

## ADDENDUM NO. 1

**NOTICE is hereby given to prospective Bidders** of the following information, clarifications, and modifications to the Bidding Documents. The Bidding Documents remain unchanged except for modifications specifically indicated under Modifications. Bidders must acknowledge receipt of this Addendum in the Bid Form and comply with the requirements for submission of Bids as set forth in the Bidding Documents.

### **BIDDER QUESTIONS & CORRESPONDING RESPONSES**

**The answers below are provided in response to questions and comments submitted by prospective Bidders.**

1. *Question: Why is some of the conduit schedule shaded on E-03-100?*  
Answer: The shade in conduit schedule has been removed. Please see reissued sheet E-03-100.
2. *Question: There is no RFI form in the spec book. No. 00-63-15*  
Answer: This has been attached to Addendum 1.
3. *Question: Will tanks be able to be drained for measurement once project starts? Will both trains be available for measurement?*  
Answer: The oxidation ditches and clarifiers will be available one at a time, as required for measurements. This will require advanced coordination with PWD in accordance with the specifications.
4. *Question: Are the unit prices in the bid form meant to cover all concrete repairs?*  
Answer: Yes, the unit prices in the bid form shall cover all concrete repairs.
5. *Question: Will there be sludge remaining in the clarifier tanks that needs to be removed by the Contractor?*  
Answer: Contractor should anticipate the RAS pumps will not fully drain down clarifiers. Remaining water and sludge can be transferred to either an online clarifier or oxidation ditch by pump or vac truck.
6. *Question: Do all gates work for isolating yard piping?*  
Answer: Operator noted that the oxidation ditch launder gates will sometimes let through a little water when first closed but will stop leaking within a day or two. We are not aware of any other gates not sealing properly.
7. *Question: Is the cleaning of the oxidation ditch by Contractor intended to be covered with grit removal line item?*  
Answer: Yes, cleaning of the oxidation ditch is included in item 3 Grit Removal of Section 01 20 25 Measurements & Payments.

8. *Question: Will Portland Water District pay for the milestone payments for the equipment (e.g., the clarifier manufacturers will need a 50% payment to start manufacturing)?*  
Answer: Yes, PWD has paid similar milestones on previous projects.
9. *Question: In respect to surface aerators, are other manufacturers allowed except Ovivo?*  
Answer: Yes, specification Section 46 51 16, Part 2.10 lists the manufacturers.
10. *Is only one onsite office trailer necessary?*  
Answer: Yes, per specification section 01 50 00, Part 1.02 G, provide one onsite trailer for contractor use.
11. *Is there any leakage between the oxidation ditch trains?*  
Answer: No, there is no leakage between the oxidation ditch trains.
12. *Can the bid opening be extended by a couple of weeks?*  
Answer: The General Contractor Bid Due date has been extended to Thursday, April 9, 2026 by 12:00 PM.
13. *Related to Specification 46 43 21 Circular Clarifier Equipment*
- a. *Question: The specs are calling for a spiral blade design, but the drawings are showing a rake design. Please clarify.*  
Answer: Provide spiral rake as Specified and as noted on Mechanical drawings. Add General Note to sheets M-02-101 and M-02-401 “See Sheet M-02-301 and Specification for clarifier mechanism details.”
- b. *Question: The specifications for stainless steel clarifiers still mention field painting, is this intended?*  
Answer: As specified stainless steel shall not be painted.
- c. *Question: It appears that you are converting domed half bridge pier supported plow type clarifiers to full bridge supported spiral blade. Most of the drawings are of the existing half bridge. There are some elevations, but no dimensions. Things like how the bridge will land is one part that’s lacking detail; one drawing shows the half bridge set into the tank walls with the dome on top of the wall, but the full bridge drawing shows the bridge on top of the wall and no mention of the dome. Any additional information on these details would be welcomed.*  
Answer: Existing full bridge is supported from notches in exterior walls. Proposed mechanism shall be supported in the same way. See attached photos and images from record drawings showing pocket for bridge beams.
- d. *Question: Drawing M-02-301 shows a bridge supported clarifier and drawing M-02-401 shows a half bridge design. Which type is required?*  
Answer: Provide bridge-supported clarifier as Specified and as shown on M-02-301.

- e. *Question: With the dome, what sort of space do we have to fit equipment into the tank? The General Notes do mention the option for the contractor to remove the dome, or at least portions, for the demo and install work. Any additional information on these details would be welcomed.*  
Answer: Refer to original Clarifier Dome shop drawings attached. Reach out to CST with any additional questions. Contact info provided as part of this Addendum.
- f. *Question: The drive specification (2.05) is written for a pier supported half bridge spur gear drive but the drawings seem to suggest a bridge supported design that would require a different drive. Please clarify what is really required for this project.*  
Answer: Provide bridge supported drive. Drive shall meet Specified AGMA/ABMA requirements for torque and fatigue life.
- g. *Question: The drawing M-02-101 shows one clarifier rotating CW and the other CCW. We would suggest that they both turn in the same CW direction to allow of uniform parts for both units. Please advise if that is acceptable.*  
Answer: The rotational direction for the clarifiers shall remain as shown in drawings.
- h. *Question: The drive specification (2.05) seems to indicate that a direct drive primary mover is required. Our drives use a chain and sprocket arrangement between the primary mover and the worm gear that we have furnished previously on Woodard & Curran projects. Please advise if that is acceptable.*  
Answer: Chain and sprocket linkage between primary mover and worm gear is acceptable. Chain and sprockets shall comply with ASME B29.1M and specified AGMA requirements for torque and fatigue life. Provide weatherproof OSHA complaint guards.
- i. *Question: 2.06 & 2.07 do not indicate what the material of construction is required. We would recommend HDG steel for this application since it is difficult and expensive to provide these non-submerged bridges in SS as a lot of the other submerged equipment seems to be specified as being. Please advise if that is acceptable.*  
Answer: No, non-submerged bridges assembly shall all be in 316 SS.
- j. *Question: 2.09 (Rake arms) are specified as steel but the drive Shaft/Torque Tube, influent well, diffusion well, influent pipe, and the Trip/Flush arm are specified as 316 SS. We would advise to make these Rake arms also out of 316 SS. Please advise.*  
Answer: Yes, 2.09.A shall be revised to specify that the rake arms shall be 316 SS.

- k. *Question: 2.12 (Scum Skimming Arms) material of construction is not specified. We would advise to make these scum skimming arms also out of 316 SS. Please advise.*  
Answer: Per 2.04 A material of construction shall be 316 SS unless otherwise specified. The scum skimming arms material of construction shall be 316 SS.
- l. *Question: 2.13 (Scum trough) material of construction is not specified. We would advise to make this scum also out of 316 SS. Please advise.*  
Answer: Per 2.04 A material of construction shall be 316 SS unless otherwise specified.
- m. *Question: Specification describes the launders as 316 SS while the drawings shows as FRP launders. Please clarify.*  
Answer: Launders shall be 316 SS as specified.
14. *Question: Please advise if our following principals would be an accepted manufacturer for the associated specification sections listed below.*  
40 05 59 – Hydraulic Gates-Rodney Hunt  
43 21 41 – Submersible Centrifugal Chopper Pumps Trillium (Wemco)  
46 41 23 – Submersible Mixers-SFA Enviro (Aquaturbo Systems)  
46 43 21 – Circular Clarifier Equipment-Sentry - RWE & RSG  
46 51 16 – Vertical Shaft Mechanical Aerator-SFA Enviro (Aquaturbo Systems)  
Answer: All specification sections list Engineer Approved Equal for manufacturers and eligibility will be determined during submittal review.
15. *Question: Is the survey of the existing site structures to be included in the Test Pit unit price?*  
Answer: Yes, survey of existing above ground site structures is included under item 1 Mobilization of Section 01 20 25 Measurements & Payments.
16. *Question: Is the survey of the existing in-ground site structures to be included in the Test Pit unit price?*  
Answer: Yes, survey of existing in-ground site structures is included under item 13 Test Pits of Section 01 20 25 Measurements & Payments.
17. *Question: In what Bid Item is the resulting Existing Conditions Plan submittal to be included?*  
Answer: Resulting Existing Conditions Plan submittal is included under Item 1 Mobilization of Section 01 20 25 Measurements & Payments.
18. *Question: The plans reference two (2) access hatches at the new Scum Tank. I am only seeing one (1) indicated. Please clarify.*  
Answer: There will be one (1) access hatch at the new scum tank as shown in the hatch schedule on sheet M-99-901.

