



IFB NO. 500640-FY26-31
WATER POLLUTION CONTROL FACILITY RAS/WAS PS IMPROVEMENTS - HYDROCYCLONES
ADDENDUM NO. 6

February 27, 2026

ITEM NO. 1: QUESTION(S) AND RESPONSE(S)

Interested bidders shall be mindful of the following response(s) to the question(s) asked:

1. Specification 01 11 13 1.13 Allowances references allowances in the contract for concrete repairs, paving, etc.; however, the project is listed as a lump sum and no breakdown of these allowances and/or quantities. Please advise if this section should be removed or if the bid form should be updated to include allowances. Based on the length of time provided in the shutdowns, concrete repairs wouldn't be possible.

RESPONSE: Paragraph 1.13 of the specification 01 11 13 – Work Covered by Contract Documents is hereby deleted.

2. Obsolescence of non tiastar supported LVMCC buckets (attachment with question and backup provided by Siemens).

RESPONSE: The use of refurbished MCC buckets, with minimum 1 year warranty from the manufacturer, is acceptable.

3. The Owner will be providing power to the contractor for construction; confirm adequate power supply is available for the bypass pumps up to 250 HP.

RESPONSE: Although the existing MCC-17-26A and MCC-17-26B have sufficient installed capacity for bypass pumps up to 250 HP, there is a restriction on the main feeder to the MCC. There is a parallel project to make the necessary electrical updates that may limit the available capacity for the bypass pump operation.

4. Does the backup pump need to be a diesel pump?

RESPONSE: The Town understands the question refers to the bypass pump. It does not need to be a diesel pump.

5. Specification section 01 11 13 states the bypass pumping system shall have a minimum capacity of 6,250 GPM. Confirm the average daily flow and peak flow for proper sizing of the pumps.

RESPONSE: The bypass pump can be sized for flows between 2,650 gpm and 3,500 gpm. Daily flow is relatively constant; however, it can vary with weather conditions. Refer to Section 1.4.B of the 01 73 01 - Maintenance of Plant Operations During Construction specification for constraints related to work in the RAS/WAS pump station.

6. Drawing E-102 indicates panelboard LP-17-30A in the existing blower room, but an existing 480 volt is in that location. Please confirm the panelboard for these circuits.

RESPONSE: See attached markup of Electrical drawings. Panelboard LP-17-30B shall be used instead. Refer to Item No. 2 below.

7. Drawing E-601 indicates utilizing MCC unit J3 in MCC-17-26B for the new Hydrocyclone Feed Pump VFD, but this MCC unit location is currently in use for other equipment. Please advise where to connect this circuit.

RESPONSE: See attached markup of drawing E-601. Bucket J4 shall be used. Refer to Item No. 2 below.

8. Drawing E-901 indicates specific conduits in the duct bank but does not clearly indicate which pull boxes they go to, especially the spare conduits. Please clarify which pull boxes connect to which conduits.

RESPONSE: Terminate the 3" spare conduit within the power pull boxes (PB-A-P and PB-B-P). Terminate one 2" spare conduit at the controls pull boxes (PB-A-C and PB-B-C). Terminate one 2" spare conduit at the instruments pull boxes (PB-A-I and PB-B-I).

9. Drawing E-901 indicates new circuits being installed in panelboard LP-17-30A, but the indicated circuits appear to be in use already in the panelboard. Please clarify new circuit connections.

RESPONSE: As clarified in question 6 above, these new circuits shall be energized from panelboard LP-17-30B.

10. There is a mismatch in the label for Hydrocyclone Feed Pump Emergency Stop, LI and LT for the RAS and WAS Influent channel levels between the equipment schedule and the P&ID drawing. Confirm the correct Equipment tag to be used.

RESPONSE: Equipment tags for the Emergency Stop HS, and RAS/WAS Influent Channel LI and LT as shown on Drawing I-601 are accurate. Revise Instrument and Device Schedule (Section 40 61 11 S01) line items 21 and 22 to have loop number 18 and tags LI-18-421 and LT-18-421, respectively. Revise Instrument and Device Schedule (Section 40 61 11 S01) line item 9 to have tag HS-18-87-1A.

11. For instrumentation, please clarify the type of gaskets to be provided for interfacing between the Stainless Steel flanges and CPVC piping. Example would be for the magnetic flowmeters on the HCO 4" CPVC line.

RESPONSE: Provide EPDM gaskets, consistent with ASTM F477 gaskets for high-head applications (50-ft or greater), for all interfaces between stainless steel and CPVC piping.

12. Drawing M-101 shows FE and FIT together while the P&ID on I-601 seems to indicate a remote mounted transmitter. Please clarify if the transmitter is to be remote mounted or locally mounted along with the Flow Tube. In case of remote mounting, please provide the location of the mounting.

RESPONSE: Transmitter is to be locally mounted with the flow meter. Refer to detail D on Drawing I-901.

ITEM NO. 2: MARKED-UP DRAWINGS

The IFB is hereby revised to incorporate the attached marked-up Drawings E-102, E-103, E-601, E-602 and E-901.

ITEM NO. 3: REVISED BIDS DUE DATE/TIME

The Bids Due date/time of the IFB is revised to: Tuesday, March 10, 2026 at 2:00 pm (local time).

Bidders must take due notice and be governed accordingly. This addendum must be acknowledged as indicated in the Invitation for Bid or your bid may not be considered.

***For the Town of Leesburg,
David A. Christianson, CPPB, VCA
Deputy Procurement Officer
Town of Leesburg, Virginia
Email: BidQuestions@leesburgva.gov
Bid Board: <http://www.leesburgva.gov/bidboard>***

END OF ADDENDUM NO. 6

GENERAL NOTES

- SEE DRAWINGS E-001 & E-002 FOR ELECTRICAL LEGENDS & ABBREVIATIONS AND NOTES.

