



**ADDENDUM NO. 4
TO THE
CONTRACT DOCUMENTS**

FOR

**BRACKISH WATER DESALINATION PROJECT
P.W. 694**

ISSUED

November 10, 2020

Bidders shall acknowledge receipt of this Addendum and all other Addenda issued by the City in Article II of the Bid Form, Section 00400. A Bid may be deemed non-responsive if receipt of all Addenda issued by the City are not acknowledged.

SEE ATTACHED ADDENDUM ITEMS

Approved By: _____

Scott Buenting, P.E.



ADDENDUM NO. 4
Brackish Water Desalination Project
PW 694

Issued November 10, 2020

1. Section 00400, Bid Forms:

- a. In the Table of Contents following “All Bidders Must Submit with Bid:”, Replace the listing of certifications with the following:

“The Bidder shall complete all parts of, and submit with its Bid, the following attachments:

Attachment A	Bidder’s Bond (if this is the Bidder’s chosen Bid Security)
Attachment B	Non-Collusion Declaration.
Attachment C	Designation of Subcontractors.
Attachment D	Iran Contracting Act Certification .
Attachment D-1	Anti-Lobbying Certification.
Attachment E	Schedule of Major Equipment and Material Suppliers.
Attachment F	SWRCB Form 4500-3 DBE Subcontractor Performance Form.
Attachment G	SWRCB Form 4500-4 DBE Subcontractor Utilization Form.
Attachment G-1	DBE Good Faith Efforts Verification.
Attachment H	Consolidated Appropriations Act Buy American Iron and Steel Certification.
Attachment I	Certification of Bidder’s Experience and Qualifications. (Excluding Part C)
Attachment J	Certification of Electrical Subcontractor’s Experience and Qualifications.
Attachment K	Certification of Off Plant Site Pipeline Subcontractor’s Experience and Qualifications.
Attachment L	Certification of Marine Subcontractor’s Experience and Qualifications.
Attachment M	Certification of System Integrator Experience and Qualifications.

Complete or have each of your subcontractors complete the above DBE Program and Buy American Iron and Steel forms as required by the SWRCB CWSRF Program and submit with the Bid.

The three lowest monetary Bidders must submit the following Attachments within four (4) business days following the opening of the Bids:

In addition, the following attachment requires submittal within four (4) business days following the opening of Bids:

Attachment I Part C- Financial Information.

Attachment M	Certification of System Integrator Experience and Qualifications.
Attachment N	DBE Contractor Subcontractor Certification.
Attachment O	DBE Selected by Prime Contractor.
Attachment P	Buy American Iron and Steel Designation of Equipment or Material Manufacturers.”

- b. Replace Article VIII with the following:

“The Bidder shall complete all parts of, and submit with its Bid, the following attachments:

Attachment A	Bidder’s Bond (if this is the Bidder’s chosen Bid Security) .
Attachment B	Non-Collusion Declaration.
Attachment C	Designation of Subcontractors.
Attachment D	Iran Contracting Act Certification .
Attachment D-1	Anti-Lobbying Certification.
Attachment E	Schedule of Major Equipment and Material Suppliers.
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In addition, the following attachment requires submittal within four (4) business days following the opening of Bids:

Attachment I	Part C- Financial Information.
Attachment M	Certification of System Integrator Experience and Qualifications.
Attachment N	DBE Contractor Subcontractor Certification.
Attachment O	DBE Selected by Prime Contractor.
Attachment P	Buy American Iron and Steel Designation of Equipment or Material Manufacturers.

1. Add the following new specification sections to the bid documents:
 - a. 11221 – Flash and Rapid Mixing Equipment.
2. Section 01354, Hazardous Materials Procedures:
 - a. Change the title of paragraph 1.04 G as follows:

“G. Hazardous Materials Survey To Be Conducted Prior to Performing Demolition Work at the Existing River PS Building and Water Treatment Plant Maintenance Building”
3. Section 01573, Erosion and Sediment Control:
 - a. Delete paragraph 1.02 UNIT PRICES in its entirety.

4. Section 01734, Work within Public Right-of-Way:
 - a. Paragraph 1.03.B.5., add to end
“a. Two 10-foot lanes will be allowed for work near Sta 168+00 for portion of alignment where 12-foot lanes aren’t possible. Contractor to provide “narrow road ahead” warning signs and provide speed reducing measures.”
5. Section 01757, Disinfection:
 - a. Modify the first sentence of paragraph 3.02A as follows:
“.... of the filters, **sedimentation basins, inlet pipes to sedimentation basins, settled water channels, 24” filtered water pipe after lining,**”
 - b. Add the following at the end of paragraph 3.02B:
“.. including the entire Plant A Clearwell.”
6. Section 02241, Dewatering:
 - a. Modify the third sentence of paragraph 1.01A as follows:
“Dewatering wells will not be used at the **River Pump Station site** on this project
7. Section 03301, Concrete Work:
 - a. Add to end of 2.04.B.4., “f. For electrical conduit encasement, add 5 lbs/cy of red oxide coloring agent.
8. Section 09968, Concrete Repair and Coating:
 - a. Modify the last sentence of paragraph 1.03.A.2 as follows:
“.... it will be ~~included as a change order~~ paid as an Allowance in Bid Item number 10.”
9. Section 10400, Signage.
 - a. Delete paragraph 2.05 Cast Aluminum Letters in its entirety.
10. Section 11300, Tube Settler Media:
 - a. Modify the second sentence of paragraph 2.02.B.1 as follows:
“....and ~~approved by the FDA~~ NSF 61 certified
 - b. At the end of the second sentence of paragraph 2.02.B.2 add the following:
“ Contractor shall conduct a structural analysis of the existing support system as required by the Tube Settler Media manufacturer.”
11. Section 11312D, Vertical Turbine Short Setting Centrifugal Pumps
 - a. Revise Maximum Driver rpm in Section 3.02, Pump Schedule, for Raw Water Pumps (PMP-21.0301, PMP-21.0302, PMP-0303) to 1185.
12. Section 11505, Granular Activated Carbon System
 - a. ADD Paragraph 2.05. A. 2. “Cabot Corporation (Norit): Equivalent product.”
13. Section 11800, Reverse Osmosis Membrane System:

- a. REPLACE Paragraph 2.02 A.3.a.2) with: "1000 psig at 25 degrees Celsius for the second stage pressure vessels."
 - b. INSERT the following sub-paragraph under 1.08 B. 1. c. 1)
 "a) Owner must demonstrate that the elements were cleaned at appropriate times and in accordance with the membrane suppliers and chemical suppliers recommendations. The burden of demonstrating the cleanings were appropriately performed is with the Owner."
- 14. Section 11902, Fish Screen Assembly and Cleaning System
 - a. Add Paragraph 2.02.B.6.d. "Atlas Copco."
- 15. Section 13200, Impressed Current Cathodic Protection System:
 - a. Revise Paragraph 2.03.A.5 with the following:
 "5. The ornamental Air-Cooled Rectifier Enclosure shall have the approximate dimensions of 60"(H) X 36"(W) X 28" (D)"
 - b. Revise Paragraphs 2.04.A.2.a through d with the following:
 - "2. Anode Weight and Size: The anode dimensions shall be in accordance with the following table:
 - a) ANOTEC Model 3884Z.
 - b) Anode Diameter: 2.9 inches.
 - c) Anode Length: 84 inches.
 - d) Anode weight: 90 pounds."
 - c. Replace Section 2.06 with the following:
 - "2.06 IMPRESSED CURRENT ANODE PANEL
 - A. The anode panel shall be a phenolic panel board with the nickel-plated brass bolts, nuts and washers, as shown on the drawings. Copper terminal lugs shall be nickel plated brass and sized for the specified cables. Number of lugs required shall be sufficient to connect all anodes as shown on the drawings and connectors shall be of the socket screw head type.
 - B. No Change"
 - d. Revise Paragraph 3.07.A with the following:
 "All wiring shall be installed as shown on the drawings."
- 16. Section 13226 – Filter Media:
 - a. Delete Paragraph 2.01.A.4 in its entirety (Note: Addendum 3 incorrectly referenced this change as 2.10.A.4).
- 17. Section 13447, Electric Actuators:
 - a. In the Schedule at the end of the Section change the Reference Drawings listed:
 - 1) Filters 1 and 3 Effluent Control Valves and Filter-to-Waste Valves from 25N24-06 to 25N24-05.

- 2) Filters 5 and 7 Effluent Control Valves and Filter-to-Waste Valves from 25N24-05 to 25N24-06.

18. Section 15111, Ball Valves:

- a. Add the following to the Metal Body V-Ball Valve Schedule in paragraph 2.09:

Tag Numbers	VAL-25.0905D
Application	Brine Disposal
Service	RO Brine
Size, inches	12
Maximum Flow, gpm	2,800
Maximum Pressure In, psi	50
Maximum ΔP , psi	45
Minimum Flow, gpm	300
Minimum Pressure In, psi	20
Minimum ΔP , psi	15

19. Section 15111A, V-Port Control Valves:

- a. Replace the table under Paragraph 2.01.E with the following:

Valve ID	Size (in)	Max Flow			Min Flow			CV at 100% Open
		Qmax (gpm)	Inlet Pressure (psig)	Pressure Drop (psi)	Qmin (gpm)	Inlet Pressure (psig)	Pressure Drop (psi)	
VAL-25.0012A	6	2,000	70	50	500	50	2	1230
VAL-25.0903E	4	700	75	55	250	55	2	600
VAL-26.0301A	2.5	350	55	50	37	40	35	260
VAL-26.0301B	10	2800	55	50	250	40	35	3250

20. Section 15115, Gate, Globe, and Angle Valves

- a. ADD the following article and paragraphs:

“2.04 GV 321 STAINLESS STEEL GLOBE VALVE

A. Design requirements:

1. Description: High performance, linear and balanced cage guided globe valve with two-stage anti-cavitation trim.
2. Electric Actuated.
3. End Connections: Flanged, ANSI Class 600.

4. Operating conditions for valves VAL 25.0103A, VAL 25.0203A, VAL 25.0303A, and VAL 25.0403A:

a) Service: RO concentrate control valves.

b) Provide design calculations for the flow and pressure conditions shown in the tables below to determine that the valve is acceptable for operation.

c) Operating conditions:

Valve ID	Size (in)	Minimum Flow and Pressure Drop			CV for operating condition
		Flow (gpm)	Inlet Pressure (psig)	Pressure Drop (psig)	
VAL 25.0103A	3	150	162	155	12
VAL 25.0203A	3	150	162	155	12
VAL 25.0303A	3	150	162	155	12
VAL 25.0403A	3	150	162	155	12

Valve ID	Size (in)	Average Flow and Pressure Drop			CV for operating condition
		Flow (gpm)	Inlet Pressure (psig)	Pressure Drop (psig)	
VAL 25.0103A	3	346	328	320	19 – 20
VAL 25.0203A	3	346	328	320	19 – 20
VAL 25.0303A	3	346	328	320	19 – 20
VAL 25.0403A	3	346	328	320	19 – 20

Valve ID	Size (in)	Maximum Flow and Pressure Drop			CV for operating condition
		Flow (gpm)	Inlet Pressure (psig)	Pressure Drop (psig)	
VAL 25.0103A	3	500	735	727	18 - 19
VAL 25.0203A	3	500	735	727	18 – 19
VAL 25.0303A	3	500	735	727	18 – 19
VAL 25.0403A	3	500	735	727	18 – 19

Valve ID	Size (in)	Flow and Pressure Condition No. 4			CV for operating condition
		Flow (gpm)	Inlet Pressure (psig)	Pressure Drop (psig)	
VAL 25.0103A	3	346	735	672	13 – 14
VAL 25.0203A	3	346	735	672	13 – 14
VAL 25.0303A	3	346	735	672	13 – 14
VAL 25.0403A	3	346	735	672	13 – 14

Valve ID	Size (in)	Flow and Pressure Condition No. 5			CV for operating condition
		Flow (gpm)	Inlet Pressure (psig)	Pressure Drop (psig)	
VAL 25.0103A	3	500	162	155	40 – 41
VAL 25.0203A	3	500	162	155	40 – 41
VAL 25.0303A	3	500	162	155	40 – 41
VAL 25.0403A	3	500	162	155	40 – 41

B. Materials:

1. Body: CF8M stainless steel or Type 316 stainless steel.
2. Bonnet: CF8m stainless steel or Type 316 stainless steel.
3. Cage Retainers: Type 316 stainless steel.
4. Cage: S17400 stainless steel.
5. Seat Ring: Type 316 stainless steel.
6. Plug: Type 316 stainless steel.
7. Packing: PTFE.
8. Bolting: Type 316 stainless steel.

C. Manufacturers: One of the following:

1. Fisher Controls (Caltrol), Model ET-CAV-III-2 Stage.
2. Masoneilan, equivalent model.”

21. Section 15286, Stainless Steel Pipe and Tubing:

- a. Paragraph 2.01.F.3.b, replace “Double butt” with “Single butt”.

22. Section 15830,Fans:

- a. Replace paragraph 2.04 with:

“2.04 TYPE 11, FANS

- A. Manufacturers: One of the following or equal:
 - 1. Greenheck, Model VAB.
 - 2. Loren Cook, Centri-Vane type VAB.
 - 3. Penn Ventilator, Similar model.
- B. Characteristics:
 - 1. Type: In-line vane axial fan with fixed pitch propeller in a unit housing.
 - 2. Fan: Airfoil, non-overloading centrifugal aluminum fan on aluminum hub.
 - 3. Housing: Aluminum construction with airflow discharge vanes; provide flanged inlet and outlet to match adjacent ducting.
 - 4. Motor: Permanently lubricated bearings rated for L10 life of 200,000 hours; mounted on vibration isolators; type as scheduled.
- C. Accessories:
 - 1. Provide NEMA Type 3R disconnect outside housing, unless otherwise scheduled.
 - 2. Provide belt guard and adjustable belt sheaves when belt drive scheduled.
 - 3. Provide lifting lugs.
 - 4. Finish: Permatector protective coating.”