19. *Question: Contact email for dome removal vendor*  
Answer: The Dome Manufacturer contact information CST Industries, Inc., Julian Perez at [jperez@cstindustries.com](mailto:jperez@cstindustries.com) or Kelly Bergman [kbergman@cstindustries.com](mailto:kbergman@cstindustries.com).
20. *Question: With regards to Division 41 22 13: Which crane does the DCB-2 base go with? Oxy Ditch #2, Mixers 3 & 4 are not listed in the crane box.*  
Answer: The DCB-2 base goes with crane DC-1 for Mixer 3 and Mixer 4.
21. *Specification section 01 43 05 Qualification Requirements which would greatly limit qualified GC's from leading this project. Do these requirements supersede the Bidder Qualification Statement specification section 00 45 13 which is required to be submitted with our bid?*  
Answer: Specification section 01 43 05 is intended to be the requirements for the submittal of Section 00 45 13. These sections are intended to be used together. Please refer to section modifications below for updated requirements.

## **MODIFICATIONS**

**NOTICE is hereby given that the Bidding Documents have been modified as follows.**

Sections are modified as follows. Replacement pages are not being issued.

Section Modified	On Page(s)	Modification
00 11 16	00 11 16-1	Revised General Notice to “Sealed Bids for construction of the Project will be received at the Portland Water District located at 225 Douglas St., Portland, ME, 04102 until <b>Thursday, April 9, 2026</b> at 12:00 PM local time.  Revised General Notice to “The Project has to be completed by October 31, 2027.”
00 43 40	00 43 40-1	Revised Schedule to “Provide a proposed Project Schedule based on Notice to Proceed on approximately [DATE], a Substantial Completion by September 30, 2027 and final completion by October 31, 2027.
00 45 13	00 45 13-7	Revised Article 8, 8.04 to “List a minimum of one and a maximum of six projects completed in the last 5 years in Schedule B and provide indicated information to demonstrate the Business’ experience with projects similar in type and cost of construction.”
00 52 10	00 52 10-2	Revised Article 4, 4.02 to A. The Work shall be substantially complete by September 30, 2027, as provided in Paragraph 2.03 of the Standard General and Supplementary Conditions.

Section Modified	On Page(s)	Modification
		<ol style="list-style-type: none"> <li>1. Test pits shall be completed within the first 2 months after Notice to Proceed.</li> <li>2. Total on-site presence is limited to 9 months to minimize construction impacts to the Site.</li> <li>3. Contractor may divide the 9 months of on-site presence into no more than two separate periods.</li> <li>4. The Contractor is allowed a maximum of two draining/cleanings per tank.</li> </ol> <p>B. All Work complete except final paving and markings (Post Substantial Completion Punchlist) in accordance with Paragraph 14.07 of the Standard General and Supplementary Condition by September 30, 2027.</p>
01 43 05	01 43 05-1	Revised 1.02.C.1 to “At least 1 project involving construction of similar facilities in the same state as the Project covered by the Contract Documents within the last 10 years.”
46 51 16	46 51 16-7&8	Submerged radial impeller, velocity enhancer and associated wall adapter plate shall be optional and provided at the Manufacturer's discretion. These components are described in Subpart 2.05 Paragraphs D, E, and F and shown on drawing M-01-301 Section C.
M-01-101	M-01-101	Contractor shall install two davit crane mounts furnished by Owner on oxidation ditch deck in the vicinity of the surface aerations, including provision of concrete anchors. Mounts are for use of Owner for personnel entry into tanks. Provide two (2) three-foot removable rail sections per detail S501 on sheet S-99-950. Exact locations to be determined in field.

**Individual Drawings as identified below are reissued herewith**, have a revision Date of March 19, 2026 in the revision block with changes encircled in “clouds” and designated as “ADDENDUM 1”

Drawing No.	Drawing Title
E-00-101	Electrical Site Plan
E-03-100	Electrical Room Power Plan & Schedules & Callouts
E-04-901	Electrical Motor Wiring Diagrams

This Addendum and items listed above are provided to Bidders in Portable Document Format (.PDF) via the City’s purchasing website.

**Prepared and Issued by Woodard & Curran (Engineer) on behalf of Owner:**

Portland Water District  
225 Douglas St.  
Portland, ME 04102

ATTACHMENT A - RFI FORM (C-00 63 15)

**REQUEST FOR  
INTERPRETATION/INFORMATION  
(Form C-00 63 15)**

RFI #: \_\_\_\_\_  Attachment

To: \_\_\_\_\_

From: \_\_\_\_\_

Attn: \_\_\_\_\_

Issue Date: \_\_\_\_\_

Project: \_\_\_\_\_

Required Reply Date: \_\_\_\_\_

**DISTRIBUTION:**

Contractor

Owner

Engineer

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**REFERENCES:**

- Specifications: \_\_\_\_\_ Section: \_\_\_\_\_ Page/Paragraph: \_\_\_\_\_
- Drawings: \_\_\_\_\_ Issue Date: \_\_\_\_\_ Detail/Sections: \_\_\_\_\_
- Work Area: \_\_\_\_\_ Grid/Level: \_\_\_\_\_

**RFI DESCRIPTION:**

From: \_\_\_\_\_

Tel No: \_\_\_\_\_ Fax: No: \_\_\_\_\_

Initial: \_\_\_\_\_

E-mail: \_\_\_\_\_

**RFI REPLY:**

Possible Cost Effect Yes:

No:

Possible Schedule Effect Yes:

No:

From: \_\_\_\_\_

Reply Date: \_\_\_\_\_ xc: \_\_\_\_\_

Initial: \_\_\_\_\_

\_\_\_\_\_

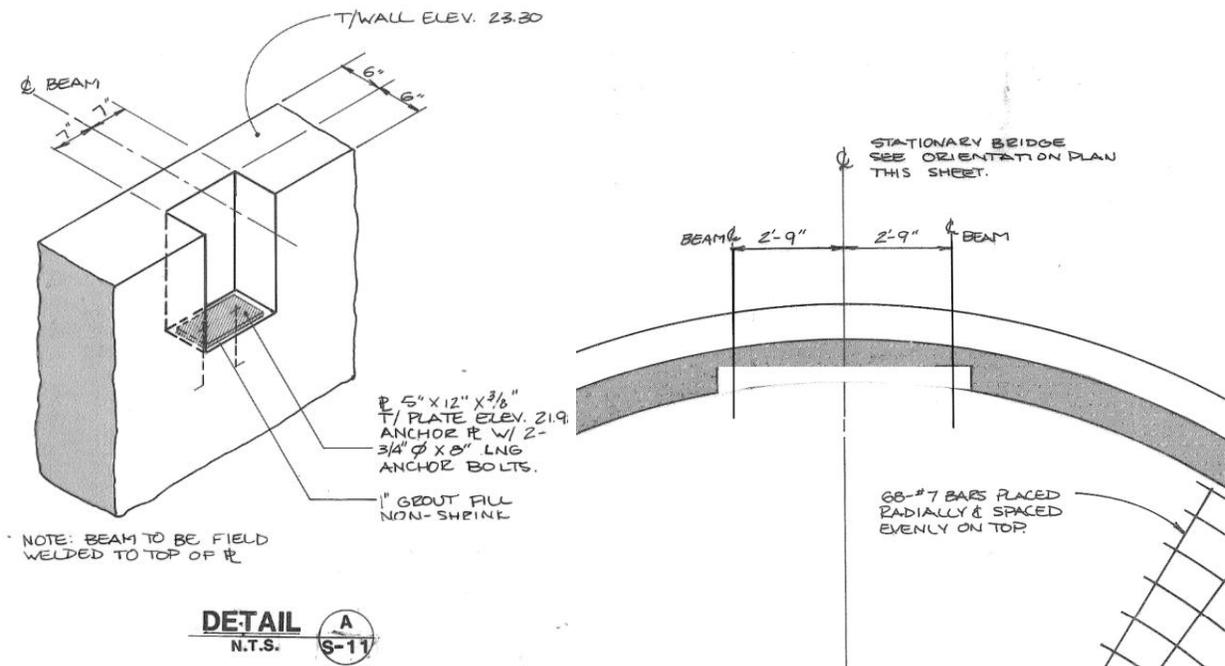
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**ATTACHMENT B - IMAGES & PHOTOS  
SHOWING POCKET FOR BRIDGES**

Photos for pocket for bridge beams



Images from record drawings for pocket for bridge beams.

