
	HOMERUN TO PANEL A, CIRCUIT 1 AND 3
	CONDUIT BENDS TOWARD OBSERVER
	CONDUIT BENDS AWAY FROM OBSERVER
	CONDUIT STUB-OUT AND CAPPED
	FLEXIBLE CONDUIT CONNECTION
	MOTOR CONNECTION
	MOTOR CONNECTION, DISCONNECT FURNISHED WITH MOTOR
	SOLENOID VALVE
	DISCONNECTS OR COMBINATION STARTERS SERVING EQUIPMEN SHOWN, PROVIDE CONNECTING FEEDERS BETWEEN DEVICES, SIZE TO MATCH SERVING FEEDER.

ELECTRICAL SYMBOLS - ONE-LINE DIAGRAM	
	DIGITAL MULTI-FUNCTION METER
	CURRENT TRANSFORMER, QUANTITY INDICATED
	POTENTIAL TRANSFORMER, QUANTITY INDICATED
	POWER TRANSFORMER
	FEEDER DESIGNATION - SEE SCHEDULE OR ONE-LINE DIAGRAM FOR SIZE
	CIRCUIT BREAKER, 3 POLE UNLESS NOTED MCP INDICATES MOTOR CIRCUIT PROTECTOR
	MAGNETIC MOTOR STARTER, NEMA SIZE INDICATED FULL-VOLTAGE NON-REVERSING UNLESS NOTED RV=REDUCED VOLTAGE STARTING 2S, 2W = 2 SPEED, 2 WINDING
	FUSE
	DISCONNECT SWITCH, NON-FUSIBLE, SEE PLANS FOR RATING
	DISCONNECT SWITCH, FUSIBLE, SEE PLANS FOR RATING
	MOTOR, X = HORSEPOWER
	GENERATOR
	SURGE ARRESTER
	GROUND
	DELTA CONNECTION
	WYE CONNECTION
	POWER FAILURE RELAY
	VARIABLE FREQUENCY DRIVE
	SOLID STATE STARTER
	CONTROLLER/STARTER FURNISHED WITH EQUIPMENT
	GROUND FAULT PROTECTION
	INCOMING ELECTRIC SERVICE
	UNDERGROUND CONDUIT ENTRY TO BOTTOM OF PANEL
	INCOMING CONDUIT ENTRY TO TOP OF PANEL

POWER WIRE COLOR CODE					
SYSTEM	PHASE A	PHASE B	PHASE C	NEUTRAL	GROUND
208Y/120V	BLACK	RED	BLUE	WHITE	GREEN
480Y/277V	BROWN	ORANGE	YELLOW	GREY	GREEN

ELECTRICAL SYMBOLS - SCHEMATIC DIAGRAMS		
NORMALLY OPEN	NORMALLY CLOSED	DEVICE
		CONTACT
		TIMED CONTACT CONTACT ACTION RETARDED ON ENERGIZATION
		TIMED CONTACT CONTACT ACTION RETARDED ON DE-ENERGIZATION
		PUSH BUTTON SINLGE CIRCUIT MOMENTARY CONTACT
		PUSH BUTTON SINGLE CIRCUIT LOCK-OUT
		LIMIT SWITCH
		LIQUID LEVEL SWITCH
		PRESSURE OR VACUUM SWITCH
		FLOW SWITCH
		TEMPERATURE SWITCH
		SELECTOR SWITCH - CAN BE 2-WAY OR 3-WAY
		MANUAL MOTOR STARTER
		DOOR INTERLOCK SWITCH
		MOTOR OVERLOAD RELAY CONTACT
		MOTOR OVERLOAD HEATER
		PILOT LIGHT R=RED, W=WHITE, G=GREEN, A=AMBER, C=CLEAR
		PILOT LIGHT-PUSH TO TEST
		RELAY
		TIME DELAY RELAY
		STARTER COIL
		SOLENOID OPERATED VALVE
		MOTOR
		BELL OR BUZZER
		ELAPSED TIME METER
		FUSE
		CONTROL POWER TRANSFORMER
		GROUND
		WIRING IN MOTOR STARTER OR CONTROL PANEL
		FIELD WIRING
		TERMINAL BLOCK IN FCS
		TERMINAL BLOCK IN MOTOR STARTER OR PANEL
		TERMINAL BLOCK IN PLC
		POWER FAIL RELAY
		SPACE HEATER
		RESISTOR
		CIRCUIT BREAKER
		PLC OUTPUT ISOLATION RELAY

FREQUENTLY USED ABBREVIATIONS			
A	AMPERE	MLO	MAIN LUG ONLY
AFF	ABOVE FINISHED FLOOR	MTD	MOUNTED
AFG	ABOVE FINISHED GRADE	MTS	MANUAL TRANSFER SWITCH
AIC	AMPS INTERRUPTING CAPACITY	NA	NOT APPLICABLE
ALT	ALTERNATE	NC	NORMALLY CLOSED
ARCH	ARCHITECT/ARCHITECTURAL	NEC	NATIONAL ELECTRICAL CODE
ATS	AUTOMATIC TRANSFER SWITCH	NF	NON-FUSED
BFG	BELOW FINISHED GRADE	NIC	NOT IN CONTRACT
BPS	BOLTED PRESSURE SWITCH	NL	NIGHT LIGHT
C	CONDUIT	NO	NORMALLY OPEN
CB	CIRCUIT BREAKER	NTS	NOT TO SCALE
CCTV	CLOSED CIRCUIT TELEVISION	OL	OVERLAY RELAY OR OVERLAY CONTACT
CLG	CEILING	P	POLE OR PHASE
CP	CONTROL PANEL	PC	PLUMBING CONTRACTOR
CPT	CONTROL POWER TRANSFORMER	PF	POWER FACTOR
CT	CURRENT TRANSFORMER	PH	PHASE
CJ	COPPER	PT	POTENTIAL TRANSFORMER
DISC	DISCONNECT	PRI	PRIMARY
DP	DOUBLE POLE	PVC	POLYVINYL CHLORIDE
DT	DOUBLE THROW	SN	SOLID NEUTRAL
EC	ELECTRICAL CONTRACTOR	SP	SINGLE POLE
EF	EXHAUST FAN	SPKR	SPEAKER
EM	EMERGENCY	ST	SINGLE THROW SWITCH
EMS	ENERGY MANAGEMENT SYSTEM	SW	SWITCHBOARD
EMT	ELECTRICAL METALLIC TUBING	SWBD	SQUARE
ENG	ENGINEER	SQ	TIME CLOCK
EWC	ELECTRIC WATER COOLER	TC	TIME DELAY
F	FUSED	TD	TAMPER PROOF
FACP	FIRE ALARM CONTROL PANEL	TP	TIMING RELAY
FARA	FIRE ALARM REMOTE ANNUNCIATOR	TR	TD CLOSE TO DENERGIZATION
FDR	FEEDER	TD	TD OPEN ON DENERGIZATION
FDS	FUSED DISCONNECT SWITCH	TDOD	TD CLOSE ON ENERGIZATION
FLR	FLOOR	TDCE	TD OPEN ON DENERGIZATION
FVNR	FULL VOLTAGE NON REVERSING	TDOD	TD OPEN ON ENERGIZATION
G/GND	GROUND	TD	TELEPHONE
GC	GENERAL CONTRACTOR	TEL	TELEPHONE TERMINAL BOARD
GFI	GROUND FAULT INTERRUPTER	TTB	TELEPHONE TERMINAL CABINET
GFP	GROUND FAULT PROTECTOR	TTC	TRANSIENT VOLTAGE SURGE SUPPRESSION
GRS	GALVANIZED RIGID STEEL CONDUIT	TVSS	TYPICAL
HH	HANDHOLE	TYP	VOLT-AMPERE
HP	HORSEPOWER	VA	VARIABLE FREQUENCY DRIVE
HZ	HERTZ	VFD	WIRE OR WATTS
IG	ISOLATED GROUND	W	WIREMOLD (SURFACE MTD)
JB	JUNCTION BOX	WM	WEATHERPROOF
MCM	THOUSAND CIRCULAR MILS	WP	EXPLOSION PROOF
KVA	KILO-VOLT AMPERE	XP	
KVAR	KILO-VOLT AMPERE REACTIVE		
KW	KILOWATT		
MC	MECHANICAL CONTRACTOR		
MCC	MOTOR CONTROL CENTER		
MCB	MAIN CIRCUIT BREAKER		
MCP	MOTOR CIRCUIT PROTECTOR		
MH	MANHOLE		
MIC	MICROPHONE		
Ø	PHASE OR DIAMETER		

GENERAL NOTES
1. FIELD VERIFY EXACT LOCATIONS OF UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK.
2. REFERENCE MECHANICAL AND CIVIL DRAWINGS FOR NEW AND EXISTING PIPING.
3. BELOW GRADE CONDUITS SHALL BE INSTALLED A MINIMUM DEPTH OF 18" BELOW THE FINISHED FLOOR/GRADE OR 18" BELOW ANY PIPE CROSSING THE CONDUIT PATH WHICHEVER IS DEEPER DOWN TO 5 FEET.
4. REFER TO CONDUIT AND WIRING SCHEDULE FOR CONDUIT AND WIRE REQUIREMENTS. ALL C, L & P DESIGNATED CONDUITS SHALL BE ROUTED THROUGH PPB PULL BOXES AND A & D DESIGNATED CONDUITS SHALL BE ROUTED THROUGH SPB PULL BOXES.
5. PROVIDE ELECTRICAL SYSTEM TESTING PER CONTRACT SPECIFICATION SECTION PRIOR TO ENERGIZING ANY ELECTRICAL EQUIPMENT OR SERVICES.



SWEETSER WASTE WATER IMPROVEMENTS

SWEETSER, INDIANA, 46987

#	Revision	Date

Project #: 400-6314

Designed By: JAR

Drawn By: JAR

Checked By: ALC & DB

Date: 08/14/2026



ELECTRICAL SYMBOLS AND ABBREVIATIONS

E100



Call 811 or 800-382-5544 Before you Dig!

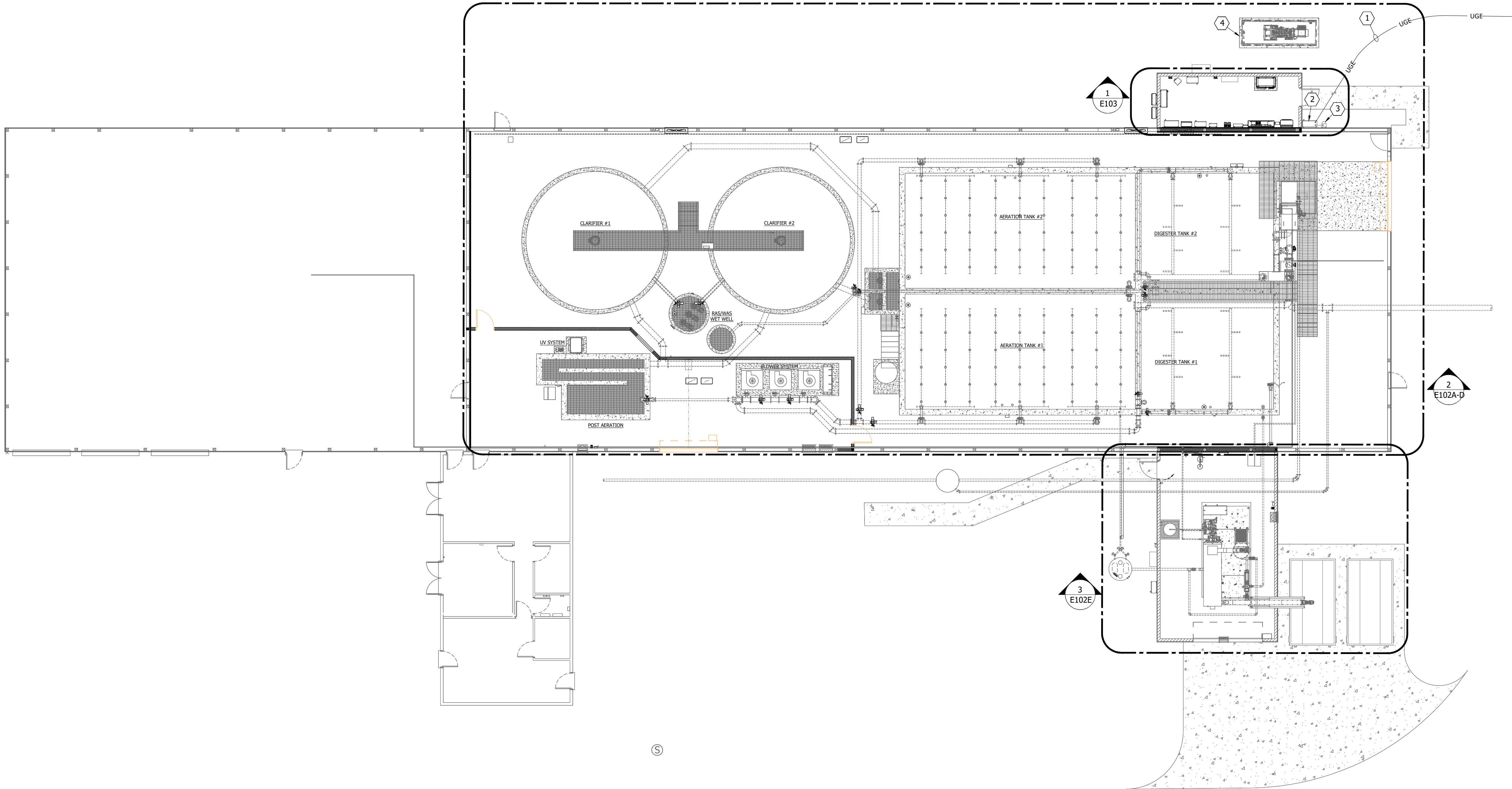
GENERAL STATEMENT APPLICABLE TO ALL SHEETS:

- THIS WASTEWATER TREATMENT PLANT (WWTP) IS A PRE-EXISTING STRUCTURE WITH PREVIOUSLY DESIGNED AND INSTALLED EQUIPMENT AND PROCESS.
- THIS WWTP IS A C1D1 ENCLOSED STRUCTURE. THE PROPOSED VENTILATION AND SAFETY EQUIPMENT IN THESE PROPOSED DRAWINGS AND SPECIFICATIONS ARE PREPARED TO DERATE TO C1D2 PER NFPA 820 REQUIREMENTS. ALL EXISTING EQUIPMENT MAY OR MAY NOT MEET THE RATINGS FOR THIS FACILITY. ALL EXISTING EQUIPMENT IS NOT WITHIN THE JURISDICTION OF THIS PROJECT DESIGN SCOPE.
- ANY EXISTING EQUIPMENT, CONDUIT OR WIRING REPLACED DURING THIS PROJECT SHALL COMPLY WITH C1D2 RATINGS PER NEC AND NFPA 820 REQUIREMENTS.
- ALL PROPOSED EQUIPMENT, CONDUIT AND WIRING SHALL COMPLY WITH THE C1D2 RATING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH NEC AND NFPA 820 REQUIREMENTS FOR A C1D2 RATED AREA.

ELECTRICAL KEYED NOTES

- EXISTING UNDERGROUND ELECTRICAL, 120/208V, 3PH, 1200A SERVICE FROM UTILITY. TO REMAIN.
- EXISTING UTILITY CT CABINET. TO REMAIN.
- EXISTING UTILITY METER. TO REMAIN.
- EXISTING GENERATOR. TO REMAIN.

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SWEETSER WASTE WATER
IMPROVEMENTS

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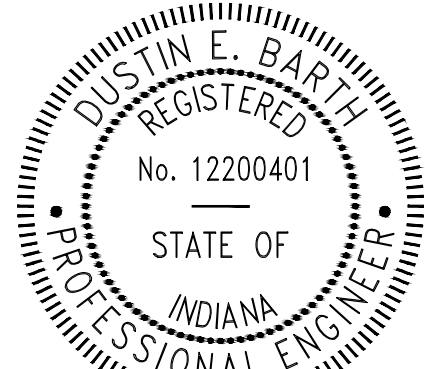
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Dustin Barth



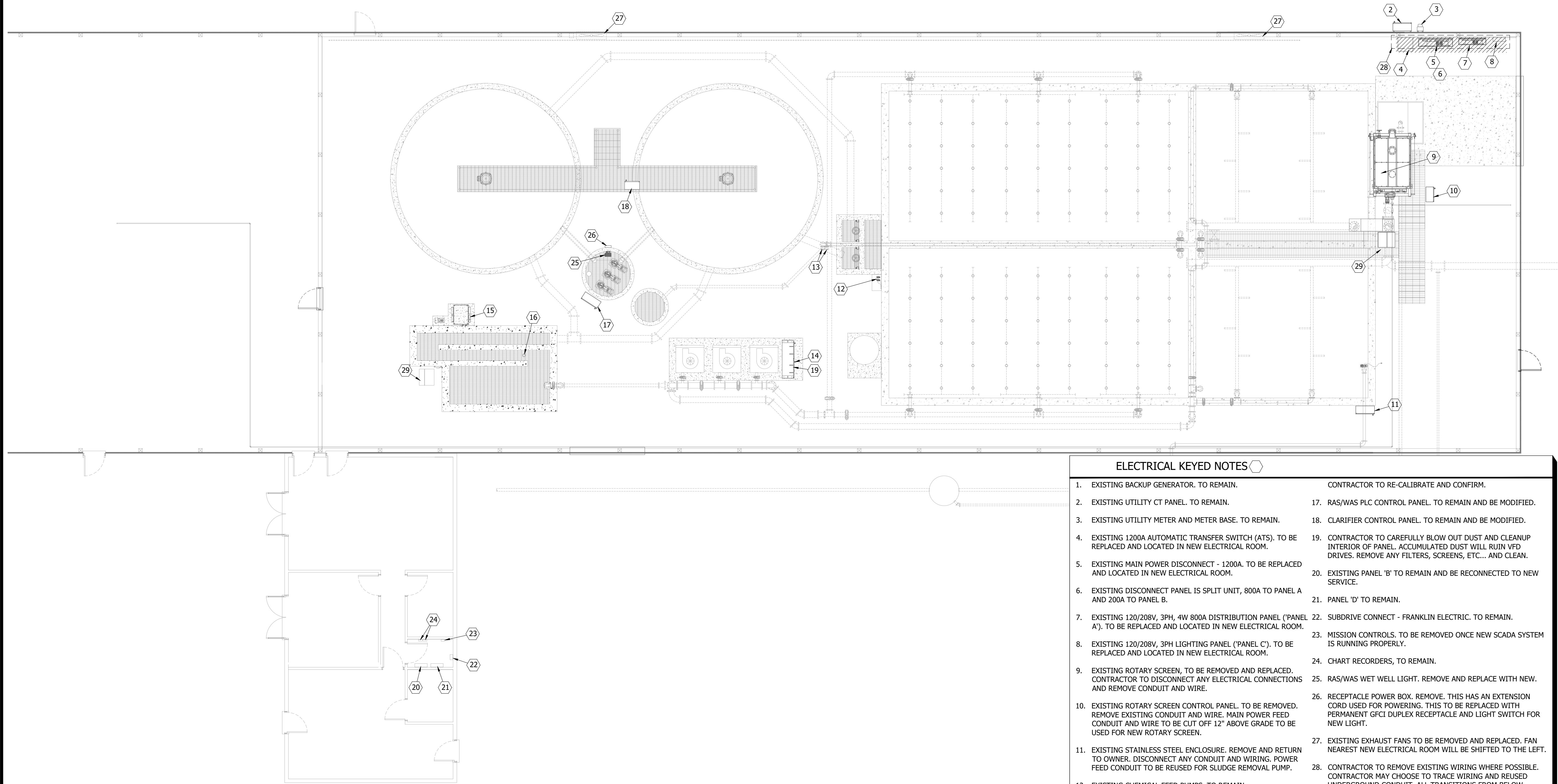
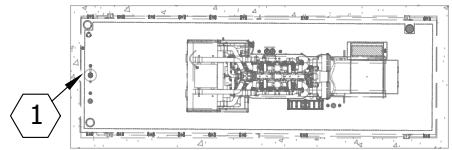
ELECTRICAL SITE PLAN -
BUILDING SITE

E101

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GENERAL NOTES:

- THE PLANT AREA IS CONSIDERED A C1D1 SPACE DEGRADED TO C1D2 WITH 12 ACH VIA EXHAUST FANS AND SAFETY MEASURES.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADHERE TO NEC C1D2 AND NFPA 820 GUIDELINES FOR EQUIPMENT AND INSTALLATION PRACTICES.
- EXISTING INTERIOR LIGHT SWITCHES AND RECEPTACLES SHALL BE REMOVED AND REPLACED WITH C1D2 RATED SWITCHES AND RECEPTACLES. SWITCHES SHALL BE SIMILAR TO KILLARK XS41C AND RECEPTACLES SHALL BE SIMILAR TO EATON CFSR2023-M15 OR APPROVED EQUALS.
- NOT ALL CONDUIT, WIRING, RECEPTACLES, JUNCTION BOXES, ETC... WITHIN THESE DRAWINGS ARE ABLE TO BE SHOWN. DRAWINGS REFLECT AS MUCH AS POSSIBLE TO PROVIDE A GOOD REFERENCE OF WORK AND RESPONSIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL WORK.



ELECTRICAL KEYED NOTES

- | | |
|---|---|
| 1. EXISTING BACKUP GENERATOR. TO REMAIN. | CONTRACTOR TO RE-CALIBRATE AND CONFIRM. |
| 2. EXISTING UTILITY CT PANEL. TO REMAIN. | 17. RAS/WAS PLC CONTROL PANEL. TO REMAIN AND BE MODIFIED. |
| 3. EXISTING UTILITY METER AND METER BASE. TO REMAIN. | 18. CLARIFIER CONTROL PANEL. TO REMAIN AND BE MODIFIED. |
| 4. EXISTING 1200A AUTOMATIC TRANSFER SWITCH (ATS). TO BE REPLACED AND LOCATED IN NEW ELECTRICAL ROOM. | 19. CONTRACTOR TO CAREFULLY BLOW OUT DUST AND CLEANUP INTERIOR OF PANEL. ACCUMULATED DUST WILL RUIN VFD DRIVES. REMOVE ANY FILTERS, SCREENS, ETC... AND CLEAN. |
| 5. EXISTING MAIN POWER DISCONNECT - 1200A. TO BE REPLACED AND LOCATED IN NEW ELECTRICAL ROOM. | 20. EXISTING PANEL 'B' TO REMAIN AND BE RECONNECTED TO NEW SERVICE. |
| 6. EXISTING DISCONNECT PANEL IS SPLIT UNIT, 800A TO PANEL A AND 200A TO PANEL B. | 21. PANEL 'D' TO REMAIN. |
| 7. EXISTING 120/208V, 3PH, 4W 800A DISTRIBUTION PANEL ('PANEL A'). TO BE REPLACED AND LOCATED IN NEW ELECTRICAL ROOM. | 22. SUBDRIVE CONNECT - FRANKLIN ELECTRIC. TO REMAIN. |
| 8. EXISTING 120/208V, 3PH LIGHTING PANEL ('PANEL C'). TO BE REPLACED AND LOCATED IN NEW ELECTRICAL ROOM. | 23. MISSION CONTROLS. TO BE REMOVED ONCE NEW SCADA SYSTEM IS RUNNING PROPERLY. |
| 9. EXISTING ROTARY SCREEN, TO BE REMOVED AND REPLACED. CONTRACTOR TO DISCONNECT ANY ELECTRICAL CONNECTIONS AND REMOVE CONDUIT AND WIRE. | 24. CHART RECORDERS, TO REMAIN. |
| 10. EXISTING ROTARY SCREEN CONTROL PANEL. TO BE REMOVED. REMOVE EXISTING CONDUIT AND WIRE. MAIN POWER FEED CONDUIT AND WIRE TO BE CUT OFF 12" ABOVE GRADE TO BE USED FOR NEW ROTARY SCREEN. | 25. RAS/WAS WET WELL LIGHT. REMOVE AND REPLACE WITH NEW. |
| 11. EXISTING STAINLESS STEEL ENCLOSURE. REMOVE AND RETURN TO OWNER. DISCONNECT ANY CONDUIT AND WIRING. POWER FEED CONDUIT TO BE REUSED FOR SLUDGE REMOVAL PUMP. | 26. RECEPTACLE POWER BOX. REMOVE. THIS HAS AN EXTENSION CORD USED FOR POWERING. THIS TO BE REPLACED WITH PERMANENT GFCI DUPLEX RECEPTACLE AND LIGHT SWITCH FOR NEW LIGHT. |
| 12. EXISTING CHEMICAL FEED PUMPS. TO REMAIN. | 27. EXISTING EXHAUST FANS TO BE REMOVED AND REPLACED. FAN NEAREST NEW ELECTRICAL ROOM WILL BE SHIFTED TO THE LEFT. |
| 13. EXISTING INLINE MAGNETIC FLOW METERS. TO BE REPLACED. | 28. CONTRACTOR TO REMOVE EXISTING WIRING WHERE POSSIBLE. CONTRACTOR MAY CHOOSE TO TRACE WIRING AND REUSED UNDERGROUND CONDUIT. ALL TRANSITIONS FROM BELOW GRADE TO ABOVE GRADE SHALL BE PROPERLY THREADED AND SEALED TO COMPLY WITH NEC C1D2 AREAS. |
| 14. EXISTING BLOWER CONTROL PANEL WITH VFDS. TO REMAIN AND BE MODIFIED. | 29. EXISTING SAMPLER. TO REMAIN. |
| 15. EXISTING UV SYSTEM CONTROL PANEL. TO REMAIN. | |
| 16. EXISTING EFFLUENT ULTRASONIC FLOW METER - TO REMAIN. | |



SWEETSER WASTE WATER
IMPROVEMENTS

SWEETSER, INDIANA, 46987

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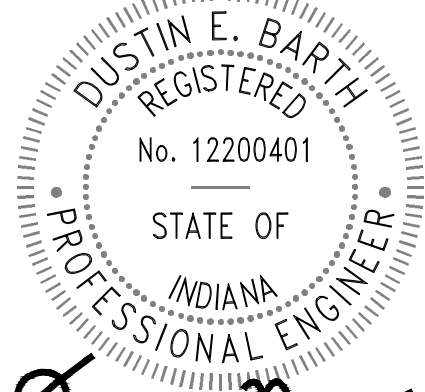
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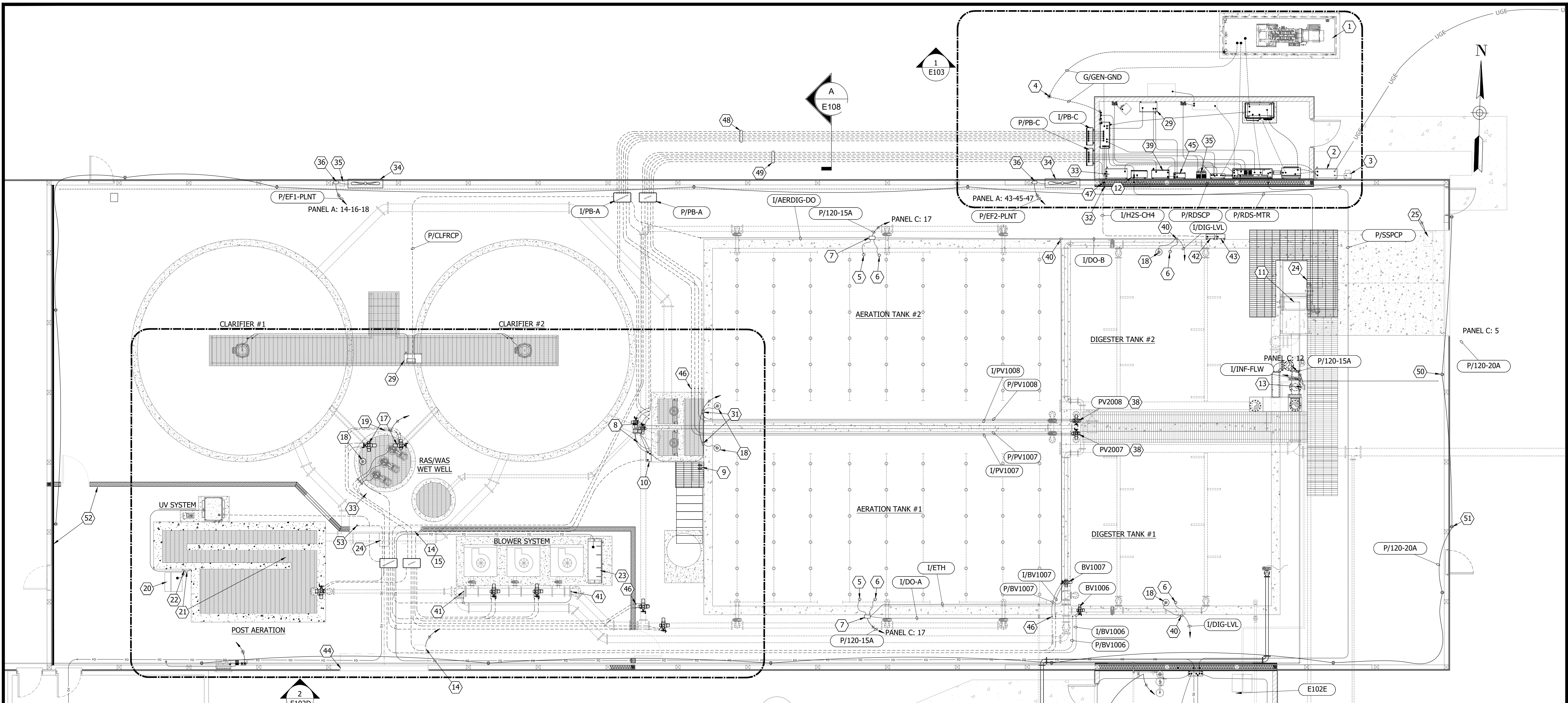
Dustin Barth



WWTP BUILDING
ELECTRICAL LAYOUT -
EXISTING

E102A

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ELECTRICAL KEYED NOTES			
1. EXISTING BACKUP GENERATOR. TO REMAIN.	OPERATOR.	ETHERNET SWITCH.	PRESSURE TRANSMITTERS.
2. EXISTING UTILITY CT PANEL. TO REMAIN.	15. THIS COILED 8' X 10' COILING GARAGE DOOR SHALL BE 1 HOUR FIRE RATED.	27. 2 - CAT6; 3/4" EMT CONDUIT TO JUNCTION BOX WITH ETHERNET PORTS NEAR DESK WHERE SCADA COMPUTER WILL BE PLACED.	42. H2S GAS DETECTION ALARM MONITOR. SIMILAR TO CTI GG-H2S-50-EXP.
3. EXISTING UTILITY METER AND METER BASE. TO REMAIN.	16. NOT USED.	28. NOT USED.	43. METHANE GAS DETECTION ALARM MONITOR. SIMILAR TO CTI GG-LEL2-CH4.
4. NEW GROUND ROD WITH TEST WELL.	17. NEW RAS/WAS 208V, 3PH ELECTRIC ACTUATORS FOR TELESCOPING VALVES.	29. EXISTING CLARIFIER CONTROL PANEL. TO BE RELOCATED IN PROPOSED ELECTRICAL ROOM.	44. REMOVE EXISTING PUSHBUTTON STATION, CONDUIT AND WIRING FOR GARAGE DOOR OPENER. REPLACE WITH ALL NEW CONDUIT/WIRE. CONDUITS SHALL BE SEALED AND NEW PUSHBUTTON STATION SHALL BE NEMA4X (TYPICAL ALL LOCATIONS). NEW GARAGE DOORS SHALL BE ROLL UP STYLE WITH WALL MOUNT OPENERS.
5. NEW PH/ORP SENSOR. SIMILAR TO HACH DPC2K2A OR EQUAL.	18. NEW RADAR LEVEL TRANSMITTER IN STILLING TUBE. SEE DETAILS.	30. INSTALL A NEW 6" X 6" X 4" STAINLESS STEEL NEMA7 JUNCTION BOX. CLEANUP EXISTING WIRING MESS AND LOCATE ORIGIN OF WIRING.	45. VALVE ACTUATOR NETWORK CONTROL PANEL (ACNCP).
6. NEW DISSOLVED OXYGEN (DO) SENSOR. SIMILAR TO HACH INTELICAL LDO101 WITH 16' CABLE OR EQUAL.	19. EXISTING RECEPTACLE AND EXISTING LIGHT (THESE ARE PLUG-IN TYPE DEVICES) - TO BE REMOVED. INSTALL NEW, HARDWIRED C1D1 RATED (NEMA7 MIN.) LIGHT WITH SWITCH ON SIDE OF WET WELL WALL. RUN POWER TO NEW NEMA4X RECEPTACLE AND POWER LIGHT SWITCH AND GFCI RECEPTACLE FROM SAME CIRCUIT FROM PANEL 'B'.	31. RADAR LEVEL DISPLAY CONTROLLER. DISPLAY TO BE MOUNTED ON HAND RAIL NEAR TRANSMITTER.	46. TRANSITION FROM BELOW GRADE TO ABOVE GRADE. (TYPICAL)
7. MULTI-SENSOR CONTROLLER SIMILAR TO HACH SC4500 (C1D2 RATED ENCLOSURE) SERIES OR EQUAL.	20. EXISTING EFFLUENT SAMPLER. PROVIDE CONNECTION TO GET 4-20MA SIGNAL TO NEW MSCP CONTROL PANEL.	32. TEMPERATURE SENSOR TO MONITOR EAST END OF FACILITY. UNIT TO BE C1D2 RATED.	47. ALL CONDUIT TRANSITIONS FROM C1D2 SPACE TO NON-CLASSIFIED SPACE MUST HAVE SEAL OFF POINTS AND SEAL-TIGHT PENETRATIONS.
8. EXISTING RAS AND WAS INLINE MAGNETIC FLOW METERS. CURRENTLY, THE 120V POWER IS PLUG-IN STYLE. HARD WIRE THESE INTO JUNCTION BOX USING NEMA4X RATED CORD GRIPS AND PROPER SPLICING.	21. EXISTING EFFLUENT FLOW METER ELECTRONICS. PROVIDE CONNECTION TO GET 4-20MA SIGNAL TO NEW MSCP CONTROL PANEL.	33. EXISTING RAS/WAS CONTROL PANEL. TO BE RELOCATED INTO ELECTRICAL ROOM AND MODIFIED. SEE SHEET 1103.	48. INSTRUMENTATION CONDUIT DUCT BANK. PROVIDE 6 - 2" CONDUITS BETWEEN JB-A AND JB-C.
9. EXISTING CHEMICAL FEED PUMPS. DISCONNECT PUMPS AND RETURN TO OWNER.	22. NEW BLOWER AREA TEMPERATURE TRANSMITTER. PROVIDE CONNECTION TO GET 4-20MA SIGNAL TO NEW EF-4 VFD.	34. NEW EXHAUST FANS. SEE SHEET M100.	49. POWER CONDUIT DUCT BANK. PROVIDE 6 - 2" CONDUITS BETWEEN JB-A AND JB-C.
10. NEW 16" X 14" X 8" STAINLESS STEEL NEMA4X INSTRUMENTATION JUNCTION BOX (JB-1). SIMILAR TO SCE-16148CHNFSS6. NO TERMINATIONS OR SPLICES WITHIN THIS BOX SO AS TO COMPLY WITH C1D2 REQUIREMENTS.	23. EXISTING BLOWER CONTROL PANEL.	35. NEW EXHAUST FAN VARIABLE FREQUENCY DRIVE (VFD). SIMILAR TO ACQ580-01-017A-2.	50. C1D2 RATED GFCI RECEPTACLE. TYPICAL.
11. NEW ROTARY DRUM SCREEN.	24. EXISTING OVERHEAD DOOR DRIVE MOTOR. TO BE DISCONNECTED AND REMOVED.	36. NEW EXHAUST FAN STAINLESS STEEL 30A DISCONNECT.	51. GFCI RECEPTACLE WITH WEATHERPROOF HOUSING. TYPICAL FOR EXTERIOR.
12. NEW ROTARY SCREEN CONTROL PANEL (RDSCP). PROVIDED BY MANUFACTURER AND INSTALLED BY CONTRACTOR.	25. NEW C1D2 RATED COMMERCIAL GARAGE DOOR OPENER, WALL MOUNT WITH 3-BUTTON CONTROL STATION. SIMILAR TO CORNELL FIREGUARD SERIES OR EQUAL. DISCONNECT EXISTING OPERATOR.	37. NOT USED.	52. PROPOSED 1 HOUR RATED INTERIOR WALL.
13. NEW 10" INFLUENT MAGNETIC FLOW METER. SIMILAR TO E&H PROMAG W400 WITH C1D2 RATED INTEGRAL ELECTRONICS AND GROUNDING RINGS. VERTICAL MOUNT.	26. PROVIDE 16" X 16" X 8" NEMA12 BOX FOR FIBER OPTIC TO	38. NEW 208V, 3PH ELECTRIC ACTUATORS FOR DIGESTER TANKS WAS FEED LINES.	53. NEW WEST AREA TEMPERATURE TRANSMITTER. PROVIDE CONNECTION TO GET 4-20MA SIGNAL TO NEW MSCP CONTROL PANEL.
14. COMMERCIAL GARAGE DOOR OPENER (NON-HAZARDOUS LOCATION), WALL MOUNT WITH 3-BUTTON CONTROL STATION. SIMILAR TO CORNELL OR EQUAL. DISCONNECT EXISTING		39. NEW VALVE ACTUATOR POWER CONTROL PANEL (ACMCP).	
		40. NEMA7 JUNCTION BOX.	
		41. NEW AERATION AND DIGESTER AIR FEED LINE DISCHARGE	

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Checked By: ALC & DB

Date: 08/14/2026

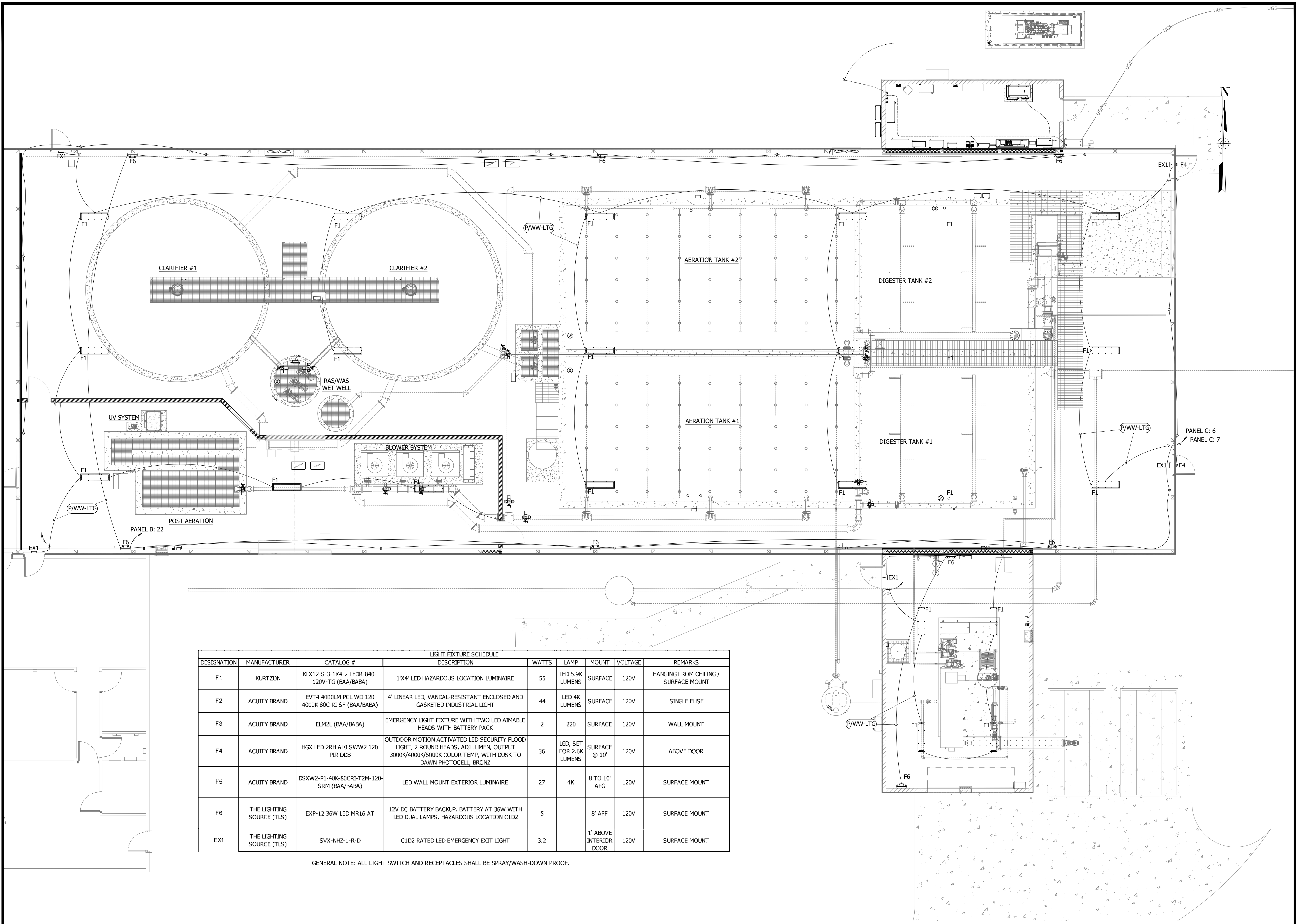
DUSTIN E. BARTH
REGISTERED
No. 12200401
STATE OF
INDIANA
PROFESSIONAL ENGINEER

6" 0 6" 12"
GRAPHIC SCALE

WWTP BUILDING ELECTRICAL LAYOUT - PROPOSED

E102B

PRINT DATE: 8/7/26
PLOT SCALE: 1:186.91
EDIT DATE: 8/13/26 - 10:12 AM
DRAWING FILE: P:\400-6314 SWEETSER WW IMPROVEMENTS\ACAD\PLAN SHEETS & WORKING DRAWINGS\00-6314 - ELECTRICAL BUILDING LAYOUT - NEW LIGHTING.DWG
EDITED BY: JREED



LIGHT FIXTURE SCHEDULE								
DESIGNATION	MANUFACTURER	CATALOG #	DESCRIPTION	WATTS	LAMP	MOUNT	VOLTAGE	REMARKS
F1	KURTZON	KLX12-S-3-1X4-2 LEDR-840-120V-TG (BAA/BABA)	1'X4' LED HAZARDOUS LOCATION LUMINAIRE	55	LED 5.9K LUMENS	SURFACE	120V	HANGING FROM CEILING / SURFACE MOUNT
F2	ACUITY BRAND	EVT4 4000LM PCL WD 120 4000K 80C RI SF (BAA/BABA)	4' LINEAR LED, VANDAL-RESISTANT ENCLOSED AND GASKETED INDUSTRIAL LIGHT	44	LED 4K LUMENS	SURFACE	120V	SINGLE FUSE
F3	ACUITY BRAND	ELM2L (BAA/BABA)	EMERGENCY LIGHT FIXTURE WITH TWO LED AIMABLE HEADS WITH BATTERY PACK	2	220	SURFACE	120V	WALL MOUNT
F4	ACUITY BRAND	HGX LED 2RH AL0 SWW2 120 PIR DDB	OUTDOOR MOTION ACTIVATED LED SECURITY FLOOD LIGHT, 2 ROUND HEADS, ADJ LUMEN, OUTPUT 3000K/4000K/5000K COLOR TEMP, WITH DUSK TO DAWN PHOTOCCELL, BRONZ	36	LED, SET FOR 2.6K LUMENS	SURFACE @ 10'	120V	ABOVE DOOR
F5	ACUITY BRAND	DSXW2-P1-40K-80CRI-T2M-120-SRM (BAA/BABA)	LED WALL MOUNT EXTERIOR LUMINAIRE	27	4K	8 TO 10' AFG	120V	SURFACE MOUNT
F6	THE LIGHTING SOURCE (TLS)	EXP-12 36W LED MR16 AT	12V DC BATTERY BACKUP, BATTERY AT 36W WITH LED DUAL LAMPS. HAZARDOUS LOCATION C1D2	5		8' AFF	120V	SURFACE MOUNT
EX1	THE LIGHTING SOURCE (TLS)	SVX-NH2-1-R-D	C1D2 RATED LED EMERGENCY EXIT LIGHT	3.2		1' ABOVE INTERIOR DOOR	120V	SURFACE MOUNT

GENERAL NOTE: ALL LIGHT SWITCH AND RECEPTACLES SHALL BE SPRAY/WASH-DOWN PROOF.



SWEETSER WASTE WATER IMPROVEMENTS

SWEETSER, INDIANA, 46987

#	Revision	Date

Project #: 400-6314
Designed By: JAR
Drawn By: JAR
Checked By: ALC & DB
Date: 08/14/2026



WWTP BUILDING
ELECTRICAL LAYOUT -
PROPOSED LIGHTING

E102C

PRINT DATE: 8/7/26
PLOT SCALE: 1:186.91
EDIT DATE: 8/13/26 - 10:29 AM
EDITED BY: JREED
DRAWING FILE: P:\400-6314 SWEETSER WW IMPROVEMENTS\ACAD\PLAN SHEETS & WORKING DRAWINGS\00-6314 - ELECTRICAL BUILDING ENLARGED RAS-WAS AND BLOWER AREA.DWG

ELECTRICAL KEYED NOTES

1. NEW RADAR LEVEL TRANSMITTER IN STILLING TUBE. SEE DETAILS.

2. RADAR LEVEL DISPLAY CONTROLLER. DISPLAY TO BE MOUNTED ON HAND RAIL NEAR TRANSMITTER.

3. EXISTING CHEMICAL FEED PUMPS. DISCONNECT PUMPS AND RETURN TO OWNER.

4. NEW 16" X 14" X 8" STAINLESS STEEL NEMA4X INSTRUMENTATION JUNCTION BOX (JB-1). SIMILAR TO SCE-16148CHNFS56. THIS BOX SHALL NOT HAVE ANY SPLICES TO MAINTAIN CID2 COMPLIANCE.

5. EXISTING RAS AND WAS INLINE MAGNETIC FLOW METERS. CURRENTLY, THE 120V POWER IS PLUG-IN STYLE. HARD WIRE THESE INTO JUNCTION BOX USING NEMA4X RATED CORD GRIPS AND PROPER SPLICING.

6. NEW ELECTRIC ACTUATORS ON EXISTING PLUG VALVES FOR RAS/WAS FEED LINES TO AERATION AND DIGESTER TANKS.

7. NEW ELECTRIC ACTUATOR CENTRAL MAIN POWER AND
- CONTROL PANEL (ACMCP). SEE SHEET I104.

8. EXISTING GARAGE DOOR OPENER, RAILS AND OPEN/CLOSE PUSHBUTTON STATION TO BE REMOVED AND REPLACED.

9. EXISTING RECEPTACLE TO BE UPGRADED TO NEMA7 JUNCTION BOX. SPLICE FLOW METER POWER HERE.

10. EXISTING GARAGE DOORS AND OPERATORS TO BE REPLACED WITH COILING DOOR AND OPERATOR WITH PUSHBUTTON CONTROL STATION.

11. NEW WEST AREA TEMPERATURE TRANSMITTER. PROVIDE CONNECTION TO GET 4-20MA SIGNAL TO NEW MSCP CONTROL PANEL.

12. 13" X 24" QUAZITE BELOW GRADE PULL BOX. THESE PULL BOXES SHALL HAVE AT A MINIMUM TIER 22 RATING. ALTERNATIVELY, CONTRACTOR MAY CHOOSE TO PROVIDE A LOCATION WHERE NO TRAFFIC WILL OCCUR BETWEEN GARAGE DOORS.

13. PROVIDE CID2 RATED 30A DISCONNECT FOR RAS/WAS PUMPS. TYPICAL OF 3. SIMILAR TO APPLETON EDSK-MC3.
14. 13" X 24" QUAZITE BELOW GRADE PULL BOX WITH TIER 5 COVER.