SHEET KEYNOTES

- WALL MOUNTED AFD
- BOND DUCT BANK GROUND TO EXISTING GROUNDING RING.
- CONTRACTOR SHALL FIELD LOCATE EXISTING GROUND RING AROUND THE PROCESS BLOWER BUILDING AND SHALL BOND TO BOTH ENDS OF THE NEW DUCT BANK.
- TERMINATE SPARE CONDUITS 6, 8 AT PULL BOXES PB-A.
- PENETRATE CONDUITS AT EL 269.50. CONDUITS SHALL BE SPACED 6" OC (MIN). CONTRACTOR SHALL FIELD VERIFY LOCATION OF REINFORCING PRIOR TO PENETRATION IN ACCORDANCE WITH NOTES ON EXISTING STRUCTURES ON DWG S-001. SEAL CONDUIT PENETRATIONS WITH GROUT IN ACCORDANCE WITH SPECIFICATION 26 05 11.



Black & Veatch Corporation
Arlington, Virginia 22209



WATER POLLUTION
CONTROL FACILITY
RAS/WAS PS
IMPROVEMENTS
HYDROCYCLONES

FINAL DESIGN -
ISSUED FOR BID

REVISIONS AND RECORD OF ISSUE

DESIGNED:	DG
DETAILED:	DMF
CHECKED:	JSA
APPROVED:	JSA
DATE:	DECEMBER 2025
PROJECT NO.:	422278

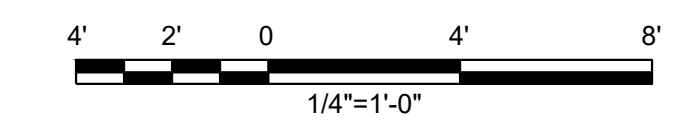
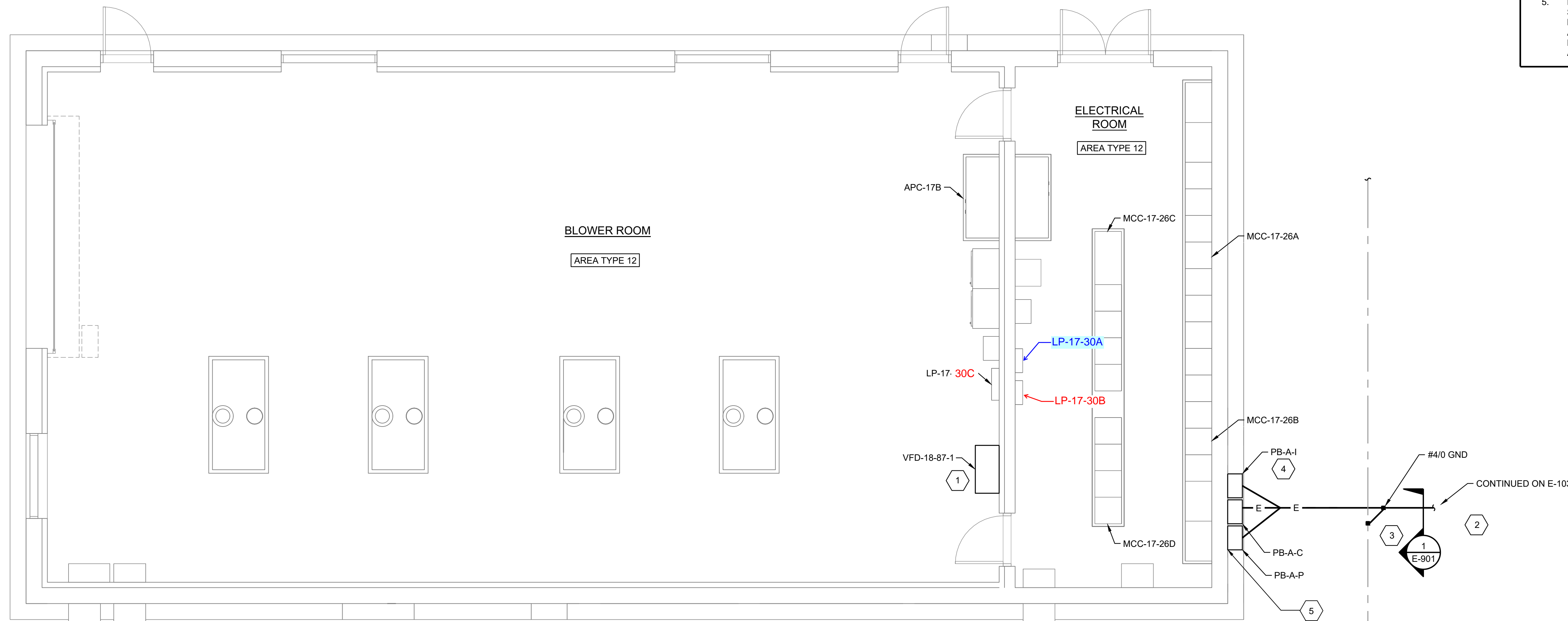
BLOWER BUILDING