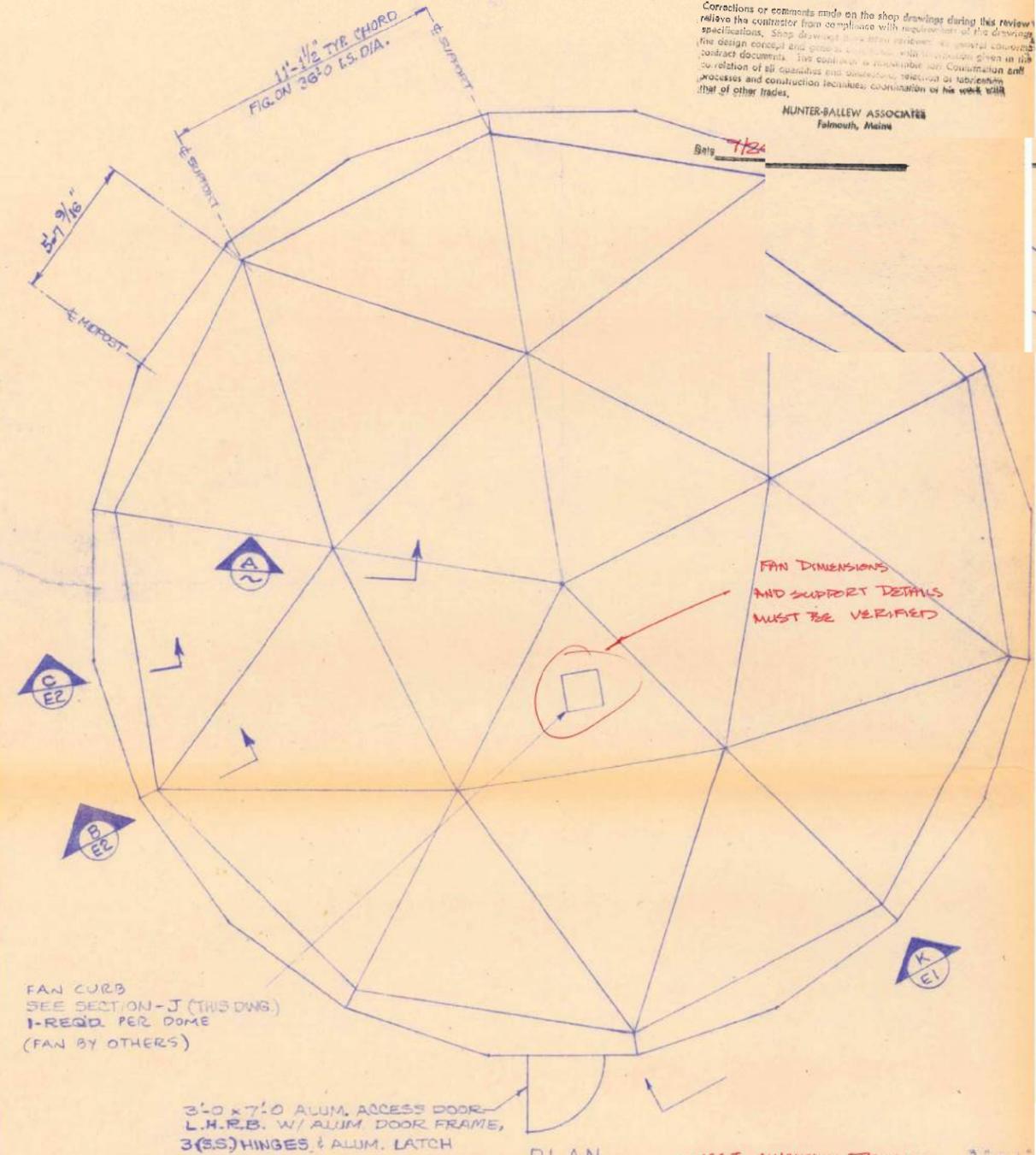


**ATTACHMENT C - CLARIFIER DOME  
SUBMITTAL**

Rejected  
 Revise and Resubmit  
 Furnish as corrected

Corrections or comments made on the shop drawings during this review relieve the contractor from compliance with requirements of the drawings specifications. Shop drawings are to be reviewed for general compliance with the design concept and specifications. The contractor is responsible for the relation of all quantities and dimensions, selection of fabrication processes and construction techniques, coordination of his work with that of other trades.

HUNTER-BALLEW ASSOCIATES  
 Falmouth, Maine



FAN DIMENSIONS  
 AND SUPPORT DETAILS  
 MUST BE VERIFIED

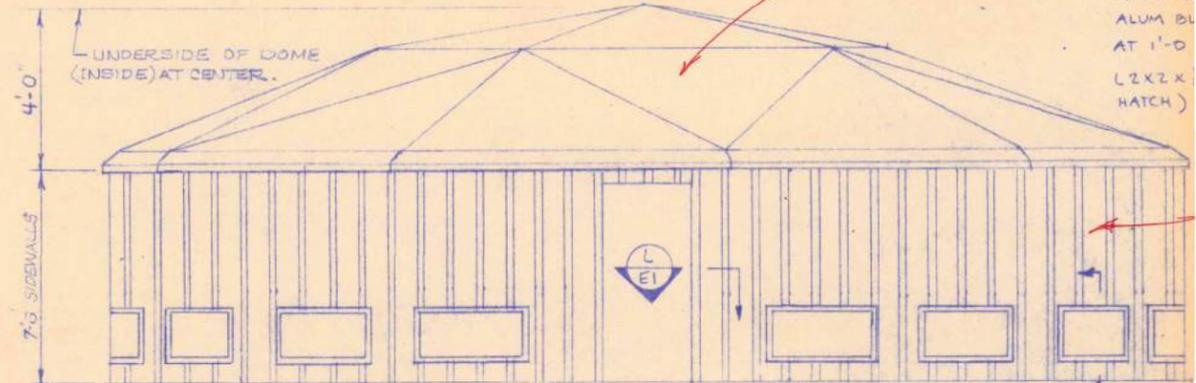
FAN CURB  
 SEE SECTION-J (THIS DWG.)  
 1-REQD. PER DOME  
 (FAN BY OTHERS)

3'-0 x 7'-0 ALUM. ACCESS DOOR  
 L.H.R.B. W/ ALUM. DOOR FRAME,  
 3(SS) HINGES & ALUM. LATCH

PLAN

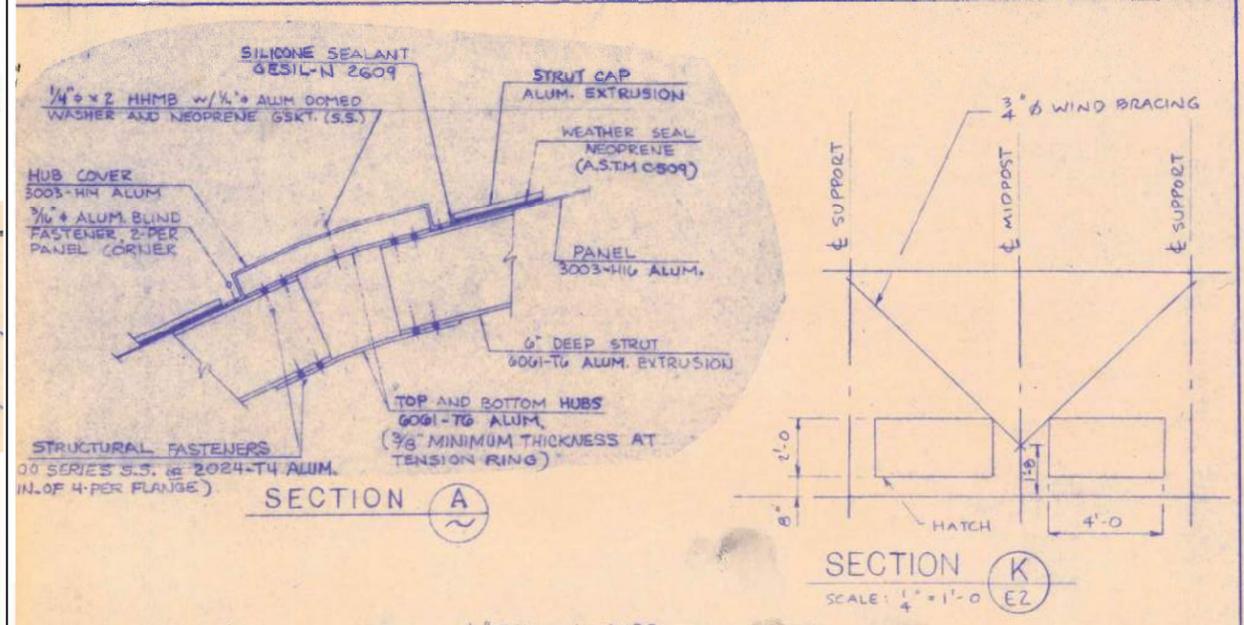
SHEET ALUMINUM PANELS  
 PLAN 3003-H16

3" x 1"  
 GASKET  
 ATTACHED  
 ALUM BL  
 AT 1'-0  
 (2 X 2 X  
 HATCH)