23. Section 17101.02, RO System Control Strategies

- a. REPLACE paragraph 3.04. B. 3. A. 2) b) (1) with:

“(1) Normal flush: This valve shall not be allowed to open if either the permeate isolation valves or RO train concentrate bypass valve are proven closed.”
- b. REPLACE paragraph 3.04. B. 3. b. 1) a) (4) with:

“(4) The control system operates the RO train concentrate flow control valve to 100-percent closed.”
- c. INSERT the following paragraph after 3.04. B. 3. b. 1) a) (4). Adjust numbering of successive paragraphs as needed.

“(5) The control system operates the RO train concentrate bypass valve to 100-percent open.”
- d. Paragraph 3.04 B. 3. b. 1) a) (9), REPLACE “The control system will close the RO train concentrate flow control valve” with “The control system will close the RO train concentrate bypass valve.”
- e. Paragraph 3.04 B. 3. b. 1) a) (10), REPLACE “When the RO train concentrate flow control valve is proven closed, the RO train flush sequence is complete and the operator will be prompted to flush another system (if applicable)” with “When the RO train concentrate bypass valve is proven closed, the RO train flush sequence is complete and the operator will be prompted to flush another system (if applicable).”

- f. Paragraph 3.04 B. 3. b. 2) a) (4), REPLACE “The control system operates the RO train concentrate flow control valve to 100-percent open” with “The control system operates the RO train concentrate flow control valve to 100-percent closed.”
- g. INSERT the following paragraph after 3.04. B. 3. b. 2) a) (4). Adjust numbering of successive paragraphs as needed.
“(5) The control system operates the RO train concentrate bypass valve to 100% open.”
- h. Paragraph 3.04 B. 3. b. 2) a) (9), REPLACE “The control system will close the RO train concentrate flow control valve” with “The control system will close the RO train concentrate bypass valve.”
- i. Paragraph 3.04 B. 3. b. 2) a) (10), REPLACE “When the RO train concentrate flow control valve is proven closed, the RO train flush sequence is complete” with “When the RO train concentrate bypass valve is proven closed, the RO train flush sequence is complete.”
- j. INSERT the following paragraph after 3.04 B. 3. b. 3) a) (4), adjust the numbering of successive paragraphs as needed:
“(5) The RO train concentrate bypass valve is proven fully closed.”
- k. Paragraph 3.04 B. 3. b. 4) c), REPLACE paragraph with “Following completion of a startup flush sequence (if used) the system concentrate control valve moves to a stabilization mode position setpoint, and the RO train concentrate bypass valve is proven fully closed.”
- l. INSERT the following as a new paragraph beneath Paragraph 3.04 B. 3. d. 9):
“(10) RO train concentrate bypass valve position action.”
- m. INSERT the following as a new paragraph beneath Paragraph 3.04 B. 4. A. 117):
“118) RO train concentrate bypass valve open/closed.”

24. APPENDICES:

- a. Add the attached reference drawing to Appendix J, “Plan View of Existing Outfall Chamber to be Coated at DD WWTP”
- b. Add attached new “Appendix M – Construction Staging, Office Trailer, and Parking Right of Entry and Use Agreement”

DRAWINGS

The following drawings are modified as indicated below.

1. Replace the following drawings with the attached updated drawings: 21C01, 21C02, 25C01, 25C02, 25C04, 25M03, 25M05, 25M07, 25M10, 25M39, 03E014, 04E001, 04E002, 05E001, 05E002, 21E0501, 21E0502, 21E0503, 21E0504, 21E1003, 25E0102, 25E0103, 25E0501, 25E0502, 25E0503, 25E0504, 25E0505, 25E0506, 25E0507, 25E0508, 25E0509, 25E0510, 25E0511, 25E0512, 25E0513, 25E0514, 25E0515, 25E0516, 25E0517, 25E0518, 25E0519, 25E0520, 25E0521, 25E0522, 25E0523, 25E0524, 25E0525, 25E0526, 25E0527, 25E0528, 25E0529, 25E1001, 25E1002, 25E1005, 25E1006, 25E1007, 25E1008, 25E1501, 25E2001, 25E2005, 1N21-06, 25N25-13, 25N25-18, 25N25-23, 25N25-28, CP-6
2. Drawing G06:
 - a. Add to abbreviation list “CIDP cast in place drilled pier”.
3. Drawing G10:
 - a. Under Deferred Design Submittals, Delete “2. Division 4 Masonry A. Concrete unit Masonry” and “4. Division 13 Special Construction. A. 13122 Metal Building System.”
4. Drawing TM01:
 - a. Detail M310: add note “3. Vertical riser pipe and above ground pipe shall be 4” cement mortar lined ductile iron pipe.”
5. Drawing 21C01:
 - a. Modify the last sentence of Key Note No. 1 as follows:
“Work shall be completed during allowable in-river work window (August 1 – **October 31**).”
6. Drawing 25C03:
 - a. Replace key note 19 with “19. Remove and replace ex 24” FW CARV and vault with new CARV per CP741 as shown on Dwg P48”.
7. Drawing 25C04:
 - a. Add detail callout S410/TYP adjacent to “10’ high masonry sound wall” in two locations at gridlines E2 and E3.
 - b. At gridline A2, revise note next to key note 10: “Remove and replace approximately 3850 sq ft of AC paving from gutter to gutter and 10’ beyond new piping to the north and south. Existing AC paving shall be replaced from area shown to new AC paving at the RO facility.”
 - c. At gridline B2, revise note to read: “Replace in kind approximately 350 LF of curb and gutter per C102/TYP”.
8. Drawing 25C06:

- a. Detail J: add detail callout S410/TYP adjacent to "10' high masonry sound wall" label at Sta 0+10.
9. Drawing 25C07:
 - a. Change the valve number for Key Tag 1 to "Val 25.0905D"
 - b. Add the following at the end of Key Tag 1:
"Type VBV 350 in accordance with Spec Section 15111"
10. Drawing 25C09:
 - a. Replace key note 3 with "CONNECT 12" GATE VALVE TO 14" HDPE PIPE USING BUTT FUSION OF A POLYCAM SERIES 908 (OR EQUAL) ID CONTROLLED MJ ADAPTOR WITH A 12" MEGALUG".
 - b. Add the following at the end Key Note 1:
"For bidding purposes, assume that the 48" outfall pipe will need to be temporary plugged and up to 1 foot of water will need to be pumped out by the Contractor."
11. Drawing 25C10:
 - a. Add the following at the end of Key Note 1:
"A 2" Sch 40 PVC pipe shall also be installed parallel to the sample pipe and penetrate into the overflow chamber to serve as a sleeve for the flexible tubing shown. The 2" PVC pipe and flex tubing shall also be routed to the invert of the 48" outfall with unistrut supports on the interior wall of the chamber."
 - b. Add the following Key Note 4:
"Work in the overflow chamber shall be performed during a plant outage from 10 pm to 6 am as described in Section 01140. If possible the outage for work in the overflow chamber shall be performed during the same shutdown as the coating work in the outfall chamber. For bidding purposes the Contractor shall assume that a plug will need to be installed in the existing 48" outfall and up to 1 foot of water will need to be pumped out."
12. Drawing 25C14:
 - a. Section A, at 24" drilled pier callout replace "(18" DEEP)" with "(20' DEEP)".
13. Drawing 25C16:
 - a. For key tag 1, replace "30" MAGMETER" with "18" MAGMETER".
14. Drawing 25S03:
 - a. Add key note 8 to Section H next to key note 2 callout. Add key note: 8. Exposed concrete color above masonry wall shall be approved by City.
15. Drawing 25S04
 - a. Add key note 1 to Section L at gridline D2. Add key note: 1. Exposed concrete color above masonry wall shall be approved by City.
16. Drawing 25S28:

- a. Modify the callout at gridline A-7 as follows:
"Timbertech Deck Sider Collection: Cedar Board Pro Legacy (1 1/4" x 5 1/2") at 7" O.C.. Contractor shall submit the proposed design, materials, and color selection in accordance with Section 01330."
- 17. Drawing 25S34.
 - a. Replace callout on Section DF with the following:
"Coat interior walls and floor of wet well including existing walls. Underside of top slab does not require coating."
- 18. Drawing 21M01:
 - a. Add "MARK 3" note to callout of typical detail CP762.
- 19. Drawing 25M29:
 - a. Change Key Tag number 2 to "Val 25.0001F"
 - b. Change the pipe support detail at gridline A-3 from P611 to P602.
 - c. At gridline C12, replace 30" restrained flex coupling with 30" SSTL dismantling joint.
- 20. Drawing 25M30:
 - a. Change the pipe support callout in Section DD from P604 to P602.
 - b. Change the 24-inch ROP pipe penetration through the clearwell slab in Section DE from P308 to P404.
- 21. Drawing 25M42:
 - a. Replace General Note 3 with the following:
 - b. "3. Replace existing asbestos cement pipes with new PVC C900 pipes (Pressure Class 80) with perforations drilled into the pipe to match existing. Perforations may be drilled into the bell and spigot joints of the new pipe as needed. New PVC shall extend into the existing settled water channel and cut be flush with the inside wall."
 - c. Add General Note 4 as follows:
"As-built drawings for existing steel baffle plates are not available. For bidding purposes assume the plates are 12"x12"x1/4" thick carbon steel plates. Contractor to field verify prior to fabrication."
- 22. Drawing 21N76-01:
 - a. DELETE the following valves and filters from the drawing: VAL 76.0101, FLT 76.0101B, and FLT 76.0101C.
- 23. Drawing 25N25-04:
 - a. Delete VAL 25.0004A on the 24-inch ROP pipeline.
- 24. Drawing 25N25-32:

- a. ADD change in pipe material symbol after VAL 25.0012A to designate that the pipe material changes from (P1) to (S5).
 - b. ADD pipe tag after VAL 25.0012A that reads “[8” CIPF (S5)]”.
 - c. ADD change in pipe material symbol after FLT 25.0012 to designate that the pipe material changes from (S5) to (P1).
 - d. ADD pipe tag after FLT 25.0012 that reads “[8” CIPF (S5)]”.
25. Drawing 25N25-34
- a. ADD pipe reducers on either side of VAL 25.0903E. The 6-inch pipe upstream of the valve will reduce to 4-inches, and the piping after the valve will expand from 4-inches to 6-inches.
 - b. DELETE the flexible connection shown between valves VAL 25.0903B and VAL 25.0903C.
 - c. ADD pipe tag between valves VAL 25.0903B and VAL 25.0903C that reads “[8” ROFF (P1)]”.
 - d. ADD pipe tag after the flush pump PMP 25.0903 that reads “[6” ROFF (P1)]”.
 - e. ADD change in pipe material symbol after VAL 25.0903E to designate that the pipe material changes from (P1) to (S5).
26. Drawing 25N26-01:
- a. DELETE the following valves from the drawing: VAL 26.0301K and VAL 26.0301L.”

SELECTED RESPONSES TO REQUESTS FOR INFORMATION

1. Refer to the attached table for responses to all Bidder questions received to date.

City of Antioch Brackish Water Desalination Project
Addendum #4
Responses to Bidder Questions
11/10/2020

Date	Company Name	Question(s)	Response	Date of Response	How Responded
10/12/2020	Shimmick	1. Instructions to Bidders Paragraph 39.01 states that Escrow Bid Documents are due within 4 business days. Instructions to Bidders Paragraph 39.11 states that Escrow Bid Documents are due within 3 business days. Please clarify when Escrow Bid Documents are due.	Escrow docs due within 4 days following bid opening.	10/15/2020	Addendum #1
		2. Attachment F, DBE Performance Form is due with our bid package. As this requires signatures from both the DBE subcontractor and the prime contractor, it can be difficult to collect these forms with all necessary signatures in time for the bid submittal. Would you consider accepting these forms after bid submittal? We could supply these via email within 24 hours.	No	10/15/2020	Addendum #1 (Q&A)
		3. Would you consider accepting Attachment G-1 Good Faith Efforts Verification and all accompanying documents post bid?	No	10/15/2020	Addendum #1 (Q&A)
10/13/2020	Kiewitt	The table of contents lists Appendices included in the Documents. Appendix C is labeled as "Environmental Permits and MMRP". The Appendices are not well labeled but it appears that only 1 page of the MMRP is included. Please provide complete environmental and MMRP documents.	Appendix C was re-issued by Addendum #1	10/15/2020	Addendum #1
10/12/2020	Shimmick	Attachment N and Attachment O appear to be duplicated within the bid documents. Attachment N appears under Section 00400-N-1 as well as Section 00400-1. Attachment O appears under Section 00400-O-1 as well as Section 00400-2. Please confirm if this was intentional.	Delete the redundant pages at the end of Section 00400	10/15/2020	Addendum #1
10/12/2020	Shimmick	Due to ongoing pandemic, will you consider accepting bids electronically or through email?	No	10/15/2020	Addendum #1 (Q&A)
10/5/2020	Shimmick	DBE Requirements-California State Revolving Fund (CASRF) & Clean Water and Drinking Water (SRF) Programs, located on page 00232-1 of Technical Specifications – Volume 1. "Six Good Faith Efforts (GFE)" in the Guidelines for Meeting the California State Revolving Fund (CASRF) Programs Disadvantaged Business Enterprise (DBE) Requirements lists that solicitations for bids or proposals must be posted in a local newspaper for a minimum of 30 calendar days before bid opening date. The State Water Resources Control Board has indicated the intended requirement is to advertise for one day in a newspaper in the area 30 days prior to bid opening. The remaining 29 days, an advertisement can be placed in trade journals or a building exchange. Please confirm that this is acceptable.	Acceptable proposal.	10/15/2020	Addendum #1
10/13/2020	Kiewitt	1) All major ready mix concrete suppliers have indicated that fly ash, as listed in specification section 03301 2.04 B 4 c, is not currently available in Northern California. Please confirm that slag will be an acceptable alternative instead of fly ash, for use in concrete mix designs.	Slag is acceptable.	10/23/2020	Addendum #3