ELECTRICAL

BLOWER BUILDING
POWER PLAN

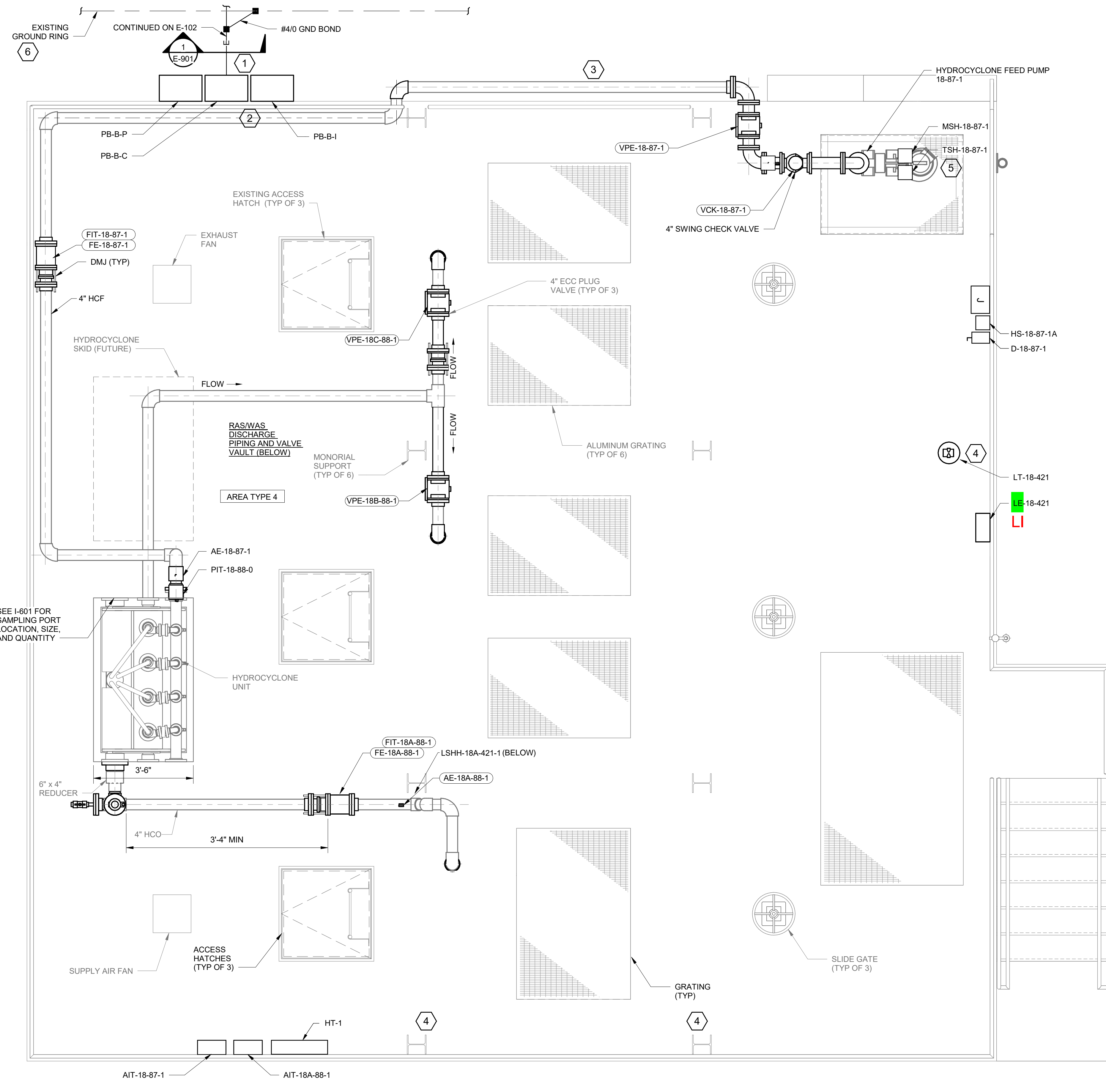
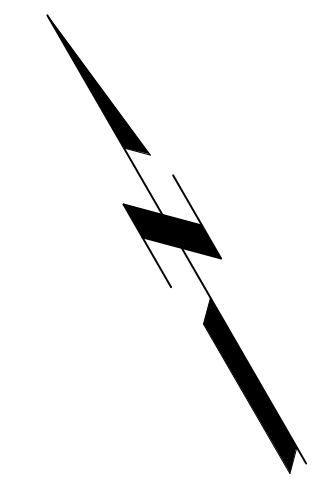
E-102

18
OF
28



(SCALE BAR IS 4" AT FULL SCALE) 0 1/2 1 2 3 4

PLOTTED: 12/17/2025 11:33:40 AM
 FILE: C:\USERS\JULI18318\ONE\DRIVE - BLACK & VEATCH\DESKTOP\PIOTS DRAFT\12-16-25\E-102.DWG
 PLOT: FDI1000
 D:\11000



GENERAL NOTES

- SEE DRAWINGS E-001 & E-002 FOR ELECTRICAL LEGENDS & ABBREVIATIONS AND NOTES.
- ALL NEW EQUIPMENT AT THE RAS/WAS AREA WILL BE NEMA TYPE 4X, 316 STAINLESS STEEL.

SHEET KEYNOTES

- BOND DUCT BANK GROUND TO EXISTING GROUNDING RING.
- TRANSITION UNDERGROUND CONDUITS IN DUCT BANK AND RUN EXPOSED ON THE OUTSIDE WALL OF THE BASINS TO THE ABOVE GROUND PULL BOXES. CONTINUE ROUTING ELECTRICAL CONDUITS EXPOSED AND BELOW NEW PIPE TO DISCONNECT AND JUNCTION BOXES. PROVIDE SEPARATE PULL BOXES TO ISOLATE 480V AND COMMUNICATION AND CONTROL CIRCUITS. TERMINATE SPARE CONDUITS 6-8. AT PULL BOXES PB-B.
- PROVIDE HEAT TRACING FOR ALL SECTIONS OF EXPOSED OUTDOOR PIPING. REFER TO DRAWINGS I-601 AND M-101 FOR ADDITIONAL INFORMATION.
- AREAS INSIDE ALL ACCESS HATCHES, BELOW GRATING, AND A RADIUS OF 3 FT AROUND THE WET WELL SLAB OR WALL PENETRATION, SHALL BE CLASSIFIED AS CLASS 1 DIVISION 2, GROUP C AND D.
- MSH-18-87-1 AND TSH-18-87-1 LOCATED AT THE PUMP BELOW GRATING.
- CONTRACTOR SHALL FIELD LOCATED EXISTING GROUND RING AROUND THE PROCESS BLOWER BUILDING AND SHALL BOND TO BOTH ENDS OF THE NEW DUCT BANK.



WATER POLLUTION CONTROL FACILITY
 RAW/WAS PS IMPROVEMENTS
 HYDROCYCLONES

FINAL DESIGN - ISSUED FOR BID

REVISIONS AND RECORD OF ISSUE

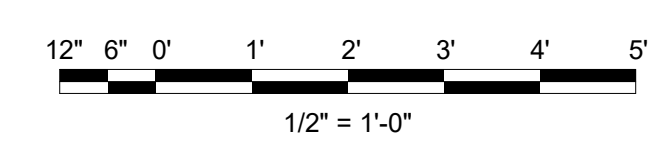
DESIGNED:	DG
DETAILED:	RSF
CHECKED:	JSA
APPROVED:	JSA
DATE:	DECEMBER 2025
PROJECT NO.:	4222278

RAS/WAS PUMP STATION

ELECTRICAL

RAS/WAS PUMP STATION
 POWER PLAN

OPERATING LEVEL PLAN
 1/2" = 1'-0"