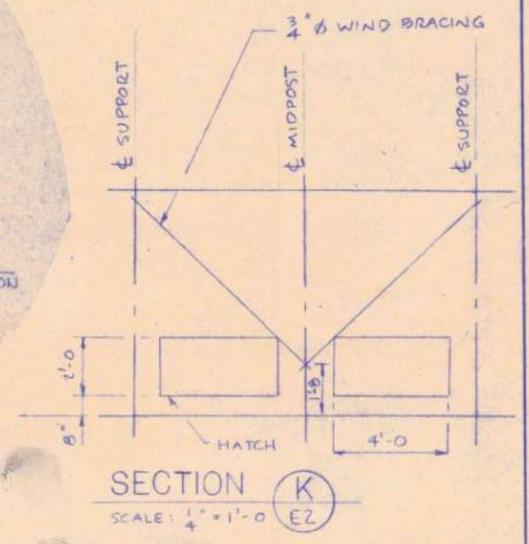


ELEVATION

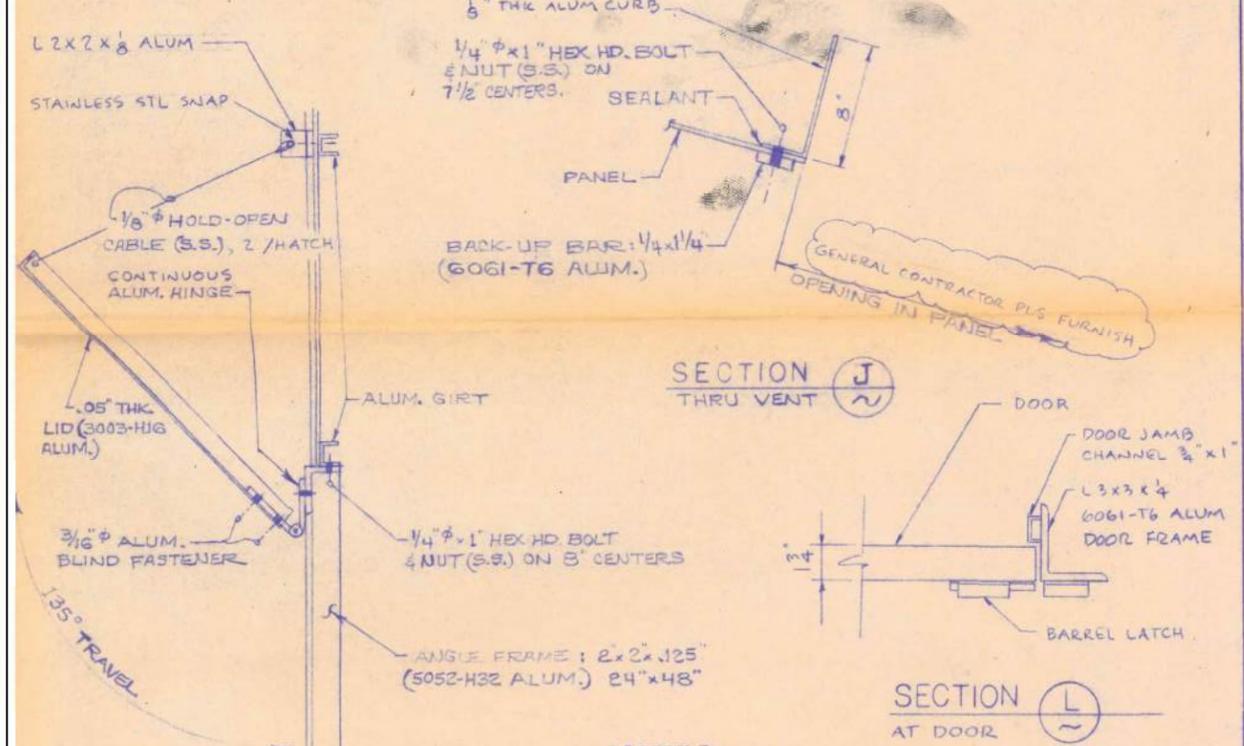
APPURTENANCES NOT SHOWN-FOR CLARITY



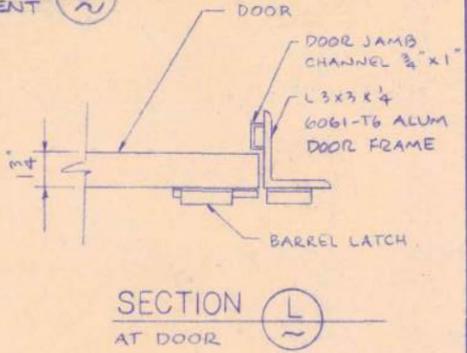
SECTION A



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



SECTION J  
THRU VENT

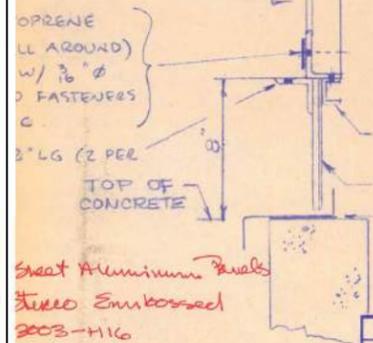


SECTION L  
AT DOOR

NOTES:

1. INSTALL ALUMADOMES ON SECONDARY CLARIFIERS
2. STORE ALL ALUMINUM SHEET MATERIAL SAFELY IN A VERTICAL POSITION, KEEP CLEAN, AND DRY AND FREE FROM STANDING WATER.