15. NEW RAS/WAS CONTROL PANEL.

16. EXISTING CLARIFIER CONTROL PANEL.

17. EXISTING UV SYSTEM CONTROL PANEL.

18. NEW BLOWER AREA TEMPERATURE TRANSMITTER. SEE SHEET M100.

19. EXISTING EFFLUENT SAMPLER.

20. EXISTING EFFLUENT FLOW METER SENSOR.

21. NEW AERATION AND DIGESTER AIR FEED LINE DISCHARGE PRESSURE TRANSMITTERS.

22. COMMON JUNCTION BOXES - NEMA4X RATED POLYCARBONATE OR PVC.

23. VALVE ACTUATOR NETWORK CONTROL PANEL (ACMNP). SEE SHEET I104.

CLARIFIER #1

CLARIFIER #2

RAS/WAS WET WELL

BLOWER SYSTEM

UV SYSTEM

POST AERATION



SWEETSER WASTE WATER
IMPROVEMENTS

SWEETSER, INDIANA, 46987

#	Revision	Date

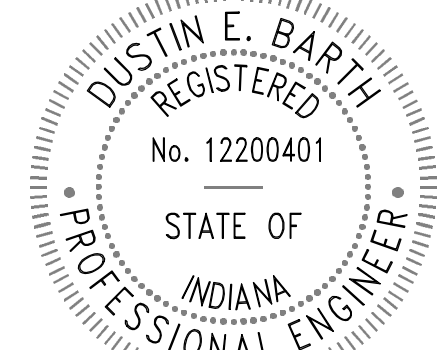
Project #: 400-6314

Designed By: JAR

Drawn By: JAR

Checked By: ALC & DB

Date: 08/14/2026



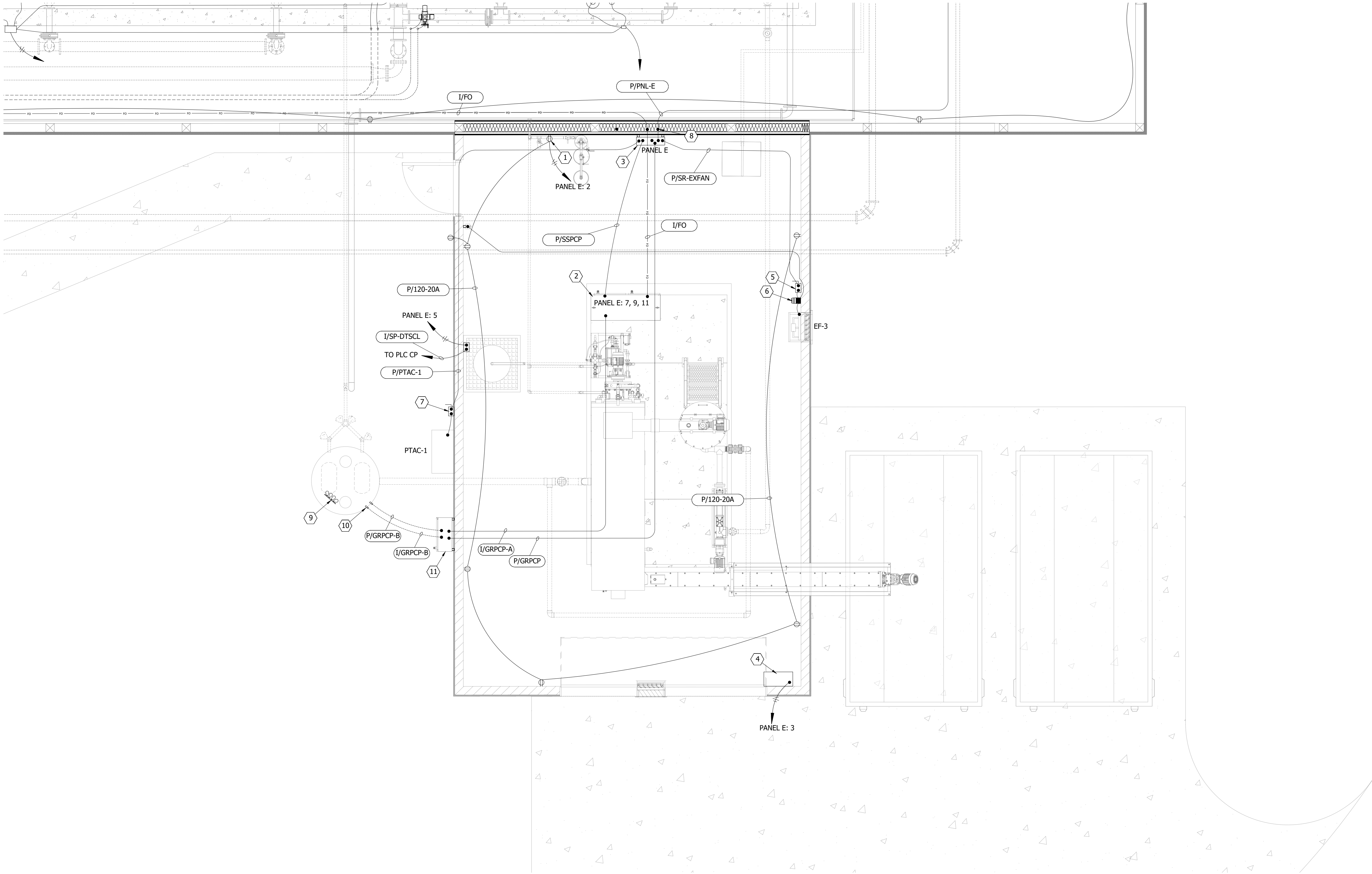
Dustin Barth



WWTP BUILDING
ENLARGED RAS-WAS AND
BLOWER AREA

E102D

PRINT DATE: 8/27/26
PLOT SCALE: 1:1
DRAWING FILE: P:\400-6314 SWEETSER WW IMPROVEMENTS\ACQ\PLAN SHEETS & WORKING DRAWINGS\400-6314 - ELECTRICAL BUILDING ENLARGED SCREW PRESS AREA.DWG
EDIT DATE: 8/13/26 12:25 PM
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SWEETSER WASTE WATER IMPROVEMENTS

SWEETSER, INDIANA, 46987

#	Revision	Date

Project #: 400-6314

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Date: 08/14/2026



Dustin Barth



**WWTP BUILDING
ENLARGED SCREW PRESS
AREA**

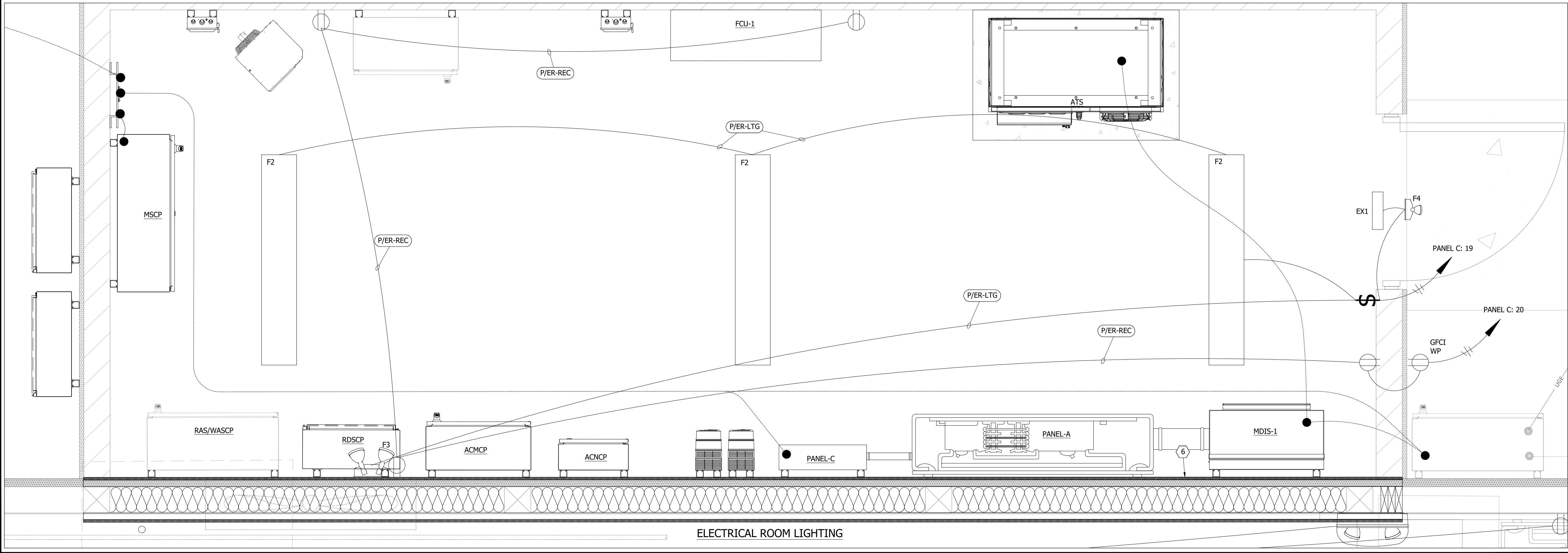
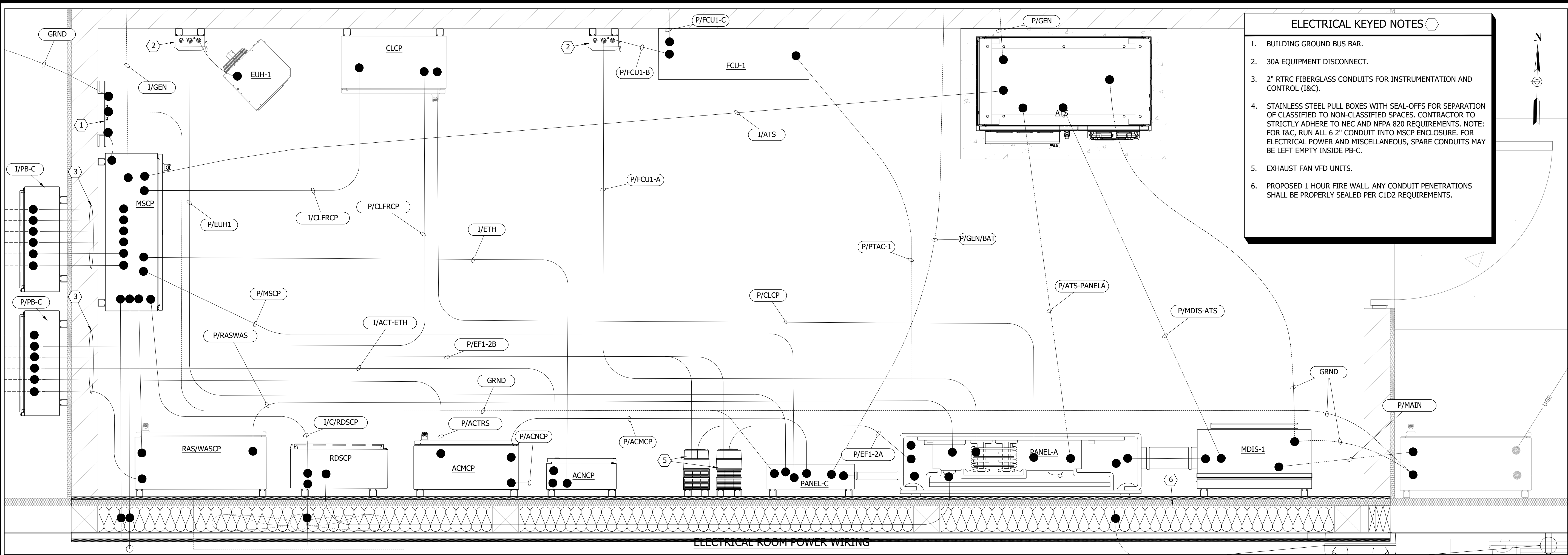
E102E

ELECTRICAL KEYED NOTES

- 20A GFCI RECEPTACLE WITH NEMA4X BOX AND COVER. TYPICALLY FOR THIS ROOM.
- NEW SCREW PRESS CONTROL PANEL. PROVIDED BY MANUFACTURER ON SCREW PRESS SKID.
- NEW LIGHTING PANEL E. SEE SCHEDULE.
- NEW WALL MOUNT GARAGE DOOR OPENER SIMILAR TO AS SHOWN ON WWTP SHEETS. NEMA4X RATING.
- STAINLESS STEEL 30A DISCONNECT.
- EXHAUST FAN VFD. SIMILAR TO ACQ580-01-06A6-2.
- STAINLESS STEEL 60A DISCONNECT.
- THIS ROOM TO BE DERATED WITH AIR EXHCANGES
- WET WELL FLOAT SWITCHES PROVIDED BY MANUFACTURER AND INSTALLED BY CONTRACTOR.
- PROVIDE LINK SEALS AT ALL PENETRATIONS.
- DUPLEX GRINDER PUMP CONTROL PANEL. PROVIDED BY MANUFACTURER AND INSTALLED BY CONTRACTOR.

TO NON-CLASSIFIED AREA. ALL WALL PENETRATIONS FOR CONDUIT SHALL COMPLY WITH NEC AND NFPA 820 REQUIREMENTS.

PRINT DATE: 8/7/26
PLOT SCALE: 1:1
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SWEETSER WASTE WATER IMPROVEMENTS

SWEETSER, INDIANA, 46987

#	Revision	Date

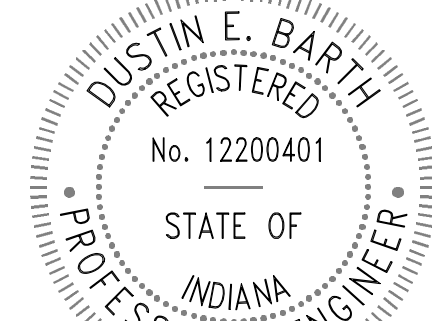
Project #: 400-6314

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Drawn By: JAR

Checked By: ALC & DB

Date: 08/14/2026



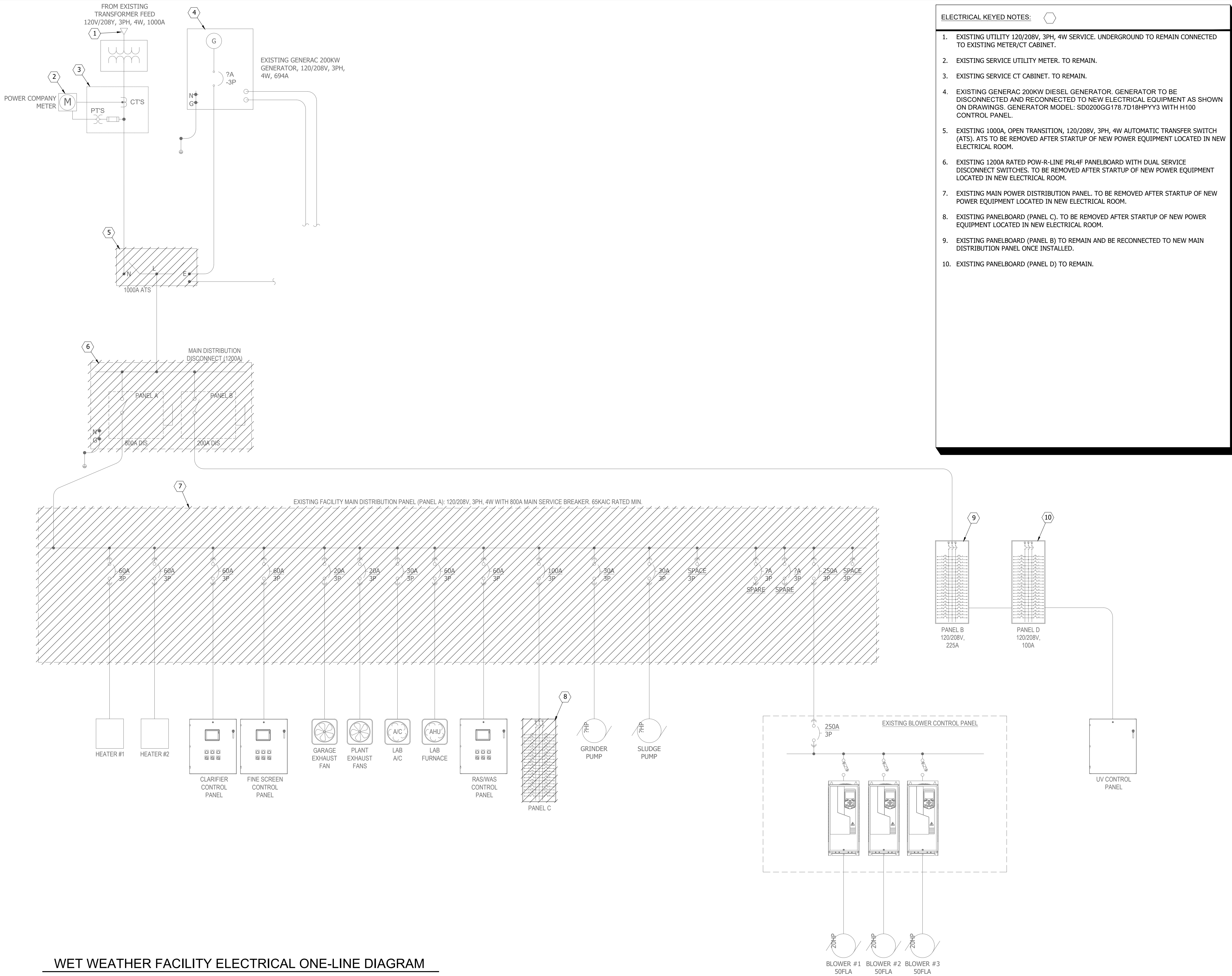
Dustin Barth



WWTP ELECTRICAL ROOM LAYOUT

E103

PRINT DATE: 8/27/26
PLOT SCALE: 1:1
DRAWING FILE: P:\400-6314 SWEETSER WW IMPROVEMENTS\5 ACAD\PLAN SHEETS & WORKING DRAWINGS\400-6314 - ELECTRICAL ONE-LINE DIAGRAM.DWG



- ELECTRICAL KEYED NOTES:
- EXISTING UTILITY 120/208V, 3PH, 4W SERVICE. UNDERGROUND TO REMAIN CONNECTED TO EXISTING METER/CT CABINET.
 - EXISTING SERVICE UTILITY METER. TO REMAIN.
 - EXISTING SERVICE CT CABINET. TO REMAIN.
 - EXISTING GENERAC 200KW DIESEL GENERATOR. GENERATOR TO BE DISCONNECTED AND RECONNECTED TO NEW ELECTRICAL EQUIPMENT AS SHOWN ON DRAWINGS. GENERATOR MODEL: SD0200GG178.7D18HPY3 WITH H100 CONTROL PANEL.
 - EXISTING 1000A, OPEN TRANSITION, 120/208V, 3PH, 4W AUTOMATIC TRANSFER SWITCH (ATS). ATS TO BE REMOVED AFTER STARTUP OF NEW POWER EQUIPMENT LOCATED IN NEW ELECTRICAL ROOM.
 - EXISTING 1200A RATED POW-R-LINE PRL4F PANELBOARD WITH DUAL SERVICE DISCONNECT SWITCHES. TO BE REMOVED AFTER STARTUP OF NEW POWER EQUIPMENT LOCATED IN NEW ELECTRICAL ROOM.
 - EXISTING MAIN POWER DISTRIBUTION PANEL. TO BE REMOVED AFTER STARTUP OF NEW POWER EQUIPMENT LOCATED IN NEW ELECTRICAL ROOM.
 - EXISTING PANELBOARD (PANEL C). TO BE REMOVED AFTER STARTUP OF NEW POWER EQUIPMENT LOCATED IN NEW ELECTRICAL ROOM.
 - EXISTING PANELBOARD (PANEL B) TO REMAIN AND BE RECONNECTED TO NEW MAIN DISTRIBUTION PANEL ONCE INSTALLED.
 - EXISTING PANELBOARD (PANEL D) TO REMAIN.

WET WEATHER FACILITY ELECTRICAL ONE-LINE DIAGRAM



SWEETSER WASTE WATER IMPROVEMENTS

SWEETSER, INDIANA, 46987

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Designed By: JAR

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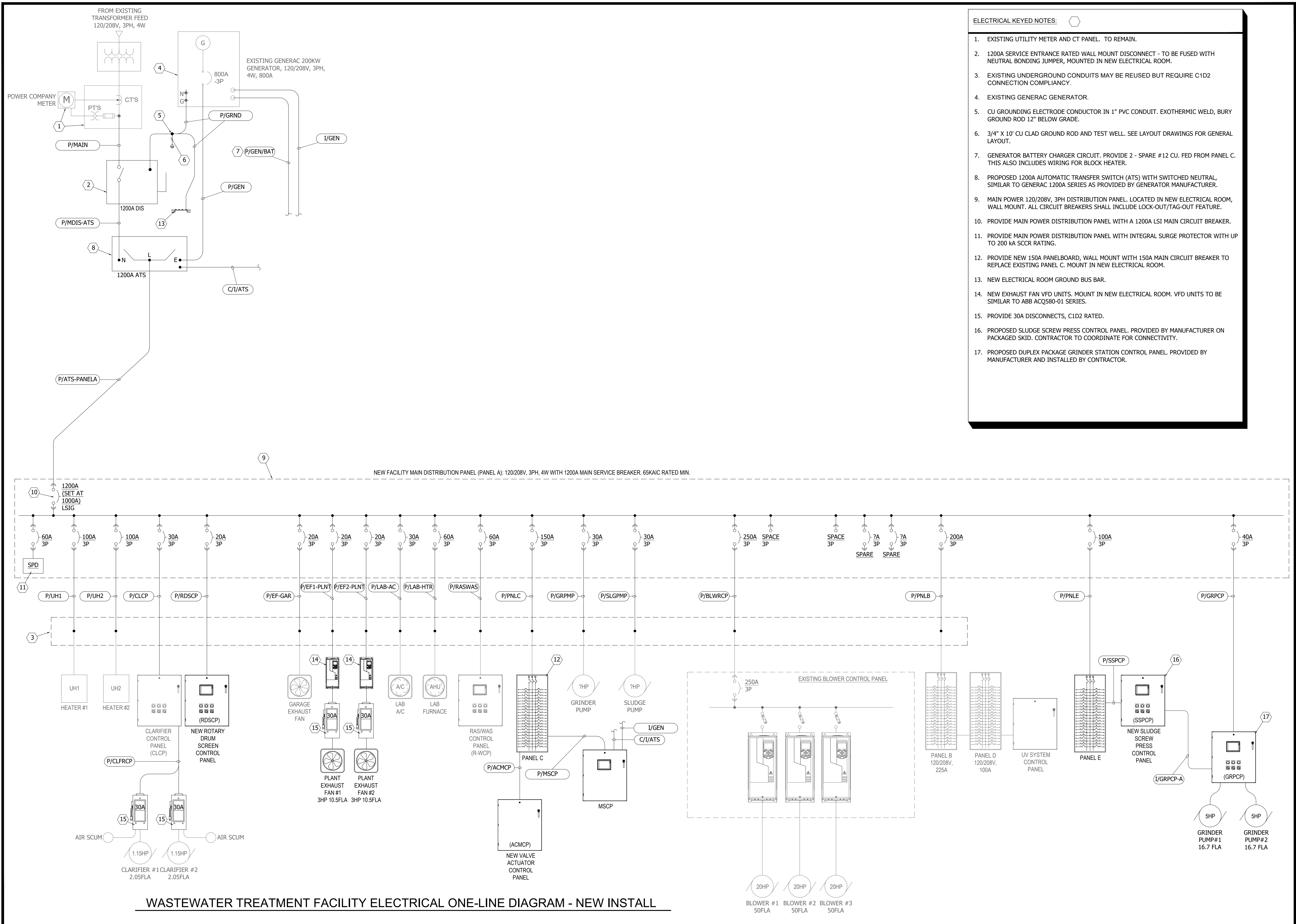
Date: 08/14/2026



WWTP ELECTRICAL ONE-LINE DIAGRAM - EXISTING

E104

PRINT DATE: 8/7/26 PLOT SCALE: 1:1 EDIT DATE: 8/13/26 12:39 PM EDITED BY: JREED DRAWING FILE: P:\400-6314 SWEETSER WW IMPROVEMENTS\ACAD\PLAN SHEETS & WORKING DRAWINGS\400-6314 - ELECTRICAL ONE-LINE DIAGRAM - NEW.DWG



WASTEWATER TREATMENT FACILITY ELECTRICAL ONE-LINE DIAGRAM - NEW INSTALL

- ELECTRICAL KEYED NOTES:
- EXISTING UTILITY METER AND CT PANEL. TO REMAIN.
 - 1200A SERVICE ENTRANCE RATED WALL MOUNT DISCONNECT - TO BE FUSED WITH NEUTRAL BONDING JUMPER, MOUNTED IN NEW ELECTRICAL ROOM.
 - EXISTING UNDERGROUND CONDUITS MAY BE REUSED BUT REQUIRE C1D2 CONNECTION COMPLIANCY.
 - EXISTING GENERAC GENERATOR.
 - CU GROUNDING ELECTRODE CONDUCTOR IN 1" PVC CONDUIT. EXOTHERMIC WELD, BURY GROUND ROD 12" BELOW GRADE.
 - 3/4" X 10' CU CLAD GROUND ROD AND TEST WELL. SEE LAYOUT DRAWINGS FOR GENERAL LAYOUT.
 - GENERATOR BATTERY CHARGER CIRCUIT. PROVIDE 2 - SPARE #12 CU. FED FROM PANEL C. THIS ALSO INCLUDES WIRING FOR BLOCK HEATER.
 - PROPOSED 1200A AUTOMATIC TRANSFER SWITCH (ATS) WITH SWITCHED NEUTRAL, SIMILAR TO GENERAC 1200A SERIES AS PROVIDED BY GENERATOR MANUFACTURER.
 - MAIN POWER 120/208V, 3PH DISTRIBUTION PANEL. LOCATED IN NEW ELECTRICAL ROOM, WALL MOUNT. ALL CIRCUIT BREAKERS SHALL INCLUDE LOCK-OUT/TAG-OUT FEATURE.
 - PROVIDE MAIN POWER DISTRIBUTION PANEL WITH A 1200A LSI MAIN CIRCUIT BREAKER.
 - PROVIDE MAIN POWER DISTRIBUTION PANEL WITH INTEGRAL SURGE PROTECTOR WITH UP TO 200 kA SCCR RATING.
 - PROVIDE NEW 150A PANELBOARD, WALL MOUNT WITH 150A MAIN CIRCUIT BREAKER TO REPLACE EXISTING PANEL C. MOUNT IN NEW ELECTRICAL ROOM.
 - NEW ELECTRICAL ROOM GROUND BUS BAR.
 - NEW EXHAUST FAN VFD UNITS. MOUNT IN NEW ELECTRICAL ROOM. VFD UNITS TO BE SIMILAR TO ABB ACQ580-01 SERIES.
 - PROVIDE 30A DISCONNECTS, C1D2 RATED.
 - PROPOSED SLUDGE SCREW PRESS CONTROL PANEL. PROVIDED BY MANUFACTURER ON PACKAGED SKID. CONTRACTOR TO COORDINATE FOR CONNECTIVITY.
 - PROPOSED DUPLEX PACKAGE GRINDER STATION CONTROL PANEL. PROVIDED BY MANUFACTURER AND INSTALLED BY CONTRACTOR.

SWEETSER WASTE WATER IMPROVEMENTS

SWEETSER, INDIANA, 46987

#	Revision	Date

Project #: 400-6314

Designed By: JAR

Drawn By: JAR

Checked By: ALC & DB

Date: 08/14/2026

Justin Barth

WWTP ELECTRICAL ONE-LINE DIAGRAM - PROPOSED

E105

PRINT DATE: 8/27/26
PLOT SCALE: 1:1
DRAWING FILE: P:\400-6314 SWEETSER WW IMPROVEMENTS\55 ACAD\PLAN SHEETS & WORKING DRAWINGS\400-6314 - ELECTRICAL SCHEDULES.DWG
BY: RPAREDES
EDIT DATE: 7/22/26 12:00 PM
EDITED BY:

MAIN DISTRIBUTION PANELBOARD SCHEDULE									
PANEL : PANEL A	LOCATION: WWTP	MOUNTING: ☒ SURFACE ☐ FLUSH	RATING: 1200A., 208V 3PH, 4W	MAIN: ☒ 1000A. M.C.B. ☐ 1000A. M.L.O.		REMARKS: PROVIDE OPTIONS MARKED WITH ☒			
LOAD DESIGNATION	CKT. BKR.	CKT. NO.	A	B	C	CKT. NO.	CKT. BKR.	LOAD DESIGNATION	
HEATER #1	3P-100	1				2	3P-30	CLARIFIER CONTROL PANEL	
		3				4			
		5				6			
HEATER #2	3P-100	7				8	3P-30	FINE SCREEN CONTROL PANEL	
		9				10			
		11				12			
GARAGE EXHAUST FAN	3P-20	13				14	3P-30	PLANT EXHAUST FAN EF-1	
		15				16			
		17				18			
LAB A/C UNIT	3P-30	19				20	3P-30	LAB FURNACE	
		21				22			
		23				24			
RAS/WAS CONTROL PANEL	3P-60	25				26	3P-100	PANEL C	
		27				28			
		29				30			
GRINDER	3P-30	31				32	3P-100	? PUMP	
		33				34			
		35				36			
SPARE	3P-60	37				32	3P-100	? PUMP	
		39				34			
		41				36			
PLANT EXHAUST FAN EF-2	3P-30	43				32	3P-?	? CONTROL CABINET	
		45				34			
		47				36			
SPARE	3P-?	37				38	SPACE		
		39				40			
		41				42			
KVA			0.0	0.0	0.0				
☐ 200% NEUTRAL BUSBAR ☒ 100% NEUTRAL BUSBAR ☒ EQUIPMENT GROUND BUSBAR ☒ 65,000 A.I.C. ☐ 30,000 A.I.C. ☐ INTEGRAL SPD ☐ SWITCH-DUTY C.B.s ☐ BOLT-IN C.B.s ☒ NEMA 12 ☒ CU. BUSBARS & LUGS ☐ AL. BUSBARS & LUGS ☐ NEMA 3R ☐ NEMA 4X									

BRANCH CIRCUIT PANELBOARD SCHEDULE									
PANEL : PANEL C	LOCATION: WWTP	MOUNTING: ☒ SURFACE ☐ FLUSH	RATING: 150A., 120/208V 3PH, 4W	MAIN: ☐ 100A. M.C.B. ☒ 150A. M.L.O.		REMARKS: PROVIDE OPTIONS MARKED WITH ☒			
LOAD DESIGNATION		CKT. BKR.	CKT. NO.	PHASE A B C			CKT. NO.	CKT. BKR.	LOAD DESIGNATION
PLANT LIGHTING		1P-20	1				2	1P-20	PLANT RECEPTACLES
SPARE		1P-20	3				4	1P-20	PLANT RECEPTACLES
EAST OVERHEAD DOOR		1P-20	5				6	1P-20	PLANT LIGHTING - BANK B
PLANT LIGHTING - BANK A		1P-20	7				8	1P-30	INFLUENT SAMPLER
NORTH PLANT RECEPTACLES		1P-20	9				10	1P-20	SOUTH OVERHEAD DOOR
METER VAULT SUMP PUMP		1P-20	11				12	1P-20	INFLUENT FLOW METER
GENERATOR		1P-20	13				14	1P-20	PLANT RECEPTACLES
GENERATOR		1P-20	15				16	1P-20	PLANT RECEPTACLES
AER TANK #1, #2 DO,PH,ORP CONT		1P-20	17				18	1P-20	AER TANK #1, #2 LEVEL CNTRLs
ELECTRICAL ROOM LIGHTING		1P-20	19				20	1P-20	ELECTRICAL ROOM RECEPTACLES
DIGESTER 1&2 DO CONTROLLERS		1P-20	21				22	1P-20	NEW RAS/WAS CONTROL PANEL
ACMCP VALVE ACTUATOR CP		1P-20	23				24	1P-20	SPACE
SPACE		1P-20	25				26	1P-20	SPACE
SPACE		1P-20	27				28	1P-20	SPACE
SPACE		1P-20	29				30	1P-20	SPACE
			KVA	2160.0	1000.0	0.0			
☐ 200% NEUTRAL BUSBAR	☒ 10,000 A.I.C.			☐ SWITCH-DUTY C.Bs			☒ CU. BUSBARS & LUGS		
☒ 100% NEUTRAL BUSBAR	☐ 30,000 A.I.C.			☐ BOLT-IN C.Bs			☐ AL. BUSBARS & LUGS		
☒ EQUIPMENT GROUND BUSBAR	☐ INTEGRAL SPD			☒ NEMA 12			☐ NEMA 3R	☐ NEMA 4X	

BRANCH CIRCUIT PANELBOARD SCHEDULE									
PANEL : PANEL B (EXISTING)	LOCATION: WWTP	MOUNTING: ☒ SURFACE ☐ FLUSH	RATING: 225A., 120/208V 3PH, 4W	MAIN: ☐ 225A. M.C.B. ☒ 225A. M.L.O.		REMARKS: PROVIDE OPTIONS MARKED WITH ☒			
LOAD DESIGNATION		CKT. BKR.	CKT. NO.	PHASE A B C			CKT. NO.	CKT. BKR.	LOAD DESIGNATION
RAS/WAS LIGHT/RECEPTACLE		1P-20	1				2	1P-20	PLANT LIGHTING
GARAGE LIGHTING		1P-20	3				4	1P-20	WATER SOFTENER
PLANT LIGHTING		1P-20	5				6	1P-20	GARAGE LIGHTING
UV SAMPLER/FLOW METER		1P-20	7				8	1P-30	UV COMPRESSOR/HEAT TRACE
EXT. GARAGE LIGHTING		1P-20	9				10	1P-20	CHEMICAL PUMPKPS
LAB LIGHTING		1P-20	11				12	1P-20	EAST GARAGE WALL RECEPTACLES
LAB LIGHTING		1P-20	13				14	1P-20	SOUTH PLANT RECEPTACLES
NORTH WALL LAB RECEPTACLES		1P-20	15				16	1P-20	SOUTH GARAGE RECEPTACLES
EAST WALL LAB RECEPTACLES		1P-20	17				18	1P-20	WEST GARAGE RECEPTACLES
REFRIGERATER		1P-20	19				20	1P-20	PLANT RECEPTACLES
ISLAND PLUG STRIP		1P-20	21				22	1P-20	EMERGENCY BATTERY LIGHTS
ISLAND PLUG STRIP		1P-20	23				24	1P-20	RANGE HOOD
SPARE		1P-20	25				26	1P-20	DISHWASHER
LAB RECEPTACLES		1P-20	27				28	1P-20	OVERHEAD DOOR
OFFICE RECETPACLES		1P-20	29				30	1P-20	OVERHEAD DOOR
MEETING ROOM RECEPTACLES		1P-20	31				32	1P-20	NORTH GARAGE RECEPTACLES
MECH. ROOM RECEPTACLES		1P-20	33				34	1P-20	WATER HEATER
ELEC. CLOSET/RESTROOM RECEPT.		1P-20	35				36	1P-20	SPARE
SPARE		3P-30	37				38	3P-90	PANEL D
			39				40		
			41				42		
				KVA	2160.0	1000.0	0.0		
☐ 200% NEUTRAL BUSBAR ☒ 100% NEUTRAL BUSBAR ☒ EQUIPMENT GROUND BUSBAR ☒ 10,000 A.I.C. ☐ 30,000 A.I.C. ☐ INTEGRAL SPD ☐ SWITCH-DUTY C.Bs ☐ BOLT-IN C.Bs ☒ NEMA 12 ☒ CU. BUSBARS & LUGS ☐ AL. BUSBARS & LUGS ☐ NEMA 3R ☐ NEMA 4X									

BRANCH CIRCUIT PANELBOARD SCHEDULE										
PANEL : PANEL D	LOCATION: WWTP	MOUNTING: ☐ SURFACE ☐ FLUSH	RATING: 100A., 120/208V 3PH, 4W	MAIN: ☐ 100A. M.C.B. ☒ 100A. M.L.O.			REMARKS: PROVIDE OPTIONS MARKED WITH ☒			
LOAD DESIGNATION	CKT. BKR.	CKT. NO.	PHASE A B C			CKT. NO.	CKT. BKR.	LOAD DESIGNATION		
CHART RECORDER	1P-20	1	XXXX XX			2	1P-20	BUILDING RECEPTACLES		
MISSION CONTROL PANEL	1P-20	3	XXXX XXXX			4	1P-20	BUILDING LIGHTING		
SPARE	1P-20	5	XXXX XXXX			6	1P-20	WWSCP (PLC CONTROL PANEL)		
UV SYSTEM	3P-30	7	XXXX XX			8	1P-30	GENERATOR BATTERY CHARGER		
		9	XXXX			10	1P-20	EXISTING		
		11				12	1P-20	EXISTING		
IN-LINE WATER HEATER	1P-20	13	XX			14	1P-20	EXISTING		
WORK BENCH OUTLETS	1P-20	15	XX			16	2P-20			
WORK BENCH LIGHTS	1P-20	17	XX			18				
SHOP/BATH LIGHTS	1P-20	19	XX			20	1P-20	EXISTING		
COMPRESSOR	2P-30	21	XX			22	2P-30			
		23	XX			24		SPARE		
		25	XX			26				
WELDER	2P-50	27	XX			28		SPACE		
		29				30		SPACE		
SPACE								SPACE		
			KVA	4320.0	4480.0	2460.0				
☐ 200% NEUTRAL BUSBAR ☒ 100% NEUTRAL BUSBAR ☒ EQUIPMENT GROUND BUSBAR ☐ 10,000 A.I.C. ☐ 30,000 A.I.C. ☐ INTEGRAL SPD ☐ SWITCH-DUTY C.B.s ☐ BOLT-IN C.B.s ☐ NEMA 12 ☒ CU. BUSBARS & LUGS ☐ AL. BUSBARS & LUGS ☐ NEMA 3R ☐ NEMA 4X										

BRANCH CIRCUIT PANELBOARD SCHEDULE										
PANEL : PANEL E	LOCATION: SCREW PRESS	MOUNTING: ☒ SURFACE ☐ FLUSH	RATING: 100A., 120/208V 3PH, 4W	MAIN: ☒ 100A. M.C.B. ☐ 100A. M.L.O.		REMARKS: PROVIDE OPTIONS MARKED WITH ☒				
LOAD DESIGNATION	CKT. BKR.	CKT. NO.	PHASE A B C			CKT. NO.	CKT. BKR.	LOAD DESIGNATION		
SCREW PRESS ROOM LIGHTS	1P-20	1	1080.0	1080.0		2	1P-20	SCREW PRESS ROOM RECEPT.		
OVERHEAD DOOR	1P-20	3		1080.0	2400.0	4	1P-20	SCREW PRESS DAY TANK SCALE		
SPARE	1P-20	5			1500.0 900.0	6				
SCREW PRESS CONTROL PANEL	3P-80	7	900.0	1200.0		8	1P-15	EXHAUST FAN (EF-3)		
		9		1000.0		10				
		11				12	1P-20	SPARE		
		13				14				
SPARE	1P-20	15				16	3P-40	PTAC-1		
		17				18				
SPARE	1P-20	19				20	1P-20	SPARE		
SPARE	1P-20	21				22	2P-30	SPARE		
SPARE	1P-20	23				24				
SPACE		25				26		SPACE		
SPACE		27				28		SPACE		
SPACE		29				30		SPACE		
			KVA	4320.0	4480.0	2460.0				
☐ 200% NEUTRAL BUSBAR			☐ 10,000 A.I.C.			☐ SWITCH-DUTY C Bs	☒ CU. BUSBARS & LUGS			
☒ 100% NEUTRAL BUSBAR			☐ 30,000 A.I.C.			☐ BOLT-IN C Bs	☐ AL. BUSBARS & LUGS			
☒ EQUIPMENT GROUND BUSBAR			☐ INTEGRAL SPD			☐ NEMA 12	☐ NEMA 3R		☐ NEMA 4X	

PRINT DATE: 8/27/26
PLOT SCALE: 1:1

DRAWING FILE: P:\400-6314 SWEETSER WW IMPROVEMENTS\ACAD\PLAN SHEETS & WORKING DRAWINGS\400-6314 - ELECTRICAL CONDUIT-CABLE SCHEDULE.DWG

CONDUIT AND CABLE SCHEDULE									
CONDUIT			DESCRIPTION		USE	REMARKS	WIRE OR CABLE		
CONDUIT NO.	SIZE	MATERIAL	FROM	TO			NO. REQ'D	SIZE	INSULATION TYPE VOLTS
P/MAIN	(4) 4"	ALUMINUM ABOVE GRADE PVC BELOW	UTILITY CT CABINET AND METER	NEW 1200A ENTRANCE RATED MAINS DISCONNECT	POWER	120/208V, 3PH, 4W	(4 SETS) 4 - 350 CU; 1 - 3/O CU GND	THHN/ THWN-2	600
P/GRND	2"	ALUMINUM ABOVE GRADE PVC BELOW	GROUND ROD	GENERATOR AND 1200A ENTRANCE RATED MAINS DISCONNECT	USE PVC	THERMAL WELD AT GROUND ROD	BARE #2/O CU	THHN/ THWN-2	600
GRND	1"	PVC	EQUIPMENT	ELECTRICAL ROOM GROUND BUS BAR	WHERE RUNNING THROUGH BUILDING OR UNDERGROUND TO BOND POINT - USE PVC		BARE GROUND WIRE SIZED PER EQUIPMENT REQ.	THHN/ THWN-2	600
P/MDIS-ATS	(4) 4"	ALUMINUM ABOVE GRADE PVC BELOW	NEW 1200A ENTRANCE RATED MAINS DISCONNECT	NEW 1200A AUTOMATIC TRANSFER SWITCH (ATS)	POWER	120/208V, 3PH, 4W	(4 SETS) 4 - 350 CU; 1 - 3/O CU GND	THHN/ THWN-2	600
P/ATS-PANELA	(4) 4"	ALUMINUM ABOVE GRADE PVC BELOW	ATS	MAIN 1200A DISTRIBUTION PANEL (PANEL A)	POWER	120/208V, 3PH, 4W	(4 SETS) 4 - 350 CU; 1 - 3/O CU GND	THHN/ THWN-2	600
C/JIATS	1"	ALUMINUM ABOVE GRADE PVC BELOW	ATS	MSCP PLC CONTROL PANEL	SIGNALS	EMERGENCY/NORMAL POWER	6 - #14 CU	THHN/ THWN-2	600
I/GEN	1"	ALUMINUM ABOVE GRADE PVC BELOW	GENERATOR	MSCP PLC CONTROL PANEL	COMMUNICATIONS AND STATUSES		1 - CAT6, 6 - #14 CU	BELDEN 7953A; THHN/THWN-2	600
P/GEN/BAT	1"	ALUMINUM ABOVE GRADE PVC BELOW	PANEL C	GENERATOR	120V POWER		2 - #12 CU, 1 - #12 CU GND	THHN/ THWN-2	600
P/GEN	(3) 4"	ALUMINUM ABOVE GRADE PVC BELOW	ATS	GENERATOR	208V, 3PH POWER		3 SETS: 4 - 350 CU, 1 - #2/O CU GND	THHN/ THWN-2	600
G/GEN-GND	1"	PVC TO GROUND ROD	GENERATOR HOUSING	GROUND ROD	GROUND		#2/O BARE		
P/UH1	1 1/4"	SCH 80 PVC PVC BELOW	NEW PANEL A	NEW NEMA4X WIRE TROUGH - EXISTING UNIT HEATER #1	208V, 3PH POWER		3 - #3 CU, 1 - #8 CU GND	THHN/ THWN-2	600
P/UH2	1 1/4"	SCH 80 PVC PVC BELOW; RTRC ABOVE	NEW PANEL A	NEW NEMA4X WIRE TROUGH - EXISTING UNIT HEATER #2	208V, 3PH POWER		3 - #3 CU, 1 - #8 CU GND	THHN/ THWN-2	600
P/CLCP	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	NEW PANEL A	NEW NEMA4X WIRE TROUGH - EXISTING CLARIFIER CONTROL PANEL	208V, 3PH POWER		3 - #10 CU, 1 - #10 CU GND	THHN/ THWN-2	600
P/RDSCP	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	NEW PANEL A	NEW NEMA4X WIRE TROUGH - EXISTING FINE SCREEN CONTROL PANEL	208V, 3PH POWER		3 - #12 CU, 1 - #12 CU GND	THHN/ THWN-2	600
P/SSPCP	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	NEW PANEL A	NEW SLUDGE SCREW PRESS CONTROL PANEL (SSPCP)	208V, 3PH POWER		3 - #10 CU, 1 - #10 CU GND	THHN/ THWN-2	600
P/EF-GAR	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	NEW PANEL A	NEW NEMA4X WIRE TROUGH - EXISTING GARAGE EXHAUST FAN	208V, 3PH POWER		3 - #10 CU, 1 - #10 CU GND	THHN/ THWN-2	600
P/EF1-PLNT	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	FROM EX-HAUST FAN VFD	EX-HAUST FAN #1 DISCONNECT	208V, 3PH POWER	REFERENCE TO P/EF1-2A AND P/EF1-2B	3 - #10 CU, 1 - #10 CU GND	THHN/ THWN-2	600
P/EF2-PLNT	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	FROM EX-HAUST FAN VFD	EX-HAUST FAN #2 DISCONNECT	208V, 3PH POWER	REFERENCE TO P/EF1-2A AND P/EF1-2B	3 - #10 CU, 1 - #10 CU GND	THHN/ THWN-2	600
P/LAB-AC	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	NEW PANEL A	NEW NEMA4X WIRE TROUGH - EXISTING LAB ROOM A/C UNIT	POWER		3 - #10 CU, 1 - #10 CU GND	THHN/ THWN-2	600
P/LAB-HTR	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	NEW PANEL A	NEW NEMA4X WIRE TROUGH - EXISTING LAB ROOM FURNACE UNIT	POWER		3 - #6 CU, 1 - #10 CU GND	THHN/ THWN-2	600
P/RASWAS	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	NEW PANEL A	RELOCATED RAS/WAS PANEL	POWER		3 - #6 CU, 1 - #10 CU GND	THHN/ THWN-2	600
P/PNLC	1 1/4"	SCH 80 PVC PVC BELOW; RTRC ABOVE	NEW PANEL A	NEW NEMA4X WIRE TROUGH - EXISTING PANEL C 100A	POWER		3 - #3 CU, 1 - #8 CU GND	THHN/ THWN-2	600
P/GRMPMP	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	NEW PANEL A	NEW NEMA4X WIRE TROUGH - EXISTING GRINDER PUMP	POWER		3 - #10 CU, 1 - #10 CU GND	THHN/ THWN-2	600
P/SLGMPMP	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	NEW PANEL A	NEW NEMA4X WIRE TROUGH - EXISTING GRINDER PUMP	POWER		3 - #10 CU, 1 - #10 CU GND	THHN/ THWN-2	600
P/BLWRCP	3"	SCH 80 PVC PVC BELOW; RTRC ABOVE	NEW PANEL A	NEW NEMA4X WIRE TROUGH - EXISTING BLOWER CONTROL PANEL	POWER		3 - #250 CU, 1 - #4 CU GND	THHN/ THWN-2	600
P/ACMCP	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	NEW PANEL C	NEW ELECTRIC ACTUATOR CENTRAL MAIN POWER AND CONTROL PANEL (ACMCP)	120V, 1PH POWER		2 - #8 CU, 1 - #10 CU GND	THHN/ THWN-2	600
P/BV1001	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP	BV1001 ACTUATOR	120V, 1PH POWER		2 - #12 CU, 1 - #12 CU GND	THHN/ THWN-2	600
I/BV1001	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP	BV1001 ACTUATOR	COMMUNICATIONS, CONTROL, STATUS AND ALARM SIGNALS		10 - #14 CU, 2 - #16 TSP, 1 - CAT6	THHN/ THWN-2	600
P/BV1002	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP	BV1002 ACTUATOR	120V, 1PH POWER		2 - #12 CU, 1 - #12 CU GND	THHN/ THWN-2	600
I/BV1002	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP	BV1002 ACTUATOR	COMMUNICATIONS, CONTROL, STATUS AND ALARM SIGNALS		10 - #14 CU, 2 - #16 TSP, 1 - CAT6	THHN/ THWN-2	600
P/BV1003	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP	BV1003 ACTUATOR	120V, 1PH POWER		2 - #12 CU, 1 - #12 CU GND	THHN/ THWN-2	600
I/BV1003	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP	BV1003 ACTUATOR	COMMUNICATIONS, CONTROL, STATUS AND ALARM SIGNALS		10 - #14 CU, 2 - #16 TSP, 1 - CAT6	THHN/ THWN-2	600
P/BV1004	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP	BV1004 ACTUATOR	120V, 1PH POWER		2 - #12 CU, 1 - #12 CU GND	THHN/ THWN-2	600
I/BV1004	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP	BV1004 ACTUATOR	COMMUNICATIONS, CONTROL, STATUS AND ALARM SIGNALS		10 - #14 CU, 2 - #16 TSP, 1 - CAT6	THHN/ THWN-2	600
P/BV1005	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP	BV1005 ACTUATOR	120V, 1PH POWER		2 - #12 CU, 1 - #12 CU GND	THHN/ THWN-2	600
I/BV1005	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP	BV1005 ACTUATOR	COMMUNICATIONS, CONTROL, STATUS AND ALARM SIGNALS		10 - #14 CU, 2 - #16 TSP, 1 - CAT6	THHN/ THWN-2	600
P/BV1006	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP	BV1006 ACTUATOR	120V, 1PH POWER		2 - #12 CU, 1 - #12 CU GND	THHN/ THWN-2	600
I/BV1006	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP	BV1006 ACTUATOR	COMMUNICATIONS, CONTROL, STATUS AND ALARM SIGNALS		10 - #14 CU, 2 - #16 TSP, 1 - CAT6	THHN/ THWN-2	600
P/BV1007	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP	BV1007 ACTUATOR	120V, 1PH POWER		2 - #12 CU, 1 - #12 CU GND	THHN/ THWN-2	600
I/BV1007	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP	BV1007 ACTUATOR	COMMUNICATIONS, CONTROL, STATUS AND ALARM SIGNALS		10 - #14 CU, 2 - #16 TSP, 1 - CAT6	THHN/ THWN-2	600
P/GV2001	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP	GV2001 ACTUATOR	120V, 1PH POWER		2 - #12 CU, 1 - #12 CU GND	THHN/ THWN-2	600
I/GV2001	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP	GV2001 ACTUATOR	COMMUNICATIONS, CONTROL, STATUS AND ALARM SIGNALS		10 - #14 CU, 2 - #16 TSP, 1 - CAT6	THHN/ THWN-2	600
P/GV2002	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP	GV2002 ACTUATOR	120V, 1PH POWER		2 - #12 CU, 1 - #12 CU GND	THHN/ THWN-2	600
I/GV2002	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP	GV2002 ACTUATOR	COMMUNICATIONS, CONTROL, STATUS AND ALARM SIGNALS		10 - #14 CU, 2 - #16 TSP, 1 - CAT6	THHN/ THWN-2	600
P/PV2007	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP	PV2007 ACTUATOR	120V, 1PH POWER		2 - #12 CU, 1 - #12 CU GND	THHN/ THWN-2	600
I/PV2007	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP	PV2007 ACTUATOR	COMMUNICATIONS, CONTROL, STATUS AND ALARM SIGNALS		10 - #14 CU, 2 - #16 TSP, 1 - CAT6	THHN/ THWN-2	600