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		2) Section 00232-SRF Disadvantage Business Enterprise Requirements "Six Good Faith Efforts (GFE)" bullet no. 2 states "2. Make information on forthcoming opportunities available to DBEs. Posting solicitations for bids or proposals for a minimum of 30 calendar days in a local newspaper, before the bid opening date." The State Water Resources Control Board has indicated the intended requirement is to advertise for one day in a local newspaper in the area 30 days prior to bid opening. The remaining 29 days, an advertisement can be placed in trade journals or a building exchange. Please confirm that an advertisement in a local newspaper for one day and advertisement in other ways for the remaining 29 days satisfies item 2 of the CASRF GFE.	Acceptable proposal	10/15/2020	Addendum #1
		3) Due to the amount of effort required to complete, contractor requests that documentation for the GFE be turned in to the City 3 days after bid submission not on Bid Day.	No	10/15/2020	Addendum #1 (Q&A)
10/9/2020	ACCO	I've been reviewing the prevailing wage determinations linked in the Notice to Contractors for this project and I noticed that the the Northern California Laborers scope description (found here: https://www.dir.ca.gov/oprl/2020-2/PWD/Scope/Northern/NC-023-102-1-Sco.pdf) does not include water treatment piping as it's called out in the full 2018-2023 AGC/Laborers Master Agreement, which is as follows: "All mechanical and pressurized pipe work, including the laying and installation of pipe above and below ground, cathodic protection, bolt up, and support installation in connection to water conveyance, purification, filtration, and treatment facilities." Not sure if you're the one to answer this, but does this mean that the Pipefitter prevailing wage will need to be used for the mechanical piping work?	From PSA Consultant (CDM) The applicable classification for a particular work process will be determined by the scope of work description in the applicable Prevailing Wage Determination, not by the craft work description in a craft's Master Labor Agreement. For the work in question as we understand your question, please review the scope descriptions for the individual worker classifications found in the following prevailing wage determination link: https://www.dir.ca.gov/oprl/2020-2/PWD/index.htm for Contra Costa County (Step 4) under the "Plumber" classification of the determination. All scope descriptions should be reviewed for the various individual worker classifications to be sure you have identified the applicable classification and corresponding wage/fringe requirements.	10/22/2020	Addendum #2 (Q&A)
10/14/2020	Dutra	Dutra intends to bid as a sub to the primes for work on the intake. Can you confirm that as a SUB we don't fall under the mandatory pre-bid site visit requirement?	Correct. Only Bidders need to attend site visits. Subs are welcome to attend too.	10/14/2020	Email
		We would not be interested in seeing all of the upland components of the project, just what's down on the river. I don't know if its necessary to schedule a formal visit with you and I believe the boat ramp is currently open correct?	Yes, it is a public area and open to visit without an appointment.	10/14/2020	Email
10/15/2020	G2	1. Per Dwg 25C02, it looks like there are 16 ea Pipe Supports for 30" dia and 24" dia Pipes but there is no call-out. Per detail P607 & P608 / TP05, they show a W18 x 60 Beam supporting 24" dia and 30" dia Pipes in pairs. Are these details for the 16 ea pipe supports on 25C02? If so, which ones are P607 and which ones are P608?	Please refer to drawings 25C12 and 25C13 . Callouts are documented in these drawings	10/23/2020	Email
		2. At Brine Analyzer Canopy Detail D / 25C08, could you provide Beam sizes at Canopy Roof?	HSS members are HSS 4x4x1/4 and Channels are C 4x5.4	10/23/2020	Email
		3. Per Dwg 25C03 calling out to A / 25C18, there is an H-shaped Pipe Rack supporting the 24" ROP. Could you provide detail reference of this pipe rack?	Please refer to drawings 25S09 and 25S10	10/23/2020	Email

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		4. At Chemical Storage per 25S20, etc., could you provide Material Specs for the Sump Grating / Embeds, Internal Stair, External Stair, Landing Grating / Stair Treads & Railings?	Specification 05500 is applicable.	10/23/2020	Email
10/15/2020	Shimmick	Can the Plant A elevator be used for transporting valves and equipment into the filter gallery?	Yes. The existing elevator at Plant A may be used by the Contractor for transporting valves and equipment into and out of the filter gallery. The weight limit of 4000 pounds shall not be exceeded. No personnel are allowed to ride in the elevator. Contractors shall complete safety training provided by the City prior to using the elevator.	10/22/2020	Addendum #2
10/16/2020	Teichert	My team is asking if CAD files will be made available for the above referenced project. Please advise	No, CAD files cannot be provided to bidders.	Email	Email
10/19/2020	Shimmick	In regards to Attachment L, Section B of the Bidding Requirements, titled MARINE SUBCONTRACTOR MANDATORY MINIMUM EXPERIENCE REQUIREMENTS, the City of Antioch has indicated that there are two elements of work that bidders need to qualify for. The City of Antioch has determined that the required work elements do not have to be on the same project. Please confirm that it is also acceptable for a bidder to self-perform one of the work elements and subcontract the other work element specified in this section. For example, the two projects that meet the cofferdam requirements can be submitted by the prime contractor, while the dredging/disposal requirements can be submitted by a qualified subcontractor.	This request would be acceptable as long as the prime (bidder) can demonstrate qualifications (at least 2 projects) for the portion of work they plan to self-perform. And likewise the marine sub would need to demonstrate qualifications for the portion of work they will perform (2 projects). The bidder would need to submit an attachment to Certification L that explains the proposed separation of work and provides references. Currently there is space for only 3 project references. Under the proposed arrangement the bidder would need to submit 4.	Email on 10/20/20 and Addendum #2	Addendum #2