RECEIVED BY  
 HUNTER-BALLEW ASSOC.  
 ON  
 SEP 11 1986

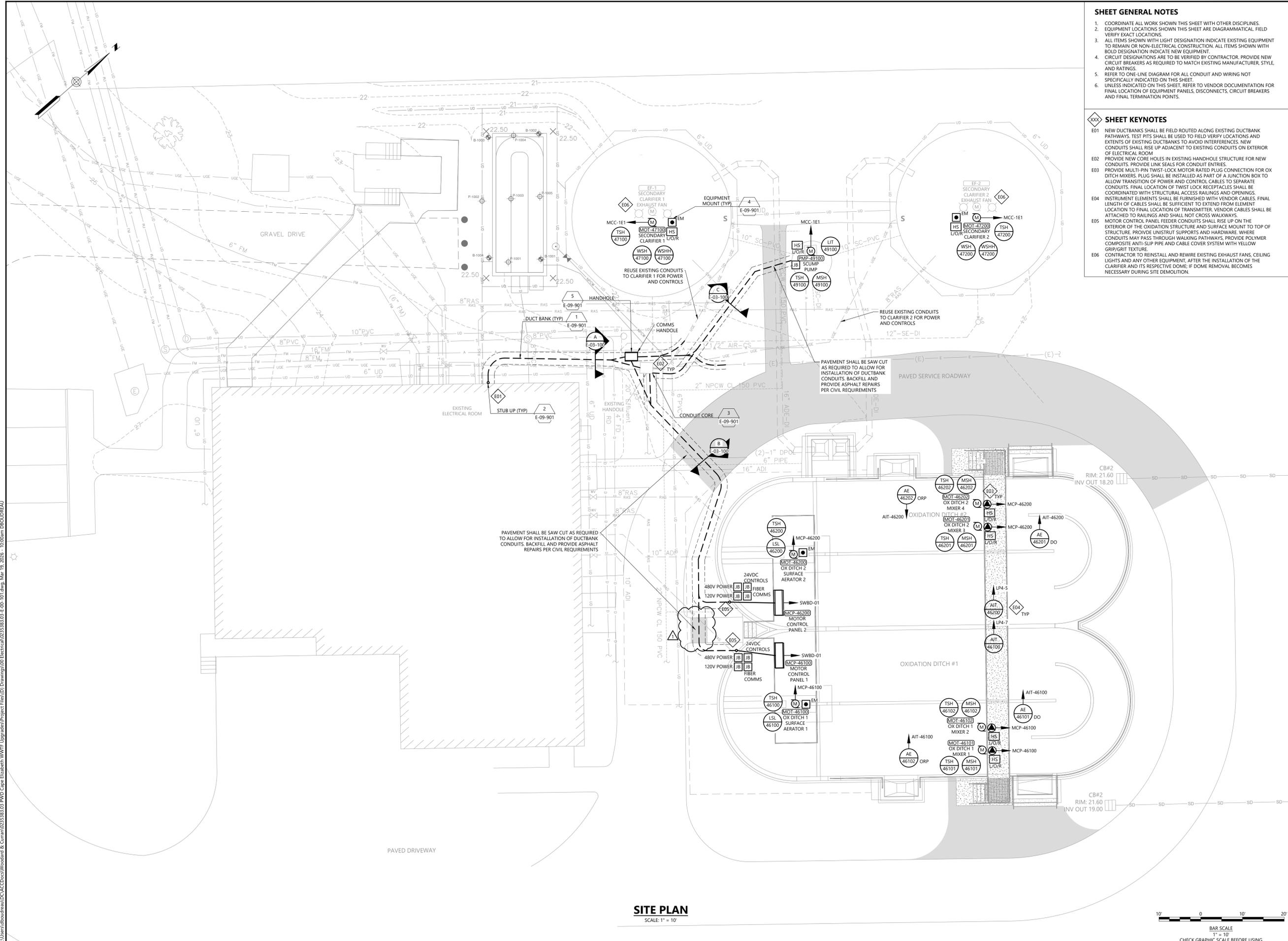


SECTION F  
19-LOCATIONS

CONSERVATEK			
NO.	1	GENERAL REV	9/2/86
BY	CHK'D BY	REVISION	DATE
ENG.			
CUST.		8-PRINTS	9/2/86
SHOP			
FIELD			
DRAWING ISSUED TO		DATE	
DWN. BY	CHK'D BY	DATE	SCALE
MF	JRL	7-3-86	N.T.S.
DWG. NO.	REV.	CONTRACT NO.	
E1	1	56061-62	



# ATTACHMENT D - REISSUED DRAWINGS



**SHEET GENERAL NOTES**

- COORDINATE ALL WORK SHOWN THIS SHEET WITH OTHER DISCIPLINES.
- EQUIPMENT LOCATIONS SHOWN THIS SHEET ARE DIAGRAMMATICAL. FIELD VERIFY EXACT LOCATIONS.
- ALL ITEMS SHOWN WITH LIGHT DESIGNATION INDICATE EXISTING EQUIPMENT TO REMAIN OR NON-ELECTRICAL CONSTRUCTION. ALL ITEMS SHOWN WITH BOLD DESIGNATION INDICATE NEW EQUIPMENT.
- CIRCUIT DESIGNATIONS ARE TO BE VERIFIED BY CONTRACTOR. PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED TO MATCH EXISTING MANUFACTURER, STYLE, AND RATINGS.
- REFER TO ONE-LINE DIAGRAM FOR ALL CONDUIT AND WIRING NOT SPECIFICALLY INDICATED ON THIS SHEET.
- UNLESS INDICATED ON THIS SHEET, REFER TO VENDOR DOCUMENTATION FOR FINAL LOCATION OF EQUIPMENT PANELS, DISCONNECTS, CIRCUIT BREAKERS AND FINAL TERMINATION POINTS.

**XXX SHEET KEYNOTES**

- NEW DUCTBANKS SHALL BE FIELD ROUTED ALONG EXISTING DUCTBANK PATHWAYS. TEST PITS SHALL BE USED TO FIELD VERIFY LOCATIONS AND EXTENTS OF EXISTING DUCTBANKS TO AVOID INTERFERENCES. NEW CONDUITS SHALL RISE UP ADJACENT TO EXISTING CONDUITS ON EXTERIOR OF ELECTRICAL ROOM.
- PROVIDE NEW CORE HOLES IN EXISTING HANDHOLE STRUCTURE FOR NEW CONDUITS. PROVIDE LINK SEALS FOR CONDUIT ENTRIES.
- PROVIDE MULTI-PIN TWIST-LOCK MOTOR RATED PLUG CONNECTION FOR OX DITCH MIXERS. PLUG SHALL BE INSTALLED AS PART OF A JUNCTION BOX TO ALLOW TRANSITION OF POWER AND CONTROL CABLES TO SEPARATE CONDUITS. FINAL LOCATION OF TWIST LOCK RECEPTACLES SHALL BE COORDINATED WITH STRUCTURAL ACCESS RAILINGS AND OPENINGS.
- INSTRUMENT ELEMENTS SHALL BE FURNISHED WITH VENDOR CABLES. FINAL LENGTH OF CABLES SHALL BE SUFFICIENT TO EXTEND FROM ELEMENT LOCATION TO FINAL LOCATION OF TRANSMITTER. VENDOR CABLES SHALL BE ATTACHED TO RAILINGS AND SHALL NOT CROSS WALKWAYS.
- MOTOR CONTROL PANEL FEEDER CONDUITS SHALL RISE UP ON THE EXTERIOR OF THE OXIDATION STRUCTURE AND SURFACE MOUNT TO TOP OF STRUCTURE. PROVIDE UNISTRUT SUPPORTS AND HARDWARE WHERE CONDUITS MAY PASS THROUGH WALKING PATHWAYS. PROVIDE POLYMER COMPOSITE ANTI-SLIP PIPE AND CABLE COVER SYSTEM WITH YELLOW GRIP/GRIT TEXTURE.
- CONTRACTOR TO REINSTALL AND REWIRE EXISTING EXHAUST FANS, CEILING LIGHTS AND ANY OTHER EQUIPMENT. AFTER THE INSTALLATION OF THE CLARIFIER AND ITS RESPECTIVE DOME, IF DOME REMOVAL BECOMES NECESSARY DURING SITE DEMOLITION.

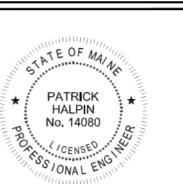


12 Mountfort Street  
Portland, Maine 04101  
800.426.4262 | www.woodardcurran.com

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From Sebago Lake to Casco Bay



**ISSUED FOR BID**

CLIENT INFO:  
PORTLAND WATER DISTRICT  
225 DOUGLASS STREET  
PORTLAND, MAINE 04104

**CAPE ELIZABETH WWTF UPGRADES**

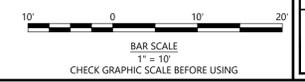
REV	MM/DD/YY	DESCRIPTION
1	03/19/2026	ADDENDUM 1

JOB NO: 0235383.03  
DATE: MARCH 2026  
SCALE: AS NOTED  
DESIGNED BY: DAS  
DRAWN BY: DAS  
CHECKED BY: PFH  
FILENAME: 0235383.03-E-00-101.dwg

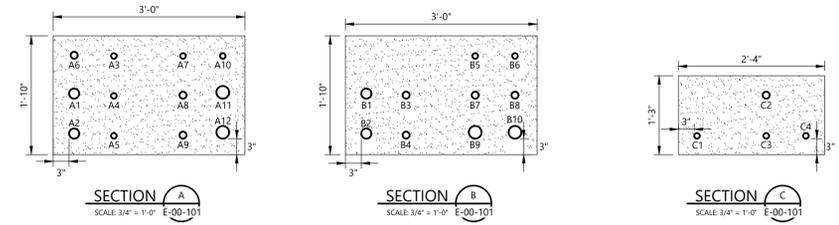
**ELECTRICAL SITE PLAN**

DRAWING NO:  
**E-00-101**

**SITE PLAN**  
SCALE: 1" = 10'



C:\Users\jdboudeau\OneDrive\Work\Projects\Cape Elizabeth WWTF Upgrades\Project Files\ID Drawings\0235383.03-E-00-101.dwg, Mar 19, 2026 - 10:00am, DBOLDUREAU