P/PV2008	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP	PV2008 ACTUATOR	120V, 1PH POWER		2 - #12 CU, 1 - #12 CU GND	THHN/ THWN-2	600
I/PV2008	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP	PV2008 ACTUATOR	COMMUNICATIONS, CONTROL, STATUS AND ALARM SIGNALS		10 - #14 CU, 2 - #16 TSP, 1 - CAT6	THHN/ THWN-2	600
P/PV2009	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP	PV2009 ACTUATOR	120V, 1PH POWER		2 - #12 CU, 1 - #12 CU GND	THHN/ THWN-2	600
I/PV2009	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP	PV2009 ACTUATOR	COMMUNICATIONS, CONTROL, STATUS AND ALARM SIGNALS		10 - #14 CU, 2 - #16 TSP, 1 - CAT6	THHN/ THWN-2	600
P/PV2010	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP	PV2010 ACTUATOR	120V, 1PH POWER		2 - #12 CU, 1 - #12 CU GND	THHN/ THWN-2	600
I/BV2010	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP	BV2010 ACTUATOR	COMMUNICATIONS, CONTROL, STATUS AND ALARM SIGNALS		10 - #14 CU, 2 - #16 TSP, 1 - CAT6	THHN/ THWN-2	600
P/FCU1-A	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	PANEL-A	FCU-1 SPLIT UNIT DISCONNECT	208V, 3PH POWER		3 - #10 CU, 1 - #10 CU GND	THHN/ THWN-2	600
P/FCU1-B	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	FCU-1 SPLIT UNIT DISCONNECT	FCU-1 INSIDE UNIT	208V, 3PH POWER		3 - #10 CU, 1 - #10 CU GND	THHN/ THWN-2	600
P/FCU1-C	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	FCU-1 INSIDE UNIT	FCU-1 OUTSIDE UNIT	208V, 3PH POWER		3 - #10 CU, 1 - #10 CU GND	THHN/ THWN-2	600
P/EF1-2A	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	PANEL-A	EXHAUST FAN VFD UNITS	208V, 3PH POWER	2 SETS (EF-1 AND EF-2) REFERENCE P/EF1-PLNT	3 - #10 CU, 1 - #10 CU GND	THHN/ THWN-2	600
P/EF1-2B	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	EXHAUST FAN VFD UNITS	EXHAUST FAN DISCONNECT VIA P/PB-C AND P/PB-A	208V, 3PH POWER	2 SETS (EF-1 AND EF-2) REFERENCE P/EF2-PLNT	3 - #10 CU, 1 - #10 CU GND	THHN/ THWN-2	600
P/ACNCP	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP DISTRIBUTION BLOCK	ACNCP CIRCUIT BREAKER	120V, 1PH POWER		2 - #12 CU, 1 - #12 CU GND	THHN/ THWN-2	600
P/ACMCP	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	PANEL-C	ACMCP ACTUATOR POWER DISTRIBUTION PANEL	120V, 1PH POWER	SEE SHEET I104	2 - #8 CU, 1 - #8 CU GND	THHN/ THWN-2	600
P/ACTRS	2"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACMCP ACTUATOR POWER DISTRIBUTION PANEL	13 INDIVIDUAL ACTUATORS	120V, 1PH POWER	13 SETS	2 - #12 CU, 1 - #12 CU GND	THHN/ THWN-2	600
I/ACT-ETH	2"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ACNCP ACTUATOR NETWORK PANEL	13 INDIVIDUAL ACTUATORS	COMMUNICATIONS		13 - CAT6	BELDEN 7953A	
I/ETH	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	CONTROL PANEL/SWITCH	EQUIPMENT	ETHERNET CABLE - COMMUNICATIONS		CAT6	BELDEN 7953A	
P/PNLB	2 1/2"	SCH 80 PVC PVC BELOW; RTRC ABOVE	NEW PANEL A	NEW NEMA4X WIRE TROUGH - EXISTING PANEL B 200A	POWER		3 - #3/O CU, 1 - #6 CU GND	THHN/ THWN-2	600
P/MSCP	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	PANEL C	NEW MAIN SCADA CONTROL PANEL "MSCP"	120V POWER		2 - #12 CU, 1 - #12 CU GND	THHN/ THWN-2	600
I/C/FM-MFG	1-1/2"	SCH 80 PVC PVC BELOW; RTRC ABOVE	FLOW METER VAULT	FLOW METER ELECTRONICS	MANUFACTURER COIL AND ELECTRODE CABLES	DO NOT CUT - ORDER TO LENGTH	MANUFACTURER		
P/ER-LTG	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	PANEL C	ELECTRICAL ROOM RECHVACLES	120V POWER		2 - #12 CU, 1 - #12 CU GND	THHN/ THWN-2	600
P/ER-REC	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	PANEL C	ELECTRICAL ROOM LIGHTING	120V POWER		2 - #12 CU, 1 - #12 CU GND	THHN/ THWN-2	600
I/AERDIG-DO	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	AERATION AND DIGESTER TANKS 1 & 2 DO CONTROLLERS	MSCP PLC CONTROL PANEL	COMMUNICATIONS		2 - CAT6	BELDEN 7953A	
I/DO-A	3/4"	SCH 80 PVC PVC BELOW; RTRC ABOVE	DIGESTER TANK #1 DO SENSOR	SC4500 CONTROLLER	SENSOR CABLE	ORDER TO LENGTH FROM MFR			
I/DO-B	3/4"	SCH 80 PVC PVC BELOW; RTRC ABOVE	DIGESTER TANK #2 DO SENSOR	SC4500 CONTROLLER	SENSOR CABLE	ORDER TO LENGTH FROM MFR			
I/DIG-LVL	3/4"	SCH 80 PVC PVC BELOW; RTRC ABOVE	DIGESTER RADAR LEVEL TRANSMITTER	SCREW PRESS CONTROL PANEL (SSPCP)	4-20MA SIGNAL	JOIN IN ONE CONDUIT TO SSPCP	1 - #16 TSP	BELDEN 9316	
I/FM-RATE	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	MSCP	INFLUENT FLOW METER INTEGRAL ELECTRONICS	4-20MA SIGNAL		1 - #16 TSP	BELDEN 9316	
P/FM-PWR	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	PANEL C	INFLUENT FLOW METER POWER	120V POWER		2 - #12 CU, 1 - #12 CU GND	THHN/ THWN-2	600
P/120-15A	3/4"	SCH 80 PVC PVC BELOW; RTRC ABOVE	DEVICE	LIGHTING PANEL AS SHOWN ON DRAWINGS	120V POWER		2 - #14 CU, 1 - #14 CU GND	THHN/ THWN-2	600
P/120-20A	3/4"	SCH 80 PVC PVC BELOW; RTRC ABOVE	DEVICE	LIGHTING PANEL AS SHOWN ON DRAWINGS	120V POWER		2 - #12 CU, 1 - #12 CU GND	THHN/ THWN-2	600
P/3B-AB	2"	SCH 80 PVC	P/PB-A	P/PB-B	MISCELLANEOUS POWER TO EQUIPMENT	4 - 2" CONDUITS			
I/3B-AB	2"	SCH 80 PVC	P/PB-A	P/PB-B	MISCELLANEOUS SIGNALS AND FIBER TO EQUIPMENT	4 - 2" CONDUITS			
P/WW-LTG	3/4"	SCH 80 PVC PVC BELOW; RTRC ABOVE	LIGHTS	PANEL C	120V POWER		2 - #12 CU, 1 - #12 CU GND	THHN/ THWN-2	600
I/C/UWSYS	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	UV SYSTEM CONTROL PANEL	INSTRUMENT JUNCTION BOX JB-1	CONTROL/SIGNALS	UV SIGNALS, FLOW METER, SAMPLER, WEST TEMP	4 - #16 TSP; 1 - CAT6	BELDEN 9316; 7953A	600
I/C/RDSCP	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ROTARY SCREEN CONTROL PANEL	MSCP PLC CONTROL PANEL	CONTROL AND STATUS SIGNALS		12 - #14 CU	THHN/ THWN-2	600
P/RDS-MTR	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	ROTARY SCREEN CONTROL PANEL	DRUM SCREEN UNIT			3 - #10 CU, 1 - #10 CU GND	THHN/ THWN-2	600
P/GRPCP	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	PANEL E	GRINDER PUMP STATION	208V, 3PH POWER		3 - #8 CU, 1 - #10 CU GND	THHN/ THWN-2	600
P/GRPCP	1-1/4"	SCH 80 PVC PVC BELOW; RTRC ABOVE	SCREW PRESS PLC CONTROL PANEL (SSPCP)	GRINDER PUMP STATION	208V, 3PH POWER		3 - #8 CU, 1 - #10 CU GND	THHN/ THWN-2	600
I/GRPCP-A	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	SCREW PRESS PLC CONTROL PANEL (SSPCP)	WET WELL PUMPS	MOTOR POWER CABLES				
I/GRPCP-B	1-1/4"	SCH 80 PVC PVC BELOW; RTRC ABOVE	WET WELL	SCREW PRESS PLC CONTROL PANEL (SSPCP)	SIGNALS				
I/WAS-FLW	3/4"	SCH 80 PVC PVC BELOW; RTRC ABOVE	EXISTING WAS MAGNETIC FLOW METER HOUSING	INSTRUMENT JUNCTION BOX JB-1	4-20MA		1 - #16 TSP	BELDEN 9316	
I/RAS-FLW	3/4"	SCH 80 PVC PVC BELOW; RTRC ABOVE	EXISTING RAS MAGNETIC FLOW METER HOUSING	INSTRUMENT JUNCTION BOX JB-1	4-20MA		1 - #16 TSP	BELDEN 9316	
I/INS-JB1	2"	SCH 80 PVC PVC BELOW; RTRC ABOVE	INSTRUMENT JUNCTION BOX JB-1	MSCP PLC CONTROL PANEL	SIGNALS AND COMMUNICATION				
I/INF-FLW	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	FLOW METER ELECTRONICS CONTROL PANEL	MSCP PLC CONTROL PANEL VIA JB-2		INFLUENT FLOW RATE; TEMPERATURE EAST AREA; SPARE	3 - #16 TSP	BELDEN 9316	
I/C/EFFL	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	POST SYSTEM EFFLUENT SAMPLER AND FLOW METER	JB-1 VIA UV SYSTEM CONTROL PANEL	SIGNALS		4 - #16 TSP	BELDEN 9316	
I/FO	1"	HDPE	OFFICE	MSCP PLC CONTROL PANEL; NEW RAS/WAS PLC PANEL; EXISTING BLOWER PANEL	COMMUNICATIONS: FIBER RING NETWORK	OWN: 500m CORE; AQUA JACKET; SUPPORTS 10G to 550m AND 40G/100G UP TO 150m	4 STRAND, MULTI-MODE	DIRECT BURIAL TYPE IN HDPE	
I/AER12-LVL	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	PB-1	MSCP	4-20MA		2 - #16 TSP	BELDEN 9316	
I/AIR-PSI-1/2	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	NEW RAS/WAS CONTROL PANEL	COMMON JUNCTION BOX	4-20MA		2 - #16 TSP	BELDEN 9316	
I/AIR-PSI-1	3/4"	SCH 80 PVC PVC BELOW; RTRC ABOVE	NEW RAS/WAS CONTROL PANEL	COMMON JUNCTION BOX FROM EACH DEVICE	4-20MA		1 - #16 TSP	BELDEN 9316	
I/AIR-PSI-2	3/4"	SCH 80 PVC PVC BELOW; RTRC ABOVE	NEW RAS/WAS CONTROL PANEL	COMMON JUNCTION BOX FROM EACH DEVICE	4-20MA		1 - #16 TSP	BELDEN 9316	
I/CLFRCP	1"	SCH 80 PVC PVC BELOW; RTRC ABOVE	EXISTING CLARIFIER CONTROL PANEL	NEW RAS/WAS PLC CONTROL PANEL	SIGNALS		20 - #14 CU	THHN/ THWN-2	600



SWEETSER WASTE WATER IMPROVEMENTS

SWEETSER, INDIANA, 46987

#	Revision	Date

Project #: 400-6314

Designed By: JAR

Drawn By: JAR

Checked By: ALC & DB

Date: 08/14/2026

PRINT DATE: 8/27/26
PLOT SCALE: 1:1
DRAWING FILE: P:\400-6314 SWEETSER WW IMPROVEMENTS\5 ACAD\PLAN SHEETS & WORKING DRAWINGS\400-6314 - ELECTRICAL CONDUIT-CABLE SCHEDULE B.DWG
BY: JREED
DATE: 8/13/26 12:36 PM
EDITED BY:

I/SP-DTSC-L	1"	SCH 80 PVC PVC. BELOW; RTRC ABOVE	SCREW PRESS DAY TANK SCALE ELECTRONICS	MSCP CONTROL PANEL	SIGNALS		4 - #14 CU; 1 #16 TSP	BELDEN 9316	600
I/H2S-CH4	1"	SCH 80 PVC PVC. BELOW; RTRC ABOVE	MSCP	GAS DETECTION DEVICES	SIGNALS	2 SETS: 24VDC POWER, 4-20MA SIGNAL	4 - #16 TSP	BELDEN 9316	600
P/SR-EXFAN	1"	SCH 80 PVC PVC. BELOW; RTRC ABOVE	PANEL E	SCREW PRESS ROOM EXHAUST FAN	208V, 3PH POWER		3 - #10 CU, 1 #10 CU GND	THHN/ THWN-2	600
P/PNL-E	1"	SCH 80 PVC PVC. BELOW; RTRC ABOVE	PANEL A	PANEL E IN NEW SCREW PRESS ROOM	208V, 3PH POWER		3 - #3 CU, 1 #8 CU GND	THHN/ THWN-2	600
P/PTAC-1	1"	SCH 80 PVC PVC. BELOW; RTRC ABOVE	PANEL E	SCREW PRESS ROOM PTAC UNIT	208V, 3PH POWER		3 - #8 CU, 1 #10 CU GND	THHN/ THWN-2	600
P/EUH1	1"	SCH 80 PVC PVC. BELOW; RTRC ABOVE	PANEL C	UNIT HEATER EUH-1	208V, 1PH POWER		2 - #12 CU, 1 #12 CU GND	THHN/ THWN-2	600
P/SHRT-LS	2"	ALUMINUM ABOVE GRADE PVC. BELOW	UTILITY POLE	UTILITY METER BASE	230V, 3PH		3 - #3 CU, 1 #8 CU GND	THHN/ THWN-2	600
P/SHRT-LSA	2"	ALUMINUM ABOVE GRADE PVC. BELOW	UTILITY METER	MAIN DISCONNECT	230V, 3PH		3 - #3 CU, 1 #8 CU GND	THHN/ THWN-2	600
P/SHRT-LSB	2"	ALUMINUM ABOVE GRADE PVC. BELOW	MAIN DISCONNECT	PUMP CONTROL PANEL	230V, 3PH		3 - #3 CU, 1 #8 CU GND	THHN/ THWN-2	600
I/SHRT-LSC	1-1/2"	ALUMINUM ABOVE GRADE PVC. BELOW	INSTRUMENTATION VENT BOX	PUMP CONTROL PANEL	SIGNALS		1 - #16 TSP; 10 - #14 CU	BELDEN 9316; THHN/ THWN-2	600
P/SHRT-LS-P1	1"	ALUMINUM ABOVE GRADE PVC. BELOW	PUMP VENT BOX	PUMP CONTROL PANEL	230V, 3PH		3 - #10 CU, 1- #10 CU GND	THHN/ THWN-2	600
P/SHRT-LS-P2	1"	ALUMINUM ABOVE GRADE PVC. BELOW	PUMP VENT BOX	PUMP CONTROL PANEL	230V, 3PH		3 - #10 CU, 1- #10 CU GND	THHN/ THWN-2	600
P/SHRT-LS-P1-MFR	1-1/2"	ALUMINUM ABOVE GRADE PVC. BELOW	PUMP VENT BOX	LIFT STATION WET WELL	230V, 3PH			MANUFACTURER	
P/SHRT-LS-P2-MFR	1-1/2"	ALUMINUM ABOVE GRADE PVC. BELOW	PUMP VENT BOX	LIFT STATION WET WELL	230V, 3PH			MANUFACTURER	
I/SHRT-LSA	1-1/2"	ALUMINUM ABOVE GRADE PVC. BELOW	INSTRUMENTATION VENT BOX	INSTRUMENTS IN WET WELL	SIGNALS	FLOAT SWITCHES	FLOAT MFR CABLES	BELDEN 9316; THHN/ THWN-2	600
I/SHRT-LSB	1-1/2"	ALUMINUM ABOVE GRADE PVC. BELOW	INSTRUMENTATION VENT BOX	INSTRUMENTS IN WET WELL	SIGNALS	RADAR LEVEL	1 - #16 TSP	BELDEN 9316; THHN/ THWN-2	600
P/KLLY-LS	2"	ALUMINUM ABOVE GRADE PVC. BELOW	UTILITY POLE	UTILITY METER BASE	230V, 3PH		EXISTING	THHN/ THWN-2	600
P/KLLY-LSA	2"	ALUMINUM ABOVE GRADE PVC. BELOW	UTILITY METER	MAIN DISCONNECT	230V, 3PH		EXISTING	THHN/ THWN-2	600
P/KLLY-LSB	2"	ALUMINUM ABOVE GRADE PVC. BELOW	MAIN DISCONNECT	PUMP CONTROL PANEL	230V, 3PH		EXISTING	THHN/ THWN-2	600
P/KLLY-LSC	3"	ALUMINUM ABOVE GRADE PVC. BELOW	PUMP CONTROL PANEL	MOTOR POWER VENT BOX	230V, 3PH		(2 SETS) 3 - #2/0 CU; 1 - #6 CU GND	THHN/ THWN-2	600
I/KLLY-LSC	1-1/2"	ALUMINUM ABOVE GRADE PVC. BELOW	INSTRUMENTATION VENT BOX	PUMP CONTROL PANEL	SIGNALS		1 - #16 TSP; 10 - #14 CU	BELDEN 9316; THHN/ THWN-2	600
P/KLLY-LS-P1	2"	ALUMINUM ABOVE GRADE PVC. BELOW	PUMP VENT BOX	PUMP CONTROL PANEL	230V, 3PH		3 - #1 CU, 1- #6 CU GND	THHN/ THWN-2	600
P/KLLY-LS-P2	2"	ALUMINUM ABOVE GRADE PVC. BELOW	PUMP VENT BOX	PUMP CONTROL PANEL	230V, 3PH		3 - #1 CU, 1- #6 CU GND	THHN/ THWN-2	600
P/KLLY-LS-P1-MFR	1-1/2"	ALUMINUM ABOVE GRADE PVC. BELOW	PUMP VENT BOX	LIFT STATION WET WELL	230V, 3PH			MANUFACTURER	
P/KLLY-LS-P2-MFR	1-1/2"	ALUMINUM ABOVE GRADE PVC. BELOW	PUMP VENT BOX	LIFT STATION WET WELL	230V, 3PH			MANUFACTURER	
I/KLLY-LSA	1-1/2"	ALUMINUM ABOVE GRADE PVC. BELOW	INSTRUMENTATION VENT BOX	INSTRUMENTS IN WET WELL	SIGNALS	FLOAT SWITCHES	FLOAT MFR CABLES	BELDEN 9316; THHN/ THWN-2	600
I/KLLY-LSB	1-1/2"	ALUMINUM ABOVE GRADE PVC. BELOW	INSTRUMENTATION VENT BOX	INSTRUMENTS IN WET WELL	SIGNALS	RADAR LEVEL	1 - #16 TSP	BELDEN 9316; THHN/ THWN-2	600
P/KLLY-SP	1"	ALUMINUM ABOVE GRADE PVC. BELOW	PUMP CONTROL PANEL	METER VAULT SUMP PUMP			2 - #12 CU; 1 - #12 CU GND	THHN/ THWN-2	600
P/BANK-LS	2"	ALUMINUM ABOVE GRADE PVC. BELOW	UTILITY POLE	UTILITY METER BASE	230V, 3PH		EXISTING	THHN/ THWN-2	600
P/BANK-LSA	2"	ALUMINUM ABOVE GRADE PVC. BELOW	UTILITY METER	MAIN DISCONNECT	230V, 3PH		EXISTING	THHN/ THWN-2	600
P/BANK-LSB	2"	ALUMINUM ABOVE GRADE PVC. BELOW	MAIN DISCONNECT	PUMP CONTROL PANEL	230V, 3PH		EXISTING	THHN/ THWN-2	600
I/BANK-LSC	1-1/2"	ALUMINUM ABOVE GRADE PVC. BELOW	INSTRUMENTATION VENT BOX	PUMP CONTROL PANEL	SIGNALS		1 - #16 TSP; 10 - #14 CU	BELDEN 9316; THHN/ THWN-2	600
P/BANK-PCP	1"	ALUMINUM	VFD CONTROL PANEL	PUMP CONTROL PANEL	230V, 3PH		3 - #12 CU, 1 - #12 CU GND	THHN/ THWN-2	600
P/BANK-LS-P1	2"	ALUMINUM ABOVE GRADE PVC. BELOW	PUMP VENT BOX	PUMP CONTROL PANEL	230V, 3PH		3 - #1 CU, 1- #6 CU GND	THHN/ THWN-2	600
P/BANK-LS-P2	2"	ALUMINUM ABOVE GRADE PVC. BELOW	PUMP VENT BOX	PUMP CONTROL PANEL	230V, 3PH		3 - #1 CU, 1- #6 CU GND	THHN/ THWN-2	600
P/BANK-LS-P1-MFR	1-1/2"	ALUMINUM ABOVE GRADE PVC. BELOW	PUMP VENT BOX	LIFT STATION WET WELL	230V, 3PH			MANUFACTURER	
P/BANK-LS-P2-MFR	1-1/2"	ALUMINUM ABOVE GRADE PVC. BELOW	PUMP VENT BOX	LIFT STATION WET WELL	230V, 3PH			MANUFACTURER	
I/BANK-LSA	1-1/2"	ALUMINUM ABOVE GRADE PVC. BELOW	INSTRUMENTATION VENT BOX	INSTRUMENTS IN WET WELL	SIGNALS	FLOAT SWITCHES	FLOAT MFR CABLES	BELDEN 9316; THHN/ THWN-2	600
I/BANK-LSB	1-1/2"	ALUMINUM ABOVE GRADE PVC. BELOW	INSTRUMENTATION VENT BOX	INSTRUMENTS IN WET WELL	SIGNALS	RADAR LEVEL	1 - #16 TSP	BELDEN 9316; THHN/ THWN-2	600
I/BANK-PLW	1"	ALUMINUM ABOVE GRADE PVC. BELOW	PUMP CONTROL PANEL	DOPPLER CLAMP ON SENSOR		MANUFACTURER CABLE (DO NOT CUT - ORDER TO LENGTH)			
P/EGLE-LSA	2"	ALUMINUM ABOVE GRADE PVC. BELOW	UTILITY METER	RONK MANUAL TRANSFER SWITCH DISCONNECT	240V, 1PH		3 - #3 CU, 1 - #8 CU GND	THHN/ THWN-2	600
P/EGLE-LSB	2"	ALUMINUM ABOVE GRADE PVC. BELOW	RONK MANUAL TRANSFER SWITCH DISCONNECT	PUMP CONTROL PANEL	240V, 1PH		EXISTING	THHN/ THWN-2	600
I/EGLE-LSC	1-1/2"	ALUMINUM ABOVE GRADE PVC. BELOW	INSTRUMENTATION VENT BOX	PUMP CONTROL PANEL	SIGNALS		1 - #16 TSP; 10 - #14 CU	BELDEN 9316; THHN/ THWN-2	600
P/EGLE-LS-PMP	2"	ALUMINUM ABOVE GRADE PVC. BELOW	PUMP VENT BOX	PUMP CONTROL PANEL	240V, 3PH	PUMP #1 AND PUMP #2 POWER WIRING; PUMP #1 SEAL FAIL/OVERTEMP WIRING	(2 SETS) 3 - #12 CU, 1 - #12 CU GND; 4 - #14 CU	THHN/ THWN-2	600
P/EGLE-LS-P1-MFR	1-1/2"	ALUMINUM ABOVE GRADE PVC. BELOW	PUMP VENT BOX	LIFT STATION WET WELL	240V, 1PH			MANUFACTURER	
P/EGLE-LS-P2-MFR	1-1/2"	ALUMINUM ABOVE GRADE PVC. BELOW	PUMP VENT BOX	LIFT STATION WET WELL	240V, 1PH			MANUFACTURER	
I/EGLE-LSA	1-1/2"	ALUMINUM ABOVE GRADE PVC. BELOW	INSTRUMENTATION VENT BOX	INSTRUMENTS IN WET WELL	SIGNALS	FLOAT SWITCHES	FLOAT MFR CABLES	BELDEN 9316; THHN/ THWN-2	600
I/EGLE-LSB	1-1/2"	ALUMINUM ABOVE GRADE PVC. BELOW	INSTRUMENTATION VENT BOX	INSTRUMENTS IN WET WELL	SIGNALS	RADAR LEVEL	1 - #16 TSP	BELDEN 9316; THHN/ THWN-2	600
I/TSP	3/4"	ALUMINUM ABOVE GRADE PVC. BELOW	INSTRUMENT	PULL BOX AND MSCP	SIGNALS		1 - #16 TSP	BELDEN 9316; THHN/ THWN-2	600
P/CLFRCP	1-1/4"	SCH 80 PVC PVC. BELOW; RTRC ABOVE	CLARIFIER MOTOR CONTROL PANEL	EQUIPMENT PULL BOX	208V, 3PH POWER; CONTROL STATION WIRING	CLARIFIER #1, CLARIFIER #2, AIR SCUM #1 AND AIR SCUM #2 POWER WIRES	(4 SETS) 3 - #12 CU, 1 - #12 CU GND; 12 - #14 CU	THHN/ THWN-2	600



SWEETSER WASTE WATER IMPROVEMENTS

SWEETSER, INDIANA, 46987

#	Revision	Date

Project #: 400-6314

Designed By: JAR

Drawn By: JAR

Checked By: ALC & DB

Date: 08/14/2026



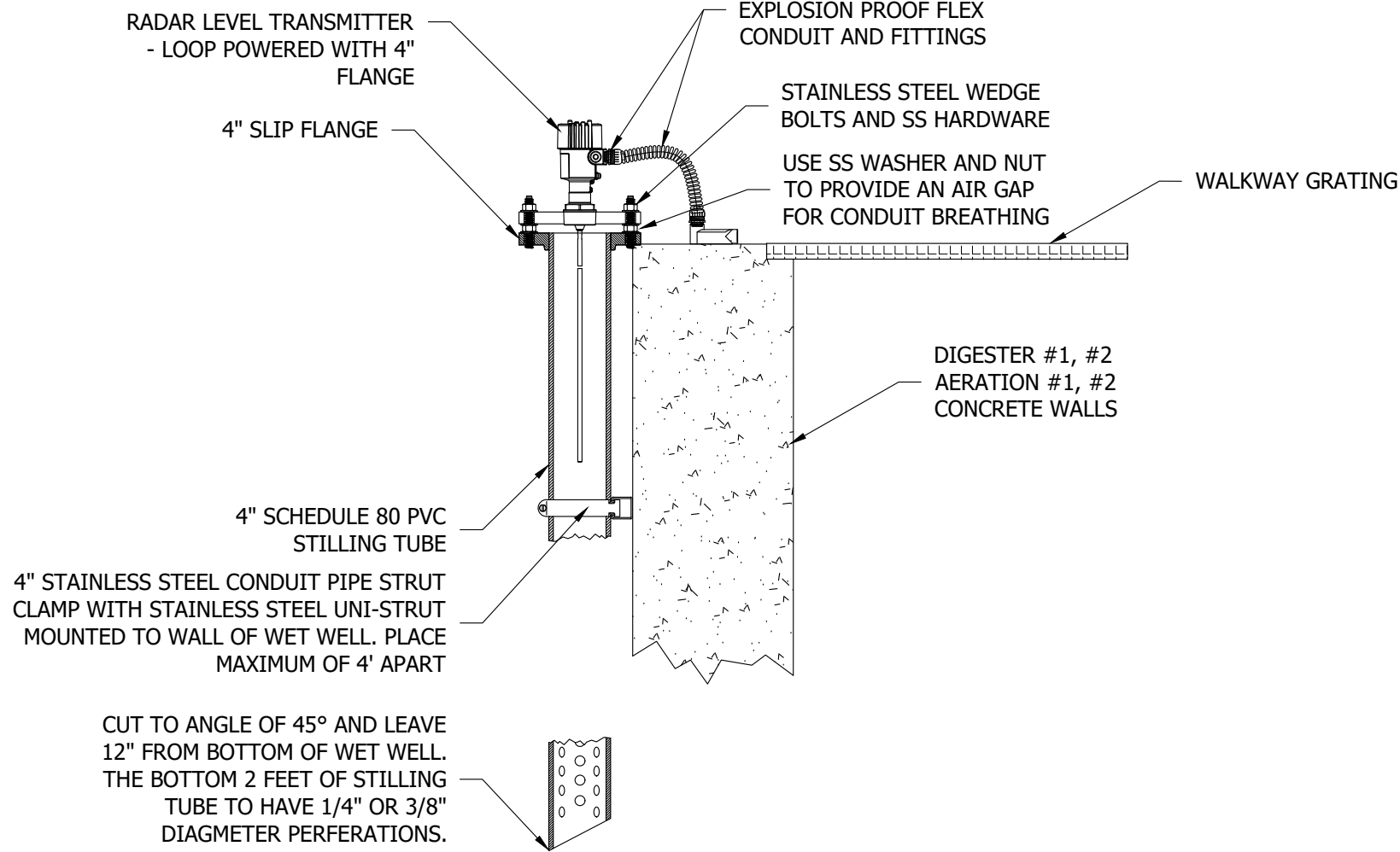
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CONDUIT-CABLE
SCHEDULE

E107B

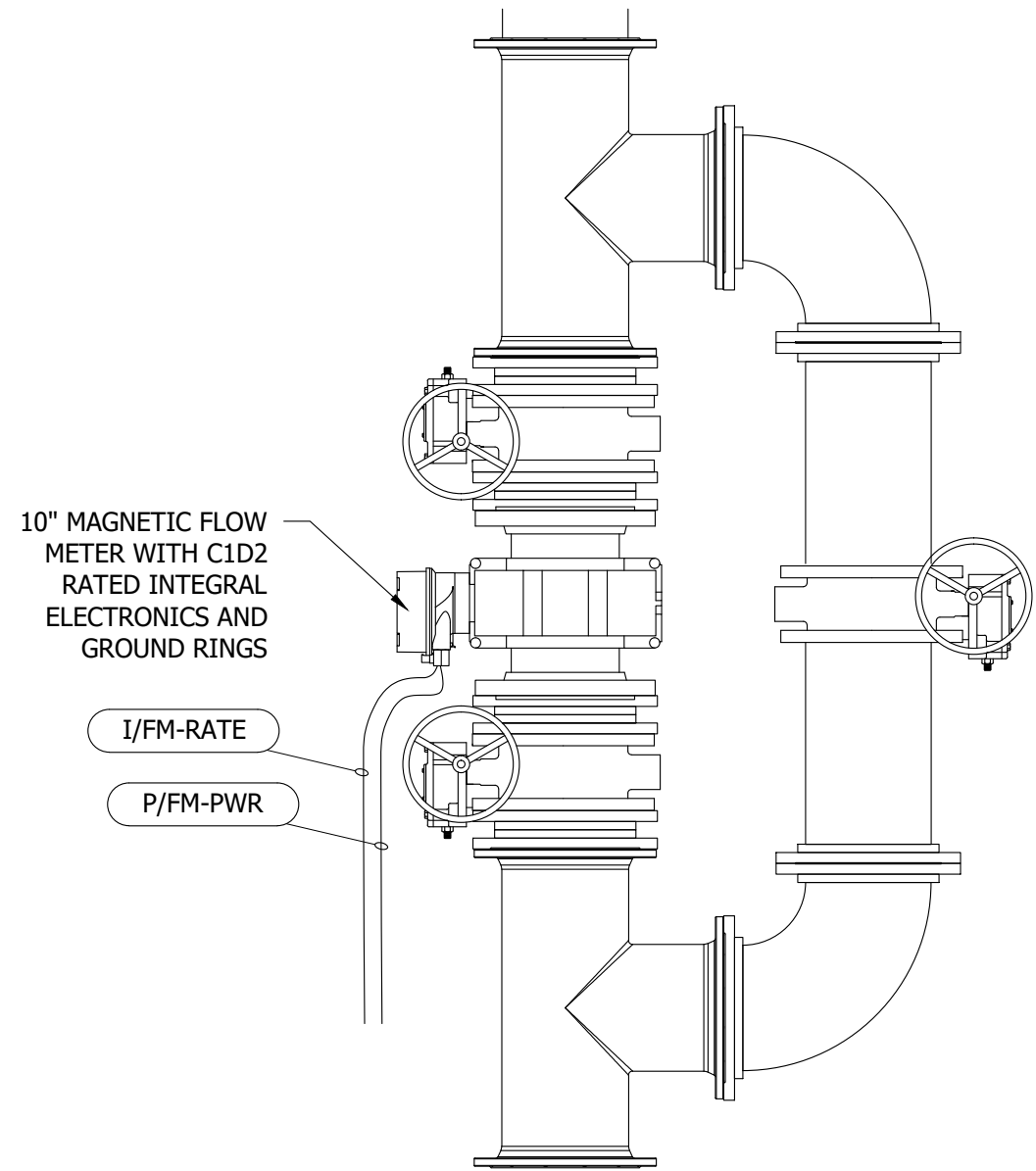
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EDIT DATE: 8/4/26 - 2:05 PM
EDITED BY: JREED



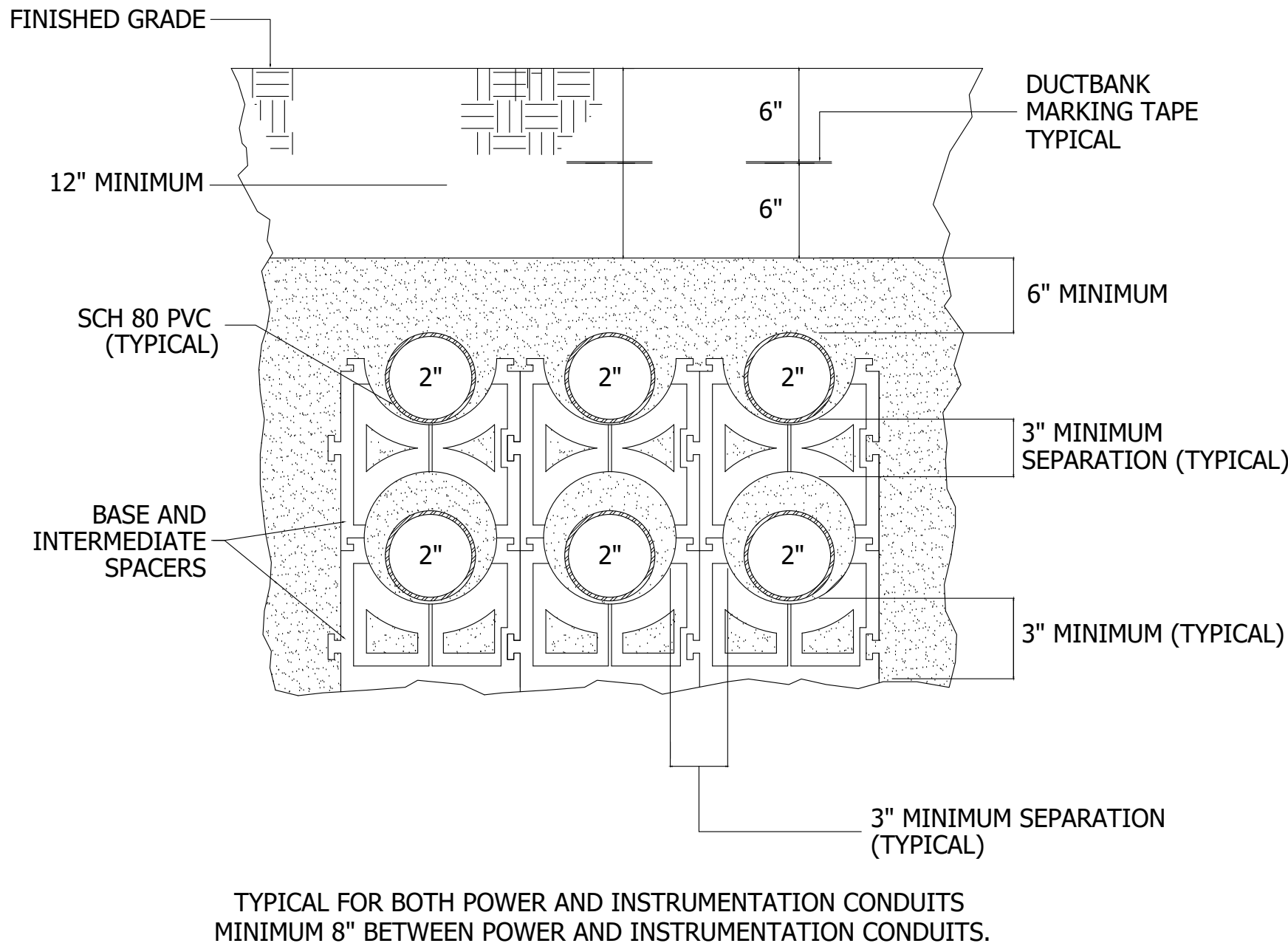
EXISTING POWER EQUIPMENT PHOTO - ALL TO BE REMOVED
NOT TO SCALE



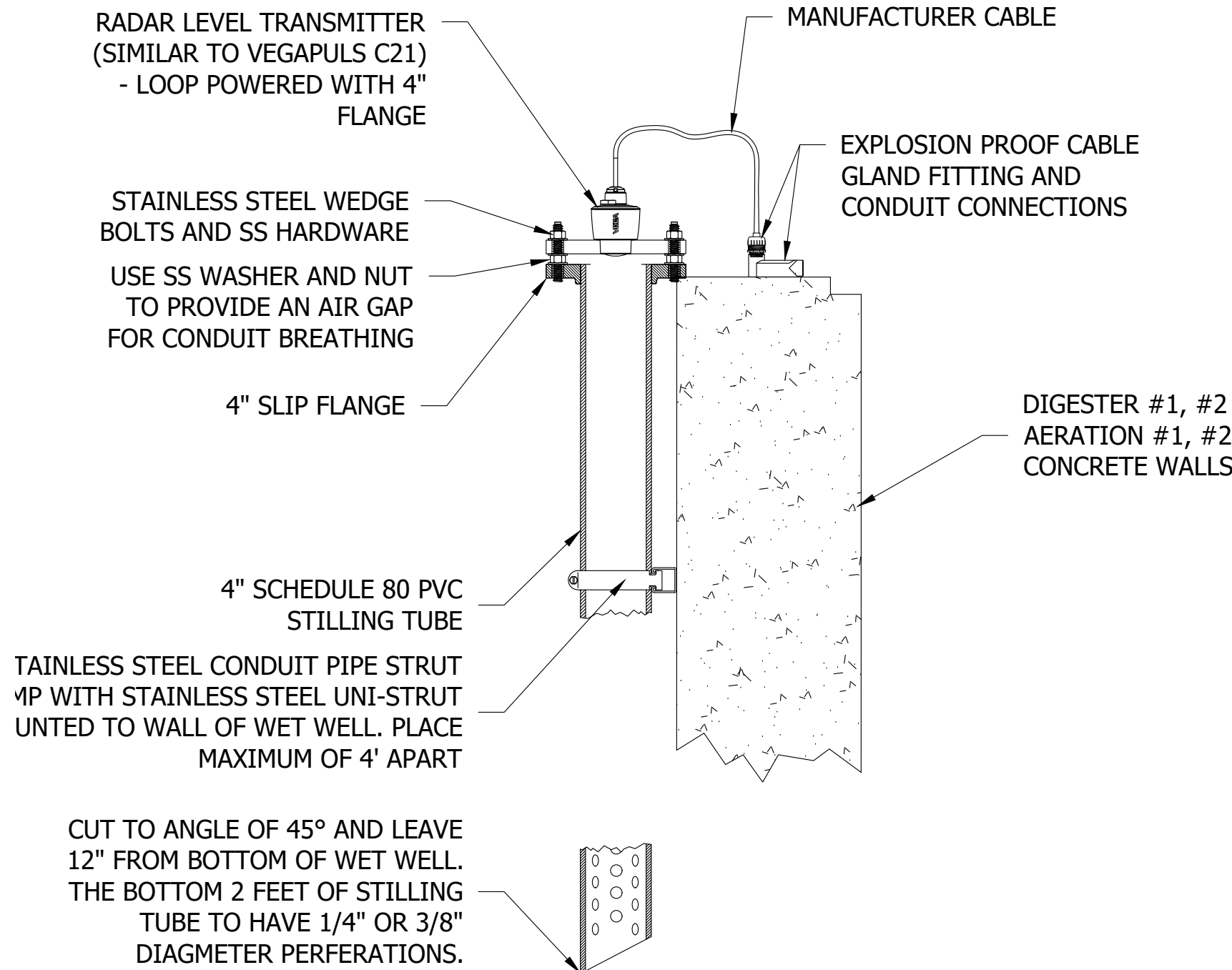
RADAR LEVEL TRANSMITTER WITH STILLING TUBE INSTALLATION DETAIL IN RAS/WAS WET WELL AND LIFT STATIONS
NOT TO SCALE



NEW INFLUENT FLOW METER DETAIL
NOT TO SCALE



A SECTION
Scale: NONE
E102B



RADAR LEVEL TRANSMITTER INSTALLATION DETAIL FOR AERATION AND DIGESTER TANKS
NOT TO SCALE

#	Revision	Date

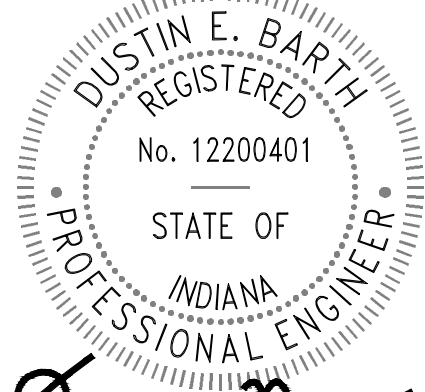
Project #: 400-6314

Designed By: JAR

Drawn By: JAR

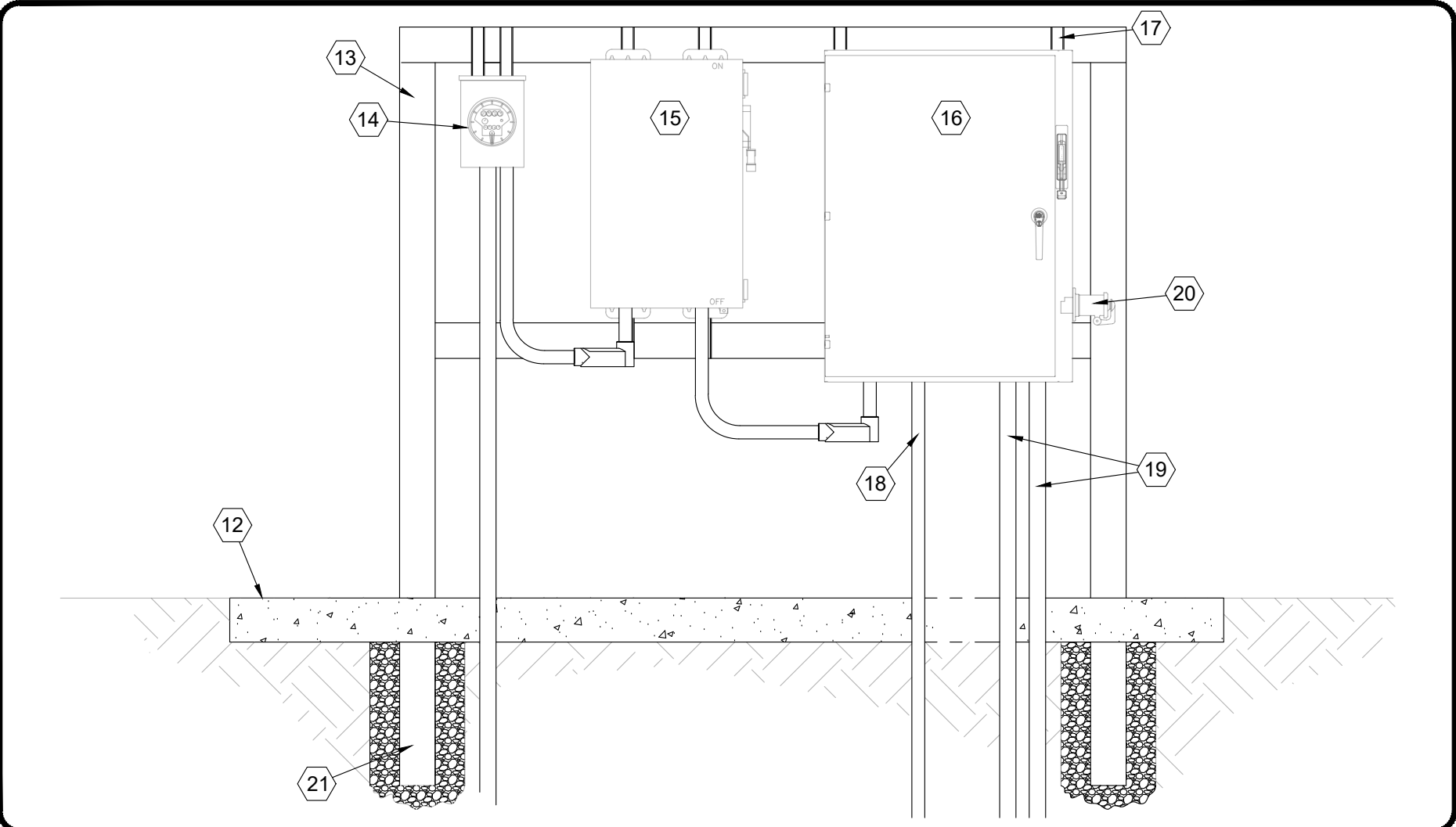
Checked By: ALC & DB

Date: 08/14/2026



Dustin Barth

PRINT DATE: 8/7/26 PLOT SCALE: 1:1 EDIT DATE: 8/12/26 1:29 PM EDITED BY: JREED DRAWING FILE: P:\400-6314 SWEETSER VWV IMPROVEMENTS\SS ACAD\PLAN SHEETS & WORKING DRAWINGS\400-6314 - SHORT STREET LS ELECTRICAL DETAILS.DWG



LIFT STATION ELECTRICAL EQUIPMENT RACK

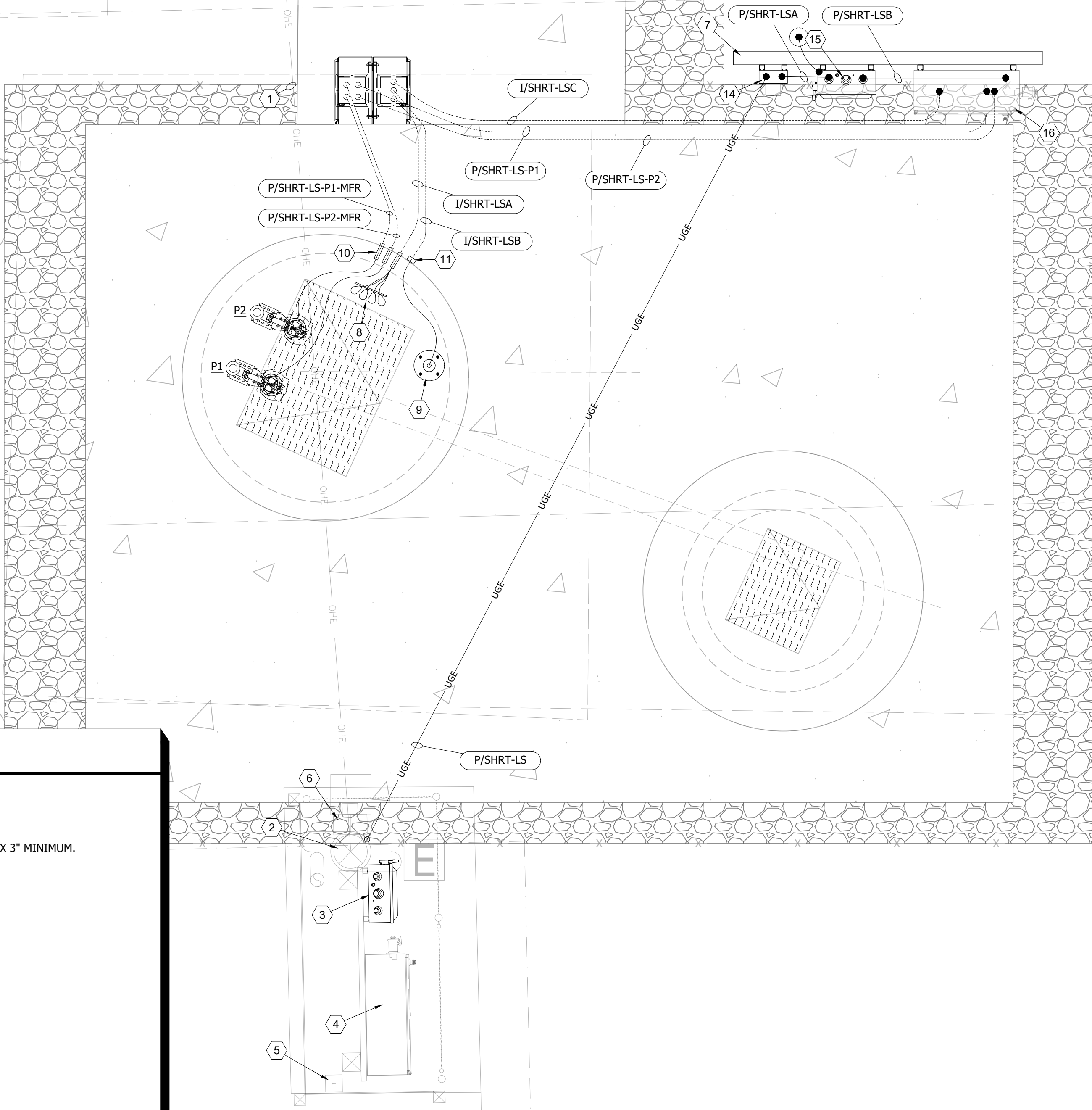
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ELECTRICAL KEYED NOTES:

- EXISTING UTILITY OVERHEAD SERVICE. 230V, 3PH, 4W.
- EXISTING UTILITY POLE, TO REMAIN. PROVIDE A NEW DROP UNDERGROUND TO NEW EQUIPMENT RACK AND UTILITY METER.
- EXISTING 230V, 3PH, 100A STAINLESS STEEL DISCONNECT. TO BE RELOCATED TO NEW RACK.
- EXISTING PUMP CONTROL PANEL. TO BE REMOVED AND RETURNED TO OWNER. THIS PANEL WILL BE REPLACED BY PUMP CONTROL PANEL FROM CASE LIFT STATION.
- EXISTING TELEPHONE BOX. TO REMAIN.
- EXISTING UTILITY METER, TO BE REMOVED. COORDINATE WITH LOCAL UTILITY FOR DISCONNECT AND RECONNECTIONS TO NEW METER.
- PROPOSED ELECTRICAL EQUIPMENT RACK. SEE DETAIL.
- EXISTING FLOAT SWITCHES TO BE REMOVED AND REPLACED WITH NEW (4 NON-MERCURY TYPE). PROVIDE STAINLESS STEEL J-HOOK FOR FLOAT CABLES.
- REMOVE EXISTING LEVEL TRANSMITTER AND PROVIDE A NEW RADAR LEVEL TRANSMITTER IN STILLING TUBE. SEE DETAILS SHEET E110.
- PROVIDE LINK SEALS FOR ALL WET WELL ENTRIES FOR NEW CABLES. SEAL ALL EXISTING CONDUIT/CABLE ENTRIES.
- JUNCTION BOX OR LB FOR LEVEL SIGNAL CABLE TRANSITION FROM ABOVE GRADE TO BELOW.
- LIFT STATION NEW CONCRETE PAD.
- PROPOSED ALUMINUM EQUIPMENT RACK. 3" X 3" SQUARE ALUMINUM TUBING WELDED OR ALUMINUM ANGLE.
- PROVIDE 100A UTILITY METER BASE. COORDINATE WITH LOCAL UTILITY.
- EXISTING LIFT STATION 100A, 230V DISCONNECT. RELOCATE TO NEW RACK.
- EXISTING PUMP CONTROL PANEL FROM CASE LIFT STATION. PANEL TO BE MODIFIED FOR THIS STATION. SEE SHEET I109.
- EQUIPMENT SUPPORT: STAINLESS OR ALUMINUM UNI-STRUT.
- INSTRUMENTATION CONDUIT FROM INSTRUMENTATION VENTED BOX.
- MOTOR POWER CONDUIT FROM MOTOR POWER VENTED BOX.
- EXISTING MOBILE GENERATOR PLUG.
- COAT ALUMINUM TO PROTECT AGAINST CONCRETE AND SOIL EROSION EFFECTS. ALTERNATIVELY, CONTRACTOR MAY USE WEDGE ANCHORS IN POURED CONCRETE GRADE. EQUIPMENT RACK SHALL BE INSTALLED SO THAT THERE IS NO VISIBLE PLAY IN MOVEMENT.
- 24" X 20" X 8" NEMA4X STAINLESS STEEL ENCLOSURE. TYPICAL FOR BOTH MOTOR VENTED BOX AND INSTRUMENT VENTED BOX.
 - MOTOR VENT BOX: MOTOR LEADS/SEAL FAIL/OVERTEMP
 - I&C VENT BOX: FLOAT SWITCHES/LEVEL TRANSMITTER
- GROUNDING TERMINAL BLOCK.
- PHENOLIC IDENTIFICATION NAMEPLATE. BLACK LETTERING ON WHITE.
- VOLTAGE RATING ON BOX.
- STAINLESS STEEL WIRE TROUGH SIMILAR TO HAMMOND 1487E48SS. CUT-IN OPENING ON TROUGH DOOR TO APPROXIMATE DIMENSIONS SHOWN. ALL CUT EDGES TO BE CLEAR OF BURRS AND SHARP EDGES.
- STAINLESS STEEL GRATE. .75" TO 1" HOLE 13GA. MINIMUM. WELDED AND FINISHED TO INSIDE OF TROUGH DOOR CUT-OUT.