Date	Company Name	Question(s)	Response	Date of Response	How Responded
10/19/2020	Ferguson Enterprises	1) RAW WATER INTAKE PIPING: Drawing 177 – 21M05 is showing the two 22.5-degree bend fittings connecting to the fabricated stainless-steel 90-degree bends. The ductile iron pipe and fittings are drawn appearing to be Flex-Ring type joints. The 22.5-degree fittings appear to be drawn as Flex-Ring bell by plain end type. The section – 8 on this sheet also appears to show a bell type joint for the ductile iron fitting. We noticed the callout, highlighted in yellow above, that is indicating a MJ X PE 22.5-degree elbow fitting. We realize that Flex-Ring fittings are not made with “plain ends”. Another method of configuring the 22.5-degree fitting to the pipe would be to provide a Flex-Ring fitting and a short restrained joint end by restrained joint end piece of pipe. Then the fabricated SST 90-degree bend fitting needs to be restrained to the bell end of the ductile iron fitting. There could also be a ductile iron, flanged by restrained joint end pipe provided to make the transition. The section view does not show this pipe but in the plan view layout there appears to be such a piece of pipe. We were wondering if this is the reason the MJ X PE fitting was called out. We have not found a detail or callout as to how to restrain the plain end of the stainless-steel fitting to the bell of the ductile iron fitting. We were wondering if the stainless-steel plain end could have anchor lugs like the detail – P112 / 061 TP01. The pipe schedule indicates that these lines are to be tested to 200 psi. Please review and clarify how to configure and restrain these two pipe joints.	Drawing 21M05, Plan View A and Section B connection were modified by Addendum 3.	11/4/2020	Addendum #3
		2) AIR VACUUM AND AIR RELEASE FOR 3” AND SMALLER VALVE ASSEMBLY: Looking at detail P240 / TP01, we see the callout for a 4” flanged outlet or service saddle. The pump discharge pipe at the River Pump Station, section – C/21M02, is showing the 3” CARV pipe coming off the top of the 18” flanged spool piece of pipe. The detail is indicating a 4” flanged outlet for 3” and smaller air valve assemblies. Is your intent for the 18” ductile iron to have a 4” welded on flange boss with tapped bolt holes for a short 4” flanged spool piece of pipe?	Typical Detail P240 allows either a welded outlet with blind flange or a service saddle. The minimum outlet and pipe size should match the ARV size. For this location, it would be on the 18” pipe spool.	11/4/2020	Addendum #3
		3) AIR VACUUM AND AIR RELEASE FOR 3” AND SMALLER VALVE ASSEMBLY WITH 4” FLANGE OUTLET: Looking at detail P240 / TP01, we see the callout for a 4” 150 LB, blind flange drilled and tapped for a NPT nipple. Is it your intention for all air release valve assemblies 3” and smaller to have a 4” flanged outlet on top of the pipe that the air release valve is installed? Please clarify.	The minimum welded outlet size with blind flange or minimum service saddle connection should be suitable for a pipe size matching the ARV size. The pressure rating of the assembly should meet the test pressure listed in the pipe schedule. See addendum #3.	11/4/2020	Addendum #3
		4) AIR VACUUM AND AIR RELEASE FOR 3” AND SMALLER VALVE ASSEMBLY WITH 4” FLANGE OUTLET: Looking at detail P240 / TP01, we see the callout for a 4” flanged outlet or a service saddle. Under what circumstances do you intend for a service saddle to be provided? Is there a certain size air release valve that a service saddle will be provided? Please clarify the use of a service saddle.	Use of service saddle or flanged outlet is up to contractor as indicated in detail as long as test pressure and ARV size can be met using one of the specified service saddles.	11/4/2020	Addendum #3 (Q&A)
		5) TAPS IN DUCTILE IRON PIPE BARRELS: We see the pipe tap schedule in section 15211-5, 3.01, C, the ductile iron pressure classes range from 150 to 350. We assume these taps are for buried ductile iron pipe. Typically flanged ductile iron pipe is Class53 pipe. Please clarify the size taps allowed in the barrel of a flanged ductile iron pipe.	Maximum allowable direct tap size (inches) for Class 53 pipe is the same as for Class 250.	11/4/2020	Addendum #3
		6) PVC C900 PIPE FITTINGS: Reading in specification section – 15265-4, 2.03, PVC PIPING, CLASS TYPE, A, 1, FITTINGS, it indicates one of the following, as scheduled and indicated on the drawings. In line item a, it has, C900: PVC with overwrap reinforcement. Cast iron pipe size. We are not familiar with this type of C900 fittings. Please provide manufacturer and any model or series numbers for these fittings.	Use ductile iron pipe fittings for C900 pipe. See addendum #3.	11/4/2020	Addendum #3

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		7) RESTRAINED JOINT BURIED DUCTILE IRON PIPING AND FITTINGS: We are trying to interpret the intention of the ductile iron specifications and pipe schedule restrained joint systems. The pipe schedule indicates the buried, below ground, RW Raw water piping is to be either integrally RPO or RMJ. It is the contractors' option to provide restrained joint push-on type joint pipe with MJ fittings, and MJ Coupled Joints? The MJ Coupled Joint is made up to 48" diameter size. Then is there the option to provide restrained joint push-on type pipe and restrained joint bell type fittings, such as TR Flex or Flex-Ring? We are not sure if the intent was to provide RJ piping and MJ fittings up through 48" size and then for pipe larger to be restrained joint bell such as TR Flex or Flex Ring. Please clarify.	The intent is to use integrally restrained push on joints (TR Flex or Flex-Ring) for buried piping unless noted otherwise. See addendum #3.	11/4/2020	Addendum #3
		8) PRESSURE GAUGE AND INSTRUMENTS MOUNTING DETAIL: Drawing TN03 has detail NP501, showing a typical dual instrument piping installation. Drawing TN04 is showing detail – NP502. We do not see any sizes indicated for the fittings and ball valves. Please clarify the size of the installation fittings and ball valves.	Will clarify in addendum #3.	11/4/2020	Addendum #3
		9) PRESSURE GAUGE AND INSTRUMENTS MOUNTING DETAIL MATERIALS: Drawing TN03 has detail NP501, showing a typical dual instrument piping installation. Drawing TN04 is showing detail – NP502. We do not see any materials indicated for the fittings and ball valves. Please clarify the materials for the installation fittings and ball valves.	Detail requires that material matches the process. Preferred material added in addendum #3.	11/4/2020	Addendum #3
		10) FIELD CLOSURE PIECES OF PIPE: Specification section – 15211 – 4, paragraph 3.01, Installation, B, Joints, 3, indicates to locate field closures in areas where thrust calculations demonstrate restraint is not required. We are wondering what is allowed to install a run of pipe where the whole length of the run is to be restrained. Please clarify.	Not being used, to be removed by addendum #3.	11/4/2020	Addendum #3
		11) RESTRAINED JOINT PIPE LENGTHS FOR BURIED YARD PIPING: We were wondering if a restrained joint pipe table could be provided to assist the contractors in determining the lengths of pipe that are required to be restrained.	As shown in the pipe schedule, ductile iron pipe, HDPE, stainless steel and C900 pipe is restrained.	11/10/2020	
		12) GASKETS FOR FLANGED DUCTILE IRON RAW WATER PIPE: Reading in specification section – 15052- 4 & 5, 2.05 – Gaskets, B, 1, Gaskets for ductile iron and steel piping, suitable for pressures equal to or less than 150 pounds, and raw sewage, it indicates a neoprene with cloth or synthetic fiber. Then down in paragraph G & H, gaskets for ductile iron and steel water pipe, then drinking water piping meeting NSF requirements, again it indicates for pressures equal to or less than 150 pound per square inch. Looking at the piping schedule for the RAW W – Raw Water service, it indicates a test pressure of 200 psig/ HH. Does the Raw Sewage service apply to this project? The tests pressure is higher than the working pressure indicated for the gaskets in the ductile iron piping. Please clarify the gaskets to be used with the 200 psig test pressure.	Section 15052, paragraph 2.05.A.1. states that gaskets shall be suitable for the specific fluids, pressure, and temperature conditions. All pipe and flange gaskets require NSF 61 rating except for sanitary sewer, storm drain, and drain pipe. Gaskets should meet the pressure rating listed in the pipe schedule. See Addendum #3.	11/4/2020	Addendum #3
		13) RIVER PUMP STATION 30" PUMP DISCHARGE PIPE: Drawings 21M01 and section – B on 21M02 are showing the 30" DI RAW W, header, encased in concrete, under the building slab. Looking on drawing 21M01, the 30" pipe is extending from the 30" x 18" tee fitting out to the edge of the building floor slab. There is a Keynote # 1, which indicates double joints similar to detail P342. The detail is showing a thrust collar in a concrete wall. This pipe is not in a wall, it is encased in the concrete under the floor slab. Do you still require a thrust collar on pipe that are encased in concrete under structure slabs? Please clarify.	A thrust collar is not required at this location. See addendum #3.	11/4/2020	Addendum #3
10/20/2020	Balfour Beatty	1. Spec Section 01500-1.10.B-1.b "See the preferred layout of the Engineer's and Construction Manager's field office at the end of this Spec Section under Figure 1." Please provide the missing Figure 1.	Typo. There is no figure.	10/22/2020	Addendum #2
		2. Spec Section 01500-1.10.B-4.a "CONTRACTOR shall move the furnishing and equipment to the Operation's Center after substantial completion of the Work." (Addendum 6)". Please confirm the reference to Addendum 6 is a typo.	Yes, typo	10/22/2020	Addendum #2