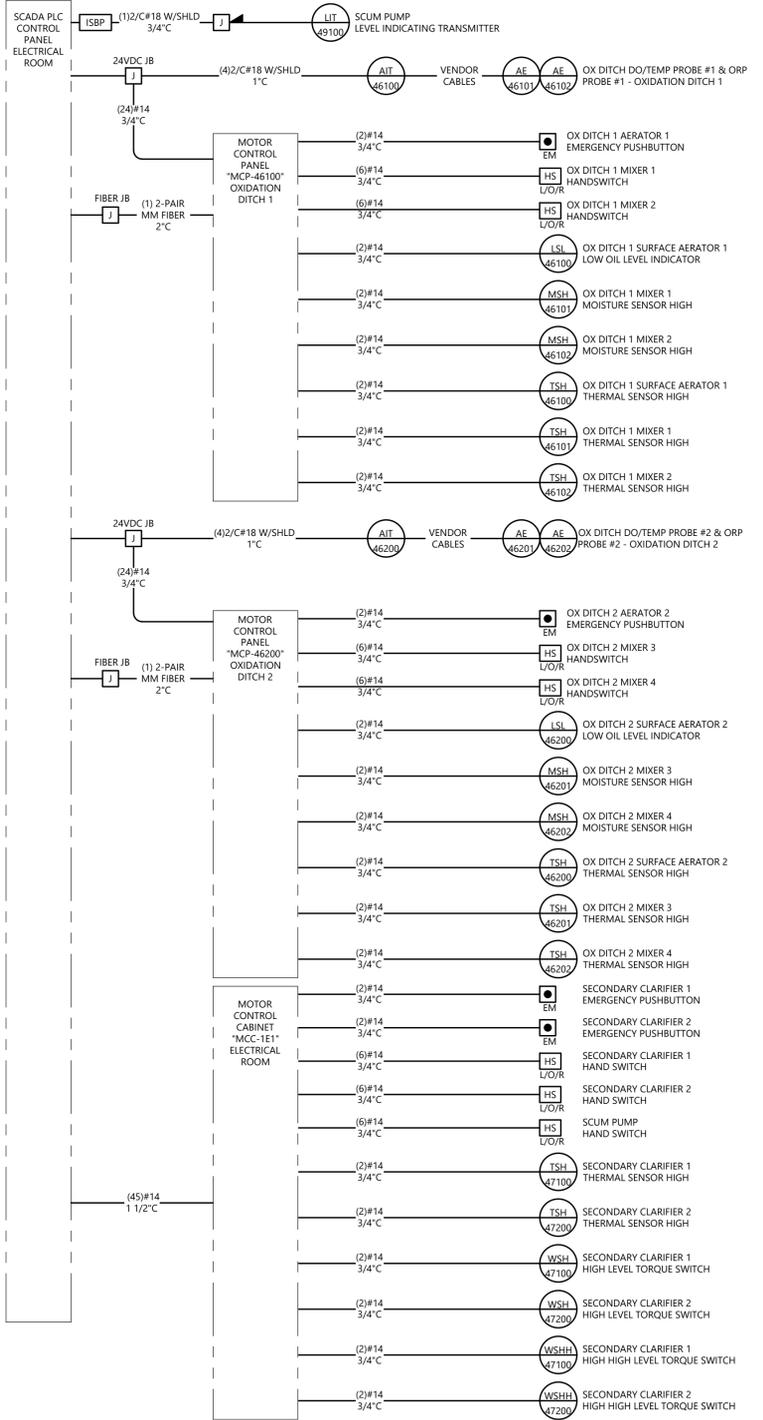


**SECTION CALL-OUTS**  
SCALE: N.T.S.

- SHEET GENERAL NOTES**
- COORDINATE ALL WORK SHOWN THIS SHEET WITH OTHER DISCIPLINES.
  - EQUIPMENT LOCATIONS SHOWN THIS SHEET ARE DIAGRAMMATICAL. FIELD VERIFY EXACT LOCATIONS.
  - ALL ITEMS SHOWN WITH LIGHT DESIGNATION INDICATE EXISTING EQUIPMENT TO REMAIN OR NON-ELECTRICAL CONSTRUCTION. ALL ITEMS SHOWN WITH BOLD DESIGNATION INDICATE NEW EQUIPMENT.
  - CIRCUIT DESIGNATIONS TO BE VERIFIED BY CONTRACTOR.
  - REFER TO ONE-LINE DIAGRAM FOR ALL CONDUIT AND WIRING NOT SPECIFICALLY INDICATED ON THIS SHEET.
  - UNLESS INDICATED ON THIS SHEET, REFER TO VENDOR DOCUMENTATION FOR FINAL LOCATION OF EQUIPMENT PANELS, DISCONNECTS, CIRCUIT BREAKERS AND FINAL TERMINATION POINTS.
  - REFER TO HOYLE, TANNER ASSOCIATES INC PWD CAPE FACILITY UV DISINFECTION SYSTEM UPGRADES, 2019 FOR COMPLETE RECORD DRAWING INFORMATION.

- SHEET KEYNOTES**
- E01** CONDUITS SHALL PENETRATE THE EXISTING WALL ABOVE THE EXISTING SWITCHBOARD & MCC. CONTRACTOR SHALL FOLLOW EXISTING RUNWAYS FOR NEW CONDUIT PATHS. REFER TO SCHEDULES, RISERS AND ONE-LINES FOR APPROPRIATE QUANTITY OF CONDUITS.

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**RISER DIAGRAM**  
SCALE: N.T.S.