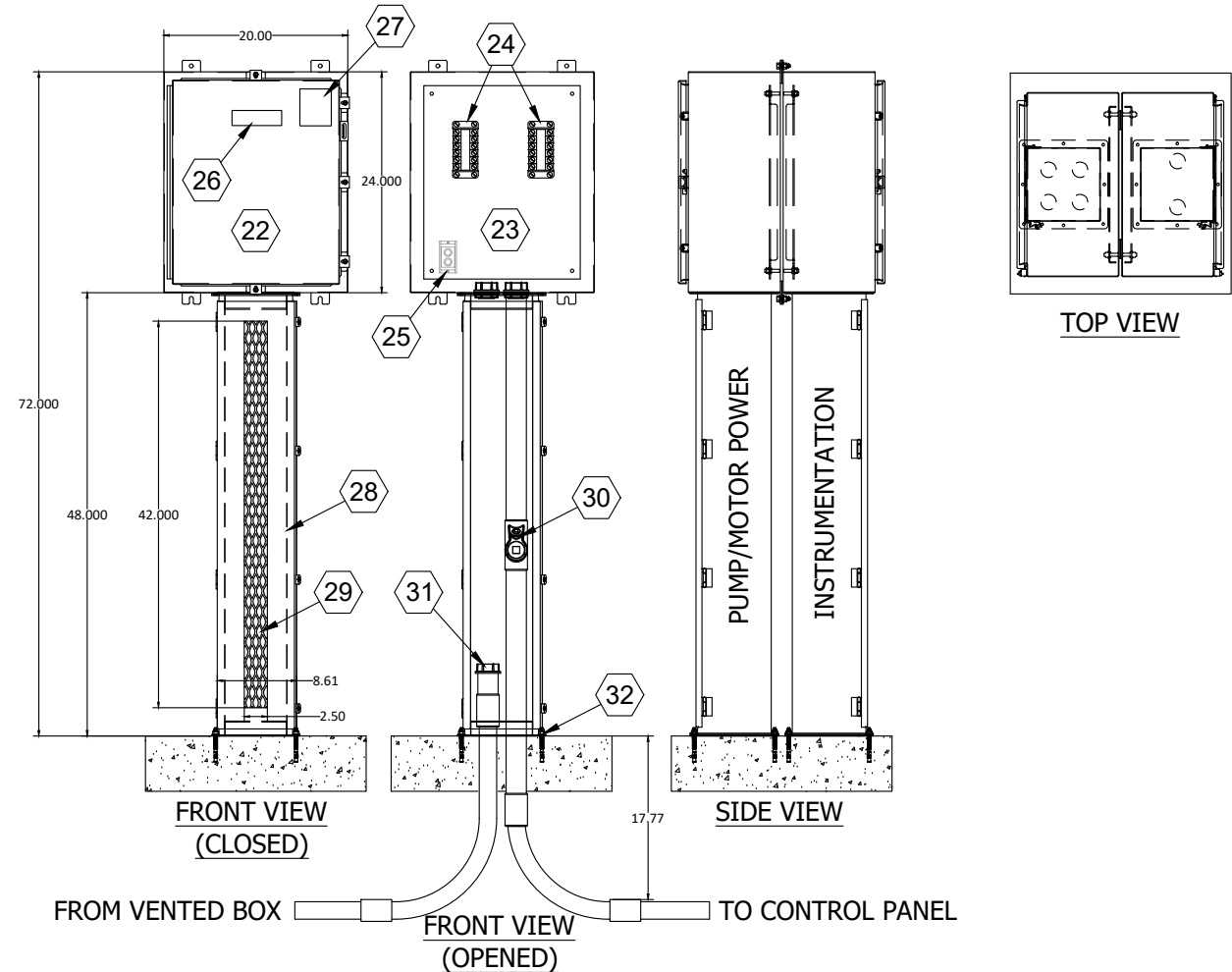
ELECTRICAL KEYED NOTES (CONTINUED):

- SEAL-OFF. (SIZED PER WIRE REQUIREMENTS).
- WIRE PROTECTION BUSHING.
- STAINLESS STEEL WEDGE ANCHOR: MINIMUM 3/8" X 3" MINIMUM.



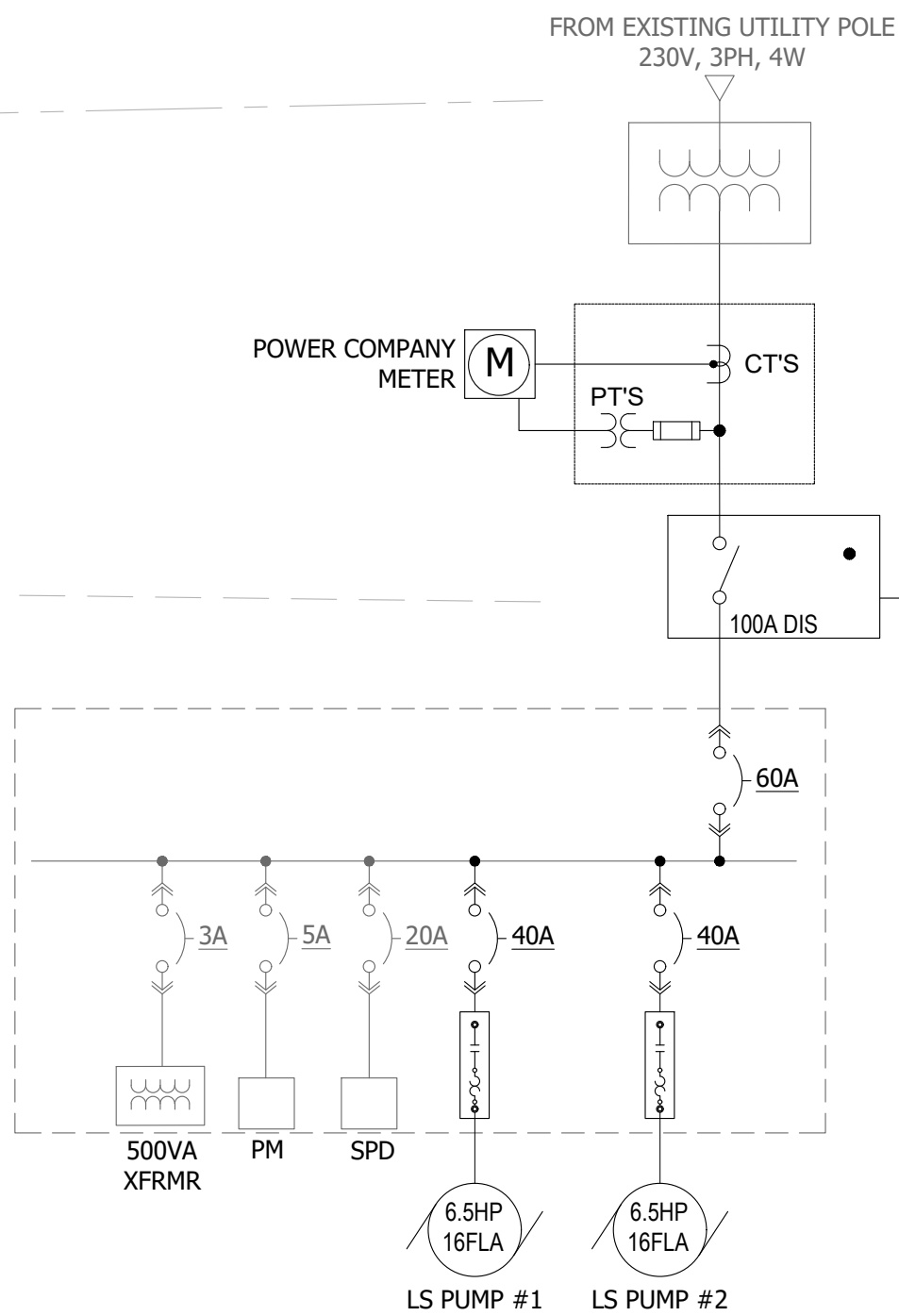
SHORT STREET LIFT STATION - PLAN VIEW

SCALE: 1" = 2'-0"



LIFT STATION VENT BOX DETAIL

NO SCALE



BASIC ONE-LINE DIAGRAM



SWEETSER WASTE WATER IMPROVEMENTS

SWEETSER, INDIANA, 46987

#	Revision	Date

Project #: 400-6314

Designed By: JAR

Drawn By: JAR

Checked By: ALC & DB

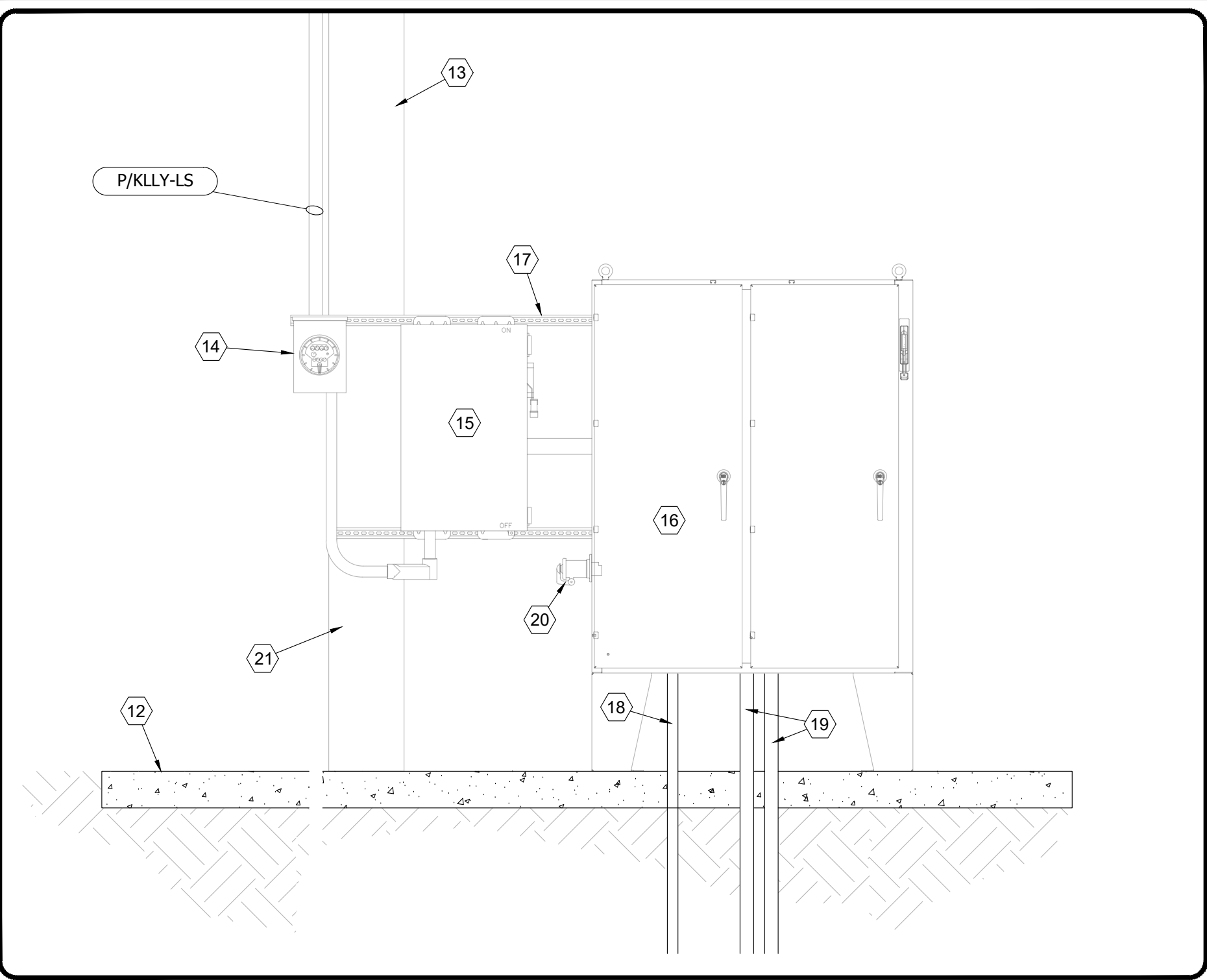
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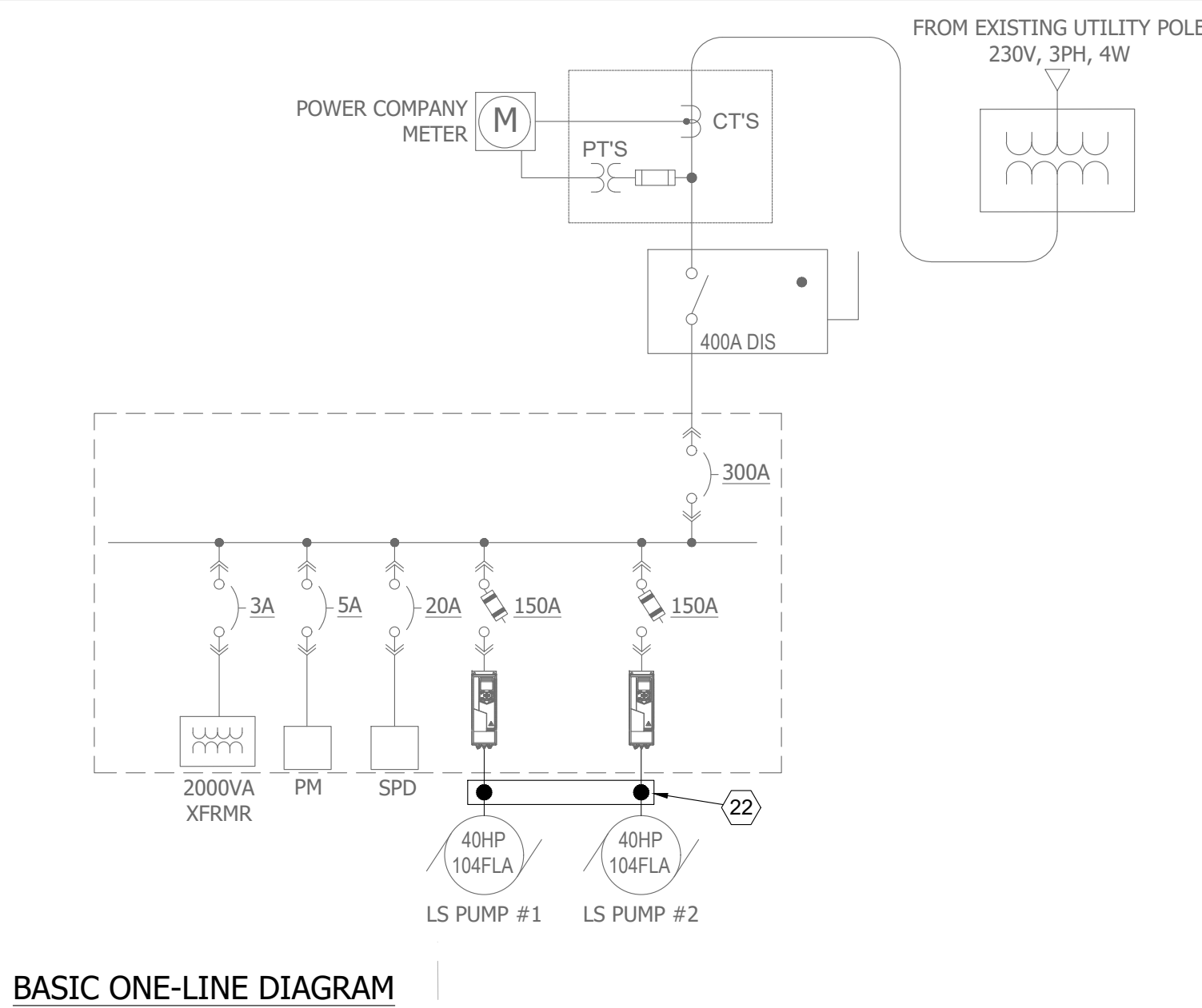
SHORT STREET LS
ELECTRICAL DETAILS -
PROPOSED

E109

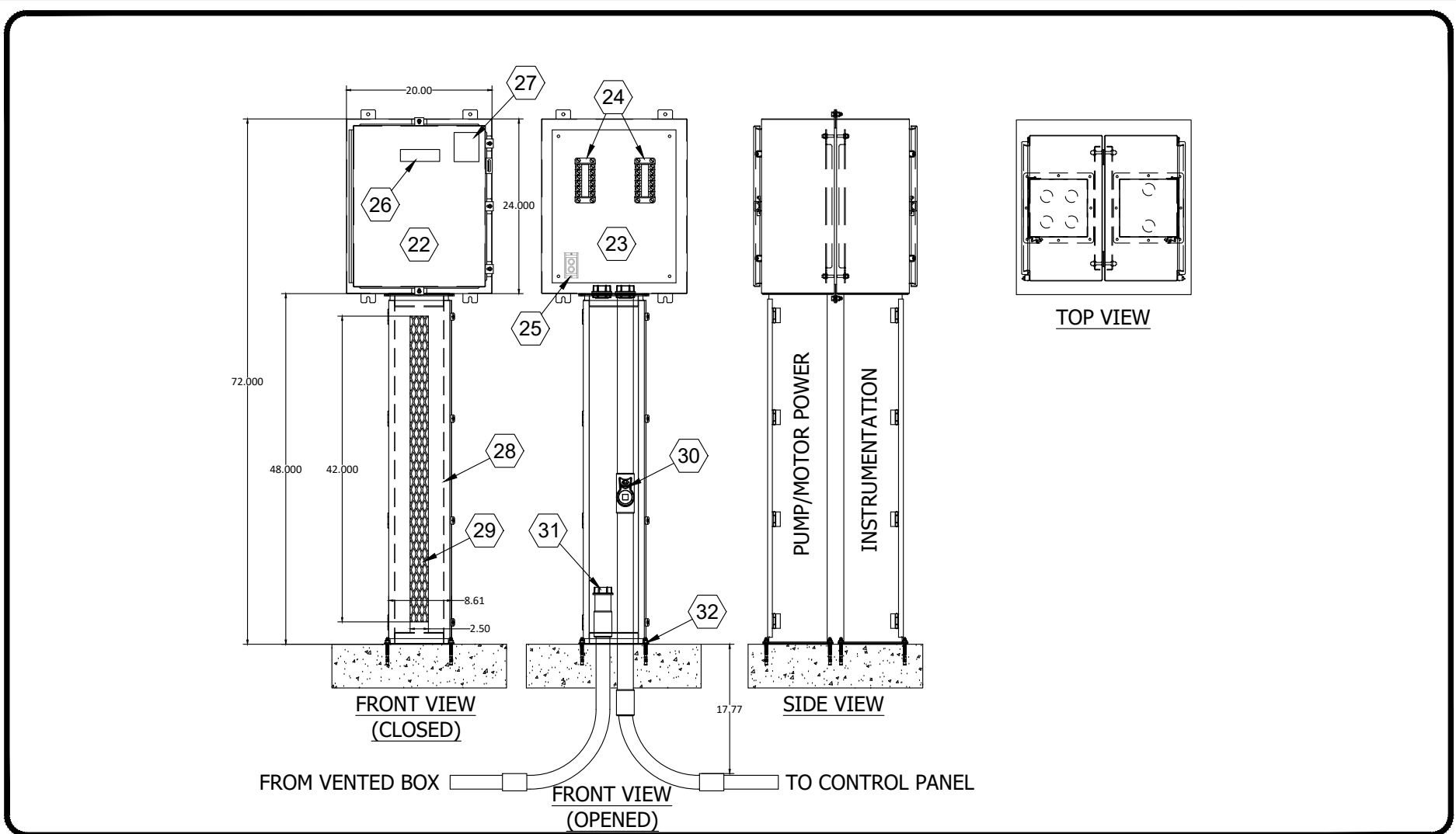
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EDITED BY: JREED
DATE: 8/5/26 - 12:14 PM



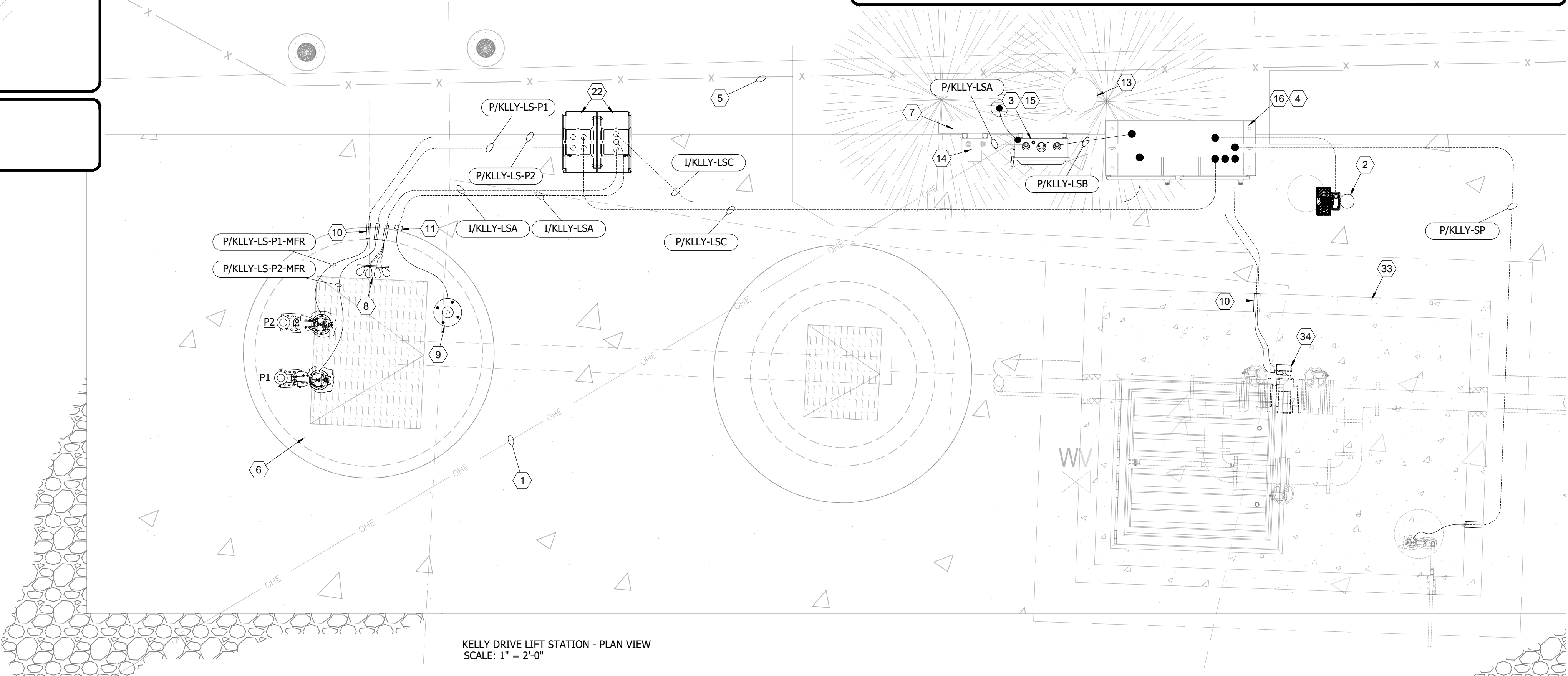
LIFT STATION ELECTRICAL EQUIPMENT RACK
NO SCALE



BASIC ONE-LINE DIAGRAM



LIFT STATION VENT BOX DETAIL
NO SCALE



KELLY DRIVE LIFT STATION - PLAN VIEW
SCALE: 1" = 2'-0"

ELECTRICAL KEYED NOTES:

- EXISTING UTILITY OVERHEAD SERVICE. 230V, 3PH, 4W.
- EXISTING 4" X 4" LIGHT POLE AND LIGHT TO BE REMOVED AND REPLACED WITH LED SITE LIGHT WITH PHOTOCELL AND 12' ALUMINUM 4" POLE.
- EXISTING 230V, 3PH, 100A STAINLESS STEEL DISCONNECT - TO REMAIN.
- EXISTING PUMP CONTROL PANEL - TO REMAIN.
- PROPOSED FENCE AROUND LIFT STATION AREA.
- WET WELL.
- EXISTING ELECTRICAL EQUIPMENT RACK (UNI-STRUT). CONTRACTOR TO REPAIR AS REQUIRED (MINIMAL).
- EXISTING FLOAT SWITCHES TO BE REMOVED AND REPLACED WITH NEW (4 NON-MERCURY TYPE). PROVIDE STAINLESS STEEL J-HOOK FOR FLOAT CABLES.
- REMOVE EXISTING LEVEL TRANSMITTER AND PROVIDE A NEW RADAR LEVEL TRANSMITTER IN STILLING TUBE. SEE DETAILS SHEET E110.
- PROVIDE LINK SEALS FOR ALL WET WELL ENTRIES FOR NEW CABLES. SEAL ALL EXISTING CONDUIT/CABLE ENTRIES.
- JUNCTION BOX OR LB FOR LEVEL SIGNAL CABLE TRANSITION FROM ABOVE GRADE TO BELOW.
- LIFT STATION NEW CONCRETE PAD. THIS COVERS THE WHOLE LIFT STATION AREA.
- EXISTING UTILITY POLE WITH OVERHEAD AND DROP TO METER - TO REMAIN.
- EXISTING 100A UTILITY METER BASE - TO REMAIN.
- EXISTING LIFT STATION 100A, 230V DISCONNECT. RELOCATE TO NEW RACK.
- EXISTING PUMP CONTROL PANEL FROM CASE LIFT STATION. PANEL TO BE MODIFIED FOR THIS STATION. SEE SHEET I106. PUMP CONTROL PANEL WILL REQUIRE BEING RE-LEVELLED AND PLUMMED AFTER CONCRETE PAD HAS BEEN POURED UNDER IT.
- EQUIPMENT SUPPORT: EXISTING EQUIPMENT UNI-STRUT - TO REMAIN.
- INSTRUMENTATION CONDUIT FROM INSTRUMENTATION VENTED BOX.
- MOTOR POWER CONDUIT FROM MOTOR POWER VENTED BOX.
- EXISTING MOBILE GENERATOR PLUG.
- COAT ALUMINUM TO PROTECT AGAINST CONCRETE AND SOIL EROSION EFFECTS. ALTERNATIVELY, CONTRACTOR MAY USE WEDGE ANCHORS IN POURED CONCRETE GRADE. EQUIPMENT RACK SHALL BE INSTALLED SO THAT THERE IS NO VISIBLE PLAY IN MOVEMENT.
- 24" X 20" X 8" NEMA4X STAINLESS STEEL ENCLOSURE. TYPICAL FOR BOTH MOTOR VENTED BOX AND INSTRUMENT VENTED BOX.
- 24"X20" EQUIPMENT PANEL. TYPICAL FOR BOTH.
- TERMINATION BLOCKS: 1 SET PER BOX FOR WIRE ENTRY FROM WET WELL AND 1 SET FOR WIRE DEPARTURE TO PUMP CONTROL PANEL.
 - MOTOR VENT BOX: MOTOR LEADS/SEAL FAIL/OVERTEMP
 - I&C VENT BOX: FLOAT SWITCHES/LEVEL TRANSMITTER
- GROUNDING TERMINAL BLOCK.
- PHENOLIC IDENTIFICATION NAMEPLATE. BLACK LETTERING ON WHITE.
- VOLTAGE RATING ON BOX.
- STAINLESS STEEL WIRE TROUGH SIMILAR TO HAMMOND 1487E48SS. CUT-IN OPENING ON TROUGH DOOR TO APPROXIMATE DIMENSIONS SHOWN. ALL CUT EDGES TO BE CLEAR OF BURRS AND SHARP EDGES.
- STAINLESS STEEL GRATE. .75" TO 1" HOLE 13GA. MINIMUM. WELDED AND FINISHED TO INSIDE OF TROUGH DOOR CUT-OUT.
- SEAL-OFF. (SIZED PER WIRE REQUIREMENTS). PROVIDES SEAL BETWEEN VENTED PANELS AND PUMP CONTROL PANEL.
- WIRE PROTECTION BUSHING.
- STAINLESS STEEL WEDGE ANCHOR: MINIMUM 3/8" X 3" MINIMUM.
- PROPOSED METER VAULT.
- 6" MAGNETIC FLOW METER. SIMILAR TO E&H PROMAG W400 WITH REMOTE ELECTRONICS AND GROUNDING RING. REMOTE ELECTRONICS TO BE MOUNTED WITHIN EXISTING PUMP CONTROL PANEL.



SWEETSER WASTE WATER IMPROVEMENTS

SWEETSER, INDIANA, 46987

#	Revision	Date

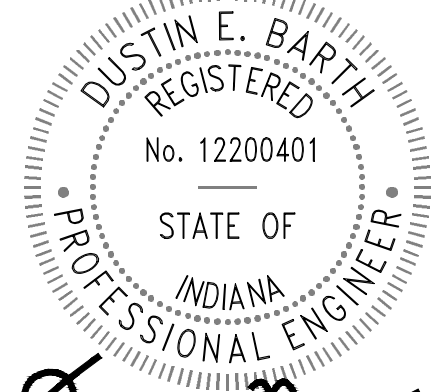
Project #: 400-6314

Designed By: JAR

Drawn By: JAR

Checked By: ALC & DB

Date: 08/14/2026



Dustin Barth



**KELLY DRIVE LS
ELECTRICAL DETAILS -
PROPOSED**

E110

PRINT DATE: 8/27/26
PLOT SCALE: 1" = 2'-0"

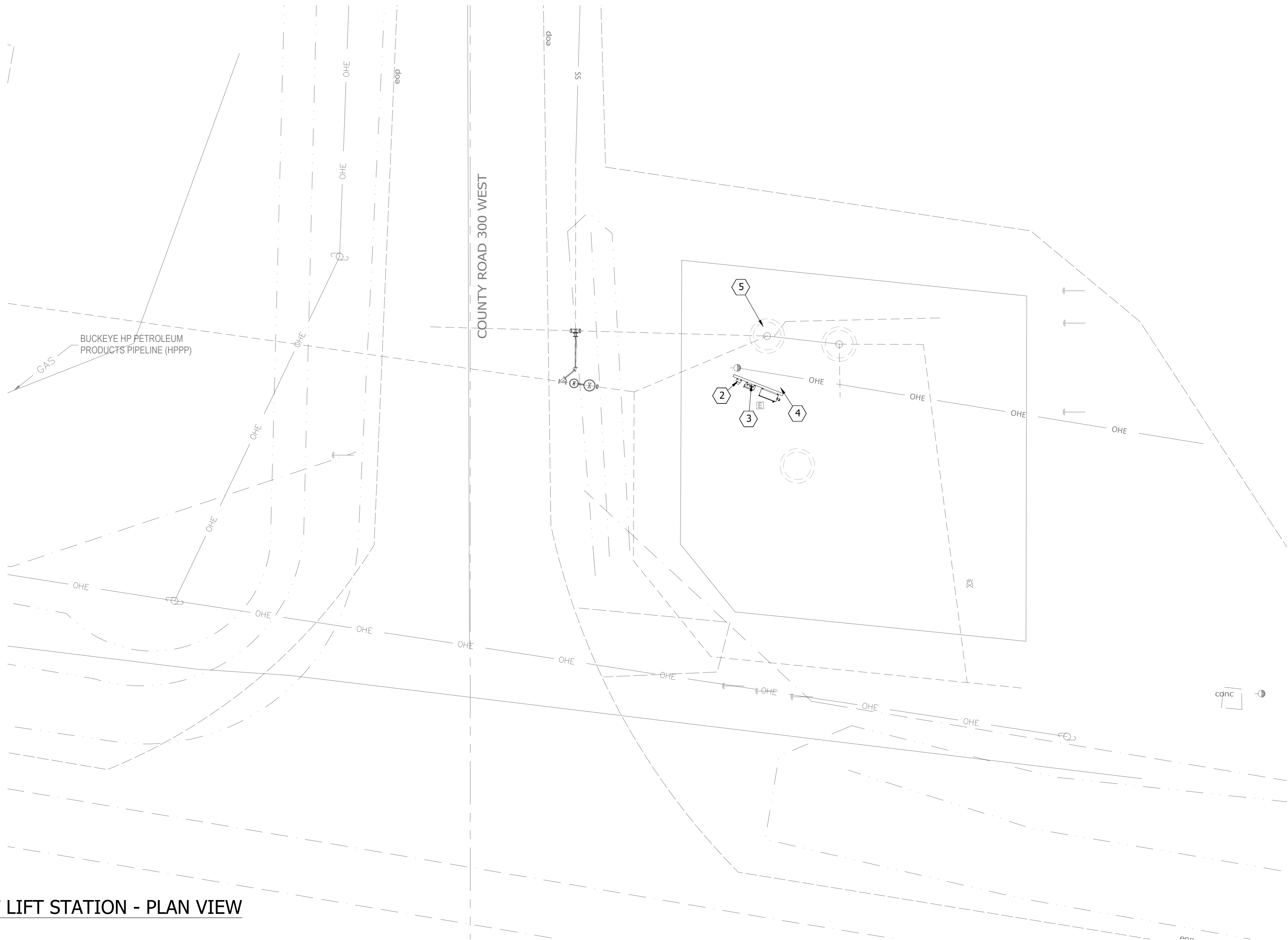
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EDIT DATE: 7/22/26 - 12:01 PM
EDITED BY: RPARADES



ELECTRICAL KEYED NOTES

1. REMOVE ELECTRICAL BOX WITH LIGHT AND HORN. DISCONNECT AND REMOVE ANY WIRING AND CONDUIT.
2. COORDINATE WITH UTILITY COMPANY TO DISCONNECT METER AND TURN OFF POWER TO THIS SITE. REMOVE METER BASE AND ASSOCIATED CONDUIT AND WIRE.
3. EXISTING STAINLESS STEEL 200A DISCONNECT. REMOVE AND RETURN TO OWNER. DISCONNECT AND REMOVE EXISTING CONDUIT AND WIRE.
4. EXISTING PUMP CONTROL PANEL. DISCONNECT ANY CONNECTED CONDUIT AND ASSOCIATED EXTERNAL WIRING. REMOVE ENCLOSURE AND RELOCATE TO SHORT STREET LIFT STATION. SEE SHEET E111.
5. EXISTING WET WELL. DISCONNECT AND REMOVE ANY ELECTRICAL CONDUIT, WIRE AND INSTRUMENTS.



CASE STREET LIFT STATION - PLAN VIEW
SCALE: 1" = 2'-0"



SWEETSER WASTE WATER
IMPROVEMENTS

SWEETSER, INDIANA, 46987

#	Revision	Date

Project #: 400-6314

Designed By: JAR

Drawn By: JAR

Checked By: ALC & DB

Date: 08/14/2026

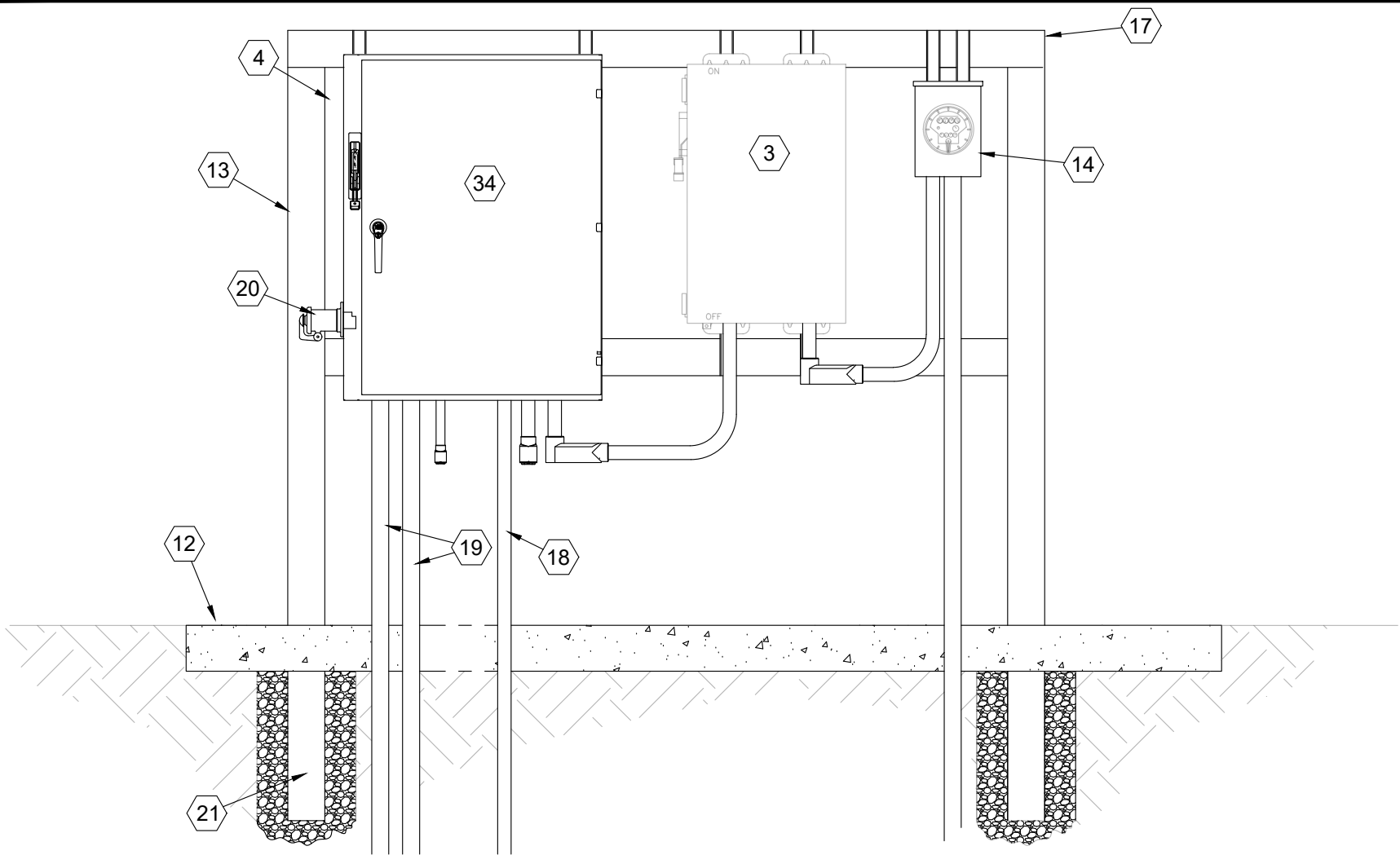


Dustin Barth

CASE STREET LIFT
STATION ELECTRICAL
DETAILS

E111

PRINT DATE: 8/27/26
PLOT SCALE: 1:1
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EDITED BY: JREED
DATE: 8/6/26 - 11:13 AM

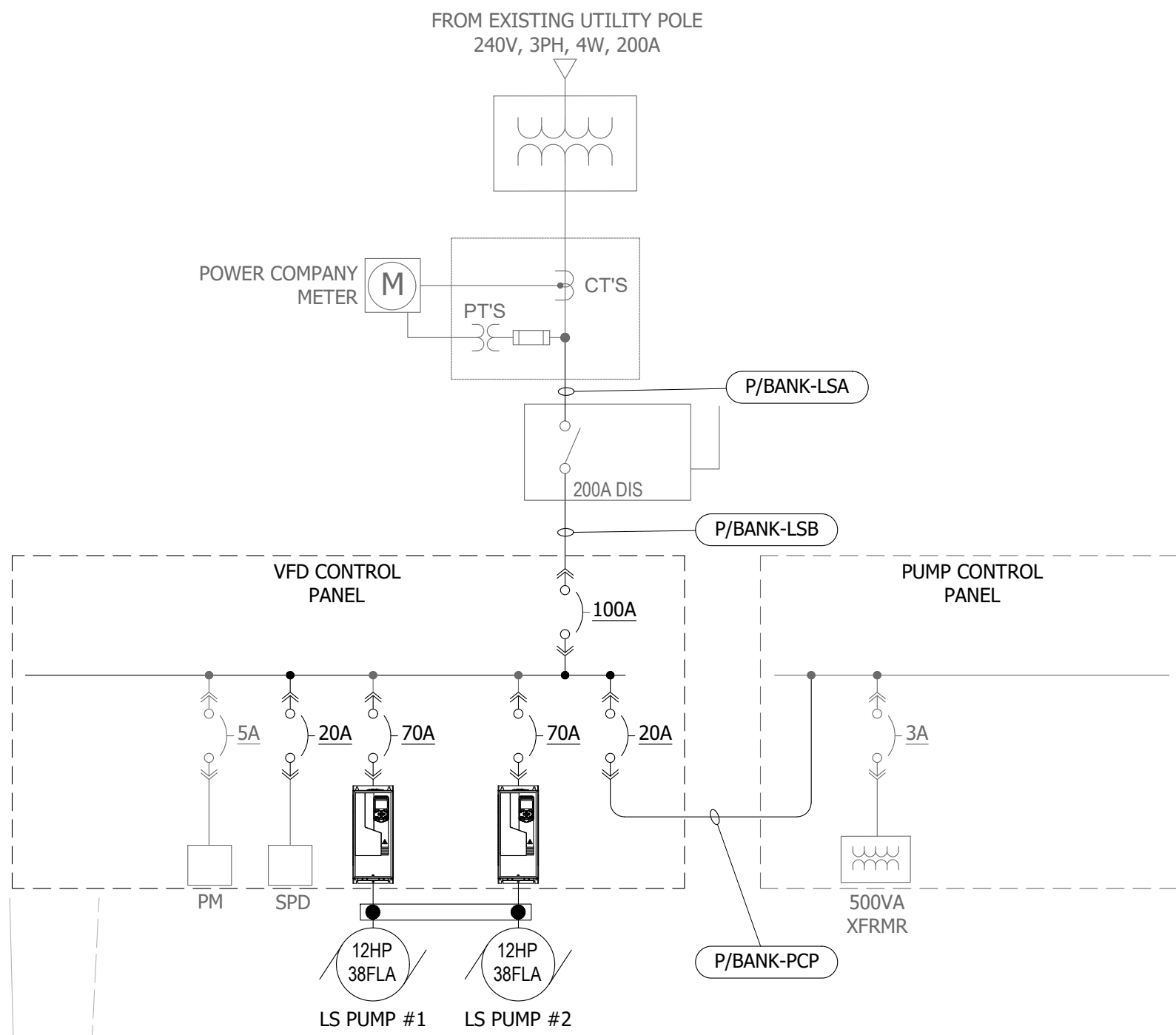


LIFT STATION ELECTRICAL EQUIPMENT RACK

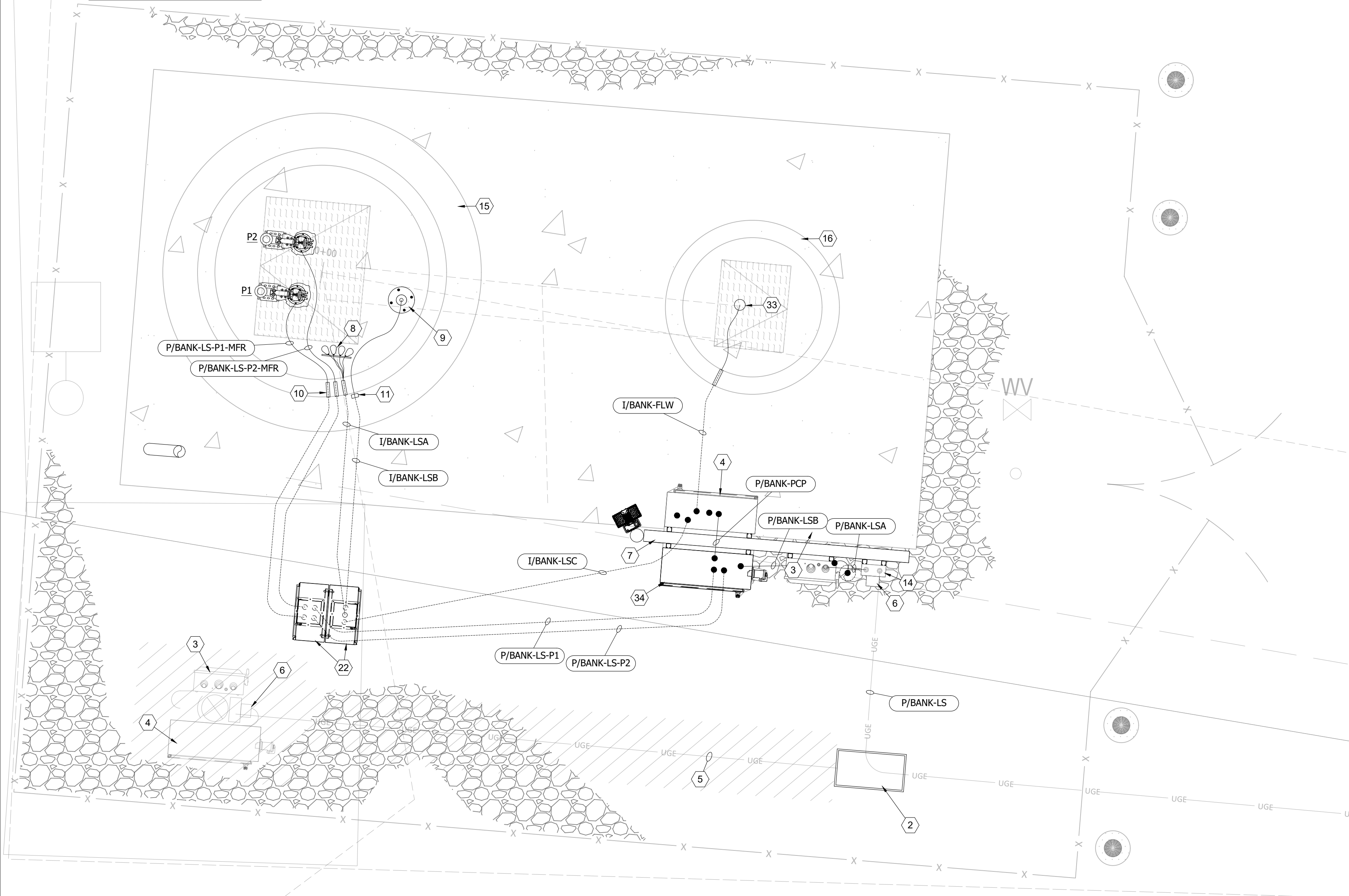
NO SCALE

ELECTRICAL KEYED NOTES:

- EXISTING UTILITY UNDERGROUND 200A SERVICE. 240V, 3PH, 4W.
- PROVIDE QUAZITE PULL BOX (13" X 24" X 18" OR SIMILAR) WITH ELECTRICAL TIER 5 COVER.
- EXISTING 240V, 3PH, 200A STAINLESS STEEL DISCONNECT. TO BE RELOCATED TO NEW RACK.
- EXISTING PUMP CONTROL PANEL. TO BE REMOVED AND RELOCATED TO NEW EQUIPMENT RACK. (LOCATED ON OPPOSITE SIDE OF PROPOSED VFD CONTROL PANEL).
- EXISTING UNDERGROUND SERVICE TO EXISTING UTILITY METER ON POLE SHALL BE PULLED BACK TO NEW QUAZITE ELECTRICAL BOX AND REROUTED TO NEW EQUIPMENT RACK WHERE EXISTING METER WILL BE MOUNTED. COORDINATE WITH LOCAL UTILITY AND OWNER TO SHUT DOWN POWER FOR THIS WORK.
- EXISTING UTILITY METER, TO BE REMOVED. COORDINATE WITH LOCAL UTILITY FOR DISCONNECT AND RELOCATED TO ELECTRICAL EQUIPMENT RACK.
- PROPOSED ELECTRICAL EQUIPMENT RACK. SEE DETAIL.
- EXISTING FLOAT SWITCHES TO BE REMOVED AND REPLACED WITH NEW (4 NON-MERCURY TYPE). PROVIDE STAINLESS STEEL J-HOOK FOR FLOAT CABLES.
- REMOVE EXISTING LEVEL TRANSMITTER AND PROVIDE A NEW RADAR LEVEL TRANSMITTER IN STILLING TUBE. SEE DETAILS SHEET E110.
- PROVIDE LINK SEALS FOR ALL WET WELL ENTRIES FOR NEW CABLES. SEAL ALL EXISTING CONDUIT/CABLE ENTRIES.
- JUNCTION BOX OR LB FOR LEVEL SIGNAL CABLE TRANSITION FROM ABOVE GRADE TO BELOW.
- LIFT STATION NEW CONCRETE PAD.
- PROPOSED ALUMINUM EQUIPMENT RACK. 3" X 3" SQUARE ALUMINUM TUBING WELDED OR ALUMINUM ANGLE.
- PROVIDE 200A UTILITY METER BASE. COORDINATE WITH LOCAL UTILITY.
- LIFT STATION WET WELL.
- LIFT STATION VALVE VAULT.
- EQUIPMENT SUPPORT: STAINLESS OR ALUMINUM UNI-STRUT.
- INSTRUMENTATION CONDUIT FROM INSTRUMENTATION VENTED BOX.
- MOTOR POWER CONDUIT FROM MOTOR POWER VENTED BOX.
- EXISTING MOBILE GENERATOR PLUG.
- COAT ALUMINUM TO PROTECT AGAINST CONCRETE AND SOIL EROSION EFFECTS. ALTERNATIVELY, CONTRACTOR MAY USE WEDGE ANCHORS IN POURED CONCRETE GRADE. EQUIPMENT RACK SHALL BE INSTALLED SO THAT THERE IS NO VISIBLE PLAY IN MOVEMENT.
- 24" X 20" X 8" NEMA4X STAINLESS STEEL ENCLOSURE. TYPICAL FOR BOTH MOTOR VENTED BOX AND INSTRUMENT VENTED BOX. CONTRACTOR TO LAND MOTOR CABLES ON TERMINAL BLOCKS IN MOTOR POWER VENT BOX AND TERMINATION OF SEAL FAIL AND OVERTEMP SENSOR WIRES. SEAL FAIL AND OVERTEMP WIRES TO BE CONNECTED TO INSTRUMENT VENT BOX TERMINAL BOX.
- 24"X20" EQUIPMENT PANEL. TYPICAL FOR BOTH.
 - TERMINATION BLOCKS: 1 SET PER BOX FOR WIRE ENTRY FROM WET WELL AND 1 SET FOR WIRE DEPARTURE TO PUMP CONTROL PANEL.
 - MOTOR VENT BOX: MOTOR LEADS/SEAL FAIL/OVERTEMP
 - I&C VENT BOX: FLOAT SWITCHES/LEVEL TRANSMITTER
- GROUNDING TERMINAL BLOCK.
- PHENOLIC IDENTIFICATION NAMEPLATE. BLACK LETTERING ON WHITE.
- VOLTAGE RATING ON BOX.
- STAINLESS STEEL WIRE TROUGH SIMILAR TO HAMMOND 1487E48SS. CUT-IN OPENING ON TROUGH DOOR TO APPROXIMATE DIMENSIONS SHOWN. ALL CUT EDGES TO BE CLEAR OF BURRS AND SHARP EDGES.
- STAINLESS STEEL GRATE. .75" TO 1" HOLE 13GA. MINIMUM. WELDED AND FINISHED TO INSIDE OF TROUGH DOOR CUT-OUT.
- SEAL-OFF. (SIZED PER WIRE REQUIREMENTS).
- WIRE PROTECTION BUSHING.
- STAINLESS STEEL WEDGE ANCHOR: MINIMUM 3/8" X 3" MINIMUM.
- PROVIDE CLAMP ON STYLE DOPPLER FLOW METER, PERMANENT MOUNT ON EFFLUENT FLOW PIPE. SIMILAR TO GREYLINE DFM 6.1.
- PROPOSED VFD CONTROL PANEL. SEE SHEET I106B.