(SCALE BAR IS 4" AT FULL SCALE)

PLOTTED: 12/11/2025 2:51:38 PM
 FILE: Autodesk Docs://4222278 - Hydrocyclones Unit Install/422278-RAS-WAS-PS.rvt
 REVIT_VERSION: 2024
 011000

GENERAL NOTES

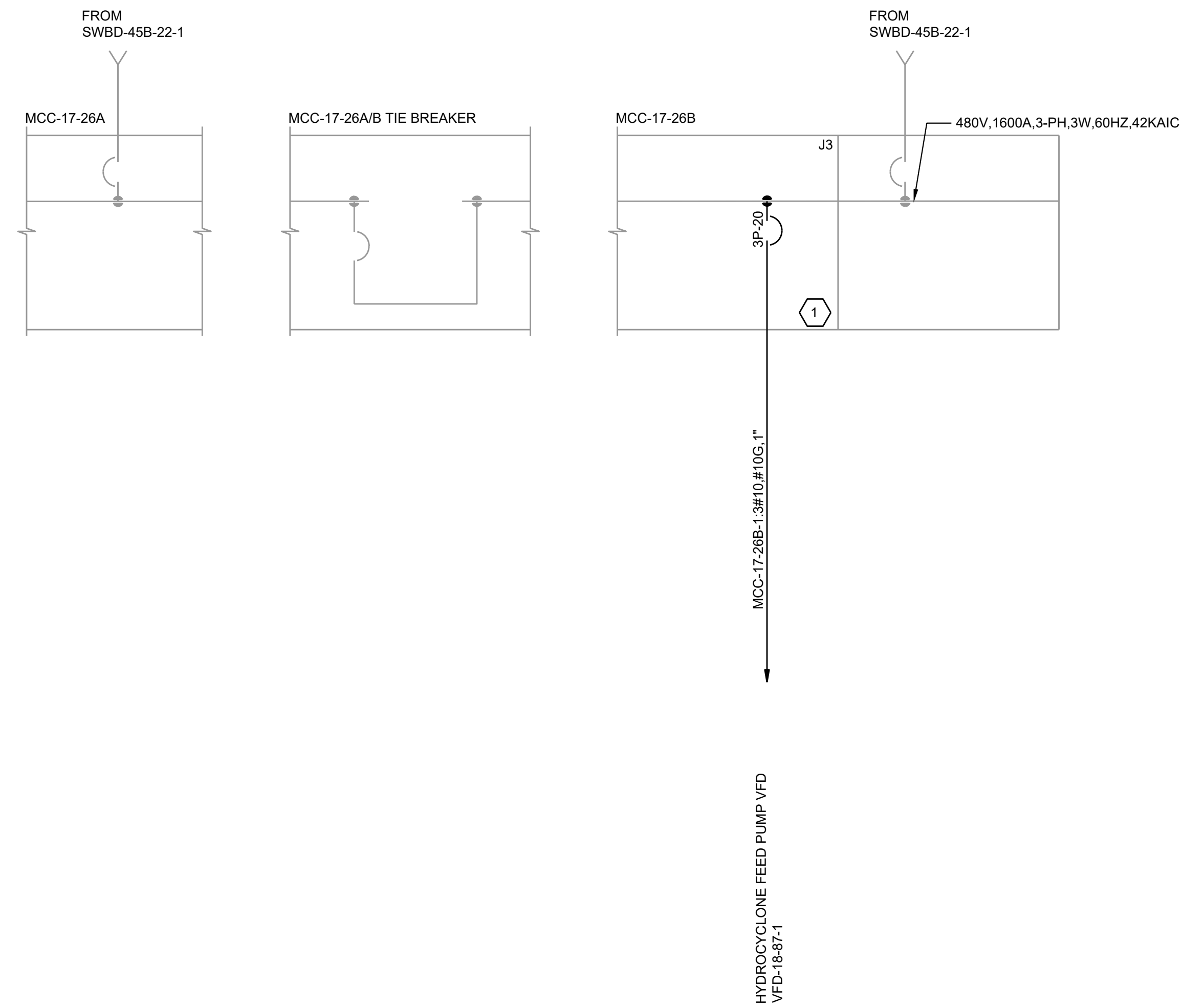
- 1. SEE DRAWINGS E-001 & E-002 FOR ELECTRICAL LEGENDS & ABBREVIATIONS AND NOTES.

SHEET KEYNOTES

- 1. NEW FEEDER BREAKER SHALL MATCH THE SHORT CIRCUIT CURRENT RATING OF THE EXISTING MCC-17-26B.



Black & Veatch Corporation
Arlington, Virginia 22209



EXISTING PARTIAL MCC-17-26B
ONE-LINE DIAGRAM



WATER POLLUTION
CONTROL FACILITY
RAS/WAS PS
IMPROVEMENTS
HYDROCYCLONES

FINAL DESIGN -
ISSUED FOR BID

REVISIONS AND RECORD OF ISSUE	
DESIGNED:	DG
DETAILED:	DMF
CHECKED:	JSA
APPROVED:	JSA
DATE:	DECEMBER 2025
PROJECT NO.:	422278