**CONDUIT SCHEDULE**

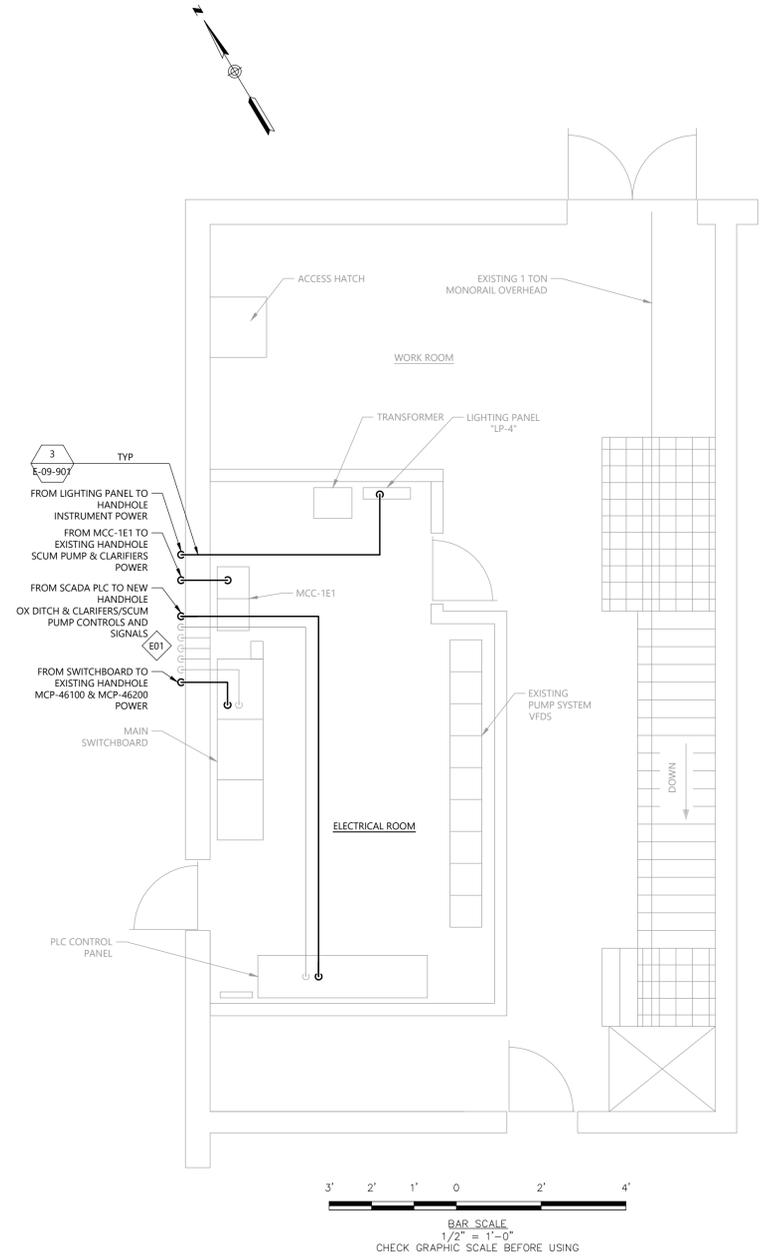
CONDUIT	USE	SIZE	FROM	TO	DESCRIPTION	NOTES
A1	POWER	1 1/2"	SWITCHBOARD	EXISTING HANDHOLE	MOTOR CONTROL PANEL 1 POWER	480V POWER
A2	POWER	1 1/2"	SWITCHBOARD	EXISTING HANDHOLE	MOTOR CONTROL PANEL 2 POWER	480V POWER
A3	POWER	3/4"	MCC-1E1	EXISTING HANDHOLE	SCUM PUMP MOTOR POWER	480V POWER
A4	POWER	3/4"	MCC-1E1	EXISTING HANDHOLE	CLARIFIER #1 MOTOR POWER	480V POWER
A5	POWER	3/4"	MCC-1E1	EXISTING HANDHOLE	CLARIFIER #2 MOTOR POWER	480V POWER
A6	POWER	1"	LIGHTING PANEL LP	EXISTING HANDHOLE	OX DITCH 1 & 2 INSTRUMENTS	120V POWER
A7	CONTROLS	3/4"	MCC-1E1	NEW HANDHOLE	SCUM PUMP MOTOR CONTROLS	24VDC
A8	CONTROLS	1"	MCC-1E1	NEW HANDHOLE	SCUM PUMP & CLARIFIER MOTOR CONTROLS	120VAC
A9	CONTROLS	1"	PLANT PLC	NEW HANDHOLE	OX DITCH 1 & 2 CONTROLS	24VDC
A10	SIGNALS	3/4"	PLANT PLC (ISB)	NEW HANDHOLE	SCUM PUMP INSTRUMENTS	24VDC (INTRINSICALLY SAFE)
A11	SIGNALS	2"	PLANT PLC	NEW HANDHOLE	OX DITCH 1 & 2 INSTRUMENTS	24VDC
A12	FIBER	2"	PLANT PLC	NEW HANDHOLE	MOTOR CONTROL PANEL 1 & 2 COMMS	FIBER OPTICS
B1	POWER	1 1/2"	EXISTING HANDHOLE	MCP-46100	MOTOR CONTROL PANEL 1 POWER	480V POWER
B2	POWER	1 1/2"	EXISTING HANDHOLE	MCP-46200	MOTOR CONTROL PANEL 2 POWER	480V POWER
B3	POWER	1"	EXISTING HANDHOLE	AIT-46100	OX DITCH 1 INSTRUMENTS	120V POWER
B4	POWER	1"	EXISTING HANDHOLE	AIT-46200	OX DITCH 2 INSTRUMENTS	120V POWER
B5	CONTROLS	3/4"	NEW HANDHOLE	MCP-46100	OX DITCH 1 MOTOR CONTROLS	24VDC
B6	CONTROLS	3/4"	NEW HANDHOLE	MCP-46200	OX DITCH 2 MOTOR CONTROLS	24VDC
B7	SIGNALS	1"	NEW HANDHOLE	AIT-46100	OX DITCH 1 INSTRUMENTS	24VDC
B8	SIGNALS	1"	NEW HANDHOLE	AIT-46200	OX DITCH 2 INSTRUMENTS	24VDC
B9	FIBER	2"	NEW HANDHOLE	MCP-46100	MOTOR CONTROL PANEL 1 COMMS	FIBER OPTICS
B10	FIBER	2"	NEW HANDHOLE	MCP-46200	MOTOR CONTROL PANEL 2 COMMS	FIBER OPTICS
C1	POWER	3/4"	EXISTING HANDHOLE	PMP-49100	SCUM PUMP MOTOR POWER	480V POWER
C2	CONTROLS	3/4"	NEW HANDHOLE	PMP-49100	SCUM PUMP MOTOR CONTROLS	24VDC
C3	CONTROLS	3/4"	NEW HANDHOLE	PMP-49100	SCUM PUMP MOTOR CONTROLS	120VAC
C4	SIGNALS	3/4"	NEW HANDHOLE	PMP-49100	SCUM PUMP INSTRUMENTS	24VDC (INTRINSICALLY SAFE)

**CONDUIT SCHEDULE**  
SCALE: N.T.S.

**LIGHTING PANEL "LP-4" SCHEDULE**

DIRECTORY	BRKR	POLE	CKT #	KVA	KVA LOADS			KVA	CKT #	POLE	BRKR	DIRECTORY	
					A	B	C						
Lights-Elec. Rm. & Closet	20	1	1	0.64	1.00		0.36	2	1	20	Receipt-Elec. Rm.		
Lights-Work Rm.	20	1	3	0.72		1.26	0.54	4	1	20	Receipt-Work Rm. & Bench		
AIT-46100	30	1	5	0.20			1.50	6	1	20	Unknown		
AIT-46200	30	1	7	0.20	0.74		0.54	8	1	20	Sodium Bicarbonate Peeler		
Spare	30	1	9	0.00		0.00	0.00	10	1	20	Spare		
Receipt Near Poly-1	20	1	11	0.18			0.68	12	1	20	Generator Battery Charger		
Spare	60	2	13		0.00		0.00	14	1	20	Spare		
			15	0.00		0.00	0.00	16	1	20	Spare		
Receipt-Condensing Unit	20	1	17	0.18			0.72	18	2	20	Elec. Rm. Condensing Unit		
Spare	20	1	19	0.00		0.00		20					
Spare	20	1	21	0.00		0.75	0.75	22	2	40	Generator Block heater		
Spare	20	1	23	0.00		0.00		24					
Spare	15	2	25		0.00		0.00	26	1	20	Spare		
Spare			27	0.00	0.00		0.00	28	1	30	Spare		
Spare	20	1	29	0.00		1.50	1.50	30	1	20	Unknown		
Spare	20	1	31	0.00	0.51		0.51	32	1	20	HWC Pump		
Spare	20	1	33	0.00		0.18	0.18	34	1	20	AHU-201 Outlet		
Spare	20	1	35	0.00		0.00	0.00	36	1	20	Spare		
Spare	20	1	37	0.00	0.00		0.00	38	1	20	Spare		
Spare	20	1	39	0.00		0.00	0.00	40	1	20	Spare		
Spare	30	1	41	0.00		0.00	0.00	42	1	20	Spare		
SUBTOTAL				2.25	2.19	4.60	SUBTOTAL						
VOLTAGE:				120/208	TOTAL KVA			9.04	PANEL NAME				LP-4
MAIN BREAKER:				100	TOTAL AMPS			25	LOCATION:				
BUSES:									MOUNTING:				SURFACE
PH & WIRES:				3PH 4W					AIC RATING:				10 KAIC
NOTES:													

**LIGHTING PANEL "LP-4" SCHEDULE**  
SCALE: N.T.S.



**ELECTRICAL ROOM POWER PLAN**  
SCALE: 1/2" = 1'-0"

STATE OF MAINE  
PATRICK HALPIN  
No. 14080  
LICENSED PROFESSIONAL ENGINEER

**ISSUED FOR BID**

CLIENT INFO:  
PORTLAND WATER DISTRICT  
225 DOUGLASS STREET  
PORTLAND, MAINE 04104

CAPE ELIZABETH WWTF UPGRADES

1 03/19/2026 ADDENDUM 1

REV. MM/DD/YY DESCRIPTION

JOB NO: 0235383.03  
DATE: MARCH 2026  
SCALE: AS NOTED  
DESIGNED BY: DAS  
DRAWN BY: DAS  
CHECKED BY: PPH  
FILENAME: 0235383.03-E-03-100.dwg

DRAWING TITLE:  
**ELECTRICAL  
ELECTRICAL ROOM  
POWER PLAN  
SCHEDULES &  
CALLOUTS**

DRAWING NO:  
**E-03-100**

C:\Users\jdboudeau\OneDrive\Woodard & Curran\0235383.03 PWD Cape Elizabeth WWTF Upgrades\Project Files\03 Drawings\03 Electrical\0235383.03-E-03-100.dwg, Mar 19, 2026, 10:00am, DBOUDEAU