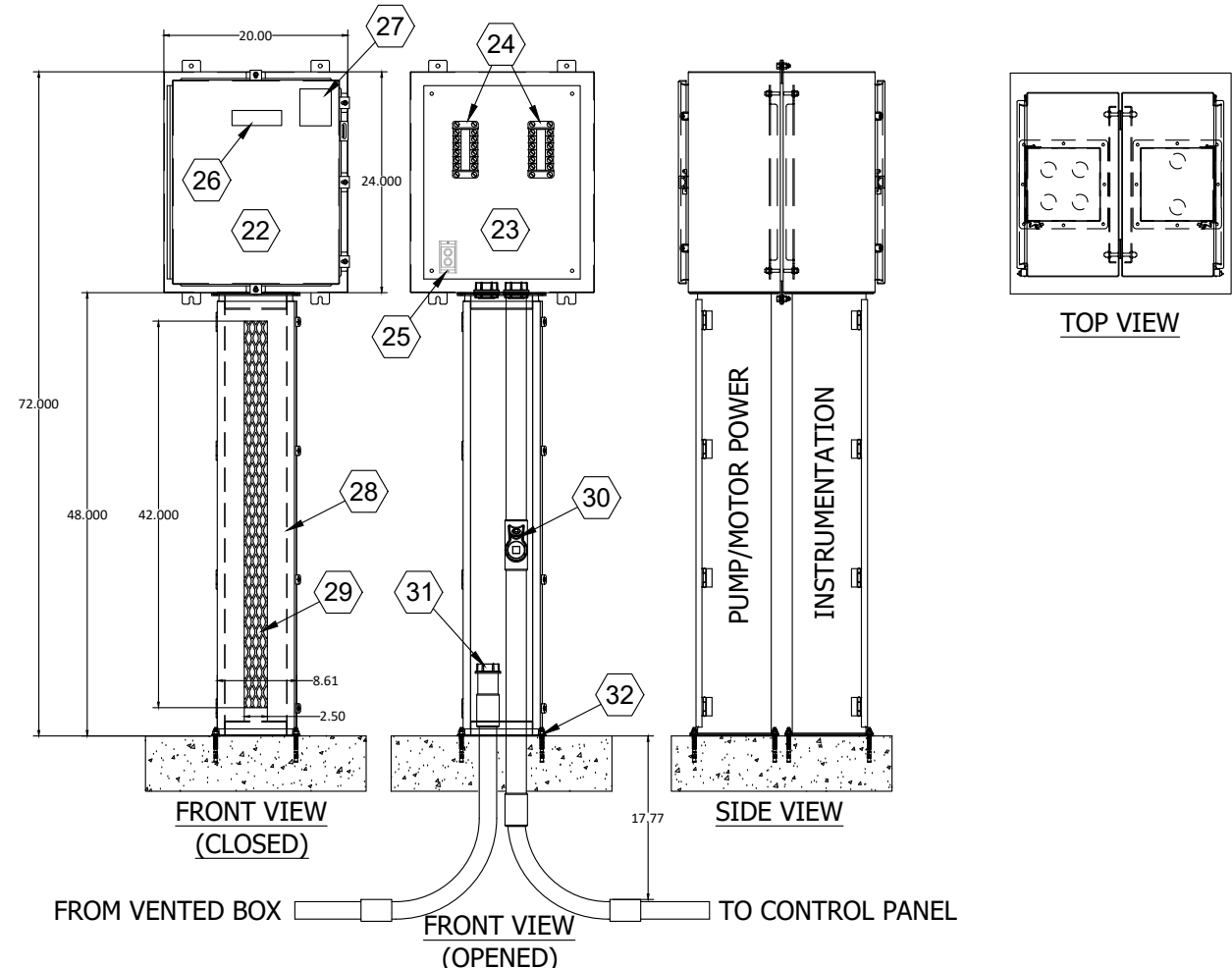


BASIC ONE-LINE DIAGRAM



BANK LIFT STATION - PLAN VIEW

SCALE: 1" = 2'-0"



LIFT STATION VENT BOX DETAIL

NO SCALE



SWEETSER WASTE WATER IMPROVEMENTS

SWEETSER, INDIANA, 46987

#	Revision	Date

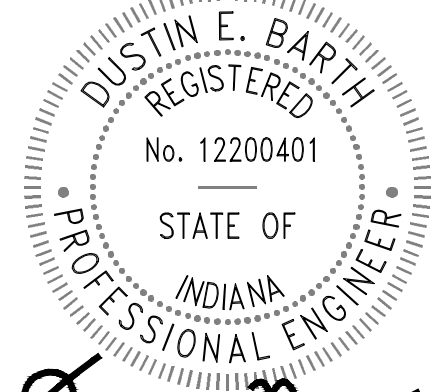
Project #: 400-6314

Designed By: JAR

Drawn By: JAR

Checked By: ALC & DB

Date: 08/14/2026



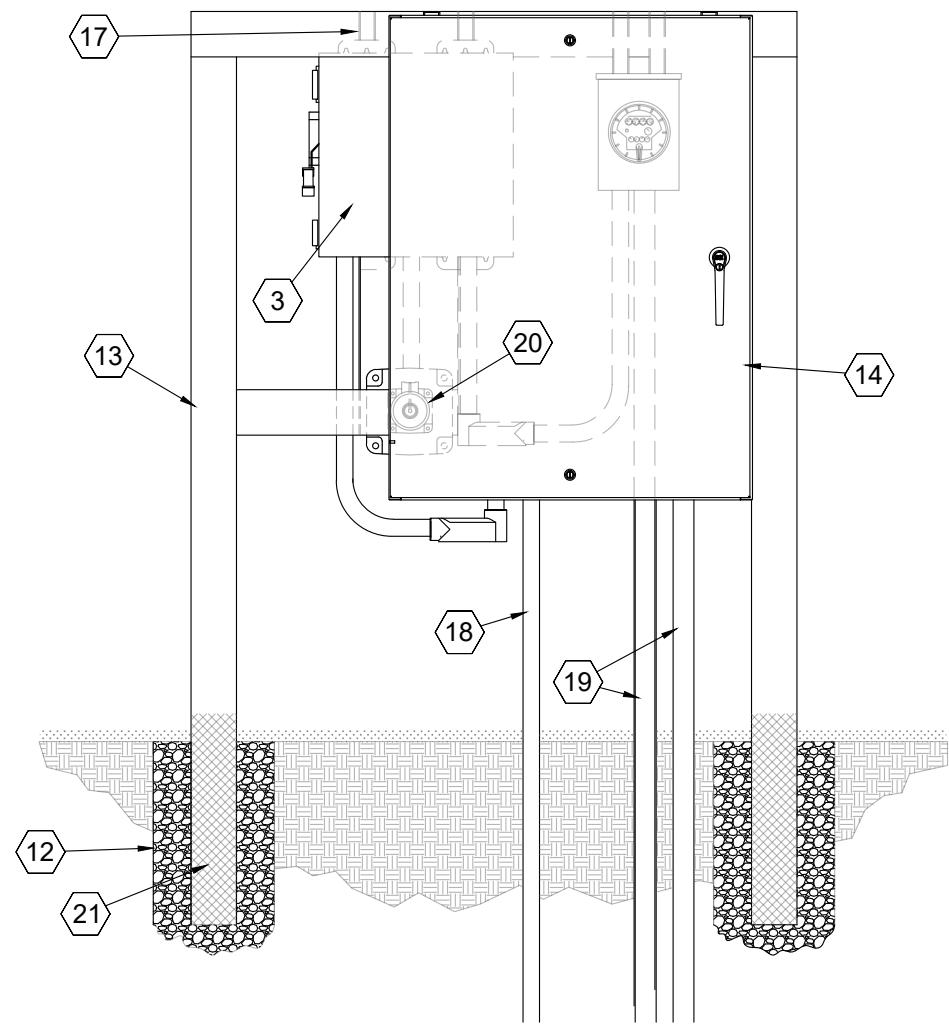
Dustin Barth



BANK LS ELECTRICAL DETAILS - PROPOSED

E112

PRINT DATE: 8/7/26
PLOT SCALE: 1:1
DRAWING FILE: P:400-6314 SWEETSER WW IMPROVEMENTS55 ACAD/PLAN SHEETS & WORKING DRAWINGS400-6314 - EAGLE OR LS ELECTRICAL DETAILS.DWG

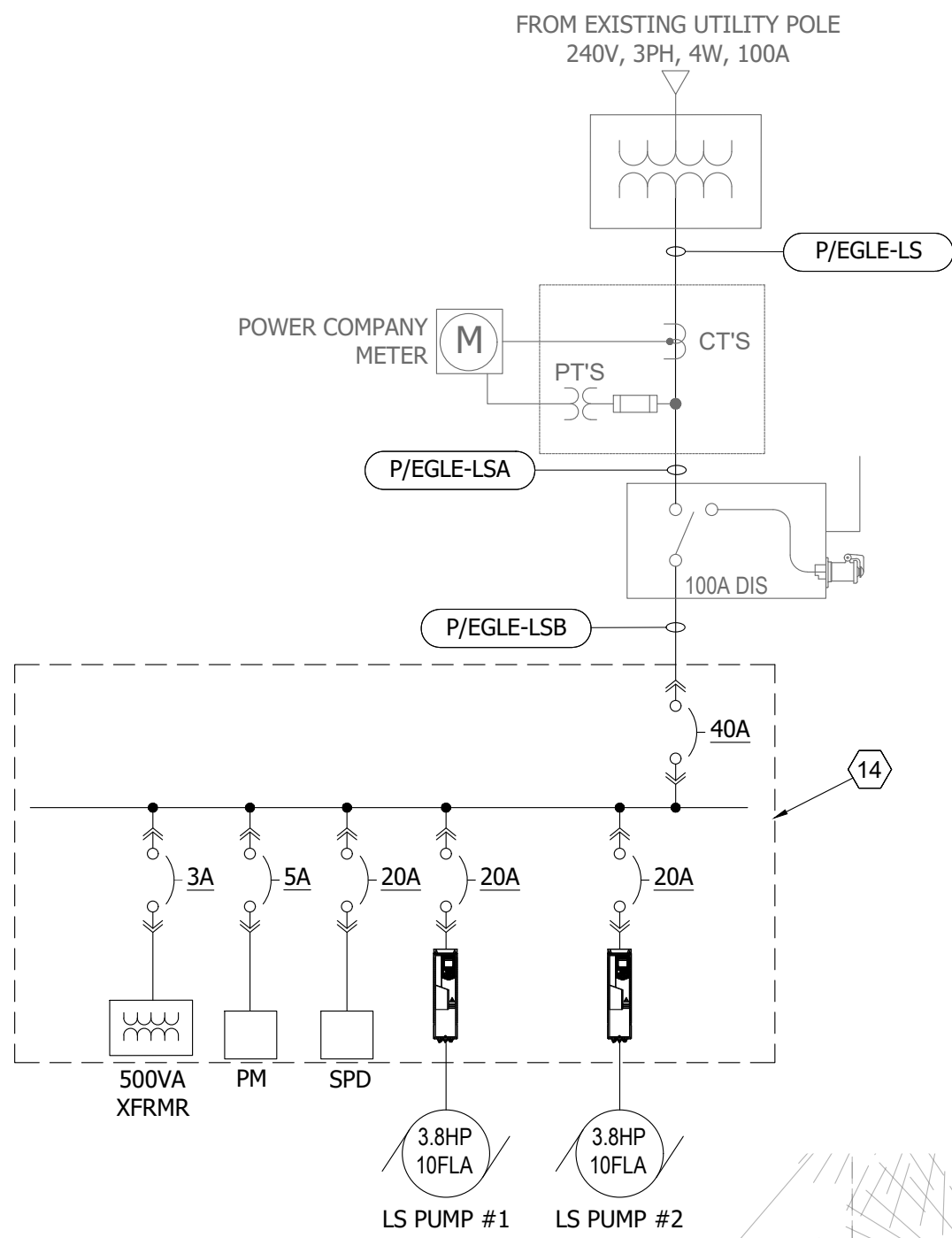


LIFT STATION ELECTRICAL EQUIPMENT RACK

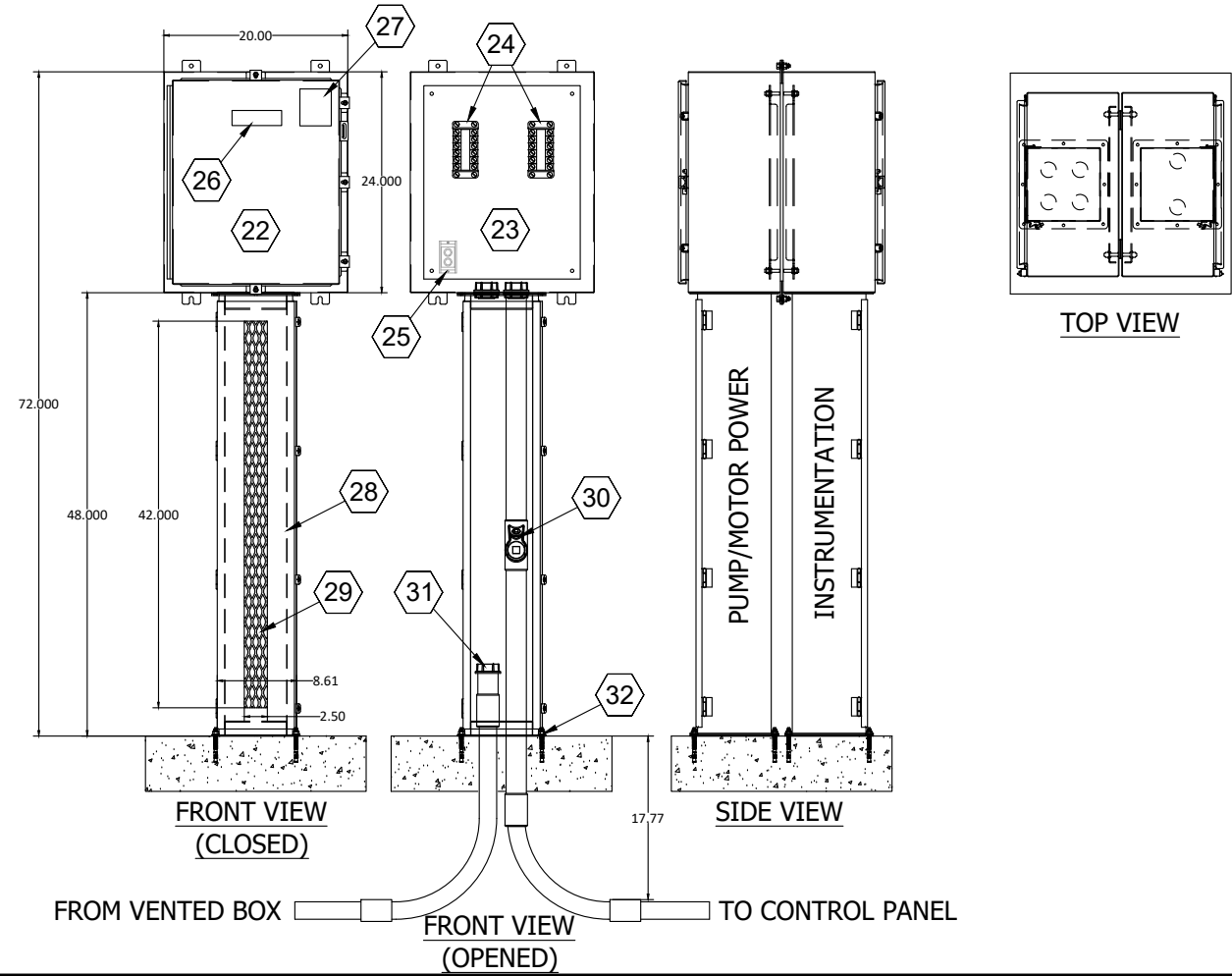
NO SCALE

ELECTRICAL KEYED NOTES:

- EXISTING UTILITY UNDERGROUND 100A SERVICE. 240V, 1PH. LIFT STATION UNDERGROUND SERVICE TO BE RELOCATED FROM EXISTING TRANSFORMER TO NEW EQUIPMENT RACK.
- EXISTING UTILITY TRANSFORMER. TO REMAIN.
- EXISTING 240V, 1PH, 100A RONK 7103 MAIN DISCONNECT AND MANUAL TRANSFER SWITCH. TO BE RELOCATED TO NEW RACK.
- EXISTING PUMP CONTROL PANEL. TO BE REMOVED AND RETURNED TO OWNER.
- EXISTING MOBILE GENERATOR PLUG AND JUNCTION BOX. TO BE RELOCATED TO NEW EQUIPMENT RACK.
- EXISTING UTILITY METER, TO BE REMOVED. COORDINATE WITH LOCAL UTILITY FOR DISCONNECT AND RELOCATION TO ELECTRICAL EQUIPMENT RACK.
- PROPOSED ELECTRICAL EQUIPMENT RACK. SEE DETAIL.
- EXISTING FLOAT SWITCHES TO BE REMOVED AND REPLACED WITH NEW (4 NON-MERCURY TYPE). PROVIDE STAINLESS STEEL J-HOOK FOR FLOAT CABLES.
- REMOVE EXISTING LEVEL TRANSMITTER AND PROVIDE A NEW RADAR LEVEL TRANSMITTER IN STILLING TUBE. SEE DETAILS SHEET E110.
- PROVIDE LINK SEALS FOR ALL WET WELL ENTRIES FOR NEW CABLES. SEAL ALL EXISTING CONDUIT/CABLE ENTRIES.
- JUNCTION BOX OR LB FOR LEVEL SIGNAL CABLE TRANSITION FROM ABOVE GRADE TO BELOW.
- LIFT STATION EQUIPMENT RACK POURED CONCRETE BASE, 16" X 24" MINIMUM.
- PROPOSED ALUMINUM EQUIPMENT RACK. 3" X 3" SQUARE ALUMINUM TUBING WELDED OR ALUMINUM ANGLE.
- PROPOSED PUMP CONTROL PANEL.
- LIFT STATION WET WELL.
- LIFT STATION VALVE VAULT.
- EQUIPMENT SUPPORT: STAINLESS OR ALUMINUM UNI-STRUT.
- INSTRUMENTATION CONDUIT FROM INSTRUMENTATION VENTED BOX.
- MOTOR POWER CONDUIT FROM MOTOR POWER VENTED BOX.
- EXISTING MOBILE GENERATOR PLUG.
- COAT ALUMINUM TO PROTECT AGAINST CONCRETE AND SOIL EROSION EFFECTS. ALTERNATIVELY, CONTRACTOR MAY USE WEDGE ANCHORS IN POURED CONCRETE GRADE. EQUIPMENT RACK SHALL BE INSTALLED SO THAT THERE IS NO VISIBLE PLAY IN MOVEMENT.
- 24" X 20" X 8" NEMA4X STAINLESS STEEL ENCLOSURE. TYPICAL FOR BOTH MOTOR VENTED BOX AND INSTRUMENT VENTED BOX.
- 24"x20" EQUIPMENT PANEL. TYPICAL FOR BOTH.
- TERMINATION BLOCKS: 1 SET PER BOX FOR WIRE ENTRY FROM WET WELL AND 1 SET FOR WIRE DEPARTURE TO PUMP CONTROL PANEL.
 - MOTOR VENT BOX: MOTOR LEADS/SEAL FAIL/OVERTEMP
 - I&C VENT BOX: FLOAT SWITCHES/LEVEL TRANSMITTER
- GROUNDING TERMINAL BLOCK.
- PHENOLIC IDENTIFICATION NAMEPLATE. BLACK LETTERING ON WHITE.
- VOLTAGE RATING ON BOX.
- STAINLESS STEEL WIRE TROUGH SIMILAR TO HAMMOND 1487E48SS. CUT-IN OPENING ON TROUGH DOOR TO APPROXIMATE DIMENSIONS SHOWN. ALL CUT EDGES TO BE CLEAR OF BURRS AND SHARP EDGES.
- STAINLESS STEEL GRATE. .75" TO 1" HOLE 13GA. MINIMUM. WELDED AND FINISHED TO INSIDE OF TROUGH DOOR CUT-OUT.
- SEAL-OFF. (SIZED PER WIRE REQUIREMENTS).
- WIRE PROTECTION BUSHING.
- STAINLESS STEEL WEDGE ANCHOR: MINIMUM 3/8" X 3" MINIMUM.
- INSTRUMENTATION VENTED TERMINATION BOX. SEE DETAIL.
- MOTOR VENTED TERMINATION BOX. SEE DETAIL.
- EXISTING TELEPHONE JUNCTION BOX. DO NOT DISTURB.

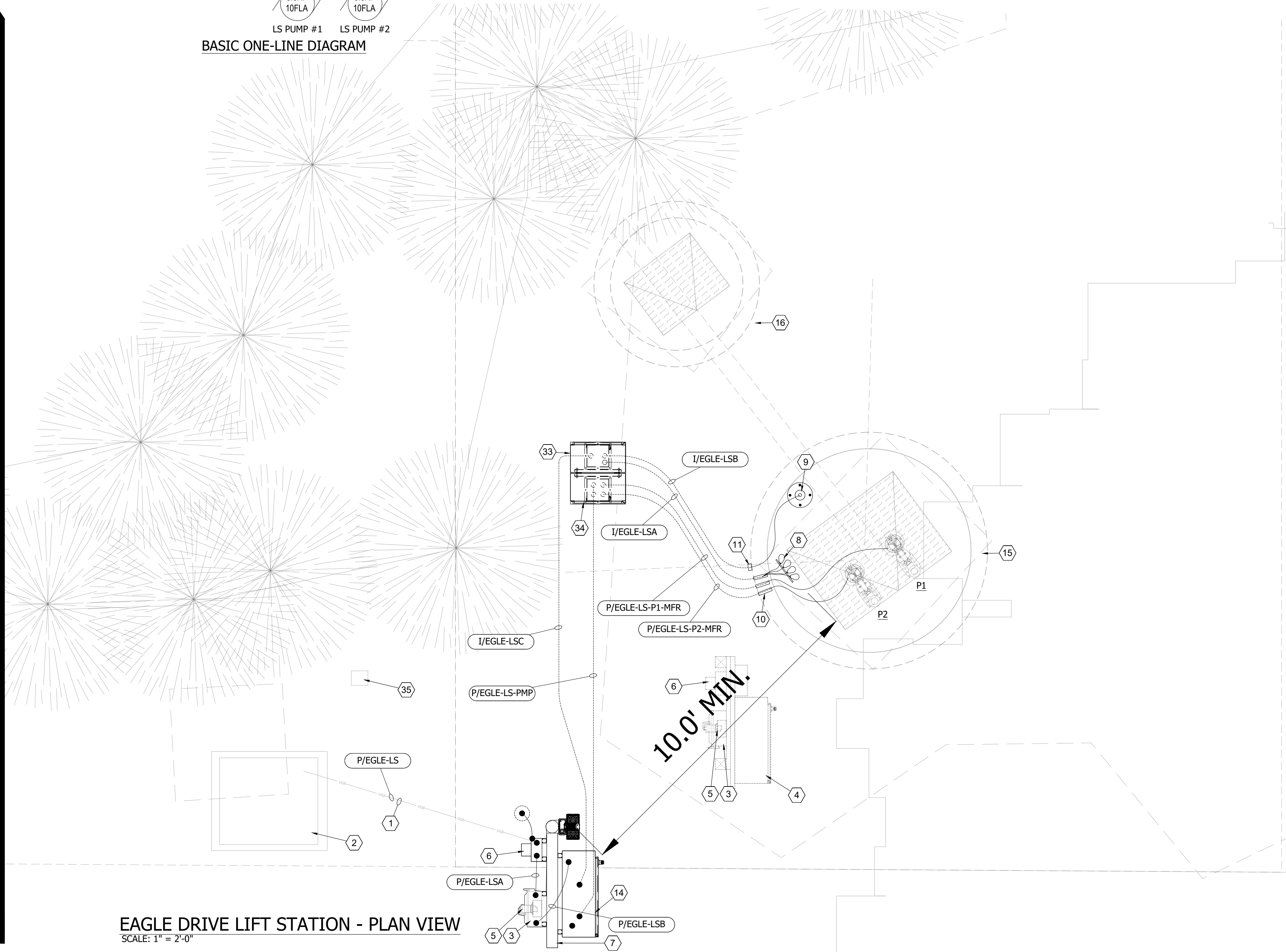


BASIC ONE-LINE DIAGRAM



LIFT STATION VENT BOX DETAIL

NO SCALE



EAGLE DRIVE LIFT STATION - PLAN VIEW

SCALE: 1" = 2'-0"



SWEETSER WASTE WATER IMPROVEMENTS

SWEETSER, INDIANA, 46987

#	Revision	Date

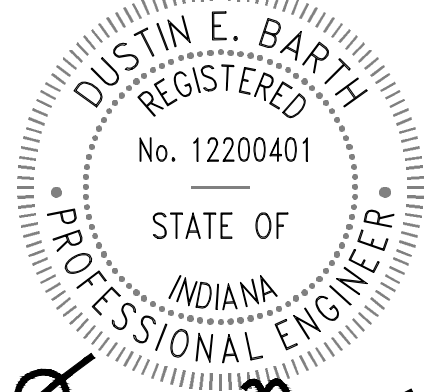
Project #: 400-6314

Designed By: JAR

Drawn By: JAR

Checked By: ALC & DB

Date: 08/14/2026



Dustin Barth

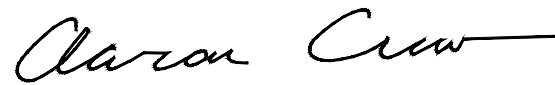


EAGLE DRIVE LS
ELECTRICAL DETAILS -
PROPOSED

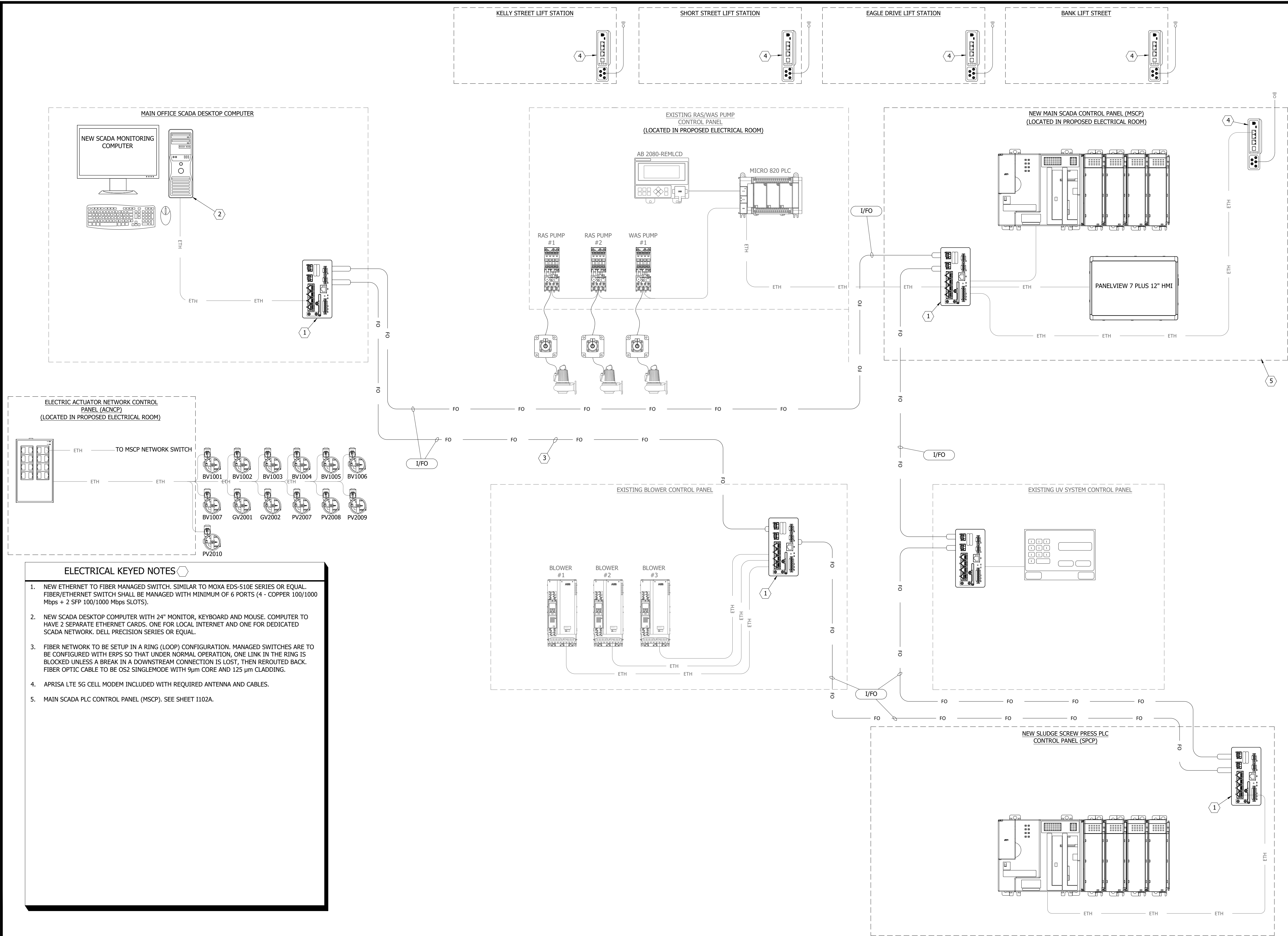
E113

#	Revision	Date

Date: 08/14/2026



I100



PRINT DATE: 8/7/26
PLOT SCALE: 1:1
DRAWING FILE: P:\M0-6314 SWEETSER VW IMPROVEMENTS\SCADA\PLAN SHEETS & WORKING DRAWINGS\M0-6314 - SCADA SYSTEM PLC SIGNAL IO LIST.DWG
EDITED BY: JREED
DATE: 8/10/26 7:21 AM

PLC NAME: MSCP							
TOTAL SIGNALS:	17	0	10	1	226	53	
DESCRIPTION:	ANALOG IN	ANALOG OUT	DIGITAL IN	DIGITAL OUT	ETHERNET	PLC GENERATED	FROM:
BLOWER CONTROL PANEL PHASE FAILURE					X		EXISTING BLOWER CONTROL PANEL
BLOWER #1 RUN STATUS					X		EXISTING BLOWER CONTROL PANEL
BLOWER #1 SAFETY SHUTDOWN					X		EXISTING BLOWER CONTROL PANEL
BLOWER #1 FAILED					X		EXISTING BLOWER CONTROL PANEL
BLOWER #1 IN AUTO					X		EXISTING BLOWER CONTROL PANEL
BLOWER #1 RUN TIME TOTAL						X	EXISTING BLOWER CONTROL PANEL
BLOWER #1 RUN TIME TOTAL FOR DAY						X	EXISTING BLOWER CONTROL PANEL
BLOWER #1 RUN TIME TOTAL FOR WEEK						X	EXISTING BLOWER CONTROL PANEL
BLOWER #1 RUN TIME TOTAL FOR MONTH						X	EXISTING BLOWER CONTROL PANEL
BLOWER #1 RUN TIME TOTAL FOR YEAR						X	EXISTING BLOWER CONTROL PANEL
BLOWER #1 SOFT MANUAL/AUTO						X	EXISTING BLOWER CONTROL PANEL
BLOWER #1 MANUAL START/STOP						X	EXISTING BLOWER CONTROL PANEL
BLOWER #1 MANUAL SPEED SETPOINT						X	EXISTING BLOWER CONTROL PANEL
BLOWER #1 RUN COMMAND					X		EXISTING BLOWER CONTROL PANEL
BLOWER #1 SPEED REFERENCE					X		EXISTING BLOWER CONTROL PANEL
BLOWER #1 SPEED FEEDBACK (Hz AND %)					X		EXISTING BLOWER CONTROL PANEL
BLOWER #1 FAULT CODE/DESCRIPTION					X		EXISTING BLOWER CONTROL PANEL
BLOWER #1 VFD TORQUE					X		EXISTING BLOWER CONTROL PANEL
BLOWER #1 RPM					X		EXISTING BLOWER CONTROL PANEL
BLOWER #1 OUTPUT CURRENT					X		EXISTING BLOWER CONTROL PANEL
BLOWER #1 OUTPUT POWER					X		EXISTING BLOWER CONTROL PANEL
BLOWER #1 OUTPUT VOLTAGE					X		EXISTING BLOWER CONTROL PANEL
BLOWER #1 DRIVE TEMPERATURE					X		EXISTING BLOWER CONTROL PANEL
BLOWER #1 RUN TIME					X		EXISTING BLOWER CONTROL PANEL
BLOWER #2 RUN STATUS					X		EXISTING BLOWER CONTROL PANEL
BLOWER #2 SAFETY SHUTDOWN					X		EXISTING BLOWER CONTROL PANEL
BLOWER #2 FAILED					X		EXISTING BLOWER CONTROL PANEL
BLOWER #2 IN AUTO					X		EXISTING BLOWER CONTROL PANEL
BLOWER #2 RUN TIME TOTAL						X	EXISTING BLOWER CONTROL PANEL
BLOWER #2 RUN TIME TOTAL FOR DAY						X	EXISTING BLOWER CONTROL PANEL
BLOWER #2 RUN TIME TOTAL FOR WEEK						X	EXISTING BLOWER CONTROL PANEL
BLOWER #2 RUN TIME TOTAL FOR MONTH						X	EXISTING BLOWER CONTROL PANEL
BLOWER #2 RUN TIME TOTAL FOR YEAR						X	EXISTING BLOWER CONTROL PANEL
BLOWER #2 SOFT MANUAL/AUTO						X	EXISTING BLOWER CONTROL PANEL
BLOWER #2 MANUAL START/STOP						X	EXISTING BLOWER CONTROL PANEL
BLOWER #2 MANUAL SPEED SETPOINT						X	EXISTING BLOWER CONTROL PANEL
BLOWER #2 RUN COMMAND					X		EXISTING BLOWER CONTROL PANEL
BLOWER #2 SPEED REFERENCE					X		EXISTING BLOWER CONTROL PANEL
BLOWER #2 SPEED FEEDBACK (Hz AND %)					X		EXISTING BLOWER CONTROL PANEL
BLOWER #2 FAULT CODE/DESCRIPTION					X		EXISTING BLOWER CONTROL PANEL
BLOWER #2 VFD TORQUE					X		EXISTING BLOWER CONTROL PANEL
BLOWER #2 RPM					X		EXISTING BLOWER CONTROL PANEL
BLOWER #2 OUTPUT CURRENT					X		EXISTING BLOWER CONTROL PANEL
BLOWER #2 OUTPUT POWER					X		EXISTING BLOWER CONTROL PANEL
BLOWER #2 OUTPUT VOLTAGE					X		EXISTING BLOWER CONTROL PANEL
BLOWER #2 DRIVE TEMPERATURE					X		EXISTING BLOWER CONTROL PANEL
BLOWER #2 RUN TIME					X		EXISTING BLOWER CONTROL PANEL
BLOWER #3 RUN STATUS					X		EXISTING BLOWER CONTROL PANEL
BLOWER #3 SAFETY SHUTDOWN					X		EXISTING BLOWER CONTROL PANEL
BLOWER #3 FAILED					X		EXISTING BLOWER CONTROL PANEL
BLOWER #3 IN AUTO					X		EXISTING BLOWER CONTROL PANEL
BLOWER #3 RUN TIME TOTAL						X	EXISTING BLOWER CONTROL PANEL
BLOWER #3 RUN TIME TOTAL FOR DAY						X	EXISTING BLOWER CONTROL PANEL
BLOWER #3 RUN TIME TOTAL FOR WEEK						X	EXISTING BLOWER CONTROL PANEL
BLOWER #3 RUN TIME TOTAL FOR MONTH						X	EXISTING BLOWER CONTROL PANEL
BLOWER #3 RUN TIME TOTAL FOR YEAR						X	EXISTING BLOWER CONTROL PANEL
BLOWER #3 SOFT MANUAL/AUTO						X	EXISTING BLOWER CONTROL PANEL
BLOWER #3 MANUAL START/STOP						X	EXISTING BLOWER CONTROL PANEL
BLOWER #3 MANUAL SPEED SETPOINT						X	EXISTING BLOWER CONTROL PANEL
BLOWER #3 RUN COMMAND					X		EXISTING BLOWER CONTROL PANEL
BLOWER #3 SPEED REFERENCE					X		EXISTING BLOWER CONTROL PANEL
BLOWER #3 SPEED FEEDBACK (Hz AND %)					X		EXISTING BLOWER CONTROL PANEL
BLOWER #3 FAULT CODE/DESCRIPTION					X		EXISTING BLOWER CONTROL PANEL
BLOWER #3 VFD TORQUE					X		EXISTING BLOWER CONTROL PANEL
BLOWER #3 RPM					X		EXISTING BLOWER CONTROL PANEL
BLOWER #3 OUTPUT CURRENT					X		EXISTING BLOWER CONTROL PANEL
BLOWER #3 OUTPUT POWER					X		EXISTING BLOWER CONTROL PANEL
BLOWER #3 OUTPUT VOLTAGE					X		EXISTING BLOWER CONTROL PANEL
BLOWER #3 DRIVE TEMPERATURE					X		EXISTING BLOWER CONTROL PANEL
BLOWER #3 RUN TIME					X		EXISTING BLOWER CONTROL PANEL
AERATION TANK #1 DO	X						LOCAL
AERATION TANK #1 Ph	X						LOCAL
AERATION TANK #1 ORP	X						LOCAL
AERATION TANK #1 LEVEL	X						LOCAL
AERATION TANK #2 DO	X						LOCAL
AERATION TANK #2 Ph	X						LOCAL
AERATION TANK #2 ORP	X						LOCAL
AERATION TANK #2 LEVEL	X						LOCAL
INFLUENT FLOW RATE	X						LOCAL
INFLUENT FLOW RATE TOTAL MGD						X	LOCAL
INFLUENT FLOW RATE TOTAL CURRENT DAY						X	LOCAL
INFLUENT FLOW RATE TOTAL CURRENT MONTH						X	LOCAL
INFLUENT FLOW RATE TOTAL CURRENT YEAR						X	LOCAL
INFLUENT FLOW RATE TOTAL CURRENT WEEK						X	LOCAL
INFLUENT FLOW RATE TOTAL PREVIOUS DAY						X	LOCAL
INFLUENT FLOW RATE TOTAL PREVIOUS MONTH						X	LOCAL
INFLUENT FLOW RATE TOTAL PREVIOUS YEAR						X	LOCAL
INFLUENT FLOW RATE TOTAL PREVIOUS WEEK						X	LOCAL
RAS FLOW RATE	X						LOCAL
RAS FLOW RATE TOTAL MGD						X	LOCAL
RAS FLOW RATE TOTAL CURRENT DAY						X	LOCAL
RAS FLOW RATE TOTAL CURRENT MONTH						X	LOCAL
RAS FLOW RATE TOTAL CURRENT YEAR						X	LOCAL
RAS FLOW RATE TOTAL CURRENT WEEK						X	LOCAL
RAS FLOW RATE TOTAL PREVIOUS DAY						X	LOCAL
RAS FLOW RATE TOTAL PREVIOUS MONTH						X	LOCAL

(PLC MSCP I/O LIST CONTINUED)

RAS FLOW RATE TOTAL PREVIOUS YEAR						X	LOCAL
RAS FLOW RATE TOTAL PREVIOUS WEEK						X	LOCAL
WAS FLOW RATE	X						LOCAL
WAS FLOW RATE TOTAL MGD						X	LOCAL
WAS FLOW RATE TOTAL CURRENT DAY						X	LOCAL
WAS FLOW RATE TOTAL CURRENT MONTH						X	LOCAL
WAS FLOW RATE TOTAL CURRENT YEAR						X	LOCAL
WAS FLOW RATE TOTAL CURRENT WEEK						X	LOCAL
WAS FLOW RATE TOTAL PREVIOUS DAY						X	LOCAL
WAS FLOW RATE TOTAL PREVIOUS MONTH						X	LOCAL
WAS FLOW RATE TOTAL PREVIOUS YEAR						X	LOCAL
WAS FLOW RATE TOTAL PREVIOUS WEEK						X	LOCAL
EAST AREA TEMPERATURE	X						LOCAL
WEST AREA TEMPERATURE	X						LOCAL
WAS PUMP COMMON ALARM						X	RAS/WAS NEW PLC
RAS PUMP #1 IN LEAD						X	RAS/WAS NEW PLC
RAS PUMP #2 IN LEAD						X	RAS/WAS NEW PLC
WAS PUMP OPERATION SELECTION						X	RAS/WAS NEW PLC
RAS PUMP #2 RUN STATUS						X	RAS/WAS NEW PLC
RAS PUMP #2 COMMON ALARM						X	RAS/WAS NEW PLC
WAS PUMP IN AUTO						X	RAS/WAS NEW PLC
WAS PUMP RUN STATUS						X	RAS/WAS NEW PLC
RAS PUMP #1 IN AUTO						X	RAS/WAS NEW PLC
RAS PUMP #1 RUN STATUS						X	RAS/WAS NEW PLC
RAS PUMP #1 COMMON ALARM						X	RAS/WAS NEW PLC
RAS PUMP #2 IN AUTO						X	RAS/WAS NEW PLC
RAS PUMP #1 START/STOP						X	RAS/WAS NEW PLC
RAS PUMP #2 START/STOP						X	RAS/WAS NEW PLC
WAS PUMP START/STOP						X	RAS/WAS NEW PLC
RAS/WAS PHASE FAIL						X	RAS/WAS NEW PLC
RAS/WAS 120V POWER LOSS						X	RAS/WAS NEW PLC
RAS/WAS WET WELL LEVEL						X	RAS/WAS NEW PLC
CLARIFIER #1 COLLECTOR DRIVE RUN STATUS				X			CLARIFIER CONTROL PANEL
CLARIFIER #1 COLLECTOR DRIVE FAULT				X			CLARIFIER CONTROL PANEL
CLARIFIER #2 COLLECTOR DRIVE RUN STATUS				X			CLARIFIER CONTROL PANEL
CLARIFIER #2 COLLECTOR DRIVE FAULT				X			CLARIFIER CONTROL PANEL
CLARIFIER #1 AIR SCUM IN AUTO				X			CLARIFIER CONTROL PANEL
CLARIFIER #2 AIR SCUM IN AUTO				X			CLARIFIER CONTROL PANEL
UV SYSTEM INFENSTY						X	EXISTING UV SYSTEM
UV SYSTEM UV DOSE						X	EXISTING UV SYSTEM
FLOW RATE (IF NOT AVAILABLE VIA HW)						X	EXISTING UV SYSTEM
UV SYSTEM UV TRANSMITTANCE						X	EXISTING UV SYSTEM
UV SYSTEM RUN STATUS						X	EXISTING UV SYSTEM
UV SYSTEM IN LOCAL OR REMOTE						X	EXISTING UV SYSTEM
UV SYSTEM AT LEAST ONE BANK IS ACTIVE						X	EXISTING UV SYSTEM
UV SYSTEM CHANNEL #1 IN MAINTENANCE MODE						X	EXISTING UV SYSTEM
UV SYSTEM BANK A IS ON						X	EXISTING UV SYSTEM
UV SYSTEM BANK B IS ON						X	EXISTING UV SYSTEM
UV SYSTEM 24VDC POWER SUPPLY FAILED						X	EXISTING UV SYSTEM
UV SYSTEM ENCLOSURE TEMPERATURE HIGH						X	EXISTING UV SYSTEM
UV SYSTEM FLOW SIGNAL LOST						X	EXISTING UV SYSTEM
UV SYSTEM MAXIMUM DESIGN FLOW EXCEEDED						X	EXISTING UV SYSTEM
UV SYSTEM BANK A LAMP FAILURE						X	EXISTING UV SYSTEM
UV SYSTEM BANK A INTENSITY LOW WARNING						X	EXISTING UV SYSTEM
UV SYSTEM BANK A CYCLES WARNING						X	EXISTING UV SYSTEM
UV SYSTEM BANK A SAFETY RELAY TRIPPED						X	EXISTING UV SYSTEM
UV SYSTEM BANK A INTENSITY LOW ALARM						X	EXISTING UV SYSTEM
UV SYSTEM BANK B LAMP FAILURE						X	EXISTING UV SYSTEM
UV SYSTEM BANK B INTENSITY LOW WARNING						X	EXISTING UV SYSTEM
UV SYSTEM BANK B CYCLES WARNING						X	EXISTING UV SYSTEM
UV SYSTEM BANK B SAFETY RELAY TRIPPED						X	EXISTING UV SYSTEM
UV SYSTEM BANK B INTENSITY LOW ALARM						X	EXISTING UV SYSTEM
UV SYSTEM CHANNEL #1 BANK A LAMPS 1 - 48						X	EXISTING UV SYSTEM
UV SYSTEM CHANNEL #1 BANK B LAMPS 1 - 24						X	EXISTING UV SYSTEM
UV SYSTEM ECOTOUCH HEARTBEAT						X	EXISTING UV SYSTEM
BV1001 IN AUTO						X	ACTUATOR NETWORK CONTROL PANEL
BV1001 POSITION FEEDBACK						X	ACTUATOR NETWORK CONTROL PANEL
BV1001 POSITION CONTROL						X	ACTUATOR NETWORK CONTROL PANEL
BV1001 FULLY CLOSED						X	ACTUATOR NETWORK CONTROL PANEL
BV1001 FULLY OPENED						X	ACTUATOR NETWORK CONTROL PANEL
BV1001 FAILED						X	ACTUATOR NETWORK CONTROL PANEL
BV1001 ENABLE/REMOTE PERMISSION TO OPER.						X	ACTUATOR NETWORK CONTROL PANEL
BV1001 TORQUE TRIP						X	ACTUATOR NETWORK CONTROL PANEL
BV1001 ACTUATOR RUNNING						X	ACTUATOR NETWORK CONTROL PANEL
BV1001 LOCAL/REMOTE STATUS						X	ACTUATOR NETWORK CONTROL PANEL
BV1002 IN AUTO						X	ACTUATOR NETWORK CONTROL PANEL
BV1002 OPEN COMMAND						X	ACTUATOR NETWORK CONTROL PANEL
BV1002 CLOSE COMMAND						X	ACTUATOR NETWORK CONTROL PANEL
BV1002 FULLY CLOSED						X	ACTUATOR NETWORK CONTROL PANEL
BV1002 FULLY OPENED						X	ACTUATOR NETWORK CONTROL PANEL
BV1002 FAILED						X	ACTUATOR NETWORK CONTROL PANEL
BV1002 ENABLE/REMOTE PERMISSION TO OPER.						X	ACTUATOR NETWORK CONTROL PANEL
BV1002 TORQUE TRIP						X	ACTUATOR NETWORK CONTROL PANEL
BV1002 ACTUATOR RUNNING						X	ACTUATOR NETWORK CONTROL PANEL
BV1002 LOCAL/REMOTE STATUS						X	ACTUATOR NETWORK CONTROL PANEL
BV1003 IN AUTO						X	ACTUATOR NETWORK CONTROL PANEL
BV1003 OPEN COMMAND						X	ACTUATOR NETWORK CONTROL PANEL
BV1003 CLOSE COMMAND						X	ACTUATOR NETWORK CONTROL PANEL
BV1003 FULLY CLOSED						X	ACTUATOR NETWORK CONTROL PANEL
BV1003 FULLY OPENED						X	ACTUATOR NETWORK CONTROL PANEL
BV1003 FAILED						X	ACTUATOR NETWORK CONTROL PANEL
BV1003 ENABLE/REMOTE PERMISSION TO OPER.						X	ACTUATOR NETWORK CONTROL PANEL
BV1003 TORQUE TRIP						X	ACTUATOR NETWORK CONTROL PANEL
BV1003 ACTUATOR RUNNING						X	ACTUATOR NETWORK CONTROL PANEL
BV1003 LOCAL/REMOTE STATUS						X	ACTUATOR NETWORK CONTROL PANEL
BV1004 IN AUTO						X	ACTUATOR NETWORK CONTROL PANEL
BV1004 POSITION FEEDBACK						X	ACTUATOR NETWORK CONTROL PANEL
BV1004 POSITION CONTROL						X	ACTUATOR NETWORK CONTROL PANEL
BV1004 FULLY CLOSED						X	ACTUATOR NETWORK CONTROL PANEL
BV1004 FULLY OPENED						X	ACTUATOR NETWORK CONTROL PANEL



SWEETSER WASTE WATER IMPROVEMENTS

SWEETSER, INDIANA, 46987

#	Revision	Date

Project #: 400-6314

Designed By: JAR

Drawn By: JAR

Checked By: ALC

Date: 08/14/2026



Aaron Crow

SCADA SYSTEM PLC
SIGNAL IO LIST

I101A

PRINT DATE: 8/27/26 PLOT SCALE: 1:1 EDIT DATE: 8/10/26 7:22 AM EDITED BY: JREED DRAWING FILE: P:\400-6314 SWEETSER VW IMPROVEMENTS\SCADA\PLAN SHEETS & WORKING DRAWINGS\400-6314 - SCADA SYSTEM PLC SIGNAL IO LIST B.DWG