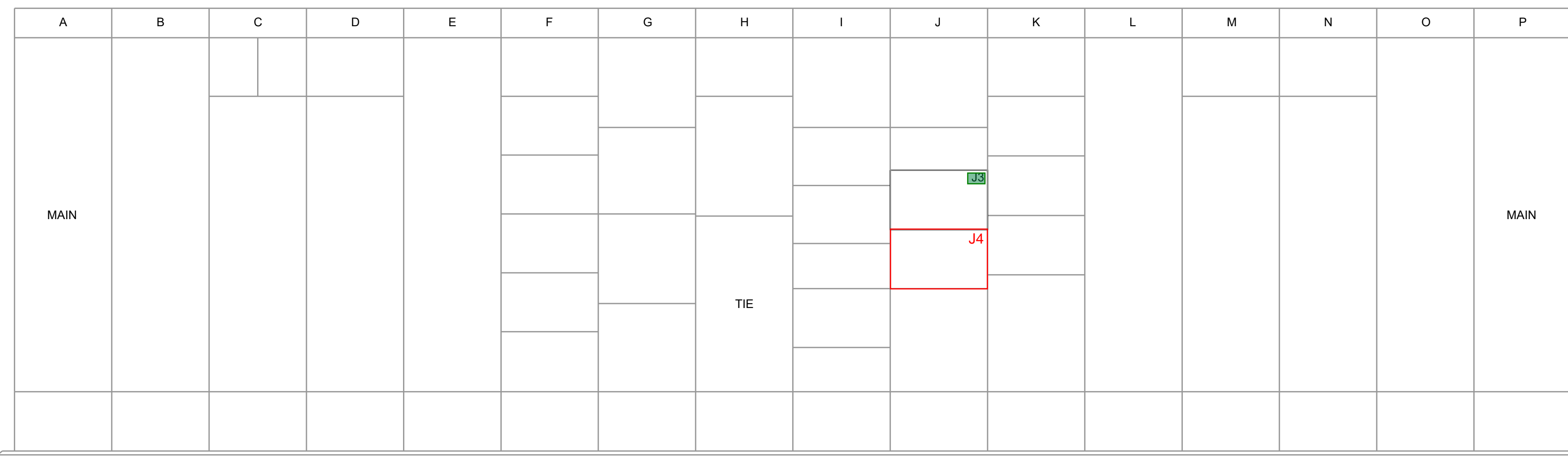
BLOWER BUILDING

ELECTRICAL

ONE-LINE DIAGRAMS

E-601

20
OF
28