Date	Company Name	Question(s)	Response	Date of Response	How Responded
10/20/2020	Balfour Beatty	Bid From Section 00400 PROJECT MANAGER EXPERIENCE requires demonstrated experience of the Project Manager to be within the last ten (10) years. Please revise this requirement to be within the last fifteen (15) years to allow project managers with larger water project experience with longer durations to qualify.	Yes, 15 years for WTP experience is acceptable.	10/22/2020	Addendum #2
10/16/2020	Shimmick	Please clarify where gypsum wall board (wall system MCIG) will be required at the River Pump Station.	The River Pump building rooms shall receive hat channel furring strips with rigid insulation, and gypsum (MCIG) in accordance with drawing 21A01	10/23/2020	Email.
		Room 101 – The Room Finish Schedule shows MCIG on a portion of the South Wall, but Drawing 21A01 shows no MCIG in Room 101	NO MCIG system	11/4/2020	Revised Dwg 21A01 in Addendum #3
		Room 102 – The Room Finish Schedule shows MCIG on the North, South and East walls, but not on the West wall. Drawing 21A01 has CMIG on all four walls.	MCIG system on all four walls	11/4/2020	Revised Dwg 21A01 in Addendum #3
		Room 103 – The Room Finish Schedule shows MCIG only on the West Wall. Drawing 21A01 has MCIG on the North and East walls as well as the West Wall.	MCIG system on North, East and West walls	11/4/2020	Revised Dwg 21A01 in Addendum #3
		Room 104 – The Room Finish Schedule shows MCIG on the South and West walls. Drawing 21A01 shows MCIG on the North wall as well as the South and West walls.	MCIG system on North, South and West walls	11/4/2020	Revised Dwg 21A01 in Addendum #3
10/20/2020	Shimmick	Elevation B on Drawing 25C23 shows a CMU wall adjacent to the Roller Gate. This wall is not clearly shown on Drawing 25C04. Please clarify the North and South end points for this CMU wall.	Added northing and eastings to Dwg 25C04	11/4/2020	Addendum #3
10/20/2020	Ferguson	1) FLANGED PIPING GASKETS: Specification section – 15052 – 5, 2.05, G, is gaskets for flanged joints in ductile iron or steel “water” piping. Then in paragraph H, it is gaskets for flanged ductile iron or steel “drinking water” piping meeting NSF requirements. We are trying to determine where in the treatment process does the treated raw water become “drinking water”. We are assuming that up to the clearwells A & B would be considered “water” piping. Then after the water has been chemically treated it would become “drinking water”, meeting the NSF requirements. Should all the treatment process train piping have the EPDM gaskets meeting the NSF requirements since the water will become “drinking water”? Please review and clarify the type of gasket material to use in the process water piping.	All pipe and flange gaskets need to meet NSF 61 requirements except sanitary sewer, storm drain, and drain pipes. Will clarify in Addendum #3.	11/4/2020	Addendum #3