(PLC MSCP I/O LIST CONTINUED)						
BV1004 FAILED					X	ACTUATOR NETWORK CONTROL PANEL
BV1004 ENABLE/REMOTE PERMISSION TO OPER.					X	ACTUATOR NETWORK CONTROL PANEL
BV1004 TORQUE TRIP					X	ACTUATOR NETWORK CONTROL PANEL
BV1004 ACTUATOR RUNNING					X	ACTUATOR NETWORK CONTROL PANEL
BV1004 LOCAL/REMOTE STATUS					X	ACTUATOR NETWORK CONTROL PANEL
BV1005 IN AUTO					X	ACTUATOR NETWORK CONTROL PANEL
BV1005 POSITION FEEDBACK					X	ACTUATOR NETWORK CONTROL PANEL
BV1005 POSITION CONTROL					X	ACTUATOR NETWORK CONTROL PANEL
BV1005 FULLY CLOSED					X	ACTUATOR NETWORK CONTROL PANEL
BV1005 FULLY OPENED					X	ACTUATOR NETWORK CONTROL PANEL
BV1005 FAILED					X	ACTUATOR NETWORK CONTROL PANEL
BV1005 ENABLE/REMOTE PERMISSION TO OPER.					X	ACTUATOR NETWORK CONTROL PANEL
BV1005 TORQUE TRIP					X	ACTUATOR NETWORK CONTROL PANEL
BV1005 ACTUATOR RUNNING					X	ACTUATOR NETWORK CONTROL PANEL
BV1005 LOCAL/REMOTE STATUS					X	ACTUATOR NETWORK CONTROL PANEL
BV1006 IN AUTO					X	ACTUATOR NETWORK CONTROL PANEL
BV1006 POSITION FEEDBACK					X	ACTUATOR NETWORK CONTROL PANEL
BV1006 POSITION CONTROL					X	ACTUATOR NETWORK CONTROL PANEL
BV1006 FULLY CLOSED					X	ACTUATOR NETWORK CONTROL PANEL
BV1006 FULLY OPENED					X	ACTUATOR NETWORK CONTROL PANEL
BV1006 FAILED					X	ACTUATOR NETWORK CONTROL PANEL
BV1006 ENABLE/REMOTE PERMISSION TO OPER.					X	ACTUATOR NETWORK CONTROL PANEL
BV1006 TORQUE TRIP					X	ACTUATOR NETWORK CONTROL PANEL
BV1006 ACTUATOR RUNNING					X	ACTUATOR NETWORK CONTROL PANEL
BV1006 LOCAL/REMOTE STATUS					X	ACTUATOR NETWORK CONTROL PANEL
BV1007 IN AUTO					X	ACTUATOR NETWORK CONTROL PANEL
BV1007 POSITION FEEDBACK					X	ACTUATOR NETWORK CONTROL PANEL
BV1007 POSITION CONTROL					X	ACTUATOR NETWORK CONTROL PANEL
BV1007 FULLY CLOSED					X	ACTUATOR NETWORK CONTROL PANEL
BV1007 FULLY OPENED					X	ACTUATOR NETWORK CONTROL PANEL
BV1007 FAILED					X	ACTUATOR NETWORK CONTROL PANEL
BV1007 ENABLE/REMOTE PERMISSION TO OPER.					X	ACTUATOR NETWORK CONTROL PANEL
BV1007 TORQUE TRIP					X	ACTUATOR NETWORK CONTROL PANEL
BV1007 ACTUATOR RUNNING					X	ACTUATOR NETWORK CONTROL PANEL
BV1007 LOCAL/REMOTE STATUS					X	ACTUATOR NETWORK CONTROL PANEL
GV2001 IN AUTO					X	ACTUATOR NETWORK CONTROL PANEL
GV2001 POSITION FEEDBACK					X	ACTUATOR NETWORK CONTROL PANEL
GV2001 POSITION CONTROL					X	ACTUATOR NETWORK CONTROL PANEL
GV2001 FULLY CLOSED					X	ACTUATOR NETWORK CONTROL PANEL
GV2001 FULLY OPENED					X	ACTUATOR NETWORK CONTROL PANEL
GV2001 FAILED					X	ACTUATOR NETWORK CONTROL PANEL
GV2001 ENABLE/REMOTE PERMISSION TO OPER.					X	ACTUATOR NETWORK CONTROL PANEL
GV2001 TORQUE TRIP					X	ACTUATOR NETWORK CONTROL PANEL
GV2001 ACTUATOR RUNNING					X	ACTUATOR NETWORK CONTROL PANEL
GV2001 LOCAL/REMOTE STATUS					X	ACTUATOR NETWORK CONTROL PANEL
GV1002 IN AUTO					X	ACTUATOR NETWORK CONTROL PANEL
GV2002 POSITION FEEDBACK					X	ACTUATOR NETWORK CONTROL PANEL
GV2002 POSITION CONTROL					X	ACTUATOR NETWORK CONTROL PANEL
GV2002 FULLY CLOSED					X	ACTUATOR NETWORK CONTROL PANEL
GV2002 FULLY OPENED					X	ACTUATOR NETWORK CONTROL PANEL
GV2002 FAILED					X	ACTUATOR NETWORK CONTROL PANEL
GV2002 ENABLE/REMOTE PERMISSION TO OPER.					X	ACTUATOR NETWORK CONTROL PANEL
GV2002 TORQUE TRIP					X	ACTUATOR NETWORK CONTROL PANEL
GV2002 ACTUATOR RUNNING					X	ACTUATOR NETWORK CONTROL PANEL
GV2002 LOCAL/REMOTE STATUS					X	ACTUATOR NETWORK CONTROL PANEL
PV2007 IN AUTO					X	ACTUATOR NETWORK CONTROL PANEL
PV2007 OPEN COMMAND					X	ACTUATOR NETWORK CONTROL PANEL
PV2007 CLOSE COMMAND					X	ACTUATOR NETWORK CONTROL PANEL
PV2007 FULLY CLOSED					X	ACTUATOR NETWORK CONTROL PANEL
PV2007 FULLY OPENED					X	ACTUATOR NETWORK CONTROL PANEL
PV2007 FAILED					X	ACTUATOR NETWORK CONTROL PANEL
PV2007 ENABLE/REMOTE PERMISSION TO OPER.					X	ACTUATOR NETWORK CONTROL PANEL
PV2007 TORQUE TRIP					X	ACTUATOR NETWORK CONTROL PANEL
PV2007 ACTUATOR RUNNING					X	ACTUATOR NETWORK CONTROL PANEL
PV2007 LOCAL/REMOTE STATUS					X	ACTUATOR NETWORK CONTROL PANEL
PV2008 IN AUTO					X	ACTUATOR NETWORK CONTROL PANEL
PV2008 OPEN COMMAND					X	ACTUATOR NETWORK CONTROL PANEL
PV2008 CLOSE COMMAND					X	ACTUATOR NETWORK CONTROL PANEL
PV2008 FULLY CLOSED					X	ACTUATOR NETWORK CONTROL PANEL
PV2008 FULLY OPENED					X	ACTUATOR NETWORK CONTROL PANEL
PV2008 FAILED					X	ACTUATOR NETWORK CONTROL PANEL
PV2008 ENABLE/REMOTE PERMISSION TO OPER.					X	ACTUATOR NETWORK CONTROL PANEL
PV2008 TORQUE TRIP					X	ACTUATOR NETWORK CONTROL PANEL
PV2008 ACTUATOR RUNNING					X	ACTUATOR NETWORK CONTROL PANEL
PV2008 LOCAL/REMOTE STATUS					X	ACTUATOR NETWORK CONTROL PANEL
PV2009 IN AUTO					X	ACTUATOR NETWORK CONTROL PANEL
PV2009 OPEN COMMAND					X	ACTUATOR NETWORK CONTROL PANEL
PV2009 CLOSE COMMAND					X	ACTUATOR NETWORK CONTROL PANEL
PV2009 FULLY CLOSED					X	ACTUATOR NETWORK CONTROL PANEL
PV2009 FULLY OPENED					X	ACTUATOR NETWORK CONTROL PANEL
PV2009 FAILED					X	ACTUATOR NETWORK CONTROL PANEL
PV2009 ENABLE/REMOTE PERMISSION TO OPER.					X	ACTUATOR NETWORK CONTROL PANEL
PV2009 TORQUE TRIP					X	ACTUATOR NETWORK CONTROL PANEL
PV2009 ACTUATOR RUNNING					X	ACTUATOR NETWORK CONTROL PANEL
PV2009 LOCAL/REMOTE STATUS					X	ACTUATOR NETWORK CONTROL PANEL
PV2010 IN AUTO					X	ACTUATOR NETWORK CONTROL PANEL
PV2010 OPEN COMMAND					X	ACTUATOR NETWORK CONTROL PANEL
PV2010 CLOSE COMMAND					X	ACTUATOR NETWORK CONTROL PANEL
PV2010 FULLY CLOSED					X	ACTUATOR NETWORK CONTROL PANEL
PV2010 FULLY OPENED					X	ACTUATOR NETWORK CONTROL PANEL
PV2010 FAILED					X	ACTUATOR NETWORK CONTROL PANEL
PV2010 ENABLE/REMOTE PERMISSION TO OPER.					X	ACTUATOR NETWORK CONTROL PANEL
PV2010 TORQUE TRIP					X	ACTUATOR NETWORK CONTROL PANEL
PV2010 ACTUATOR RUNNING					X	ACTUATOR NETWORK CONTROL PANEL
PV2010 LOCAL/REMOTE STATUS					X	ACTUATOR NETWORK CONTROL PANEL
120V POWER LOSS			X			LOCAL
120V SURGE PROTECTION ALERT			X			LOCAL
H2S GAS DETECTION ALARM					X	LOCAL
H2S GAS DETECTION SIGNAL	X					LOCAL

(PLC MSCP I/O LIST CONTINUED)						
METHANE GAS DETECTION ALARM					X	LOCAL
METHANE GAS DETECTION SIGNAL	X					LOCAL
REMOTE START/STOP				X		DRUM SCREEN CONTROL PANEL
FAILED STATUS			X			DRUM SCREEN CONTROL PANEL
RUNNING STATUS			X			DRUM SCREEN CONTROL PANEL
UV SYSTEM INENSITY					X	UV SYSTEM CONTROL PANEL
UV SYSTEM UV DOSE					X	UV SYSTEM CONTROL PANEL
FLOW RATE (IF NOT AVAILABLE VIA HW)					X	UV SYSTEM CONTROL PANEL
UV SYSTEM UV TRANSMITTANCE					X	UV SYSTEM CONTROL PANEL
UV SYSTEM RUN STATUS					X	UV SYSTEM CONTROL PANEL
UV SYSTEM ALARMS					X	UV SYSTEM CONTROL PANEL
DIGESTER BLOWER DISCHARGE PRESSURE	X					NEW EQUIPMENT
AERATOR BLOWER DISCHARGE PRESSURE	X					NEW EQUIPMENT

PLC NAME: RAS/WAS (NEW PLC)						
TOTAL SIGNALS:	1	0	15	3	0	0
					PLC	
					GENERATED	
DESCRIPTION: NEW SIGNALS	ANALOG IN	ANALOG OUT	DIGITAL IN	DIGITAL OUT	ETHERNET	FROM:
RAS/WAS WET WELL LEVEL	X					NEW EQUIPMENT
WAS PUMP COMMON ALARM			X			EXISTING RAS/WAS PANEL
RAS PUMP #1 IN LEAD			X			EXISTING RAS/WAS PANEL
RAS PUMP #2 IN LEAD			X			EXISTING RAS/WAS PANEL
WAS PUMP OPERATION SELECTION			X			EXISTING RAS/WAS PANEL
RAS PUMP #2 RUN STATUS			X			EXISTING RAS/WAS PANEL
RAS PUMP #2 COMMON ALARM			X			EXISTING RAS/WAS PANEL
WAS PUMP IN AUTO			X			EXISTING RAS/WAS PANEL
WAS PUMP RUN STATUS			X			EXISTING RAS/WAS PANEL
RAS PUMP #1 IN AUTO			X			EXISTING RAS/WAS PANEL
RAS PUMP #1 RUN STATUS			X			EXISTING RAS/WAS PANEL
RAS PUMP #1 COMMON ALARM			X			EXISTING RAS/WAS PANEL
RAS PUMP #2 IN AUTO			X			EXISTING RAS/WAS PANEL
RAS PUMP #1 START/STOP				X		EXISTING RAS/WAS PANEL
RAS PUMP #2 START/STOP				X		EXISTING RAS/WAS PANEL
WAS PUMP START/STOP				X		EXISTING RAS/WAS PANEL
RAS/WAS PHASE FAIL			X			EXISTING RAS/WAS PANEL
RAS/WAS 120V POWER LOSS			X			EXISTING RAS/WAS PANEL
LOW CUTOFF FLOAT			X			EXISTING RAS/WAS PANEL



SWEETSER WASTE WATER IMPROVEMENTS

SWEETSER, INDIANA, 46987

#	Revision	Date

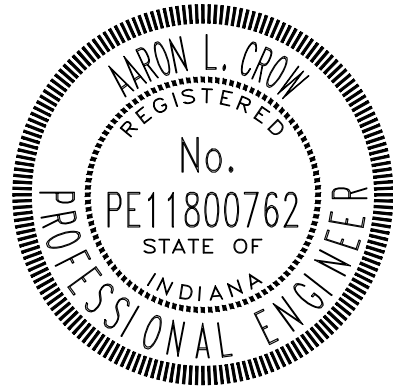
Project #: 400-6314

Designed By: JAR

Drawn By: JAR

Checked By: ALC

Date: 08/14/2026



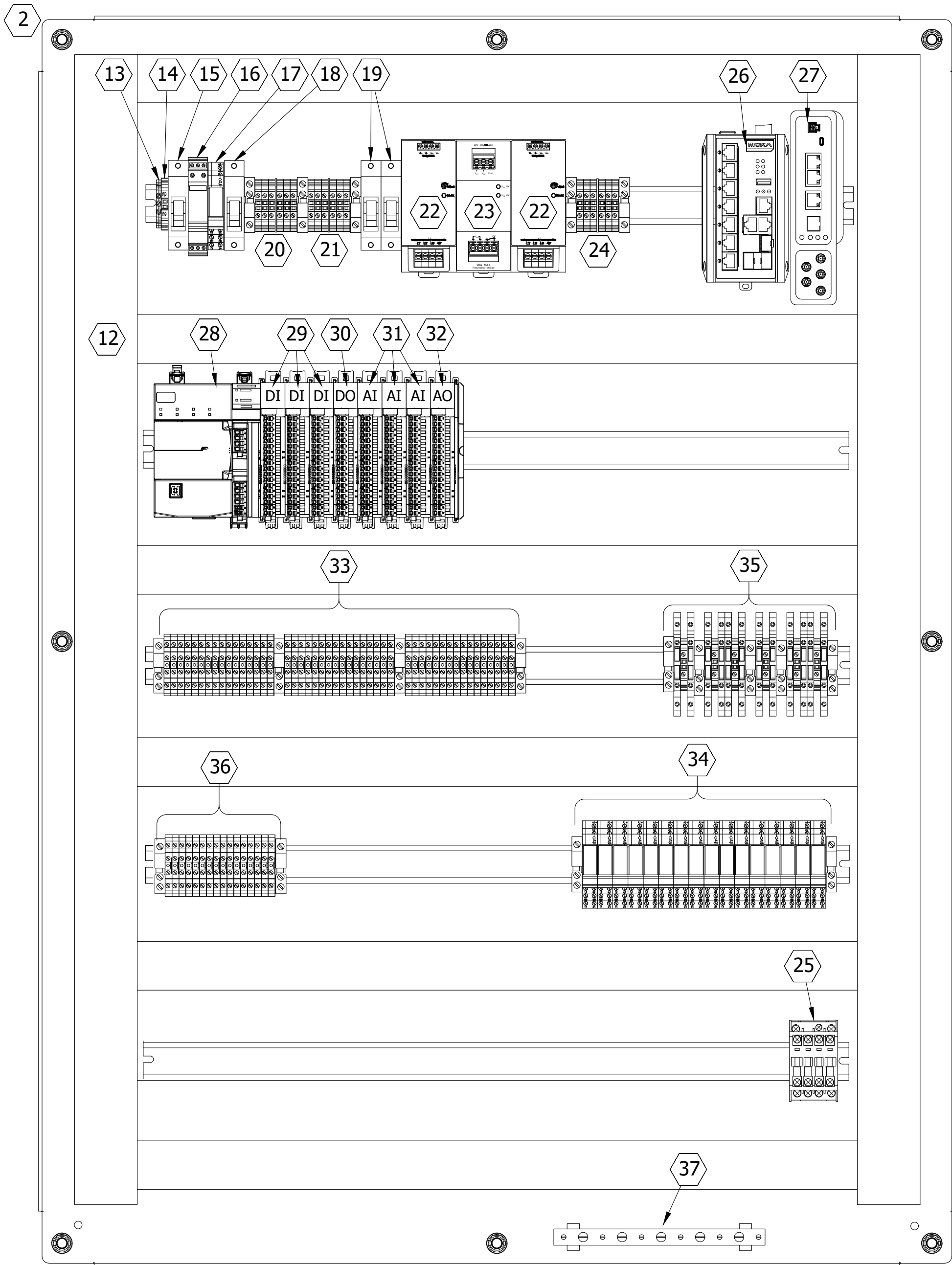
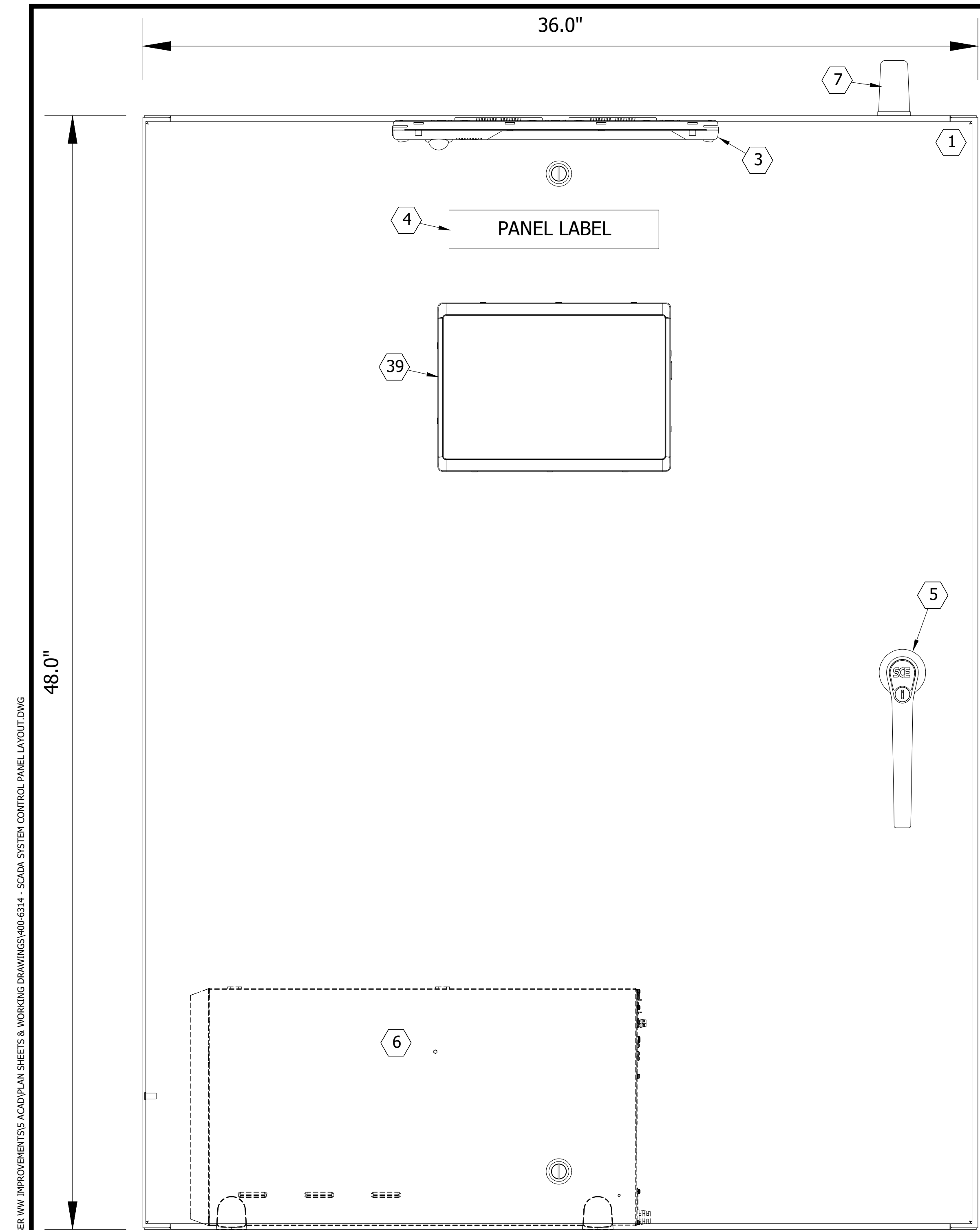
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SCADA SYSTEM PLC SIGNAL IO LIST

I101B

PRINT DATE: 8/27/26
PLOT SCALE: 1:1

PROJECT: SWEETSER WASTE WATER IMPROVEMENTS
DRAWING FILE: P:\400-6314 SWEETSER VW IMPROVEMENTS\SCADA\PLAN SHEETS & WORKING DRAWINGS\400-6314 - SCADA SYSTEM CONTROL PANEL LAYOUT.DWG



CONTROL PANEL KEYED NOTES:

- | | | | |
|--|--|---|---|
| 1. NEW STAINLESS STEEL NEMA12 ENCLOSURE - 48"X36"X12" MINIMUM. SIMILAR TO SCE-48EL3612LPPL. | 12. HIGH DENSITY GRAY WIRE DUCT - AS NEEDED AND SIZED PER WIRING REQUIREMENTS. | 24. 24VDC POWER DISTRIBUTION BLOCKS. | 33. DIGITAL INPUT FIELD TERMINATION BLOCKS. |
| 2. NEW INTERIOR EQUIPMENT PANEL 48"X36". SIMILAR TO SCE-48P36. | 13. FIELD POWER GROUND TERMINAL BLOCK. | 25. UPS FAIL-OVER CONTACTOR/RELAY. 20A CONTACT RATING MINIMUM. | 34. DIGITAL OUTPUT ISOLATION RELAYS. |
| 3. ENCLOSURE LED LIGHTING WITH AUTOMATIC DOOR SWITCH ACTIVATION. | 14. FIELD POWER NEUTRAL TERMINAL BLOCK. | 26. INDUSTRIAL RATED MANAGED ETHERNET SWITCH - 7 PORT MINIMUM WITH FIBER OPTIC PORTS. MOXA EDS510E SERIES OR EQUAL. | 35. ANALOG INPUT ISOLATOR/TERMINAL BLOCKS. |
| 4. PHENOLIC TAG, ENGRAVED. BLACK LETTERS ON WHITE/OFF-WHITE SURFACE. SELF-ADHESIVE. TYPICAL. | 15. FIELD POWER 120V 20A CIRCUIT BREAKER. | 27. 4G LTE CELLULAR MODEM. SIMILAR TO APRISA 4RF LTE. | 36. MISCELLANEOUS FIELD TERMINAL BLOCKS - AS NEEDED. |
| 5. LOCKABLE 3-POINT LATCH HANDLE. | 16. 120V MAIN POWER SURGE PROTECTION DEVICE. | 28. ALLEN BRADLEY COMPACTLOGIX COMPACTLOGIX 5069-L306ER. | 37. EARTH GROUND BLOCK. |
| 6. TRIPP LITE SMART, DUAL CONVERSION UPS SU1500XL OR APPROVED EQUAL. | 17. 120V CONTROL POWER LOSS RELAY. | 29. ALLEN BRADLEY COMPACTLOGIX 16 POINT DIGITAL INPUT MODULE 5069-IB16. | 38. NOT USED. |
| 7. CELL MODEM ROBUST OUTDOOR STYLE ANTENNA. | 18. UPS FEED POWER 120V 15A CIRCUIT BREAKER. | 30. ALLEN BRADLEY COMPACTLOGIX 16 POINT DIGITAL OUTPUT MODULE 5069-OB16. | 39. PANELVIEW PLUS 7 12" HMI. MAIN OFFICE NEW SCADA COMPUTER SHALL BE CONNECTED WITH A REMOTE LICENSE TO ACCESS AND DISPLAY HMI GRAPHICS AND HAVE INTERACTION RIGHTS. |
| 8. NOT USED. | 19. 24 VDC POWER SUPPLY #1 PROTECTION CIRCUIT BREAKERS (120V SIDE). | 31. NEW ALLEN BRADLEY COMPACTLOGIX 8 POINT ANALOG INPUT MODULE, 5069-IF8. | |
| 9. NOT USED. | 20. 120VAC POWER DISTRIBUTION TERMINAL BLOCKS. | 32. NEW ALLEN BRADLEY COMPACTLOGIX 4 POINT ANALOG INPUT MODULE, 5069-OF8. | |
| 10. NOT USED. | 21. UPS FED 120V DISTRIBUTION TERMINAL BLOCKS. | | |
| 11. NOT USED. | 22. 24 VDC POWER SUPPLIES - MINIMUM 5A. | | |
| | 23. 24VDC POWER 5A SUPPLY REDUNDANCY MODULE. | | |

ALL PANEL LAYOUTS AND WIRING DIAGRAMS ARE SHOWN AS A REPRESENTATION FOR MINIMUM REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE SYSTEMS INTEGRATOR OR CONTRACTORS RESPONSIBILITY FOR FINAL DESIGN AND FULLY FUNCTIONAL SYSTEM.



SWEETSER WASTE WATER IMPROVEMENTS

SWEETSER, INDIANA, 46987

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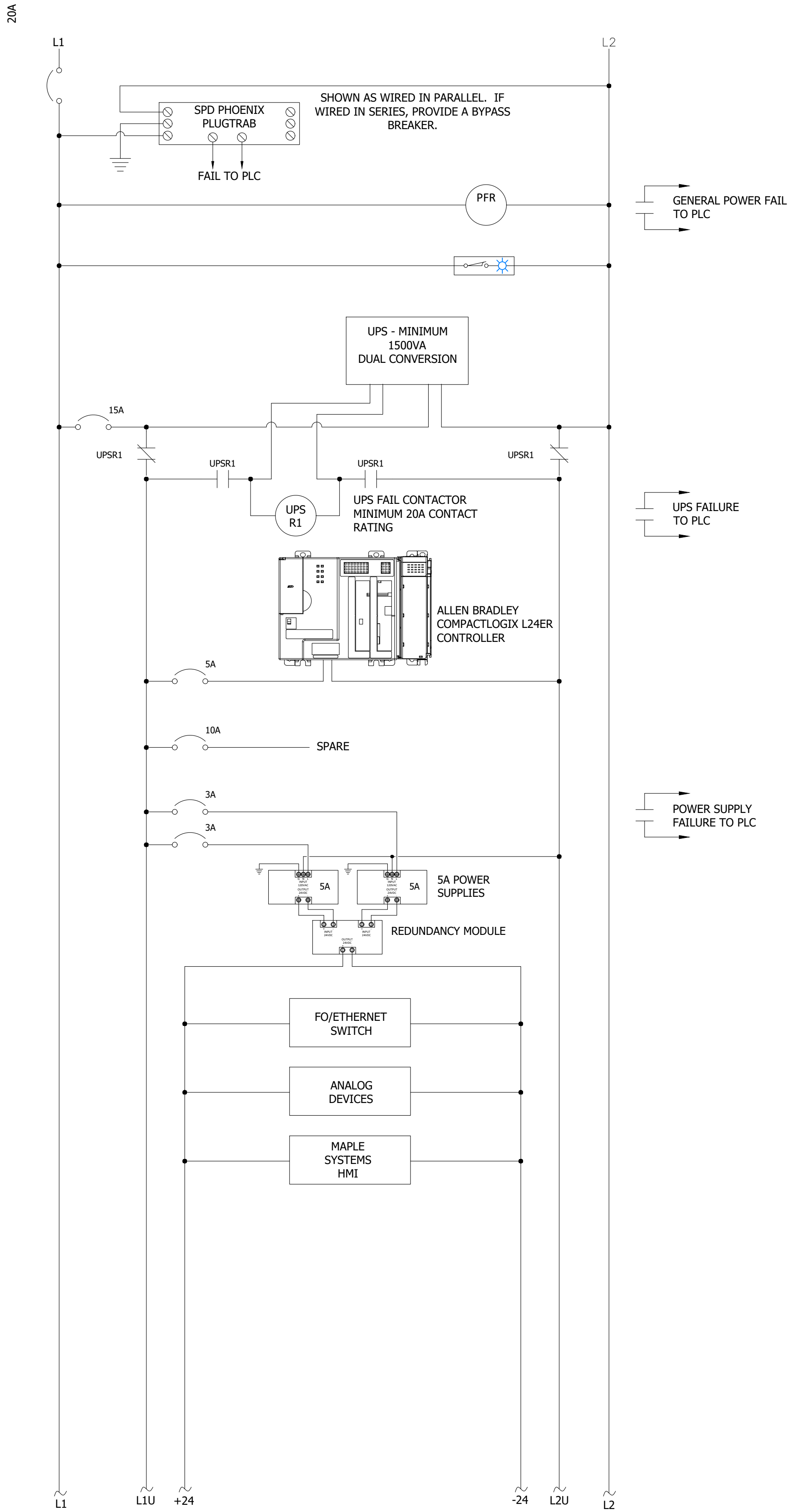


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SCADA SYSTEM PLC
CONTROL PANEL LAYOUT
DETAILS

I102A

PRINT DATE: 8/27/26
PLOT SCALE: 1:1
DRAWING FILE: P:\400-6314 SWEETSER WM IMPROVEMENTS\5 ACAD\PLAN SHEETS & WORKING DRAWINGS\400-6314 - SCADA SYSTEM CONTROL PANEL WIRING DIAGRAM 1.DWG



POWER DISTRIBUTION WIRING DIAGRAM

ALL PANEL LAYOUTS AND WIRING DIAGRAMS ARE SHOWN AS A REPRESENTATION FOR MINIMUM REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE SYSTEMS INTEGRATOR OR CONTRACTORS RESPONSIBILITY FOR FINAL DESIGN AND FULLY FUNCTIONAL SYSTEM.



SWEETSER WASTE WATER IMPROVEMENTS

SWEETSER, INDIANA, 46987

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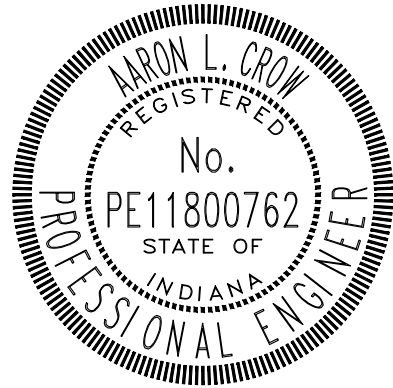
Project #: 400-6314

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SCADA SYSTEM PLC
CONTROL PANEL WIRING
DIAGRAM 1

I102B



RAS/WAS SWING OUT PANEL



RAS/WAS EQUIPMENT PANEL



TRIPLEX BLOWER CONTROL PANEL EQUIPMENT PANEL

CONTROL PANEL KEYED NOTES:

1. EXISTING RAS/WAS PUMP CONTROL PANEL. RELOCATE THIS INTO THE ELECTRICAL ROOM. CONNECT TO NEW MSCP PLC WITH ETHERNET CABLE.
2. CONNECT LOCAL HMI TO THE 2080-LC20 VIA RS232/RS485. UTILIZED ETHERNET PORT TO CONNECT TO MSCP VIA ETHERNET I/P PROTOCOL.
3. NOT USED.
4. NOT USED.
5. MINIMUM 4-PORT UNMANAGED INDUSTRIAL GRADE FIBER/ETHERNET SWITCH. PROVIDE PATCH CABLES TO CONNECT EACH DRIVE.
6. PROVIDE NEW 3A CIRCUIT BREAKER FOR 24VDC POWER SUPPLY.
7. PROVIDE 24VDC, 3A POWER SUPPLY.
8. PROVIDE 3P CIRCUIT BREAKER FOR 3 PHASE MONITOR.
9. PROVIDE 3P POWER MONITOR.

ALL PANEL LAYOUTS AND WIRING DIAGRAMS ARE SHOWN AS A REPRESENTATION FOR MINIMUM REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE SYSTEMS INTEGRATOR OR CONTRACTORS RESPONSIBILITY FOR FINAL DESIGN AND FULLY FUNCTIONAL SYSTEM.

SWEETSER WASTE WATER
IMPROVEMENTS

SWEETSER, INDIANA, 46987

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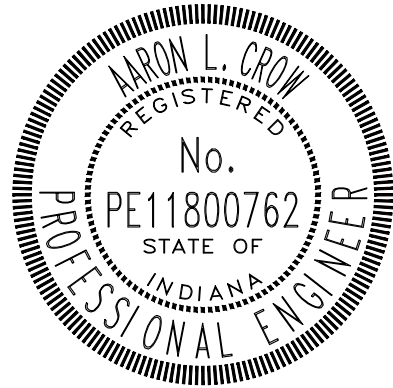
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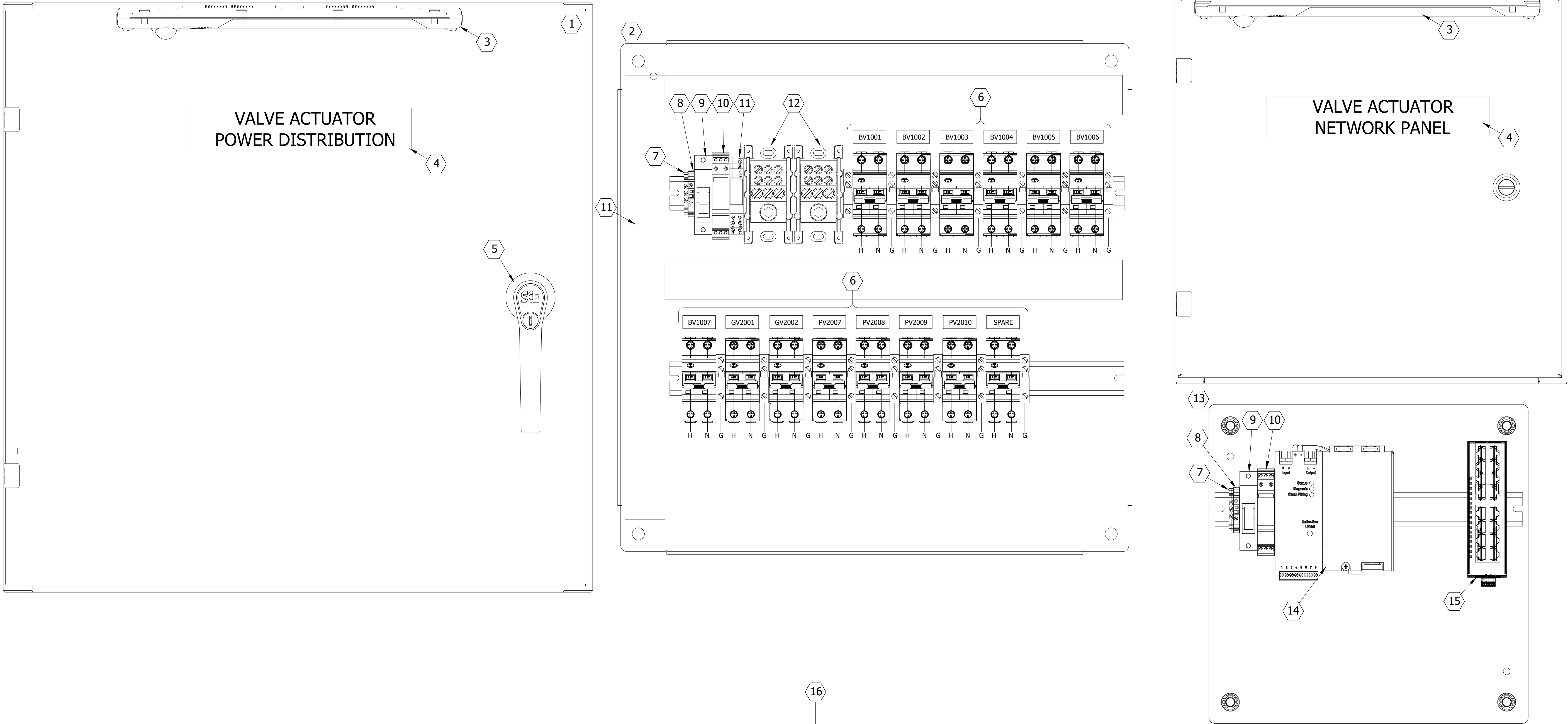


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EXISTING CONTROL
PANEL MODIFICATIONS

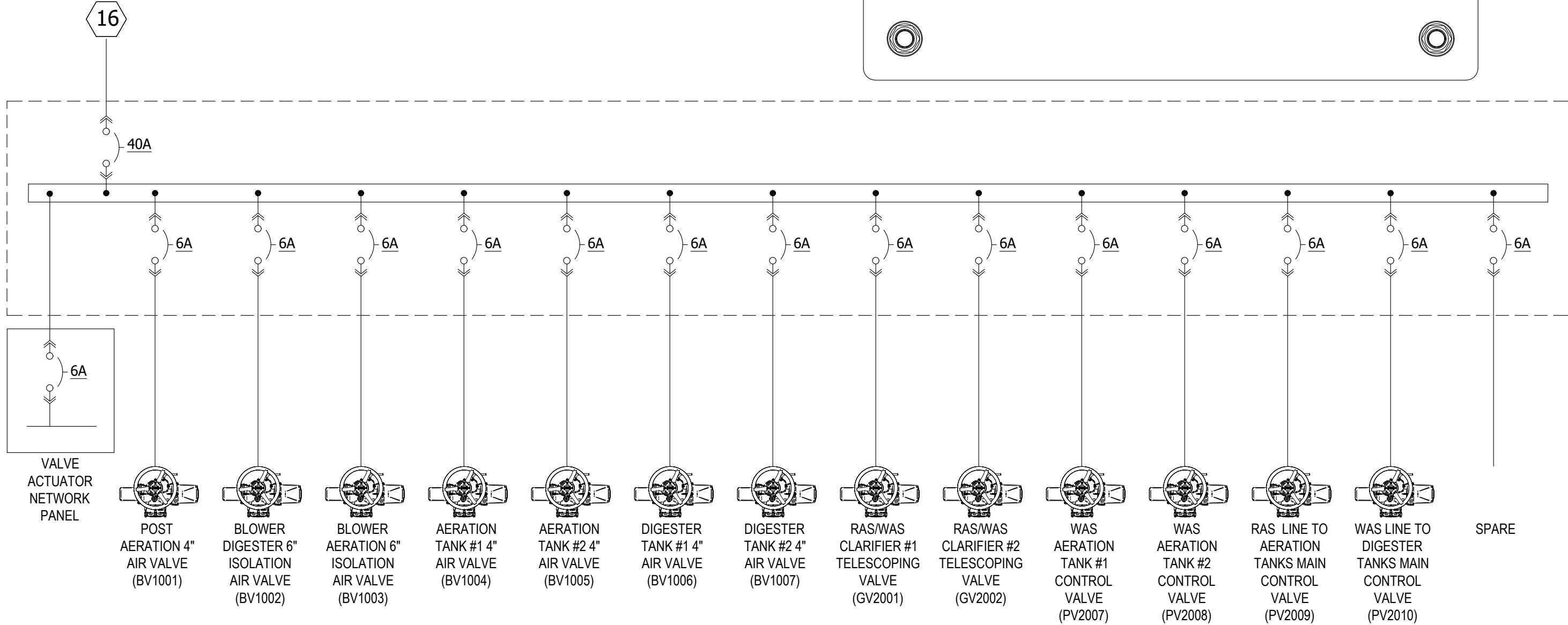
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ALL PANEL LAYOUTS AND WIRING DIAGRAMS ARE SHOWN AS A REPRESENTATION FOR MINIMUM REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE SYSTEMS INTEGRATOR OR CONTRACTOR FOR FINAL DESIGN AND FULLY FUNCTIONAL SYSTEM.



CONTROL PANEL KEYED NOTES:

1. NEW STAINLESS STEEL NEMA4X ENCLOSURE - 24"X24"X8" MINIMUM. SIMILAR TO SCE-24EL2408SSLPL.
2. NEW INTERIOR EQUIPMENT PANEL 24"X24". SIMILAR TO SCE-24P24.
3. ENCLOSURE LED LIGHTING WITH AUTOMATIC DOOR SWITCH ACTIVATION.
4. PHENOLIC TAG, ENGRAVED. BLACK LETTERS ON WHITE/OFF-WHITE SURFACE. SELF-ADHESIVE.
5. LOCKABLE 3-POINT LATCH HANDLE.
6. ACTUATOR POWER DISTRIBUTION 1P+N CIRCUIT BREAKERS. SIMILAR TO ABB DS201 6A.
7. MAIN 120V, 1PH POWER GROUND TERMINAL BLOCK.
8. MAIN 120V, 1PH POWER NEUTRAL TERMINAL BLOCK.
9. MAIN 120V, 1PH POWER DISTRIBUTION BLOCKS. 1P TO 9P SHOWN.
10. MAIN 120V, 1PH POWER DISTRIBUTION BLOCKS. 1P TO 9P SHOWN.
11. HIGH DENSITY GRAY WIRE DUCT - AS NEEDED AND SIZED PER WIRING REQUIREMENTS. TYPICAL.
12. NEW STAINLESS STEEL NEMA4X ENCLOSURE - 16" X 16" X 8" MINIMUM. SIMILAR TO SCE-16EL1608SSLP.
13. NEW INTERIOR EQUIPMENT PANEL, 16" X 16". SIMILAR TO SCE-16P16.
14. 24VDC POWER SUPPLY WITH BATTERY BACKUP. SIMILAR TO PULS UBC10.241.
15. 16 PORT UNMANAGED ETHERNET SWITCH. SIMILAR TO PHOENIX 1085219.
16. 120V, 1PH FROM PANEL 'C'.



SWEETSER WASTE WATER IMPROVEMENTS

SWEETSER, INDIANA, 46987

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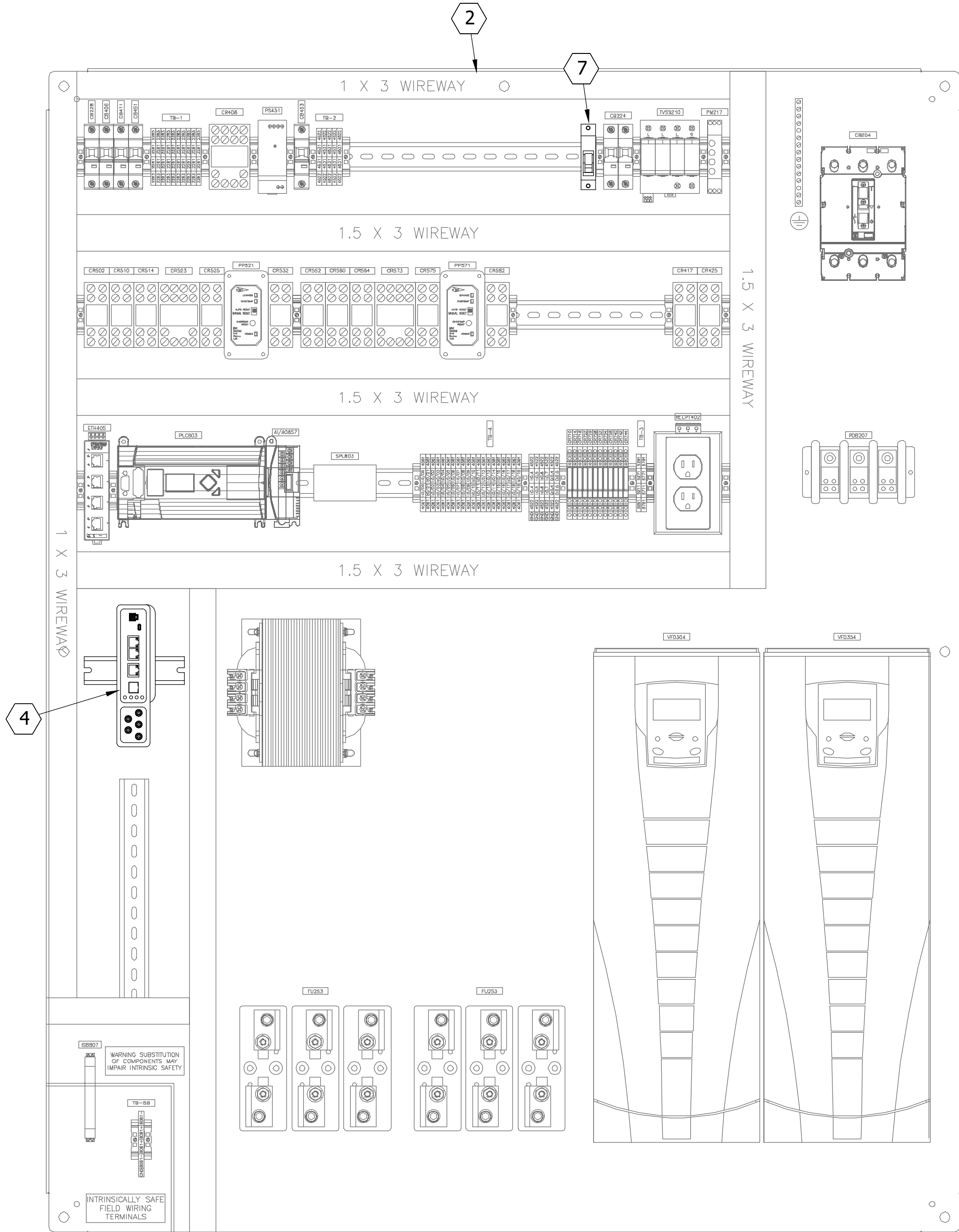
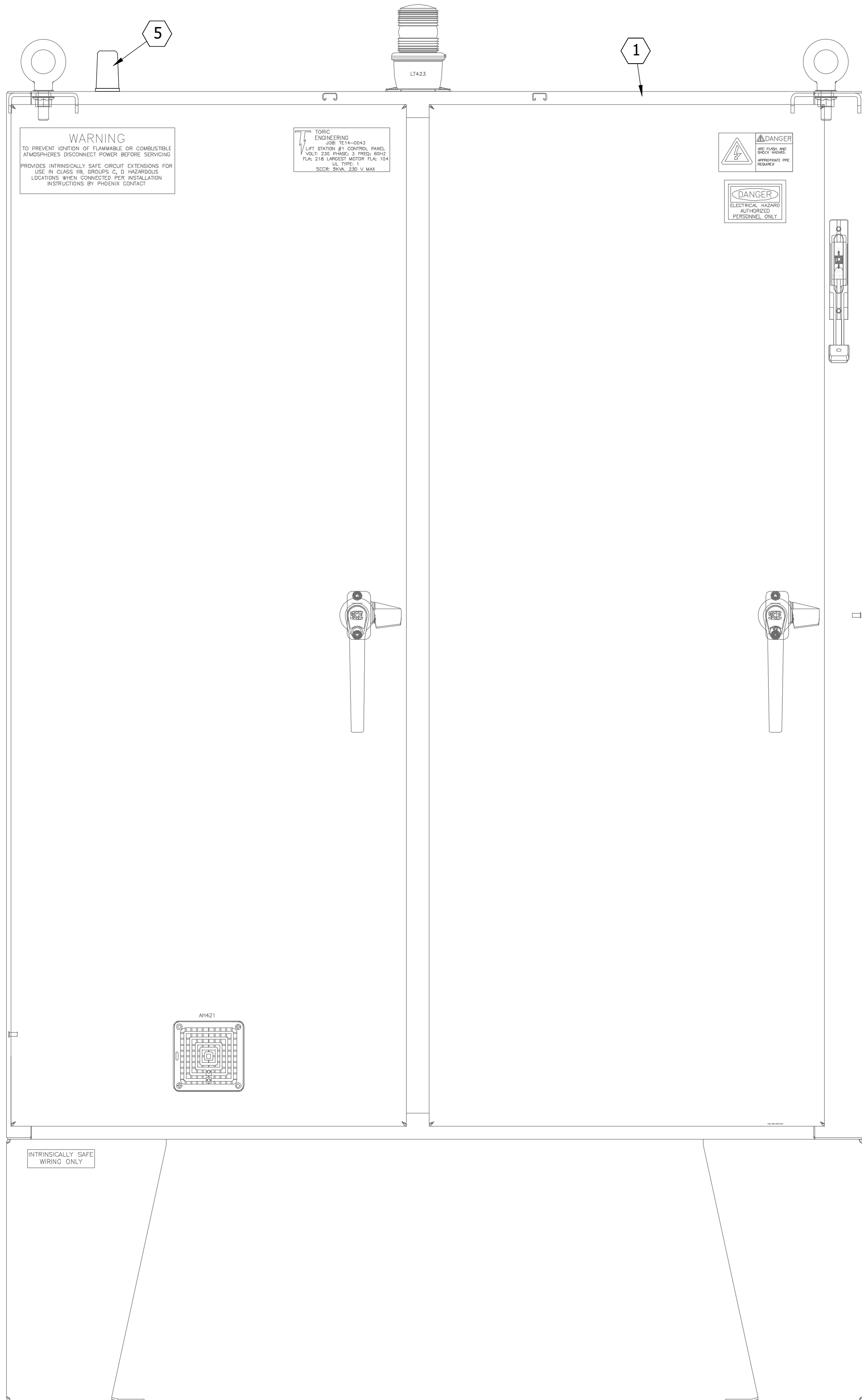


Aaron L. Crow

ELECTRIC ACTUATOR CONTROL PANEL LAYOUT DETAILS

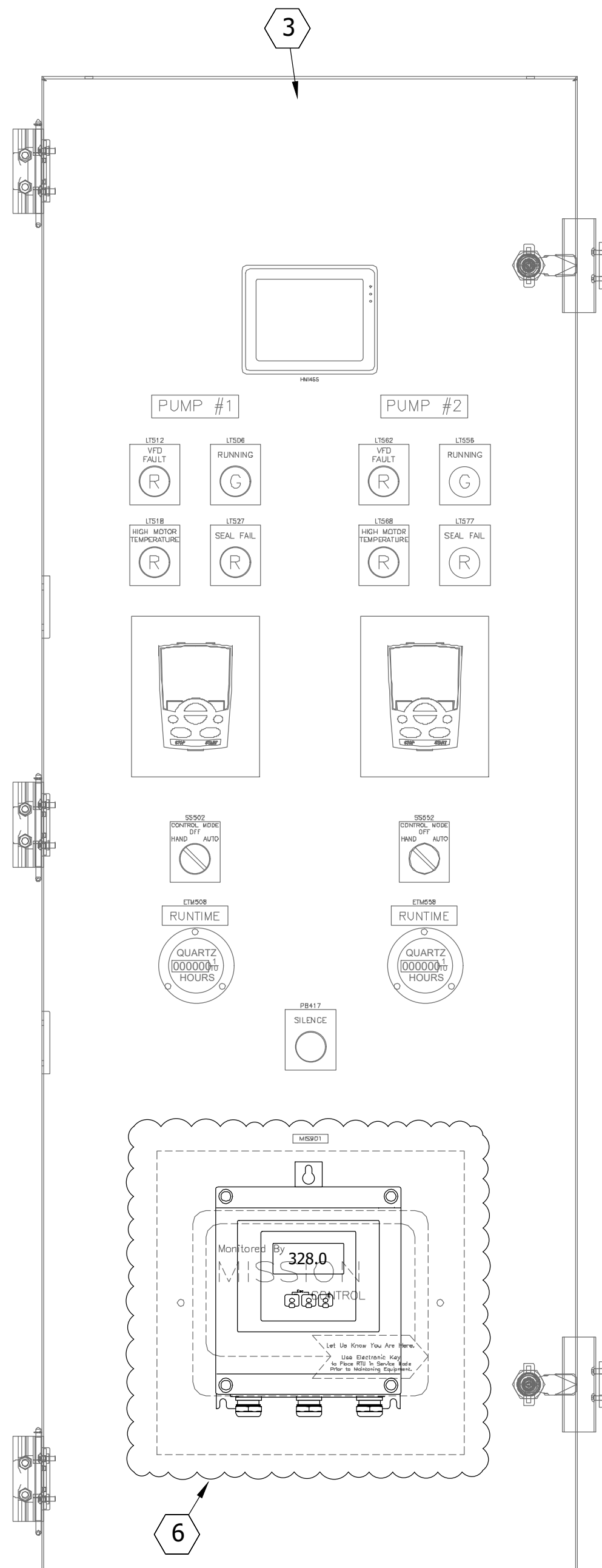
I104

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CONTROL PANEL KEYED NOTES:

- EXISTING LIFT STATION CONTROL PANEL ENCLOSURE. TO REMAIN AND BE MODIFIED.
- EXISTING EQUIPMENT PANEL. TO REMAIN AND BE MODIFIED.
- EXISTING SWING-OUT PANEL. TO REMAIN AS IS.
- PROVIDE NEW CELL MODEM FOR CONNECTIVITY BACK TO PLANT. SIMILAR TO APRISA 4RF LTE. PROVIDE WITH DIN RAIL MOUNT AND CABLES.
- PROVIDE NEW CELL MODEM ANTENNA.
- ONCE COMMUNICATIONS TO PLANT ARE FUNCTIONAL, REMOVE MISSIONS SYSTEM AND RETURN TO OWNER. REPLACE OPENING WITH COVER PLATE TO MATCH. INSTALL FLOW METER ELECTRONICS IN THIS SPOT (SUGGESTED).
- PROVIDE 15A, 1P CIRCUIT BREAKER FOR METER VAULT SUMP PUMP.