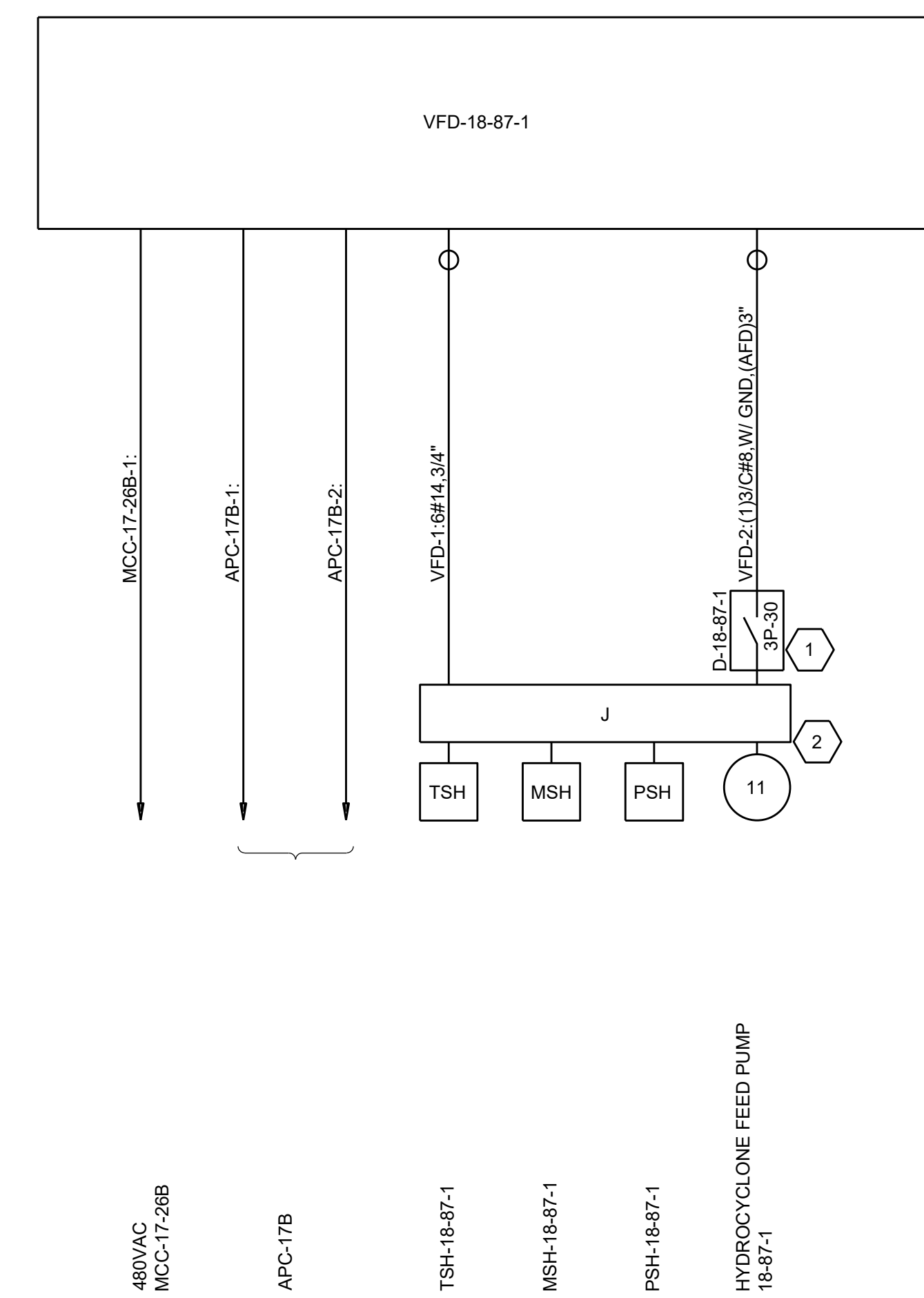
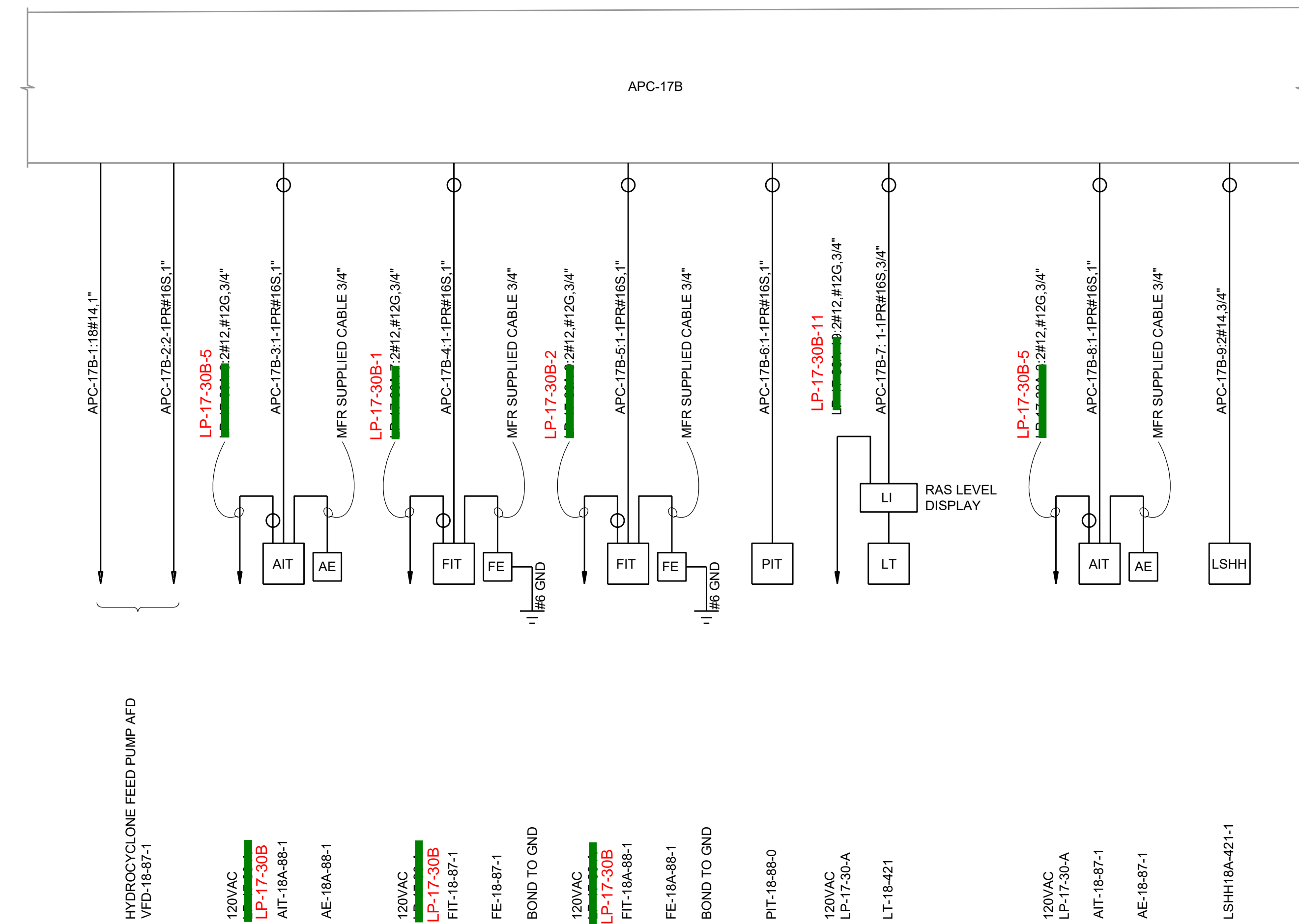
EXISTING PARTIAL MCC-17-26B FRONT ELEVATION
(NTS)