**Woodard & Curran**

12 Mountfort Street  
Portland, Maine 04101  
800.426.4262 | www.woodardcurran.com

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**Portland Water District**

From Sebago Lake to Casco Bay

REFER TO I-02-2XX SERIES DRAWINGS  
FOR MOTOR WIRING DIAGRAMS

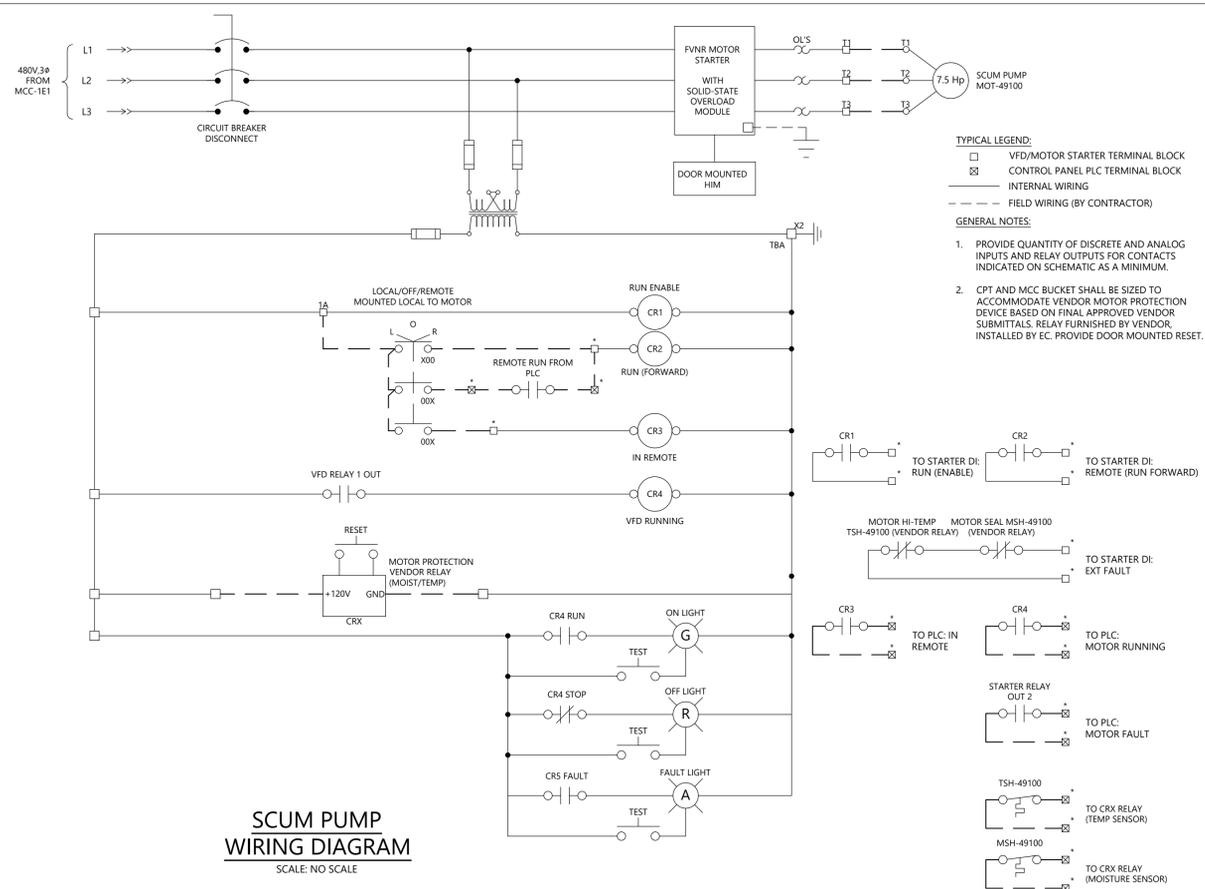
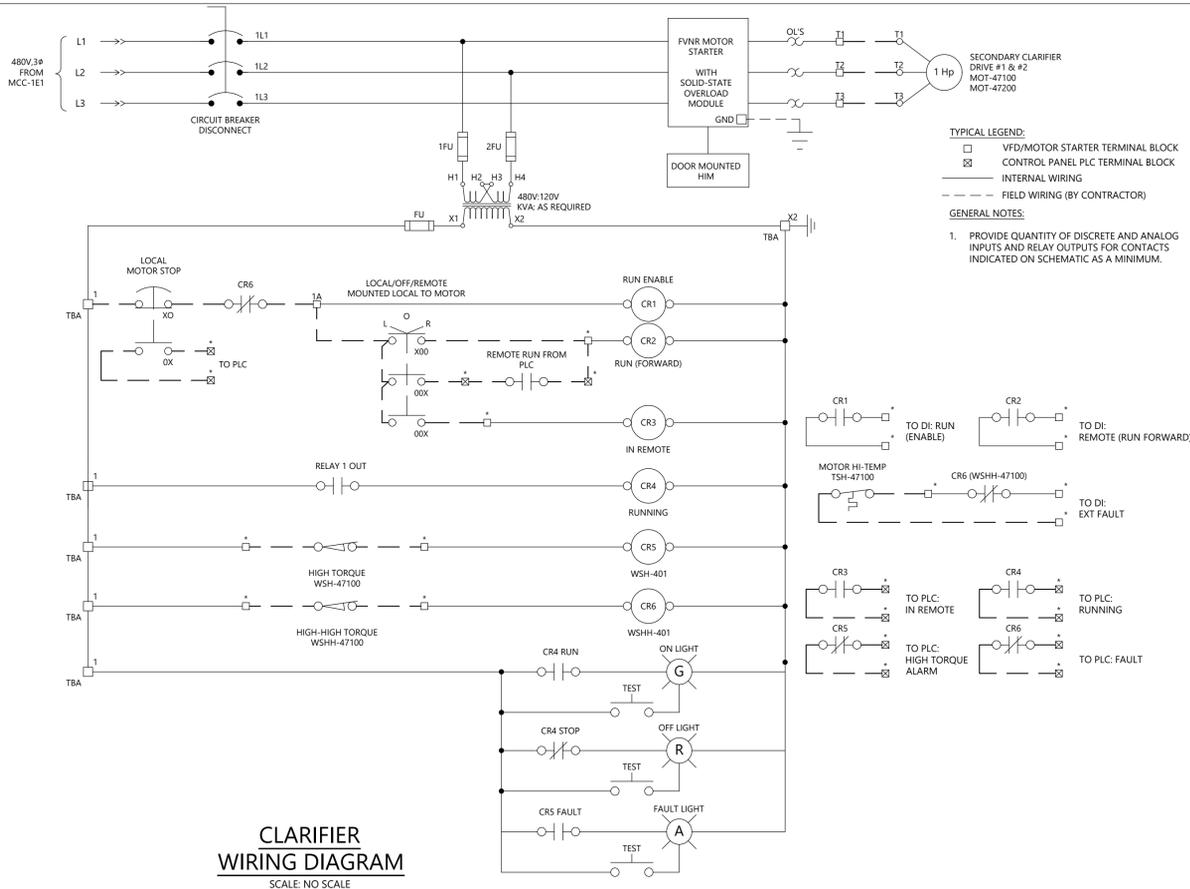
**SURFACE AERATOR  
TYPICAL WIRING DIAGRAM**

SCALE: NO SCALE

REFER TO I-02-2XX SERIES DRAWINGS  
FOR MOTOR WIRING DIAGRAMS

**OX DITCH MIXER  
TYPICAL WIRING DIAGRAM**

SCALE: NO SCALE



PE SEAL:



ISSUED FOR BID

CLIENT INFO:  
PORTLAND WATER DISTRICT  
225 DOUGLASS STREET  
PORTLAND, MAINE 04104

CAPE ELIZABETH WWTF  
UPGRADES

REV	MM/DD/YY	DESCRIPTION
1	03/19/2026	ADDENDUM 1

JOB NO: 0235383.03  
 DATE: MARCH 2026  
 SCALE: AS NOTED  
 DESIGNED BY: DAS  
 DRAWN BY: DAS  
 CHECKED BY: PFH  
 FILENAME: 0235383.03-E-04-901.dwg

**ELECTRICAL  
MOTOR WIRING DIAGRAMS**

DRAWING NO:  
**E-04-901**

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