KELLY DRIVE LIFT STATION



SWEETSER WASTE WATER IMPROVEMENTS

SWEETSER, INDIANA, 46987

#	Revision	Date

Project #: 400-6314

Designed By: JAR

Drawn By: JAR

Checked By: ALC

Date: 08/14/2026

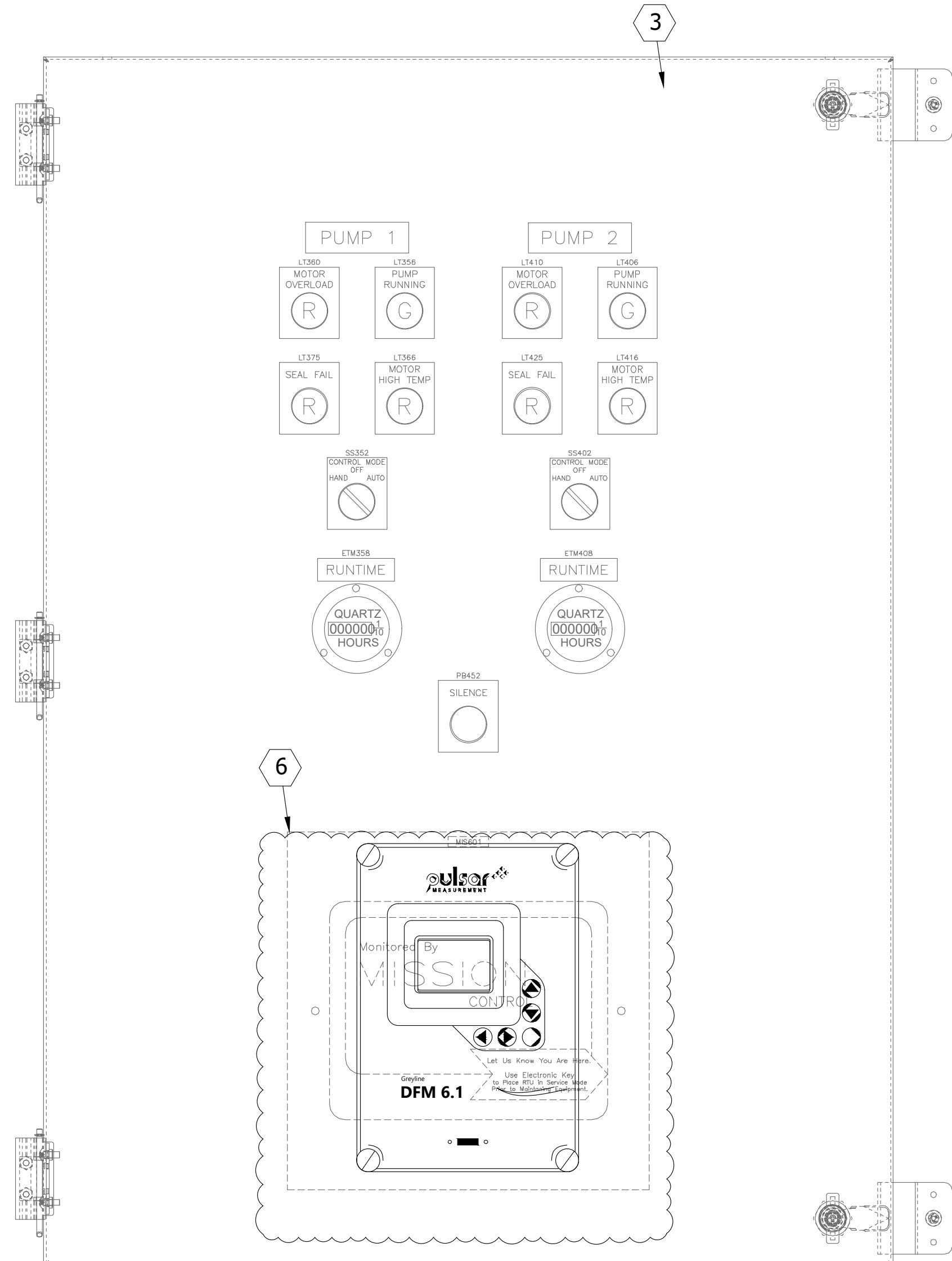
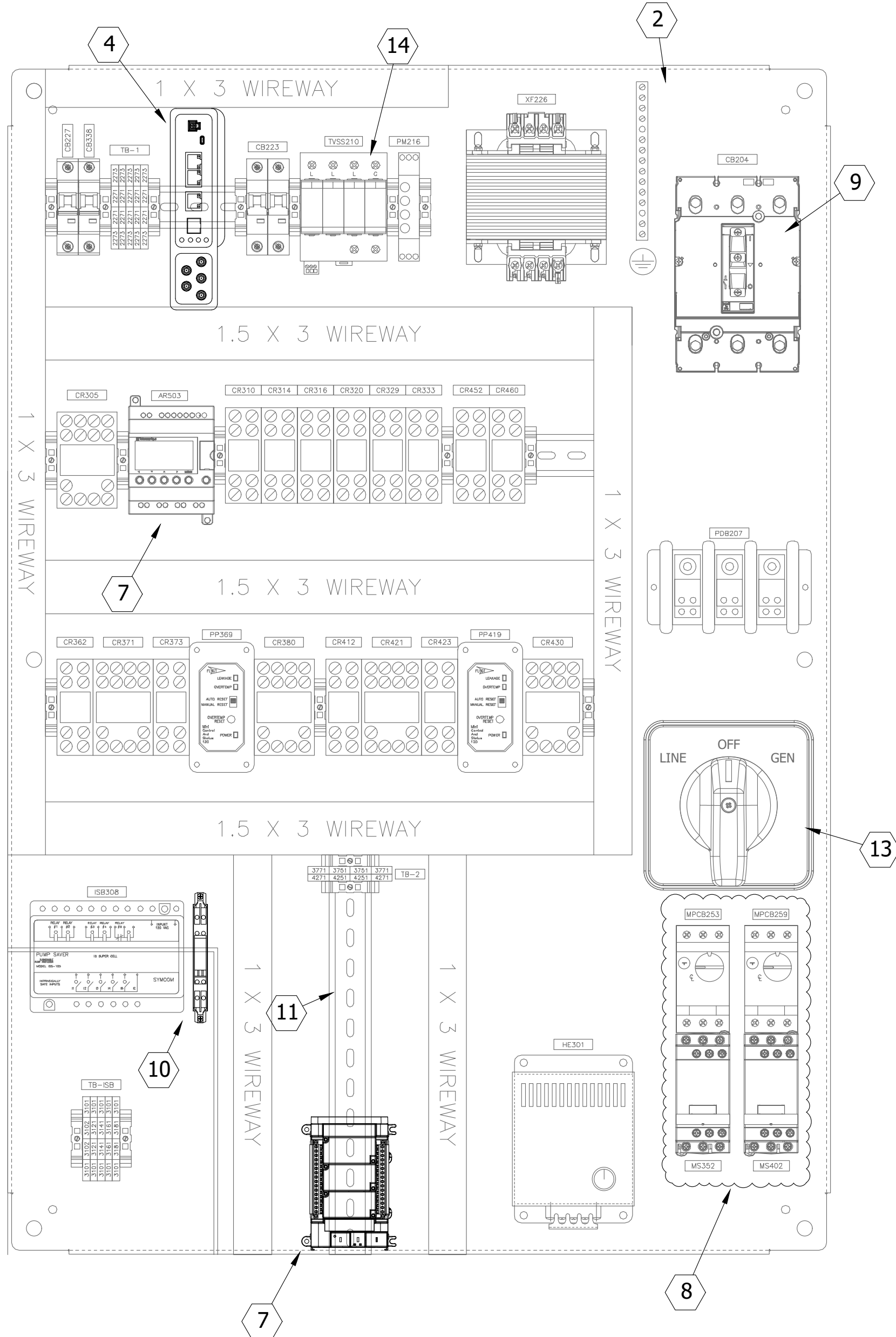
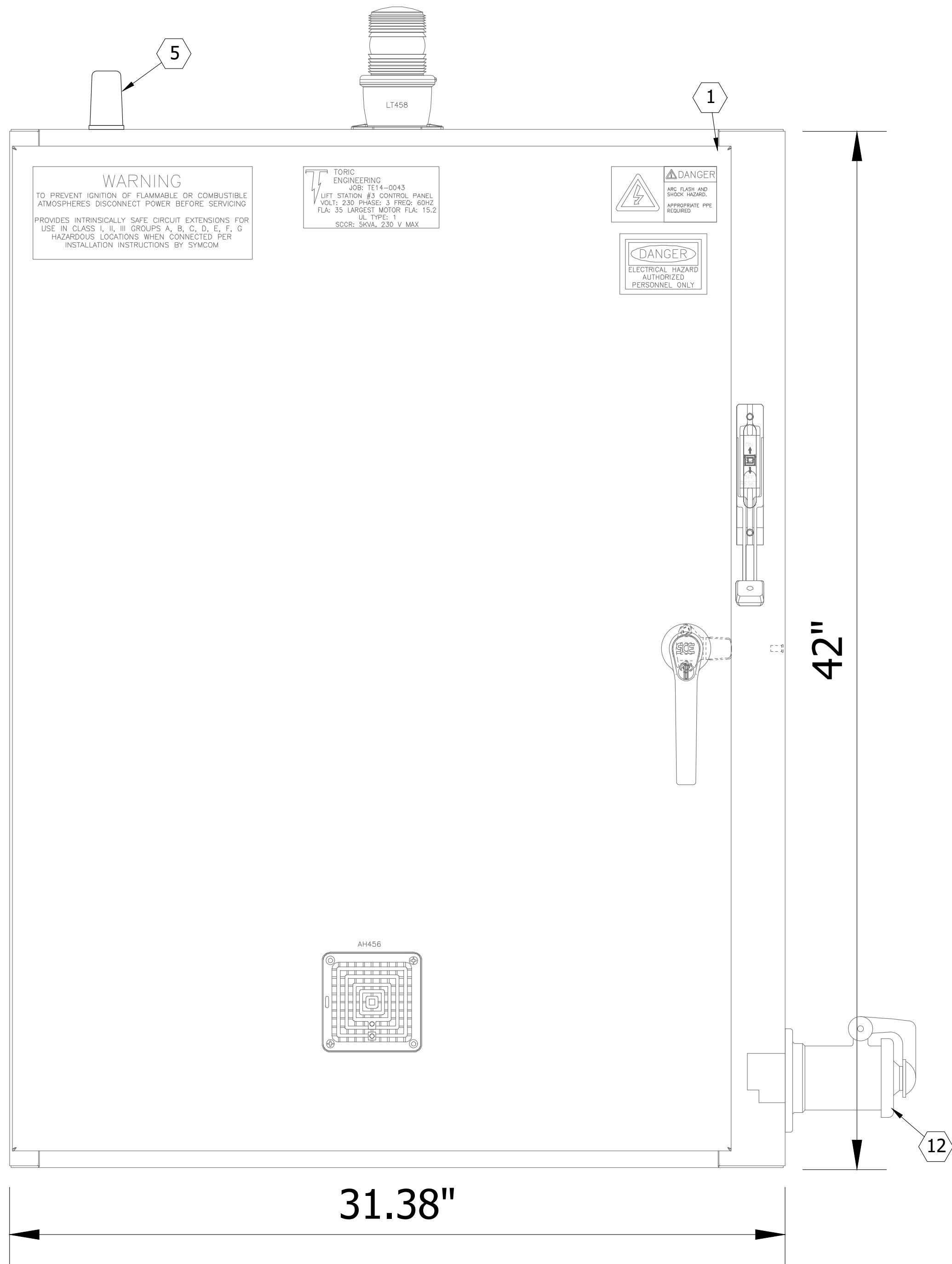


Aaron Crow

KELLY DRIVE LIFT STATION CONTROL PANEL UPGRADES

I105

PRINT DATE: 8/7/26
PLOT SCALE: 1:1
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CONTROL PANEL KEYED NOTES:

- EXISTING LIFT STATION CONTROL PANEL ENCLOSURE. TO BE RELOCATED AND MODIFIED.
- EXISTING EQUIPMENT PANEL. TO REMAIN AND BE MODIFIED.
- EXISTING SWING-OUT PANEL. TO REMAIN AS IS EXCEPT FOR NOTE 6.
- PROVIDE NEW CELL MODEM FOR CONNECTIVITY BACK TO PLANT. SIMILAR TO APRISA 4RF LTE. PROVIDE WITH DIN RAIL MOUNT AND CABLES.
- PROVIDE NEW CELL MODEM ANTENNA.
- MISSIONS PANEL TO BE REMOVED AND RETURNED TO OWNER. PROVIDE COVER PLATE FOR HOLE IN PANEL. PROVIDE FLOW RATE ELECTRONICS SIMILAR TO GREYLINE DFM 6.1.
- REPLACE EXISTING CONTROLLER WITH A MICROLOGIX 850 PLC. PROVIDE DUPLEX PUMP CONTROL AND MONITORING FOR THIS LIFT STATION.
- DISCONNECT WIRING AND ABANDON STARTER IN PLACE. WIRING FEEDING EACH STARTER TO BE REMOVED BACK TO DISTRIBUTION BLOCK.
- EXISTING 50A MAIN CIRCUIT BREAKER TO REMAIN. DISCONNECT INCOMING POWER FEED. POWER FEED TO BE RELOCATED INTO PROPOSED VFD CONTROL PANEL.
- ANALOG ISB FOR WET WELL LEVEL TRANSMITTER.
- ADDITIONAL TERMINAL BLOCKS.
- EXISTING MOBILE GENERATOR PLUG. RELOCATE TO PROPOSED VFD CONTROL PANEL. PROVIDE A SS COVER PLATE WITH GASKET.
- EXISTING ROTARY MANUAL TRANSFER SWITCH. RELOCATED INTO PROPOSED VFD CONTROL PANEL.
- RELOCATE EXISTING TVSS MODULE TO PROPOSED VFD CONTROL PANEL.

NOTES:

- BANK LIFT STATION MODIFICATIONS:
 - ADD AND REMOVE COMPONENTS AS SHOWN - ADDITIONAL MODIFICATIONS MAY BE REQUIRED WITH THE EXCEPTION OF WIRING FROM MAIN CB TO DIST. BLOCK, EXISTING PANEL WIRING SHOULD BE OF SUFFICIENT SIZE PER AS-BUILDS. CONTRACTOR TO CONFIRM.

MICRO850 INPUT/OUTPUT:

DIGITAL INPUTS:

- 120V POWER LOSS.
- 240V PHASE LOSS.
- PUMP #1 RUN STATUS.
- PUMP #1 FAIL STATUS.
- PUMP #1 SEAL FAIL.
- PUMP #1 OVERTEMP.
- PUMP #2 RUN STATUS.
- PUMP #2 FAIL STATUS.
- PUMP #2 SEAL FAIL.
- PUMP #2 OVERTEMP.
- HIGH LEVEL.
- LOW LEVEL.
- SPARE
- SPARE

ANALOG INPUTS:

- WET WELL LEVEL.
- STATION EFFLUENT FLOW.
- P1 VFD SPEED FEEDBACK.
- P2 VFD SPEED FEEDBACK.

ANALOG OUTPUTS:

- P1 VFD SPEED SETPOINT.
- P2 VFD SPEED SETPOINT.

DIGITAL OUTPUTS:

- LEAD PUMP START COMMAND.
- LAG PUMP START COMMAND.
- ALARM BEACON.
- SPARE
- SPARE
- SPARE
- SPARE
- SPARE
- SPARE
- SPARE



SWEETSER WASTE WATER IMPROVEMENTS

SWEETSER, INDIANA, 46987

#	Revision	Date

Project #: 400-6314

Designed By: JAR

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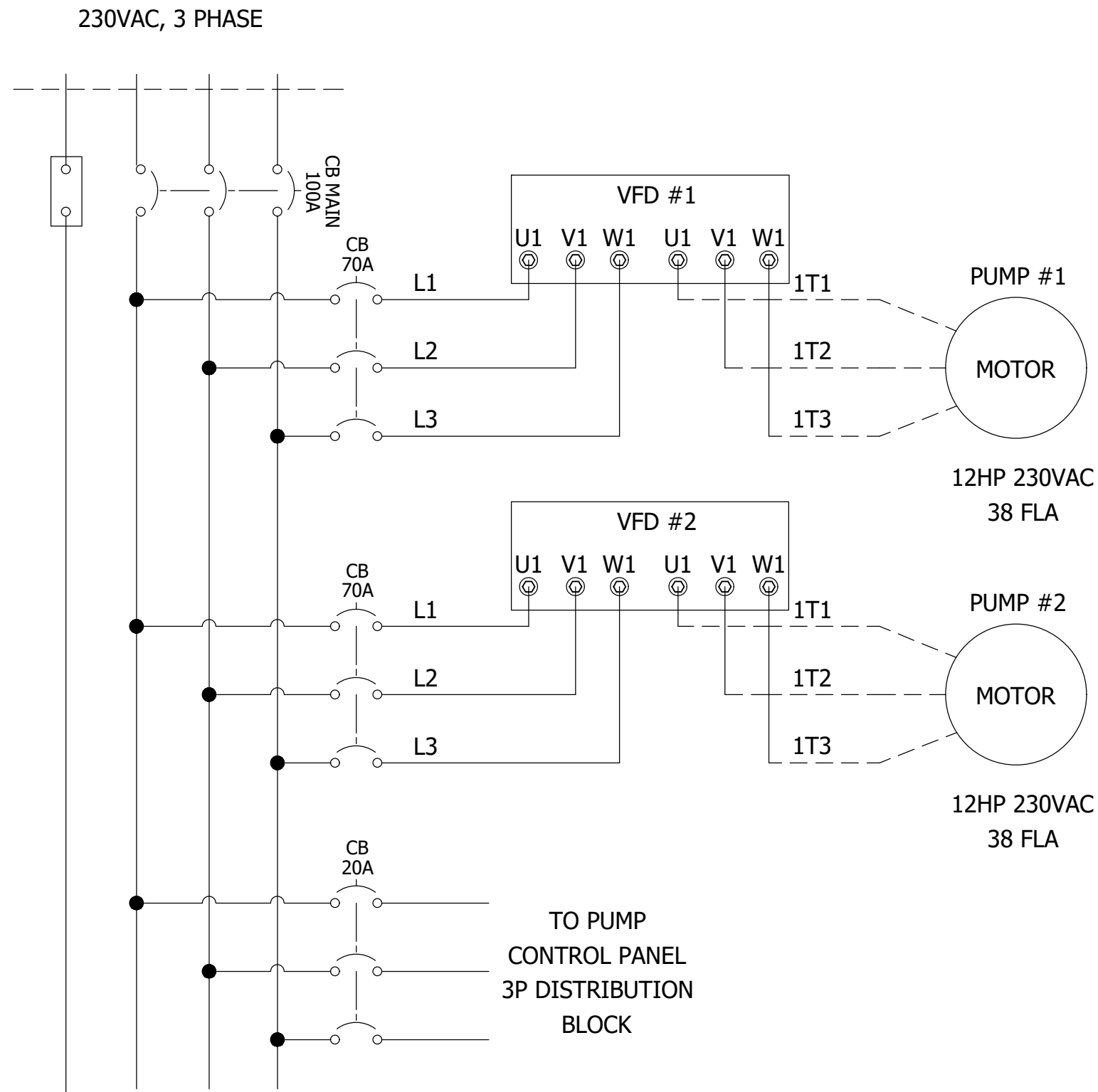
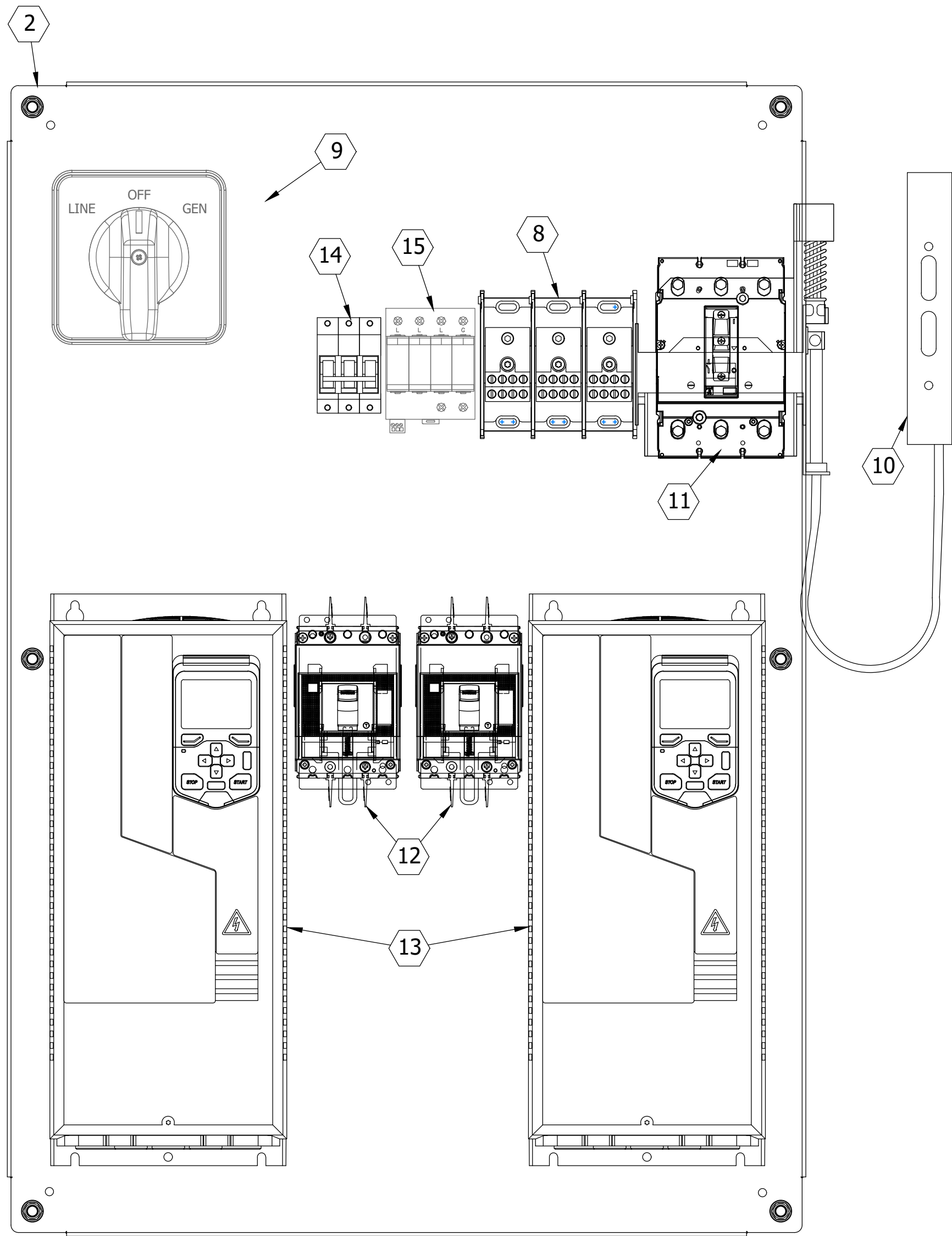
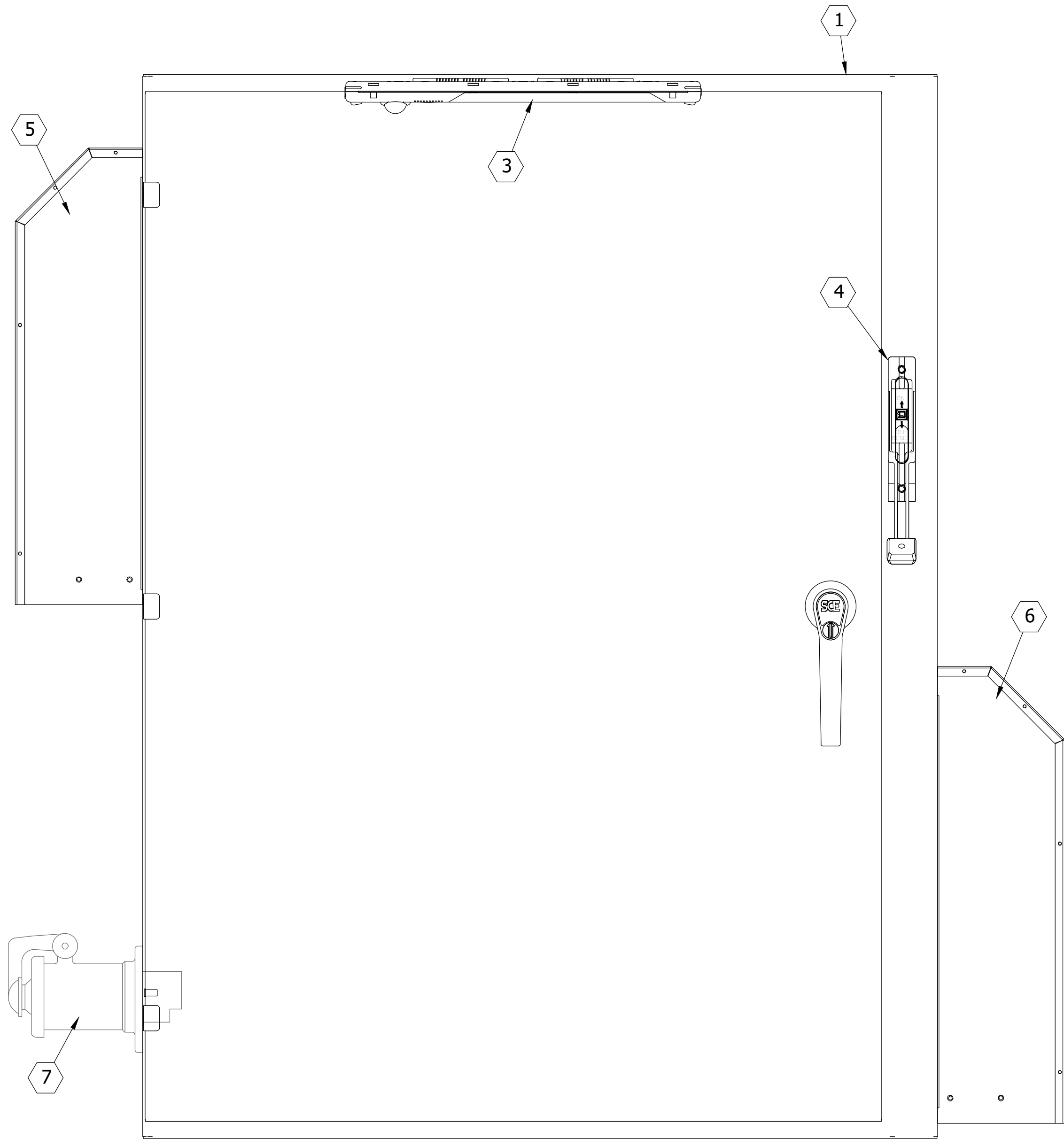


Aaron Crow

**BANK LIFT STATION
CONTROL PANEL
UPGRADES**

I106A

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PLOT SCALE: 1:186.91
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DRAWING FILE: P:\400-6314 SWEETSER WW IMPROVEMENTS\5 ACAD\PLAN SHEETS & WORKING DRAWINGS\400-6314 - LS2 VFD PANEL DETAILS.DWG
EDITED BY: JREED



CONTROL PANEL KEYED NOTES:

- 42" X 31" X 12" STAINLESS STEEL DISCONNECT ENCLOSURE. SIMILAR TO SCE-42XEL3112SSLP.
- EQUIPMENT PANEL. SIMILAR TO SCE-42P30.
- LED INTERIOR ENCLOSURE LIGHT.
- SS LOCKABLE DISCONNECT HANDLE.
- NEMA4X EXHAUST FAN AND SHROUD. SIMILAR TO KOOLTRONICS GUARDIAN SERIES.
- NEMA4X INTAKE FILTER/SHROUD. SIMILAR TO KOOLTRONICS GUARDIAN SERIES.
- EXISTING MOBILE GENERATOR PLUG RELOCATED FROM EXISTING PUMP CONTROL PANEL.
- MAIN POWER DISTRIBUTION BLOCK.
- EXISTING MANUAL TRANSFER ROTARY SWITCH, RELOCATED FROM EXISTING PUMP CONTROL PANEL.
- MAIN POWER CIRCUIT BREAKER CABLE DISCONNECT MECHANISM.
- MAIN POWER CIRCUIT BREAKER.
- VFD RATED MOTOR PROTECTION CIRCUIT BREAKERS, SIMILAR TO ABB XT2N SERIES.
- MOTOR VFD UNITS. SIMILAR TO ABB ACQ580-01-046A-2.
- 3P FEED CIRCUIT BREAKER FOR PUMP CONTROL PANEL.
- EXISTING 3PH TVSS MODULE, RELOCATED FROM PUMP CONTROL PANEL.



SWEETSER WASTE WATER IMPROVEMENTS

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Designed By: JAR

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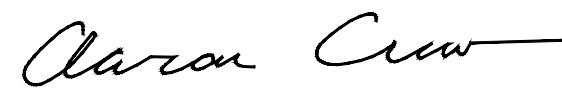
Aaron Crow

BANK LIFT STATION VFD CONTROL PANEL

I106B

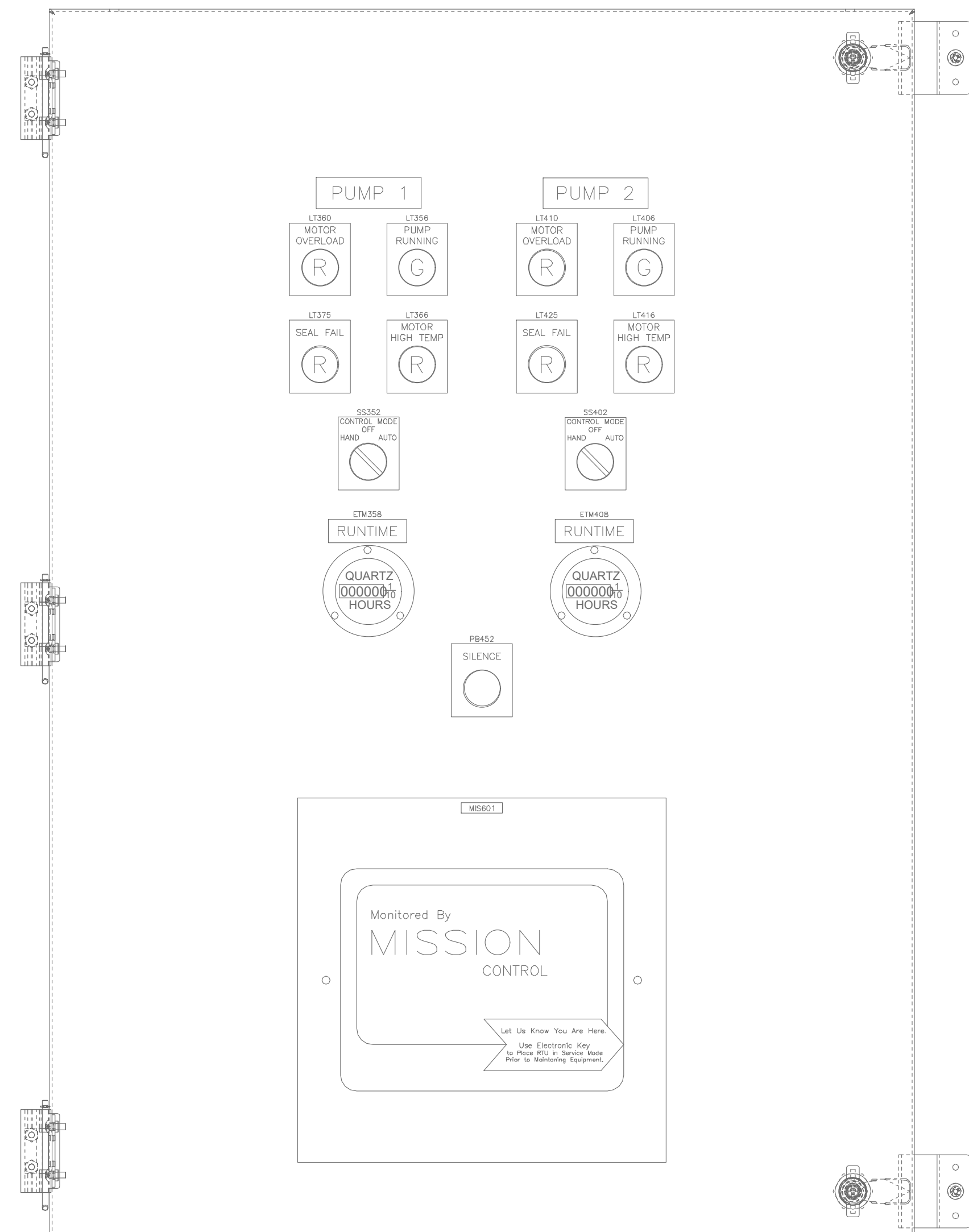
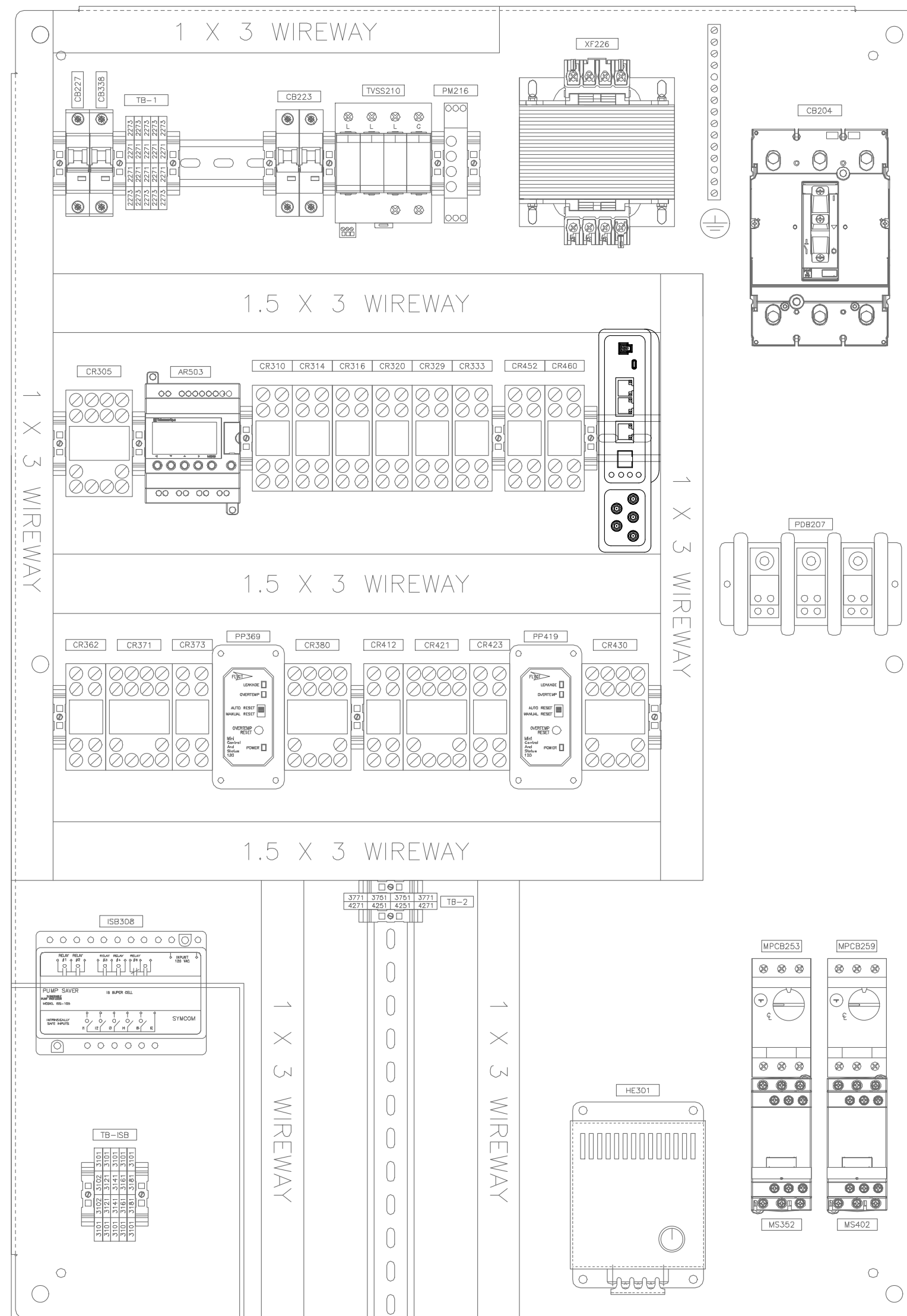
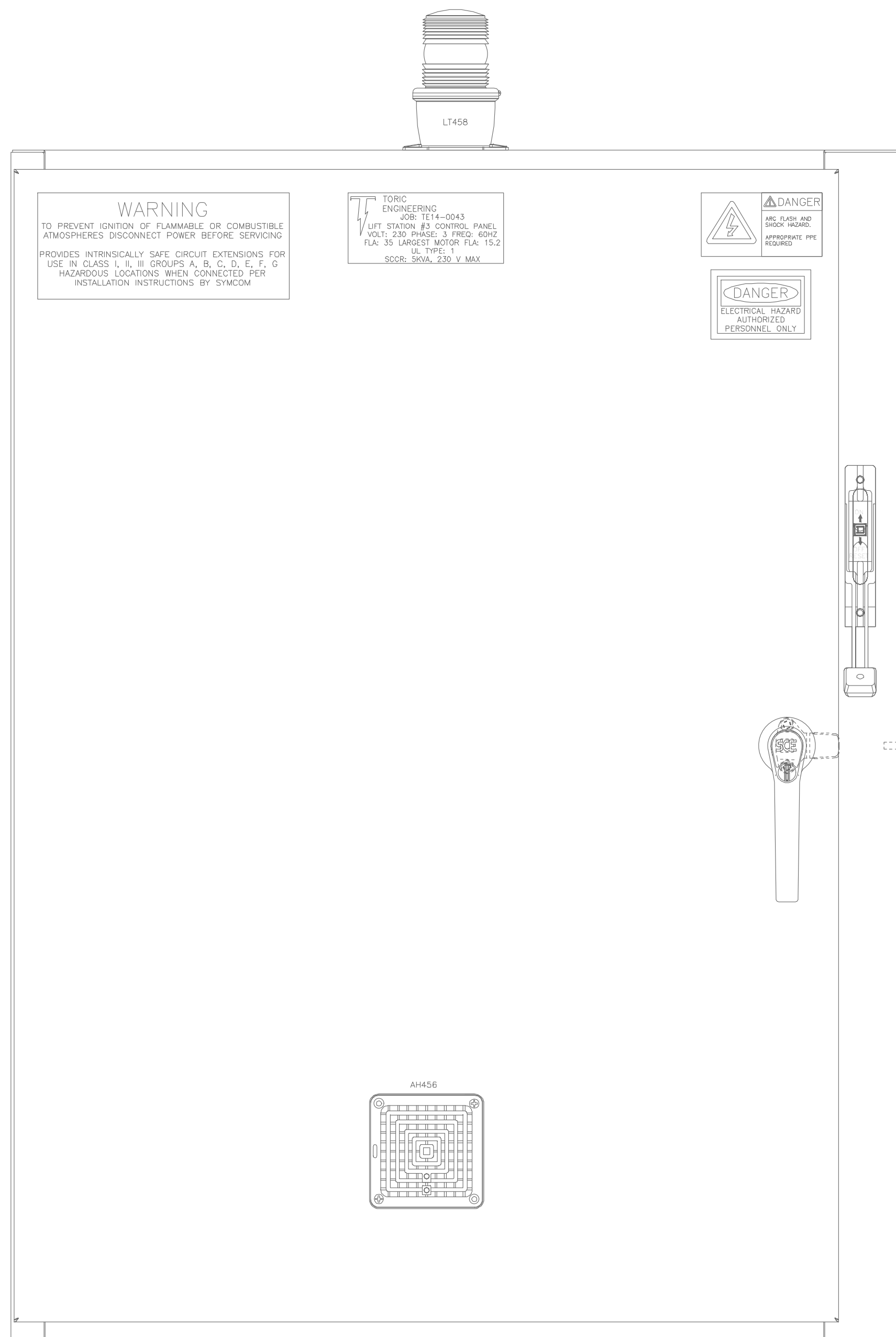
SWEETSER WASTE WATER IMPROVEMENTS

Project #:	400-6314
Designed By:	JAR
Drawn By:	JAR
Checked By:	ALC
Date:	08/14/2026



CASE LIFT STATION CONTROL PANEL UPGRADES

I107

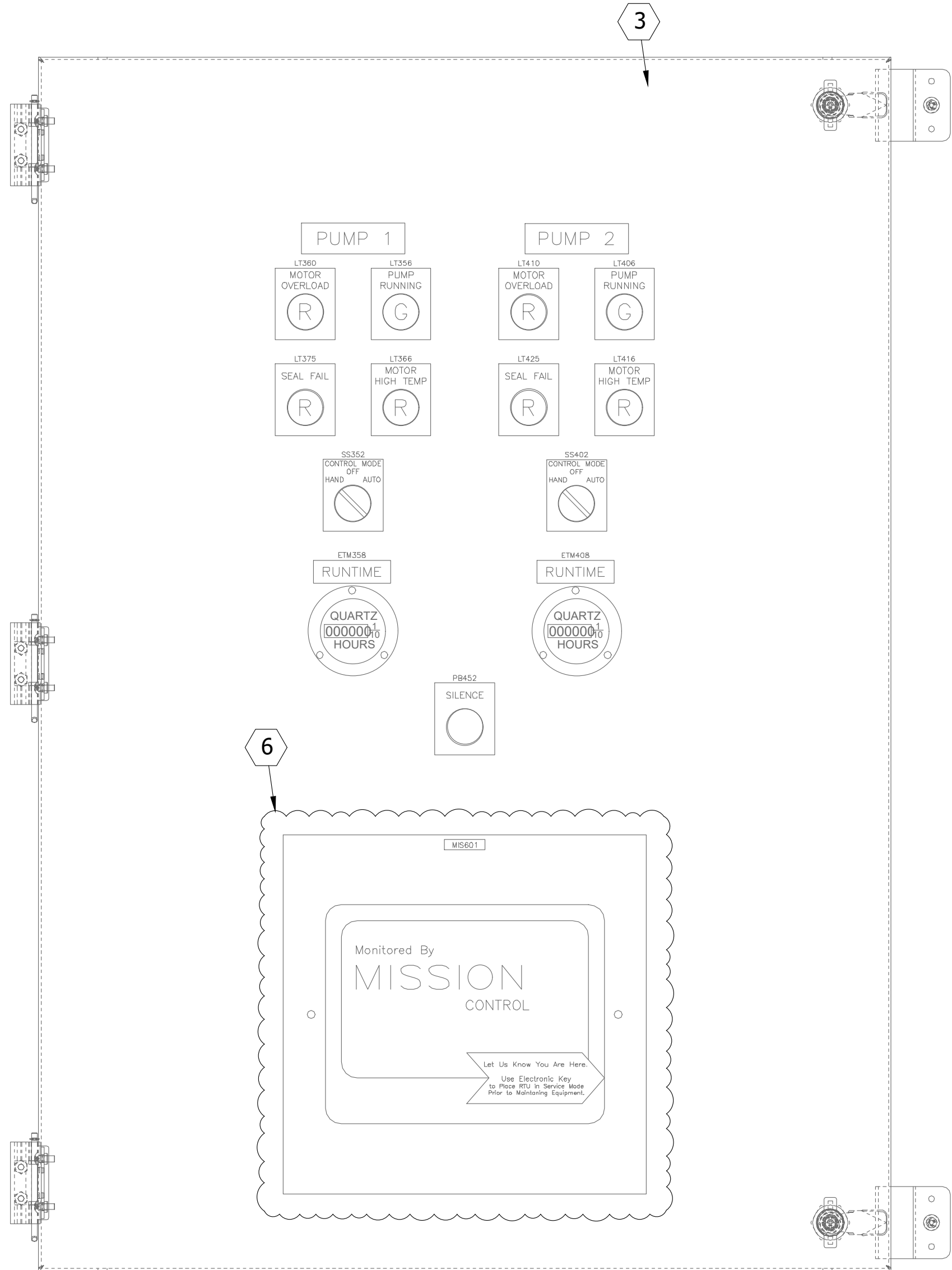
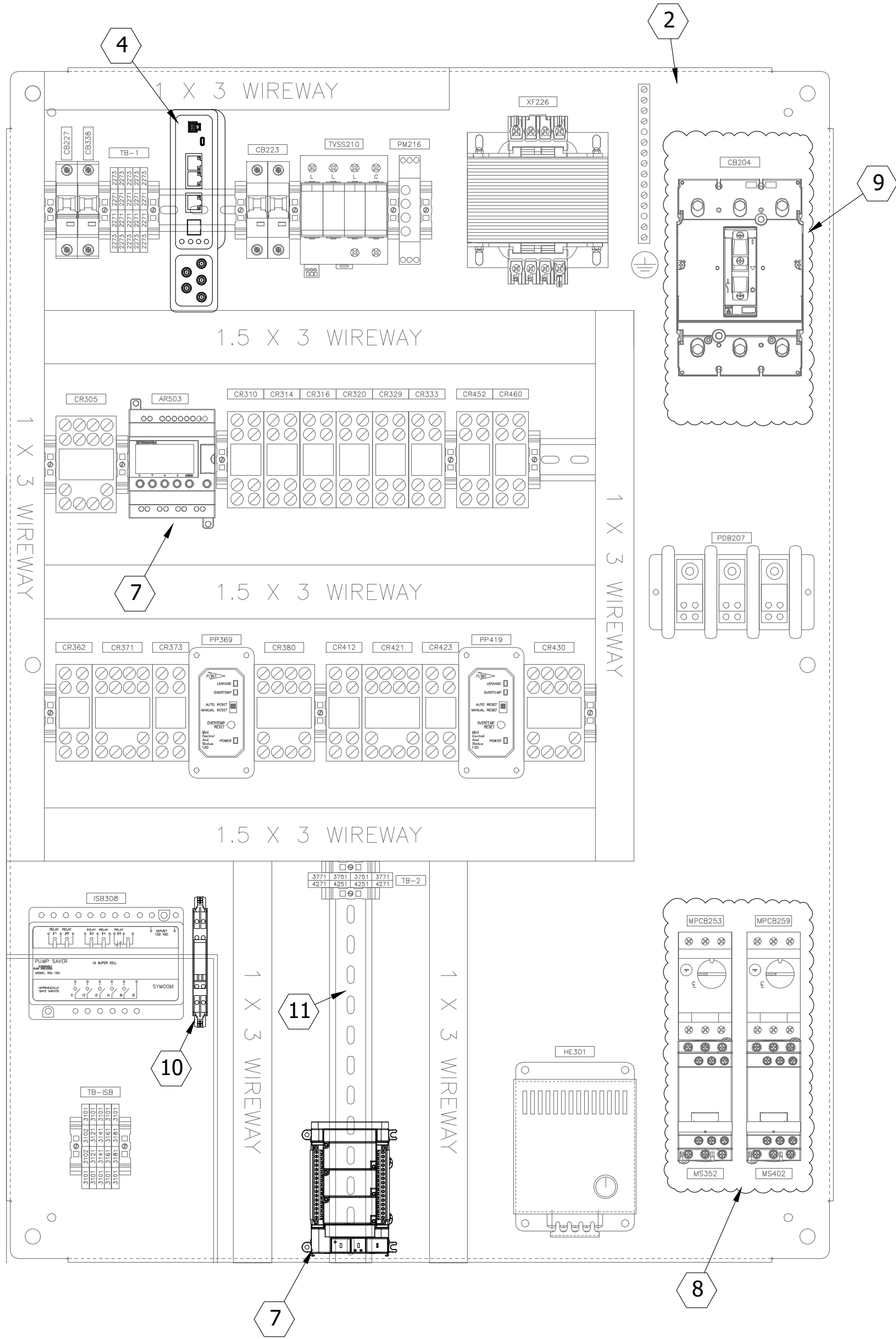
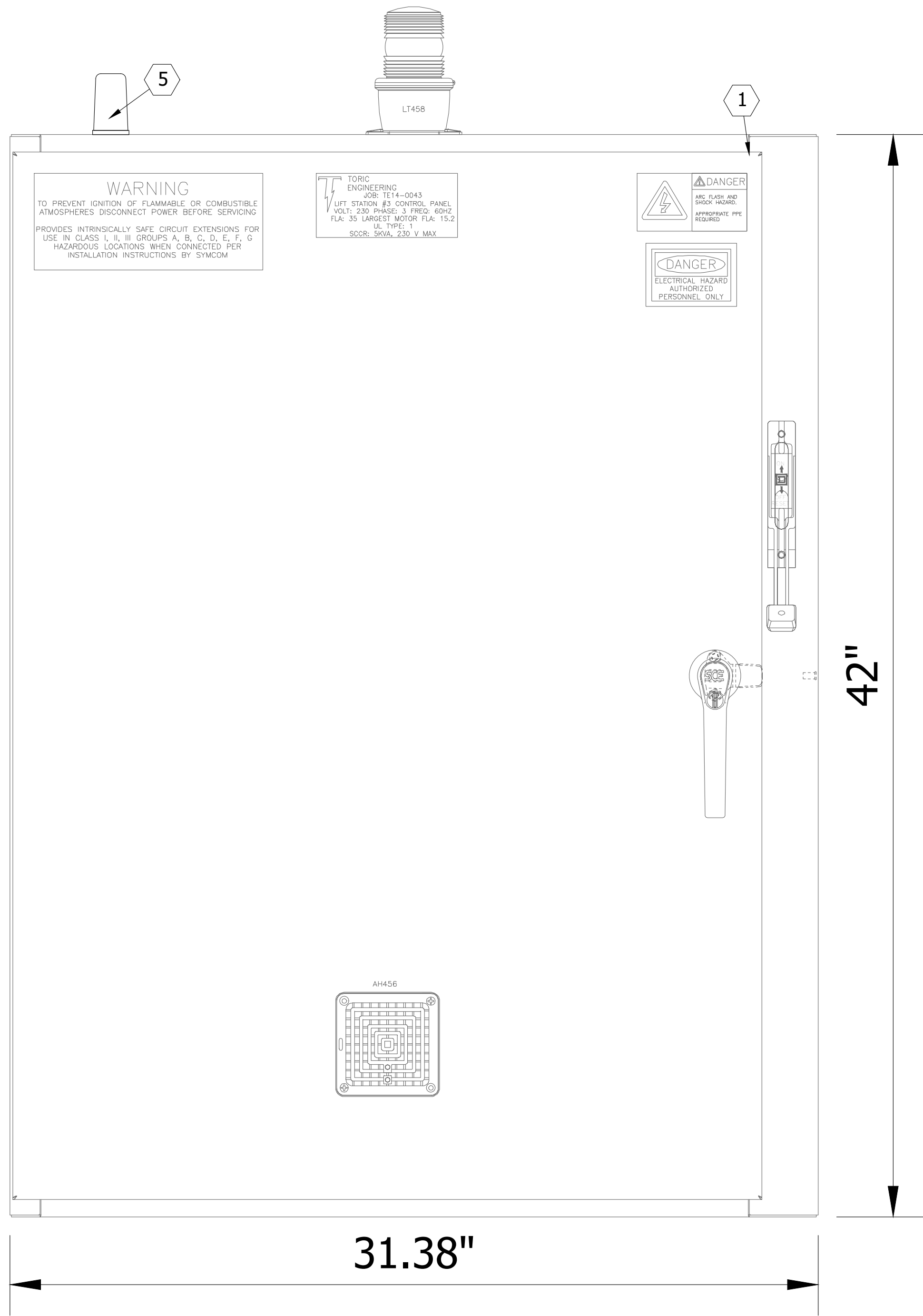


CONTROL PANEL KEYED NOTES:

1. EXISTING CONTROL PANEL TO BE RELOCATED TO SHORT STREET LIFT STATION LOCATION.
2. CONTRACTOR TO DISCONNECT ALL EXTERNAL POWER AND CONDUIT FROM ENCLOSURE UPON APPROVAL FROM CITY FOR SHUTDOWN.
3. INSURE NO LOSE COMPONENTS INSIDE THE ENCLOSURE ARE TRANSPORTED LOOSE INSIDE THE ENCLOSURE. REMOVE AND HANDLE AS SEPARATE COMPONENTS TO NEW LOCATION.