GENERAL NOTES

- SEE DRAWINGS E-001 & E-002 FOR ELECTRICAL LEGENDS & ABBREVIATIONS AND NOTES.

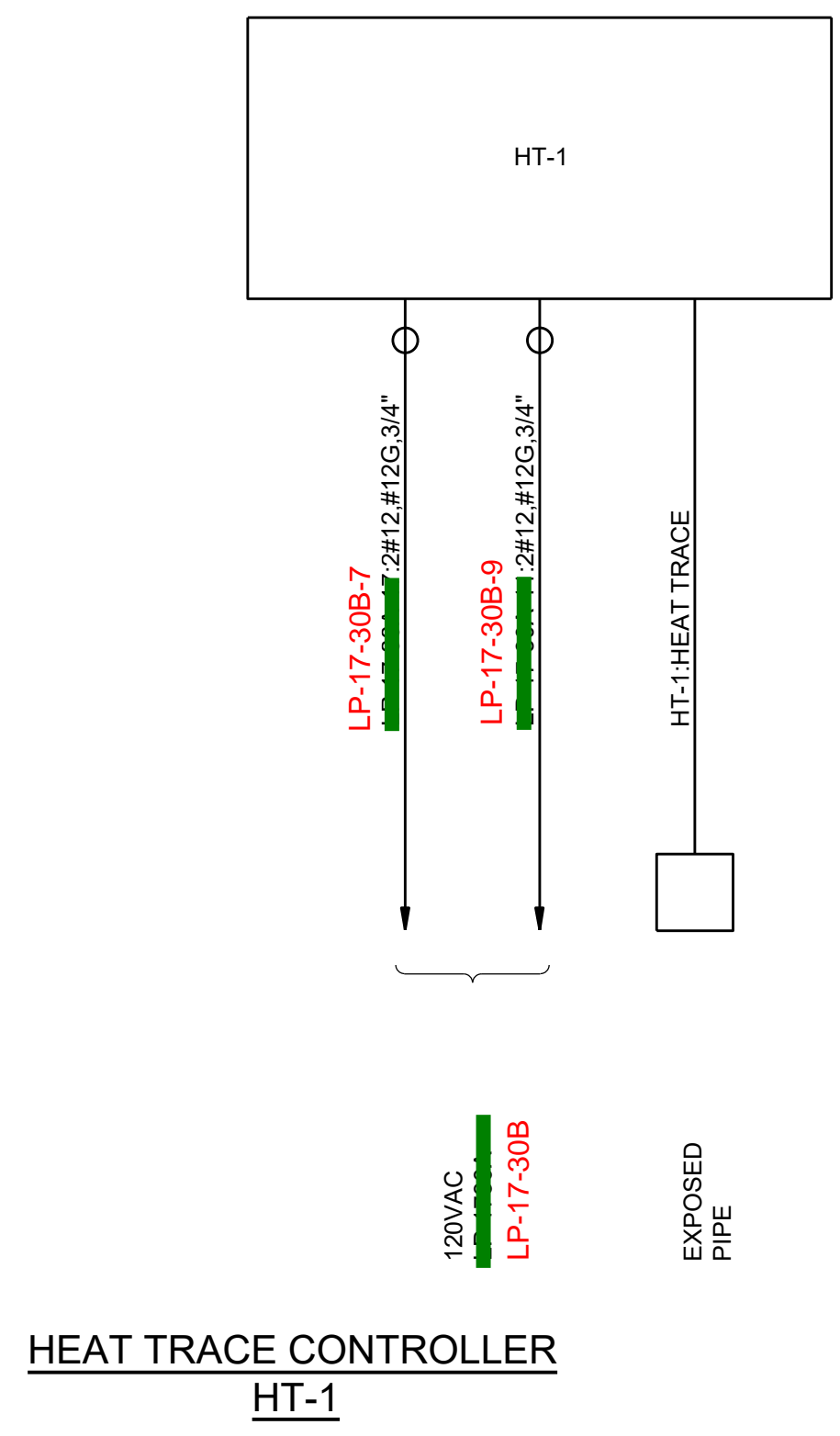
SHEET KEYNOTES

- PROVIDE AFD CABLE BETWEEN VFD-18-87-1 AND HYDROCYCLONE FEED PUMP.
- PROVIDE JUNCTION BOX TO TRANSITION TO MANUFACTURER PROVIDED SUBMERSIBLE CABLES.



**EXISTING PLC PARTIAL ONE LINE DIAGRAM
APC-17B**

**HYDROCYCLONE FEED PUMP AFD
VFD-18-87-1**



**HEAT TRACE CONTROLLER
HT-1**



WATER POLLUTION CONTROL FACILITY RAS/WAS PS IMPROVEMENTS HYDROCYCLONES

FINAL DESIGN - ISSUED FOR BID

REVISIONS AND RECORD OF ISSUE	
DESIGNED:	DG
DETAILED:	DMF
CHECKED:	JSA
APPROVED:	JSA
DATE:	DECEMBER 2025
PROJECT NO.:	422278

BLOWER BUILDING

ELECTRICAL

MISCELLANEOUS ONE-LINE DIAGRAMS

E-602

21 OF 28

updated schedule

PANELBOARD: LP-17-30B										BUS: COPPER			MAINS: 3P-70A MAIN BREAKER			PHASE		
SERVICE: 120/208V, 3PH, 4W, S/N			MOUNTING: SURFACE			RATING: 100A			LOCATION: ELEC. ROOM, BLDG. 31			"A"	"B"	"C"	"A"	"B"	"C"	
"A"	"B"	"C"	LOAD	P	BKR	CKT #	BKR	P	LOAD	V.A.	V.A.	V.A.	"A"	"B"	"C"			
180			FIT-18-87-1	1	20	1	2	20	FIT-18A-88-1	180								
	180		FIT-18-88-1	1	20	3	4	20	SPACE			180						
		360	AIT-18A-88-1, AIT-18-87-1	1	20	5	6	20	SPACE									
620			HEAT TRACE HT-1	2	20	7	8											
	620					9	10	15	3	BASIN AIR VALVE NO.4 FCV-17-81-4								
		420	RAS LEVEL DISPLAY	1	20	11	12											
						13	14											
			BASIN AIR VALVE NO.1 FCV-16A-414	3	15	15	16	15	3	BASIN AIR VALVE NO.4 FCV-16B-414								
						17	18											
			SODIUM HYDROXIDE HEAT TRACE	2	40	19	20	20	1	FLOW SPLITTER LIGHTS								
			ECP-17	1	20	21	22	20	1	FERRIC CHLORIDE HEAT TRACE								
			ACP-17A	1	20	23	24	20	1	BASIN A/B RECEPTACLES								
			BASIN C/D RECEPTACLES	1	20	25	26	20	1	FLOW SPLITTER RECEPTACLES								
			SPARE *	1	20	27	28	20	1	SPLIT HEAT TRACE								
			C/D LIGHTS	1	20	29	30	20	1	SPARE *								
			SPARE	1	20	31	32	20	1	EF-12-244-1								
			SPARE	1	20	33	34	20	1	RECEPTACLE RTO								
			SPARE	1	20	35	36	20	1	HEAT RTO								
			SPARE	1	20	37	38	20	1	HEAT TRACE RTO WATER LINE								
			RECEPTACLES SPLITTER BOX	1	20	39	40	-	1	SPACE								
			SPARE	1	20	41	42	-	1	SPACE								
800			TOTAL "A"							980			180					
	800		TOTAL "B"							980				180				
		780	TOTAL "C"							780					0			
										=					2740			

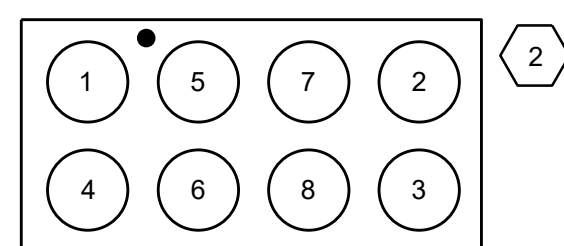
*THE FOLLOWING CIRCUIT BREAKERS ARE DESIGNATED AS INOPERABLE

LP-17-30B PANEL SCHEDULE

1

DUCT BANK SCHEDULE						
COND. NO.	SIZE	CIRCUIT NUMBER	CABLE	REMARKS	POWER	VOLTS
1	3"	VFD-2	3/C, #8 (AFD CABLE)	FROM VFD-18-87-1 TO FEED PUMP	POWER	480VAC
2	2"	VFD-1, APC-17B-9	6#14	FROM VFD-18-87-1 AND APC-17B TO TSH-18-87-1, MSH-18-87, AND PSH-18-87-1, LSHH-18A-421-1	COMMS	DISCRETE
3	3"	APC-17B-3, APC-17B-4, APC-17B-5, APC-17B-6, APC-17B-7, APC-17B-8	6-1PR#16S	FROM APC-17B TO AIT-18A-88-1, FIT-18-87-1, FIT-18A-88-1 PIT-18-88-0, LT-18-421, AIT-18-87-1	COMMS	ANALOG
4	2"	LP-17-30B-7, LP-17-30B-9, LP-17-30B-11	6#12, 3#12G	FROM LP-17-30B TO HT-1 AND RAS LEVEL DISPLAY	POWER	120VAC
5	2"	LP-17-30B-1, LP-17-30B-2, LP-17-30B-3	6#12, 3#12G	FROM LP-17-30B TO AIT-18A-88-1, FIT-18-87-1, FIT-18A-88-1	POWER	120VAC
6	3"	SPARE		TERMINATE CONDUIT WITHIN PB-A-P AND PB-B-P	SPARE	
7	2"	SPARE		TERMINATE CONDUIT WITHIN PB-A-I AND PB-B-I	SPARE	
8	2"	SPARE		TERMINATE CONDUIT WITHIN PB-A-C AND PB-B-C	SPARE	

DUCT BANK SCHEDULE



E-101, E-102, E-103

SWITCH DEVELOPMENTS

CONTACTS	POSITION		
	LOCAL	OFF	REMOTE
1-2	X		
3-4			X
5-6			X

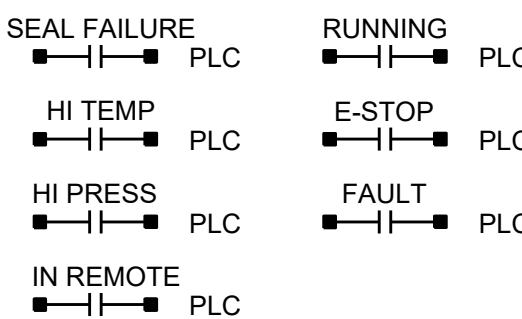
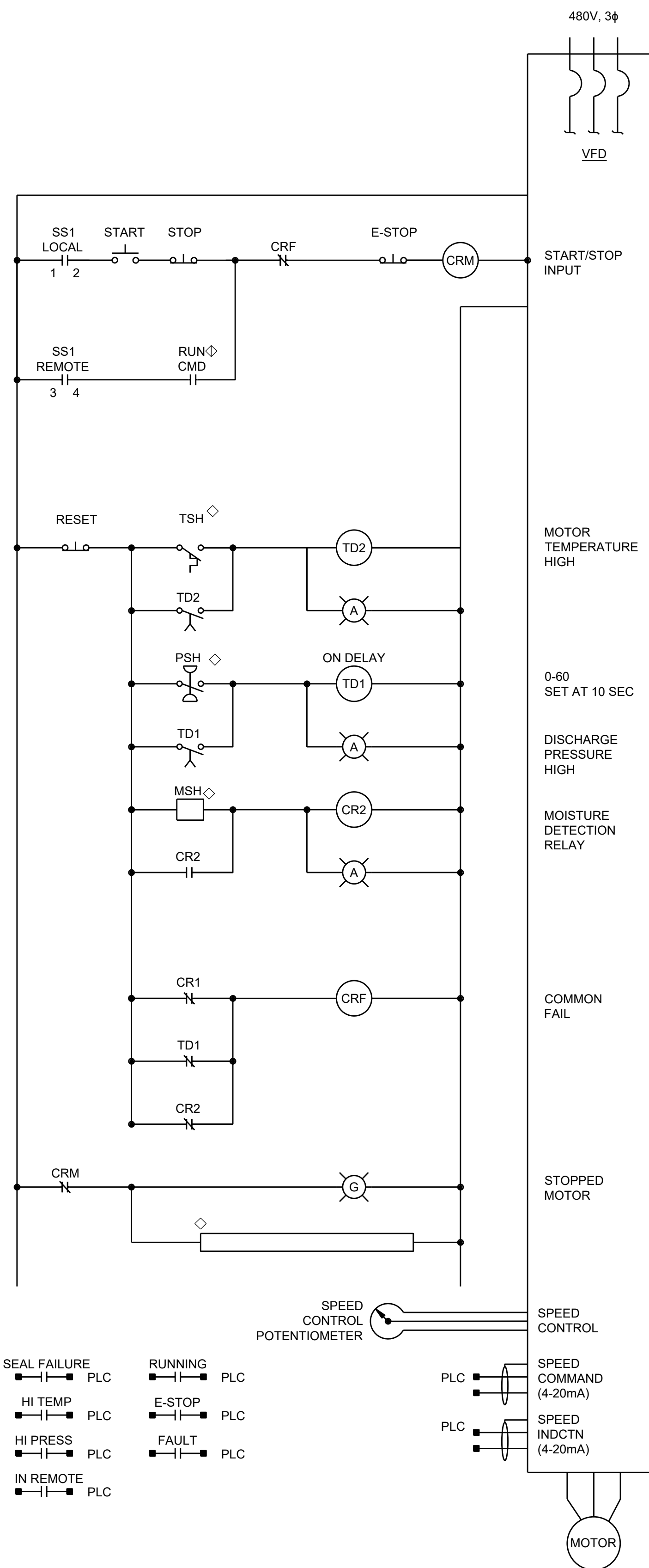
HYDROCLONE FEED PUMP AFD
VFD-18-87-1

BLOWER ROOM

DEVICE LOCATION LEGEND

◇ AT OR NEAR DRIVEN EQUIPMENT

◇ PLC



GENERAL NOTES

1. SEE DRAWINGS E-001 & E-002 FOR ELECTRICAL LEGENDS & ABBREVIATIONS AND NOTES.

SHEET KEYNOTES

1. THE TOTAL CONNECTED LOAD FOR THIS PANEL SCHEDULE IS UNKNOWN AND UNVERIFIED. PROVIDE A 30-DAY LOAD STUDY PER NEC 220.87 TO ENSURE THE PANEL HAS ADEQUATE CAPACITY FOR EXISTING AND NEW LOADS.
2. BOND DUCT BANK GROUND TO EXISTING GROUNDING RING.



Black & Veatch Corporation
Arlington, Virginia 22209



WATER POLLUTION CONTROL FACILITY
RAS/WAS PS IMPROVEMENTS
HYDROCYCLONES

FINAL DESIGN -
ISSUED FOR BID

REVISIONS AND RECORD OF ISSUE

DESIGNED:	DG
DETAILED:	DMF
CHECKED:	JSA
APPROVED:	JSA
DATE:	DECEMBER 2025
PROJECT NO.:	422278

RAS/WAS PUMP STATION

ELECTRICAL

SCHEDULES

E-901

22
OF
28