CASE LIFT STATION

*TO BE DECOMMISSIONED



MICRO850 INPUT/OUTPUT:	
DIGITAL INPUTS:	ANALOG INPUTS:
1. 120V POWER LOSS.	1. WET WELL LEVEL.
2. 240V PHASE LOSS.	
3. PUMP #1 RUN STATUS.	
4. PUMP #1 FAIL STATUS.	
5. PUMP #1 SEAL FAIL.	
6. PUMP #1 OVERTEMP.	
7. PUMP #2 RUN STATUS.	
8. PUMP #2 FAIL STATUS.	
9. PUMP #2 SEAL FAIL.	
10. PUMP #2 OVERTEMP.	
11. HIGH LEVEL.	
12. LOW LEVEL.	
13. SPARE	
14. SPARE	
DIGITAL OUTPUTS:	
1. LEAD PUMP START COMMAND.	
2. LAG PUMP START COMMAND.	
3. ALARM BEACON.	
4. SPARE	
5. SPARE	
6. SPARE	
7. SPARE	
8. SPARE	
9. SPARE	
10. SPARE	

CONTROL PANEL KEYED NOTES:
1. EXISTING LIFT STATION CONTROL PANEL ENCLOSURE. TO BE RELOCATED AND MODIFIED.
2. EXISTING EQUIPMENT PANEL. TO REMAIN AND BE MODIFIED.
3. EXISTING SWING-OUT PANEL. TO REMAIN AS IS.
4. PROVIDE NEW CELL MODEM FOR CONNECTIVITY BACK TO PLANT. SIMILAR TO APRISA 4RF LTE. PROVIDE WITH DIN RAIL MOUNT AND CABLES.
5. PROVIDE NEW CELL MODEM ANTENNA.
6. MISSIONS PANEL TO BE REMOVED AND RETURNED TO OWNER. PROVIDE COVER PLATE FOR HOLE IN PANEL.
7. REPLACE EXISTING CONTROLLER WITH A MICROLOGIX 850 PLC. PROVIDE DUPLEX PUMP CONTROL AND MONITORING FOR THIS LIFT STATION.
8. REPLACE THE EXISTING MOTOR PROTECTION CIRCUIT BREAKER GV2P14 WITH GV2P22. THE EXISTING MOTOR CONTACTOR IS RATED FOR 18A AND SHOULD NOT REQUIRE REPLACING.
9. UPGRADE EXISTING 30A MAIN CIRCUIT BREAKER TO 40A.
10. ANALOG ISB FOR WET WELL LEVEL TRANSMITTER.
11. ADDITIONAL TERMINAL BLOCKS.

- NOTES:
- SHORT STREET LIFT STATION MODIFICATIONS:
 - ADD AND REMOVE COMPONENTS AS SHOWN - ADDITIONAL MODIFICATIONS MAY BE REQUIRED WITH THE EXCEPTION OF WIRING FROM MAIN CB TO DIST. BLOCK, EXISTING PANEL WIRING SHOULD BE OF SUFFICIENT SIZE PER AS-BUILDS. CONTRACTOR TO CONFIRM.

*CONTROL PANEL TO BE RELOCATED FROM CASE LOCATION TO SHORT STREET LOCATION

#	Revision	Date

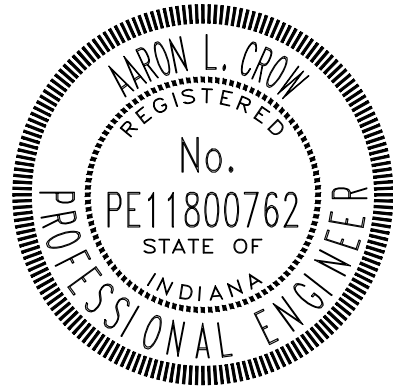
Project #: 400-6314

Designed By: JAR

Drawn By: JAR

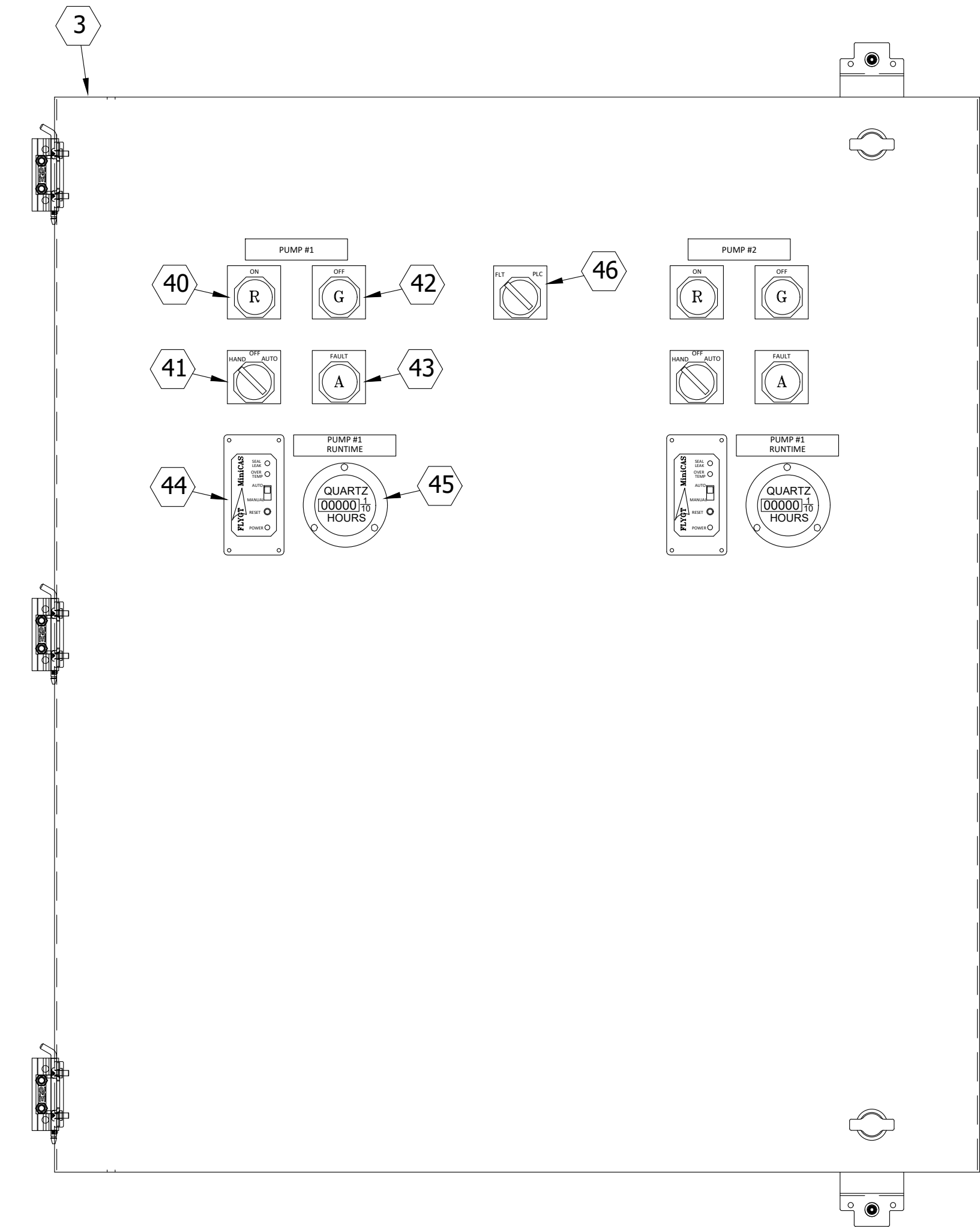
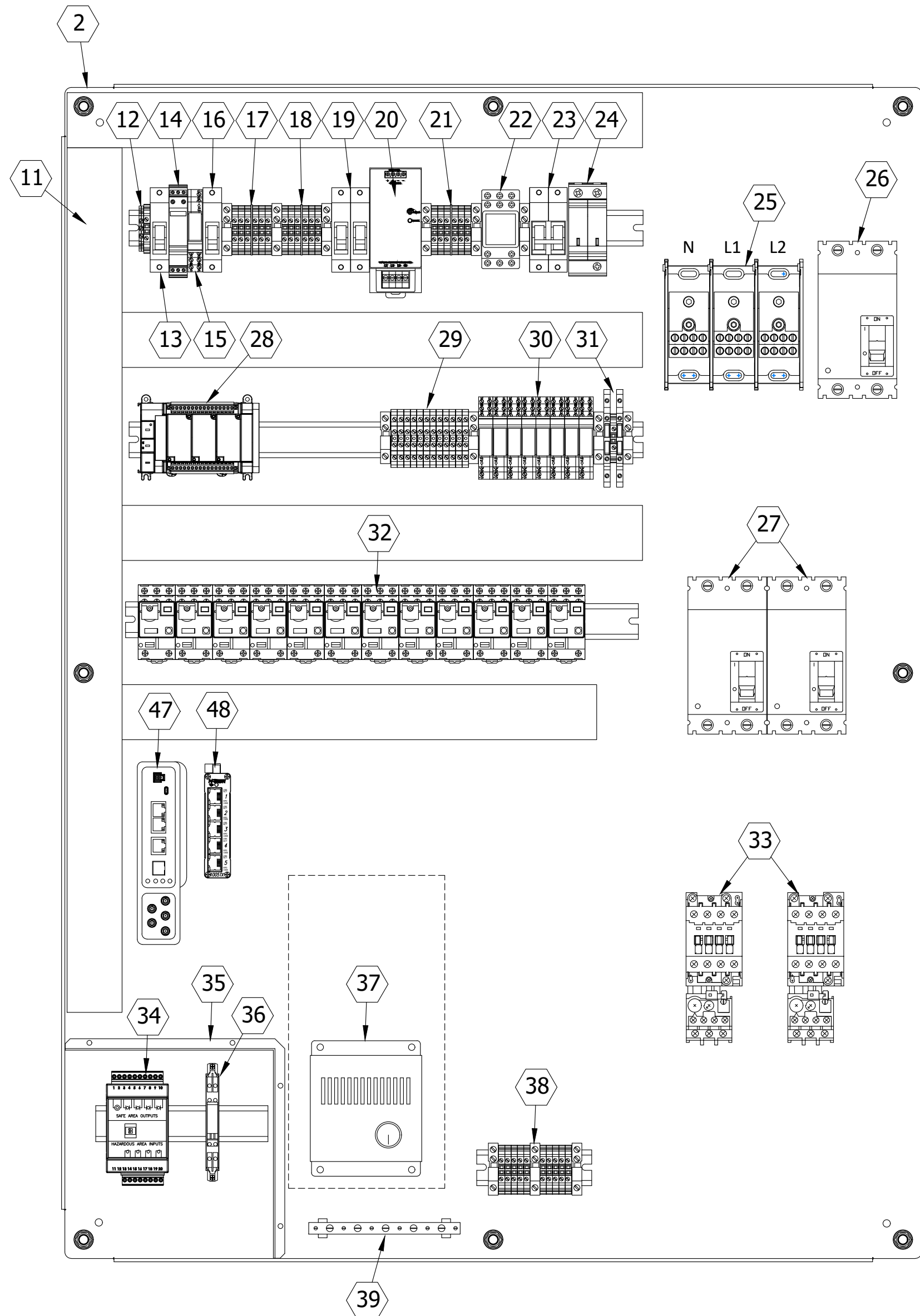
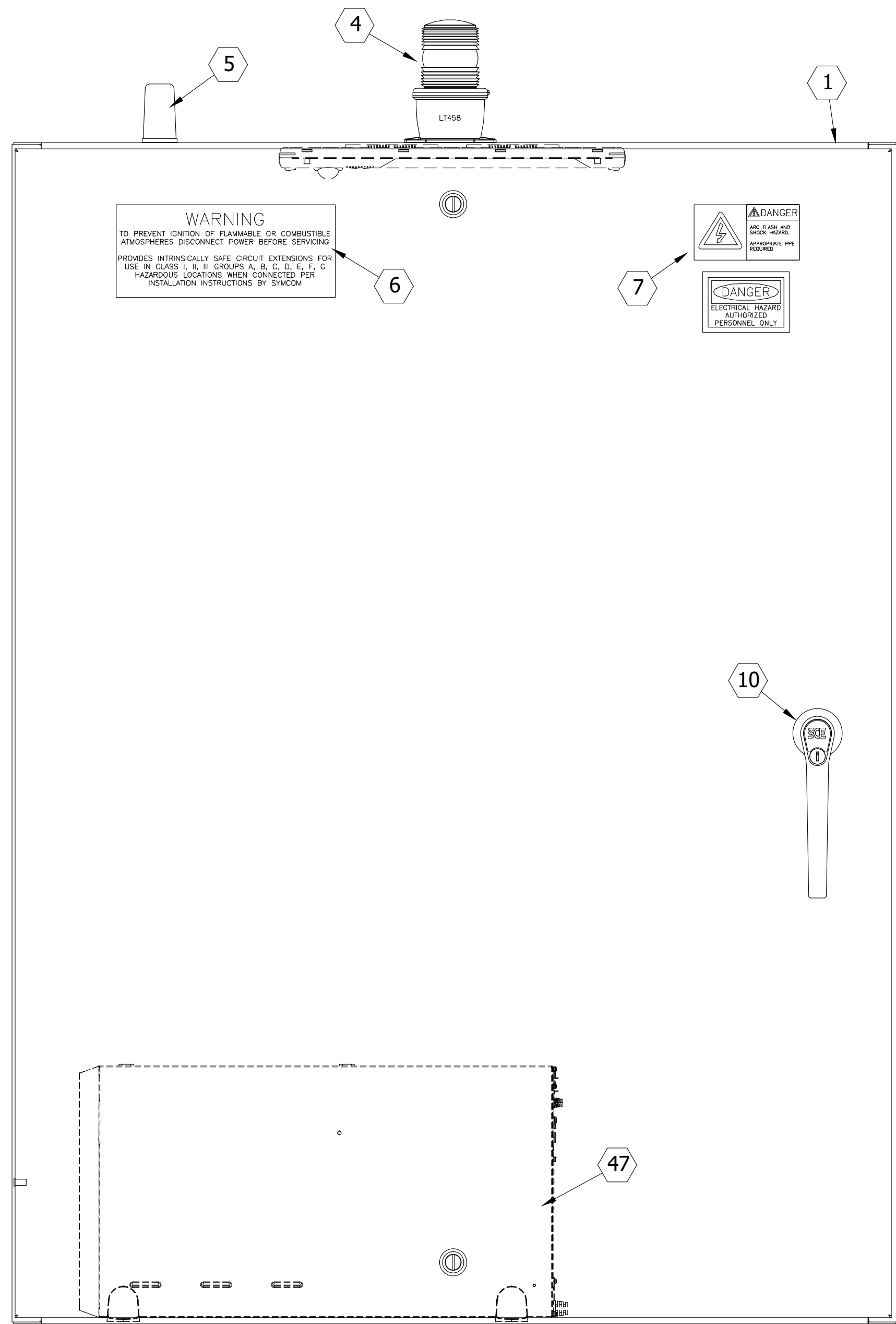
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Date: 08/14/2026



Aaron Crow

PRINT DATE: 8/27/26
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EDIT DATE: 7/15/26 2:33 PM
EDITED BY: RPAREDES



CONTROL PANEL KEYED NOTES:

1. STAINLESS STEEL NEMA4X PUMP CONTROL PANEL - 48"X36"X16" MINIMUM. SIMILAR TO SCE-48EL3616SSLPL. (THIS ENCLOSURE MAY UTILIZE VFD UNITS IN THE FUTURE FOR 1PH TO 3PH CONVERSION FOR DIFFERENT STYLE OF PUMPS, MAINTAIN 16" DEPTH).
2. 48"X36" EQUIPMENT PANEL. SIMILAR TO SCE-48P36.
3. 48"X36" DEAD FRONT PANEL. SIMILAR TO SCE-DF48EL36LP.
4. LED FLASHING ALARM BEACON.
5. CELL MODEM ANTENNA.
6. WARNING LABEL.
7. ARC FLASH - VOLTAGE WARNING LABEL.
8. NOT USED.
9. NOT USED.
10. CELL MODEM FOR CONNECTIVITY BACK TO PLANT. SIMILAR TO APRISA 4RF LTE. PROVIDE WITH DIN RAIL MOUNT AND CABLES.
11. HIGH DENSITY GRAY WIRE DUCT.
12. 120V PANEL CONTROL POWER GROUND AND NEUTRAL TERMINAL BLOCK.
13. 120V PANEL CONTROL POWER 15A CIRCUIT BREAKER.
14. 120V CONTROL POWER SURGE PROTECTION DEVICE.

15. 120V CONTROL POWER LOSS RELAY.
16. SUPPLEMENTAL CIRCUIT BREAKER FOR SITE LIGHT.
17. 120V CONTROL POWER DISTRIBUTION TERMINAL BLOCKS.
18. 120V CONTROL POWER NEUTRAL DISTRIBUTION TERMINAL BLOCKS.
19. 120V 3A CIRCUIT BREAKER FOR 24VDC POWER SUPPLY AND 15A CIRCUIT BREAKER FOR LOCAL RECEPTACLE.
20. 24VDC, 5A POWER SUPPLY.
21. 24VDC DISTRIBUTION TERMINAL BLOCKS.
22. UPS FAIL-OVER CONTACTOR/RELAY.
23. 2P CIRCUIT BREAKER FOR 240V, 1PH SURGE PROTECTION DEVICE.
24. 240V, 1PH SURGE PROTECTION DEVICE. SIMILAR TO ABB OVRT2 2L SERIES.
25. MAIN POWER DISTRIBUTION BLOCK.
26. MAIN POWER CIRCUIT BREAKER.
27. MOTOR PROTECTION CIRCUIT BREAKERS. THESE SHALL BE ABB TYPE IN COMPLIANCE WITH ABB STANDARDS FOR VFD PROTECTION.
28. ALLEN BRADLEY MICRO850 2080-LC50-24 PLC WITH REQUIRED I/O.
29. PLC DIGITAL INPUT FIELD TERMINATION BLOCKS.

30. PLC DIGITAL OUTPUT ISOLATION RELAYS.
31. PLC ANALOG INPUT/OUTPUT DISTRIBUTION TERMINATION BLOCKS.
32. 120V CONTROL RELAYS.
33. IEC MOTOR STARTERS WITH SOLID STATE OVERLOADS.
34. ISB FOR FLOAT SWITCHES. SIMILAR TO ISDUR4.
35. INTRINSICALLY SAFE BARRIER.
36. ANALOG ISB.
37. MINIMUM 100W CONDENSATION PANEL HEATER.
38. TERMINAL BLOCKS FOR MOTOR PROTECTION (SEAL FAIL/OVERTEMP) WIRING FROM MOTOR.
39. CONTROL PANEL GROUND BUS BAR.

40. 30MM PUSH-TO-TEST (PTT) MOTOR RUNNING RED LED PILOT LIGHT.
41. 30MM 3 POSITION HAND-OFF-AUTO SELECTOR SWITCH.
42. 30MM PUSH-TO-TEST (PTT) MOTOR STOPPED GREEN LED PILOT LIGHT.
43. 30MM PUSH-TO-TEST (PTT) MOTOR FAILED AMBER LED PILOT LIGHT.
44. FLUSH MOUNT MINI-CAS SEAL FAIL/OVERTEMP MODULE WITH RESET AND INDICATOR LIGHTS. DIN RAIL MOUNT NOT ACCEPTABLE.
45. RUNTIME METER.
46. 30MM 2-POSITION SELECTOR SWITCH FOR FLOAT/PLC MODE.
47. MINIMUM 700VA UPS DUAL CONVERSION UPS.



SWEETSER WASTE WATER IMPROVEMENTS

SWEETSER, INDIANA, 46987

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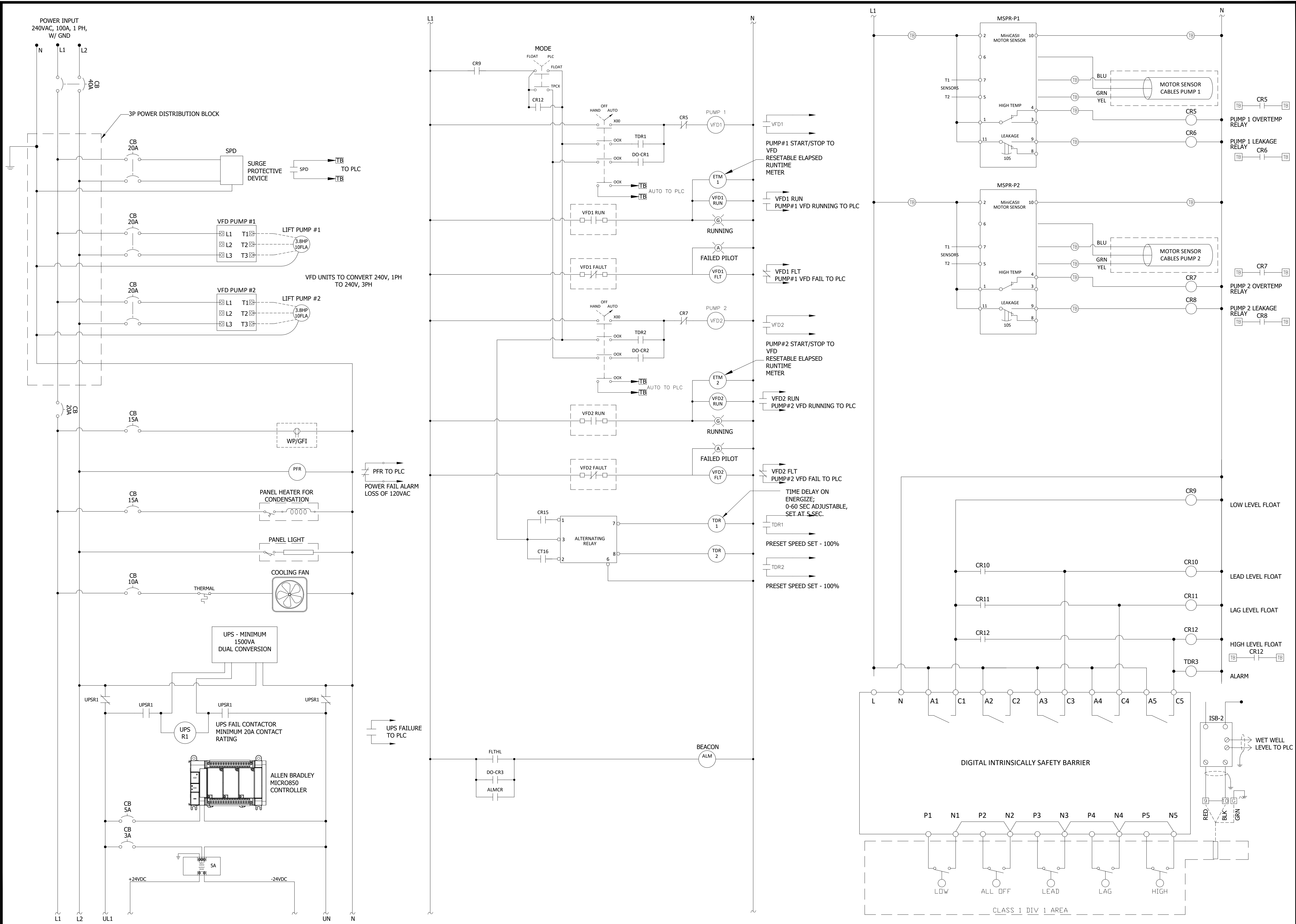


Aaron Crow

EAGLE DRIVE LIFT
STATION CONTROL
PANEL UPGRADES

I109A

PRINT DATE: 8/27/26
PLOT SCALE: 1:1
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SWEETSER WASTE WATER IMPROVEMENTS

SWEETSER, INDIANA, 46987

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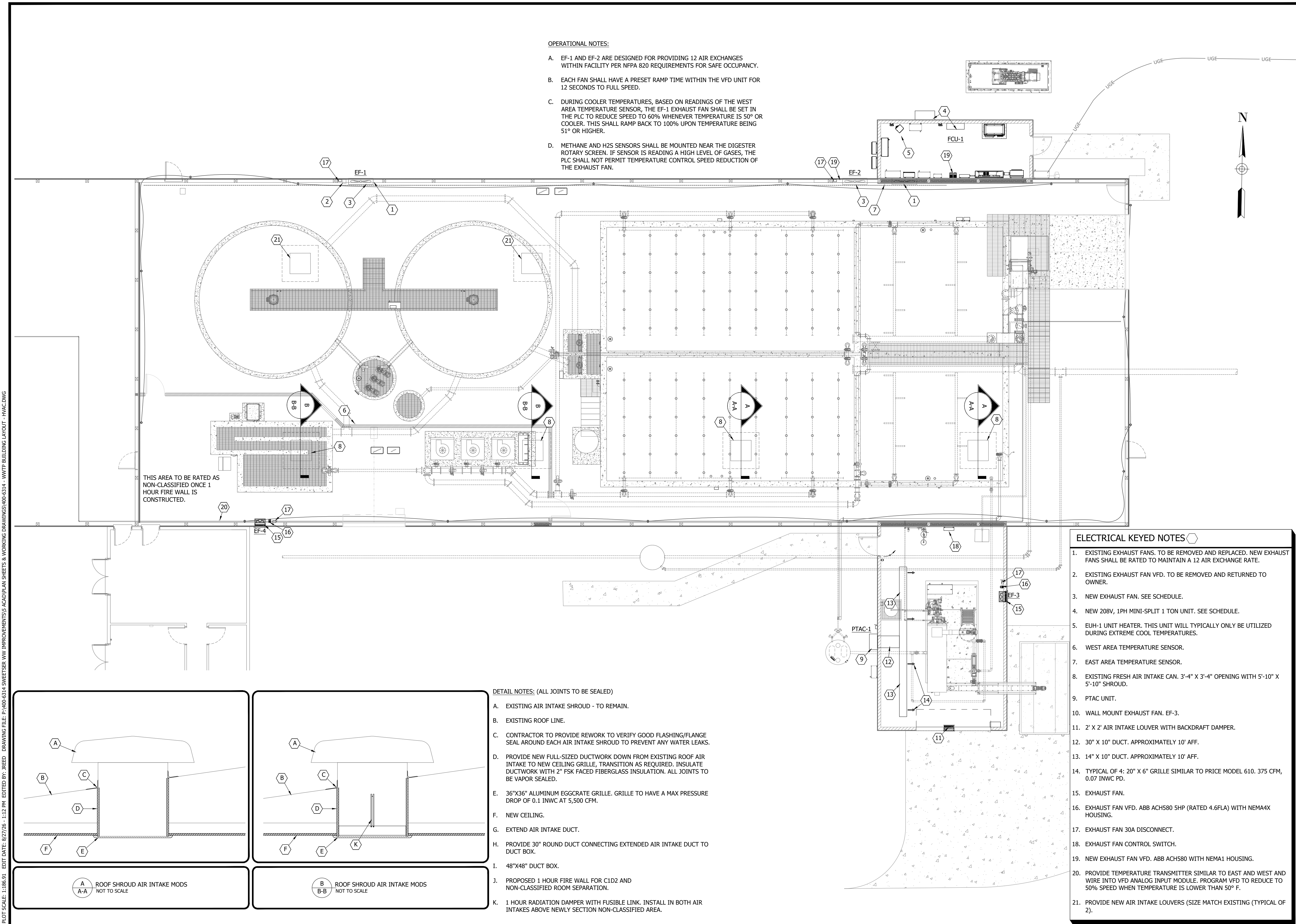


Aaron Crow

**EAGLE DRIVE LIFT
STATION CONTROL
PANEL WIRING DETAILS**

I109B

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PLOT SCALE: 1:186.91
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OPERATIONAL NOTES:

- A. EF-1 AND EF-2 ARE DESIGNED FOR PROVIDING 12 AIR EXCHANGES WITHIN FACILITY PER NFPA 820 REQUIREMENTS FOR SAFE OCCUPANCY.
- B. EACH FAN SHALL HAVE A PRESET RAMP TIME WITHIN THE VFD UNIT FOR 12 SECONDS TO FULL SPEED.
- C. DURING COOLER TEMPERATURES, BASED ON READINGS OF THE WEST AREA TEMPERATURE SENSOR, THE EF-1 EXHAUST FAN SHALL BE SET IN THE PLC TO REDUCE SPEED TO 60% WHENEVER TEMPERATURE IS 50° OR COOLER. THIS SHALL RAMP BACK TO 100% UPON TEMPERATURE BEING 51° OR HIGHER.
- D. METHANE AND H2S SENSORS SHALL BE MOUNTED NEAR THE DIGESTER ROTARY SCREEN. IF SENSOR IS READING A HIGH LEVEL OF GASES, THE PLC SHALL NOT PERMIT TEMPERATURE CONTROL SPEED REDUCTION OF THE EXHAUST FAN.

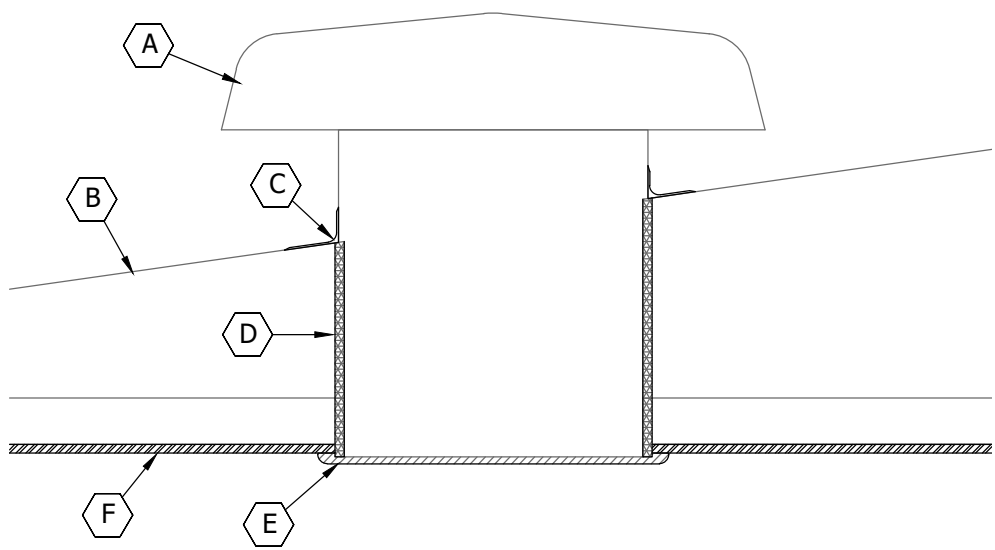
THIS AREA TO BE RATED AS NON-CLASSIFIED ONCE 1 HOUR FIRE WALL IS CONSTRUCTED.

DETAIL NOTES: (ALL JOINTS TO BE SEALED)

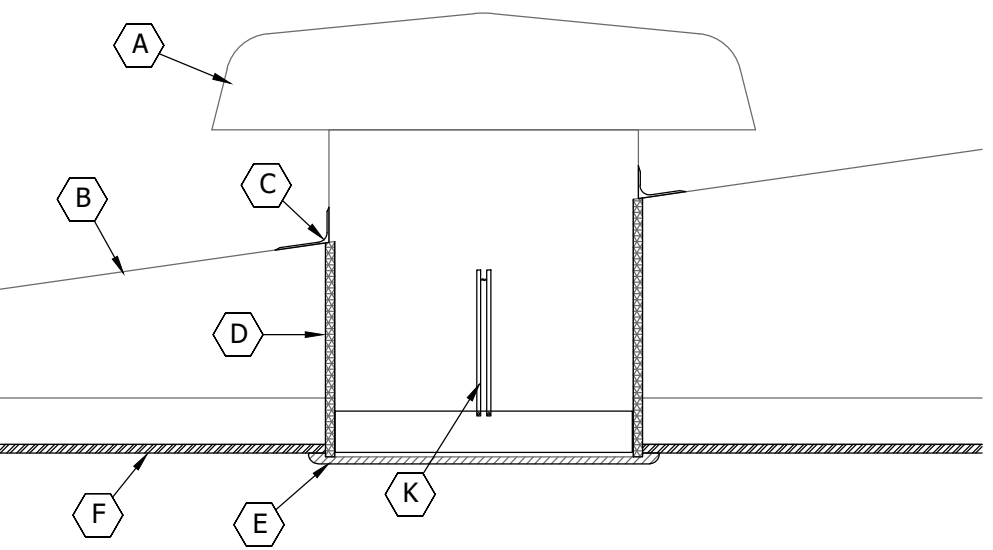
- A. EXISTING AIR INTAKE SHROUD - TO REMAIN.
- B. EXISTING ROOF LINE.
- C. CONTRACTOR TO PROVIDE REWORK TO VERIFY GOOD FLASHING/FLANGE SEAL AROUND EACH AIR INTAKE SHROUD TO PREVENT ANY WATER LEAKS.
- D. PROVIDE NEW FULL-SIZED DUCTWORK DOWN FROM EXISTING ROOF AIR INTAKE TO NEW CEILING GRILLE. TRANSITION AS REQUIRED. INSULATE DUCTWORK WITH 2" FSK FACED FIBERGLASS INSULATION. ALL JOINTS TO BE VAPOR SEALED.
- E. 36"X36" ALUMINUM EGGCRATE GRILLE. GRILLE TO HAVE A MAX PRESSURE DROP OF 0.1 INWC AT 5,500 CFM.
- F. NEW CEILING.
- G. EXTEND AIR INTAKE DUCT.
- H. PROVIDE 30" ROUND DUCT CONNECTING EXTENDED AIR INTAKE DUCT TO DUCT BOX.
- I. 48"X48" DUCT BOX.
- J. PROPOSED 1 HOUR FIRE WALL FOR C1D2 AND NON-CLASSIFIED ROOM SEPARATION.
- K. 1 HOUR RADIATION DAMPER WITH FUSIBLE LINK. INSTALL IN BOTH AIR INTAKES ABOVE NEWLY SECTION NON-CLASSIFIED AREA.

ELECTRICAL KEYED NOTES

- 1. EXISTING EXHAUST FANS. TO BE REMOVED AND REPLACED. NEW EXHAUST FANS SHALL BE RATED TO MAINTAIN A 12 AIR EXCHANGE RATE.
- 2. EXISTING EXHAUST FAN VFD. TO BE REMOVED AND RETURNED TO OWNER.
- 3. NEW EXHAUST FAN. SEE SCHEDULE.
- 4. NEW 208V, 1PH MINI-SPLIT 1 TON UNIT. SEE SCHEDULE.
- 5. EUH-1 UNIT HEATER. THIS UNIT WILL TYPICALLY ONLY BE UTILIZED DURING EXTREME COOL TEMPERATURES.
- 6. WEST AREA TEMPERATURE SENSOR.
- 7. EAST AREA TEMPERATURE SENSOR.
- 8. EXISTING FRESH AIR INTAKE CAN. 3'-4" X 3'-4" OPENING WITH 5'-10" X 5'-10" SHROUD.
- 9. PTAC UNIT.
- 10. WALL MOUNT EXHAUST FAN. EF-3.
- 11. 2' X 2' AIR INTAKE LOUVER WITH BACKDRAFT DAMPER.
- 12. 30" X 10" DUCT. APPROXIMATELY 10' AFF.
- 13. 14" X 10" DUCT. APPROXIMATELY 10' AFF.
- 14. TYPICAL OF 4: 20" X 6" GRILLE SIMILAR TO PRICE MODEL 610. 375 CFM, 0.07 INWC PD.
- 15. EXHAUST FAN.
- 16. EXHAUST FAN VFD. ABB ACH580 SHP (RATED 4.6FLA) WITH NEMA4X HOUSING.
- 17. EXHAUST FAN 30A DISCONNECT.
- 18. EXHAUST FAN CONTROL SWITCH.
- 19. NEW EXHAUST FAN VFD. ABB ACH580 WITH NEMA1 HOUSING.
- 20. PROVIDE TEMPERATURE TRANSMITTER SIMILAR TO EAST AND WEST AND WIRE INTO VFD ANALOG INPUT MODULE. PROGRAM VFD TO REDUCE TO 50% SPEED WHEN TEMPERATURE IS LOWER THAN 50° F.
- 21. PROVIDE NEW AIR INTAKE LOUVERS (SIZE MATCH EXISTING (TYPICAL OF 2)).



A
A-A
ROOF SHROUD AIR INTAKE MODS
NOT TO SCALE



B
B-B
ROOF SHROUD AIR INTAKE MODS
NOT TO SCALE

SWEETSER WASTE WATER
IMPROVEMENTS

SWEETSER, INDIANA, 46987

#	Revision	Date

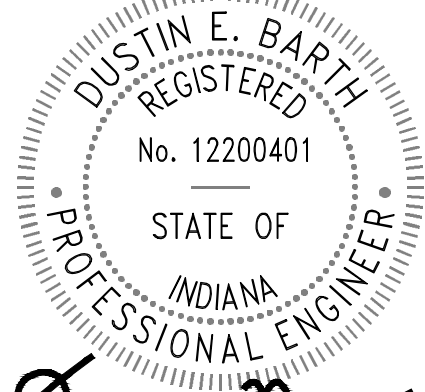
Project #: 400-6314

Designed By: JAR

Drawn By: JAR

Checked By: ALC & DB

Date: 08/14/2026



Dustin Barth



WWTP BUILDING LAYOUT
- MECHANICAL

M100

PRINT DATE: 8/27/26
PLOT SCALE: 1:1
DRAWING FILE: P:\400-6314 SWEETSER WW IMPROVEMENTS\5 ACAD\PLAN SHEETS & WORKING DRAWINGS\400-6314 - MECH SCHEDULES AND DETAILS.DWG
DRAFTED BY: JREED
DATE: 8/12/26
11:09 AM
EDITED BY: JREED

ELECTRIC UNIT HEATER SCHEDULE									
REMARKS:									
1. PROVIDE WALL THERMOSTAT.									
2. PROVIDE WALL HANGING KIT.									
MARK	MANUFACTURER	MODEL NO	HEATING COIL CAPACITY	POWER	FLA	VOLT	PH	REMARKS	
EUH-1	BERKO (OR EQUAL)	HU1AA320	10,000 BTUH	3 KW	14.5	208	1	1	

DX SPLIT SYSTEM												
REMARKS:												
1. PROVIDE WIRELESS REMOTE CONTROLLER KIT FOR EACH INDOOR UNIT.												
2. OUTDOOR UNIT BE PROVIDED WITH LOW AMBIENT WIND BAFFLE KIT. UNIT SHALL BE RATED FOR COOLING AND HEATING DOWN TO 5 DEGREES.												
3. CONTRACTOR SHALL SIZE ALL REFRIGERANT PIPING SO AS NOT TO REDUCE RATED CAPACITY. SUBMIT REFRIGERANT PIPING DETAIL WITH SUBMITTAL.												
4. INDOOR UNITS SHALL BE POWERED THROUGH OUTDOOR UNIT.												
5. MOUNT OUTDOOR UNITS ON 16" HIGH STAND FOR GRADE MOUNTED UNITS.												
		INDOOR UNIT				OUTDOOR UNIT						REMARKS
MANUFACTURER	MARK	MODEL	MAX CFM	COOLING/ HEATING MBH		MARK	MODEL	SEER/ EER	HSPF	MCA	MOCP	
LG (OR EQUAL)	FCU-1	KNSAE121A	400	12.0 / 12.0		HP-1	KUSAE121A	18 / 12	8.5	10	15	1 THRU 5

REMARKS:

1. FAN TO BE SPARK RESISTANT TYPE B MINIMUM.

2. PROVIDE EXPLOSION PROOF MOTOR.

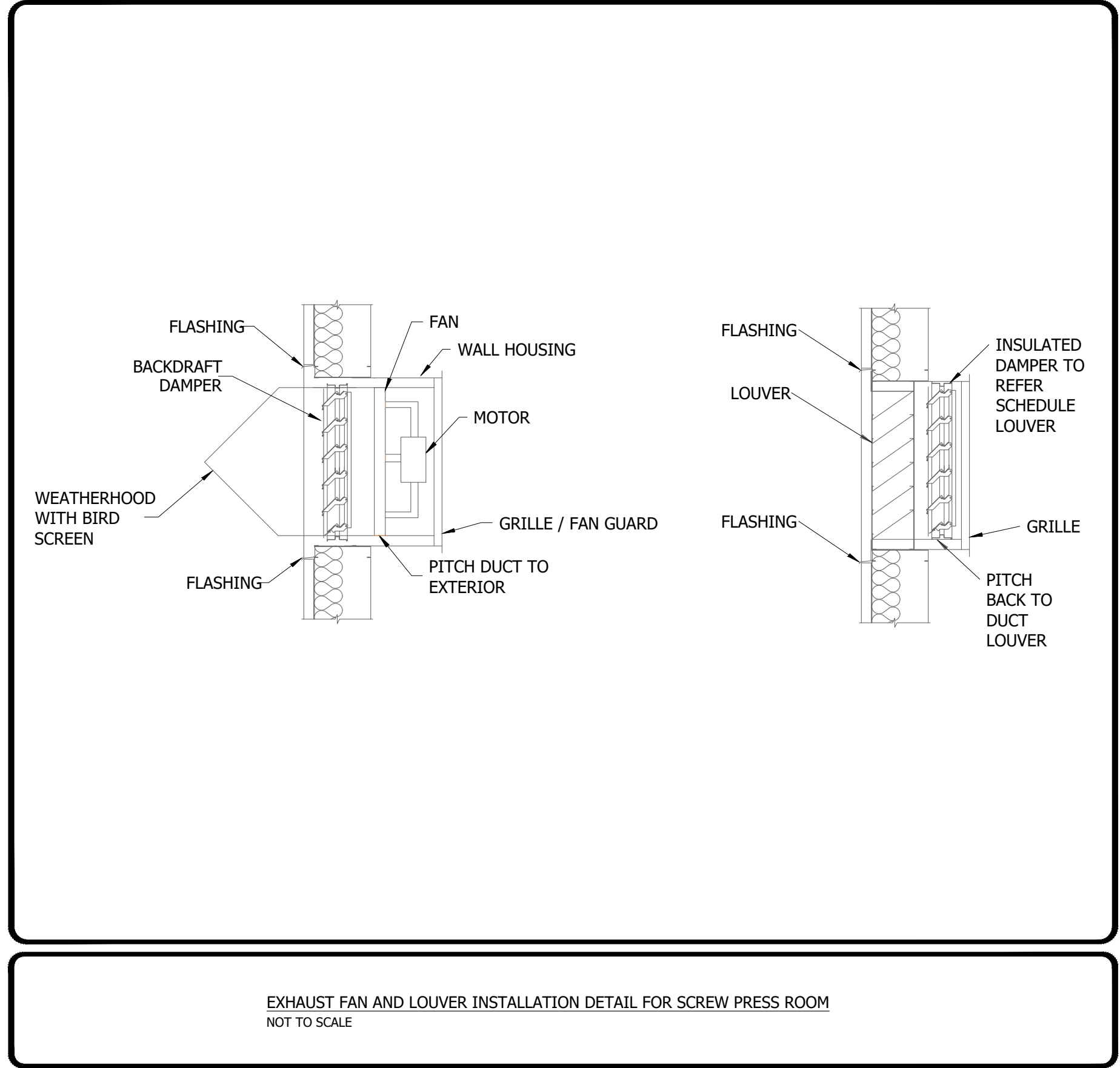
3. PROVIDE FAN GUARD

4. PROVIDE WALL SLEEVE WITH EXTERIOR WALL LOUVER W/ BACKDRAFT DAMPER.

5. VFD PROVIDED BY EC.

MARK	TYPE	CFM	ESP (IN-WG)	FAN RPM	MOTOR				DRIVE TYPE	BIRD SCREEN	GRAVITY BDD	MOTORIZED DAMPER	DESIGN REFERENCE		REMARKS
					HP	BHP	PHASE/ HERTZ	FLA					MANUFACTURER	MODEL NO.	
EF-1	WALL AXIAL EXHAUST	11,000	0.46	1800	3	2.1	208 / 3 / 60	10.5	DIRECT	YES	YES	NO	GREENHECK (OR EQUAL)	AER-30-03-0316	1 THRU 5
EF-2	WALL AXIAL EXHAUST	11,000	0.46	1800	3	2.1	208 / 3 / 60	10.5	DIRECT	YES	YES	NO	GREENHECK (OR EQUAL)	AER-30-03-0316	1 THRU 5
EF-3	WALL AXIAL EXHAUST	1,300	0.35	951	0.33	0.28	208 / 3 / 60	2.4	belt	YES	YES	NO	GREENHECK (OR EQUAL)	SBE-1H20	3 THRU 5
EF-4	WALL AXIAL EXHAUST	2,000	0.35	1100	0.5	0.36	208 / 3 / 60	3.8	belt	YES	YES	NO	GREENHECK (OR EQUAL)	SBE-1H20	3 THRU 5

PTAC UNIT SCHEDULE															
MARK	MANUFACTURER	MODEL	NOMINAL TONNAGE	# OF STAGES	CFM	OA CFM	EST ESP	COOLING CAPACITY			ELECTRIC HEATING CAPACITY		UNIT ELECTRICAL		
								TOTAL (MBH)	SENS (MBH)	EER	KW @ 208V 3P	MBH	VOLTS / PHASE	MCA	MOCP
PTAC-1	BARD	W4SAFDB10AWPXXE	4	2	1500	150	0.35	47	36	11.3	9	34	208V / 3P	34	35
REMARKS:															
1. PROVIDE WITH WALL MOUNTED THERMOSTAT/HUMIDISTAT.															
2. PROVIDE UNIT WITH 2-STAGE COMPRESSOR, HOT GAS RE-HEAT AND ASSOCIATED DEHUMIDIFICATION MODE CONTROL.															
3. PROVIDE WITH MERV-8 FILTER.															
4. PROVIDE AIR HANDLING UNIT WITH SINGLE POINT ELECTRICAL CONNECTION WITH FACTORY MOUNTED DISCONNECT.															
5. PROVIDE BOTH INTAKE AND EXHAUST BAROMETRIC DAMPERS FOR OUTDOOR AIR INTAKE AND RELIEF PER SCHEDULED VALUES. ADJUST IN FIELD PER TAB.															
6. PROVIDE FACTORY MOUNTED AND WIRED ELECTRIC HEATER.															
7. PROVIDE UNIT WITH LOW AMBIENT CONTROLS.															

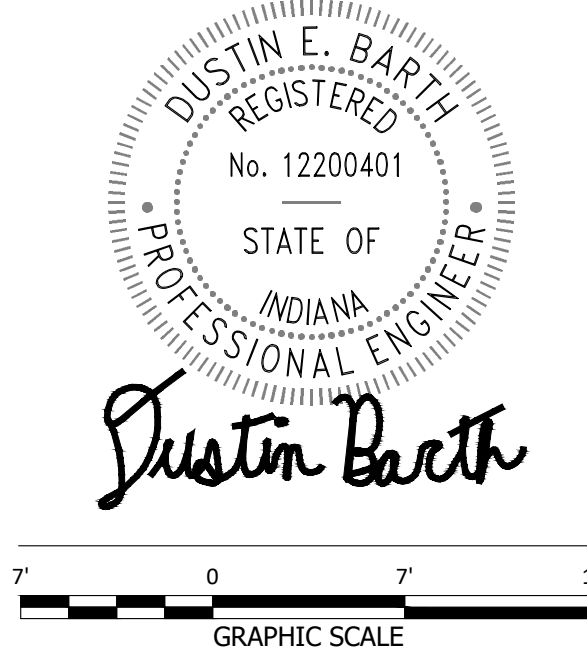


SWEETSER WASTE WATER IMPROVEMENTS

SWEETSER, INDIANA, 46987

#	Revision	Date

Project #:	400-6314
Designed By:	JAR
Drawn By:	JAR
Checked By:	ALC & DB
Date:	08/14/2026



WWTP BUILDING LAYOUT MECHANICAL SCHEDULES AND DETAILS

M200