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		2) 30" RAW W WATER LINE FLOW METER AT THE RIVER PUMP STATION: Drawing 21C01 is showing the 30" RAW W (DI) water line coming out of the east side of the pump station. The line turns south and goes to a flow meter vault and a by-pass line. We were looking on drawing 21C02 and see a profile layout in the upper right-hand corner of the sheet, titled 30" RAW W Profile. The profile does not show the 45-degree bend fittings, but the first two tee fittings appear to be in the correct orientation. The profile is indicating a third 30" X 30" tee fitting at station 0+93.67. We do not find a third 30" tee fitting in the plan view on sheet 21C01. There appears to be a 30" X 24" tee fitting at the station – 0+ 94.08. Is this profile the profile for the 30" RAW W line shown on sheet 21C01? Please clarify.	The plan on drawing 21C01 shows horizontal bends for the 30" raw water line. The profile for the pipe is shown on 21C02 as you noted. See addendum #3 for revised callout for third tee fitting.	11/4/2020	Addendum #3
		3) RESTRAINING RODS AT SLEEVE COUPLINGS: Looking at the 24" RAW W (DI) water line going to the surge tank we see several sleeve couplings in the line. Referring to the restraint table in detail P110 / TP01, we are calculating that the 24" coupling is requiring more ¾" diameter rods than there are pairs of bolts to install the rods. Will you allow larger size rods to be used to meet the thrust requirements? Do you have a coupling tie down detail and rod chart with larger diameter rods? Please review and clarify the rod restraints for the project.	See addendum #3.	11/4/2020	Addendum #3
		4) RIVER PUMP STATION – TEMPORARY BY-PASS PIPING: Drawing 21C01 has a note stating to install a 30" tee with a connection to the existing pipe with a flange coupling adapter on the south end and a blind flange on the north end. Once the new work is complete, does the blind flange on the new tee fitting need to be removed and the existing 30" RW pipe need to be connected to the flanged tee fitting? If so, please provide a description of how the existing piping should be connected to the new tee fitting. Please clarify.	Yes, once work is complete, the blind flange will be removed and a new dismantling joint installed to connect the tee to the existing 30" DIP. See addendum #3.	11/4/2020	Addendum #3
10/21/2020	Blocka	1. The Electrical Handhole and Manhole Schedule on 00E04-04 calls out MH-5. We are unable to locate MH-5 on the drawings. Please provide location for MH-5.	Refer to dwg 25E01-06 for the manhole MH-5 location. MH-5 is located north of the transformer area	11/10/2020	
		2. MH-6 is shown on drawing 25E20-01 but is not shown on the Electrical Handhole and Manhole Schedule. Please advise if MH-6 is required and if so, please provide details.	Change the manhole shown in 25E20-01 to MH-5. Please refer to MH-5 dimensions in the Handhole Manhole schedule	11/10/2020	Addendum #4
		3. On drawing 25E20-05 there are two (2) light fixtures noted as "J". There is no type J shown on the Luminaire Schedule on 00E04-03. Please advise if this fixtures should be Type J1 or J2.	Change the Type J fixture to Type H for the exit light. Refer to updated addendum 3 drawings	11/10/2020	Addendum #4
10/21/2020	Rados	We respectfully request that the qualification requirements listed in Attachment I be changed to include water and wastewater pump stations. Steve P. Rados, Inc. has extensive history of rehabilitating existing water and wastewater pumps stations; and constructing new water wastewater pump stations that have similar characteristics and complexity to	No. Treatment Plant Experience is needed.	10/23/2020	email

Date	Company Name	Question(s)	Response	Date of Response	How Responded
10/21/2020	Balfour Beatty	<p>14. 1 Contractors performing construction work on the Project described in the Agreement shall, in filling craft job vacancies, utilize and be bound by the registration facilities and referral systems established or authorized by the Unions signatory hereto when such procedures are not in violation of Federal law. The Unions will exert their utmost efforts to recruit sufficient numbers of skilled craft persons to fulfill the requirements of the Contractor. The Contractor(s) shall have the right to reject any applicant referred by the Union(s), in accordance with Article 12. Section 00250 PROJECT STABILIZATION AGREEMENT, page 16, Article 12 GRIEVANCE PROCEDURE: 12.1 It is mutually agreed that disputes involving the application or interpretation of a Master Labor Agreement to which a Contractor and Union are parties, and all disputes involving employee discipline or discharge, shall be resolved pursuant to the grievance and arbitration provisions of the applicable Master Labor Agreement. No employee working on the Project shall be disciplined or discharged without just cause. However, any question arising out of and during the term of this Agreement involving its interpretation and application (other than jurisdictional disputes or certain safety disputes as defined below) shall be considered a grievance hereunder and shall be resolved pursuant to the grievance procedure set forth below. Question: We would like clarification regarding the Contractor(s)'s right to reject any applicant referred by the Union(s), specifically confirming that such rejection of applicants are not subject to the grievance procedure in Article 12, nor employees discharged within the Contractor(s)'s right to reject timeframes specific to each Union.</p>	<p>Section 2.1 of the Project Stabilization Agreement ("PSA") provides:</p> <p>The provisions of this Agreement, including the local master labor agreements ("Master Labor Agreement(s)") of the Union(s) signatory to this Agreement incorporated herein by reference, shall apply to the work covered by this Agreement, notwithstanding the provisions of any other local, area and/or national agreements which may conflict with or differ from the terms of this Agreement, except as provided in Section 2.4. To the extent a provision of this Agreement is inconsistent with a Master Labor Agreement, the provisions of this Agreement shall prevail.</p> <p>Where a provision of a Master Labor Agreement is not inconsistent with this Agreement, the provisions of the Master Labor Agreement shall apply.</p> <p>Section 14.1 of the PSA provides contractors with the right to reject any applicant referred by Union in accordance with the provisions of Article 12 (Grievance Procedure).</p> <p>Section 12.1 of the PSA provides in pertinent part:</p> <p>It is mutually agreed that disputes involving</p>	11/4/2020	Addendum #3 (Q&A)

Date	Company Name	Question(s)	Response	Date of Response	How Responded
			<p>the application or interpretation of a Master Labor Agreement to which a Contractor and Union are parties, and all disputes involving employee discipline or discharge, shall be resolved pursuant to the grievance and arbitration provisions of the applicable Master Labor Agreement. No employee working on the Project shall be disciplined or discharged without just cause.</p> <p>Applying these sections of the PSA, the provisions of the applicable Union MLA are incorporated by reference into the PSA and apply where they are not in conflict with the terms of the PSA. The contractor has the right to reject an applicant referred by the Union under the provisions of the PSA. Should a Master Labor Agreement of the applicable Union provide a more specific right of rejection of an applicant, then such specific right would apply. Any dispute over application of the right of rejection would be resolved under the grievance procedure of the applicable Master Labor Agreement pursuant to the first sentence of Section 12.1 and would apply the provisions of the MLA. If, for example, such MLA allows a contractor to reject an applicant for any reason within certain timeframes and such action would not be subject to the grievance procedure of the MLA, then that provision would apply.</p>		
10/21/2020	Balfour Beatty	BID FORM SECTION 00400 ATTACHMENT L, CERTIFICATION OF MARINE SUBCONTRACTOR'S EXPERIENCE AND QUALIFICATIONS	Correction made to show 15 years	10/22/2020	Addendum #2
		<p>B. MARINE SUBCONTRACTOR MANDATORY MINIMUM EXPERIENCE REQUIREMENTS: "To demonstrate experience, the Marine Subcontractor must provide all information required below demonstrating that the Marine Subcontractor has performed at least two (2) marine construction projects within the last fifteen (15) years where the marine work was located and permitted in the San Francisco Bay Area or the Sacramento-San Joaquin Bay Delta Area (see Delta map below) which included the elements of work listed below." Question: Please confirm that the mandatory minimum experience for the marine subcontractor or Bidder is at least 2 marine construction projects within the last fifteen (15) years and not six (6) years as indicated on the form on pages 00400-L-4 and 00400-L-5.</p>	Yes. This is acceptable.	10/22/2020	Addendum #2

Date	Company Name	Question(s)	Response	Date of Response	How Responded
10/21/2020	Ferguson	1) 30" RAW W WATER LINE AT RETAINING WALL: Drawing P48 is showing the 30" RW water line at the retaining wall at station 32 + 00. It appears that the pipe is going through the retaining wall to be exposed. Then the pipe is turning down to go back below ground. This will require a flanged 90-degree bend and flanged spool pieces extending downward to go underground. The pipe is not drawn with flanged joints. We want to make sure that we are interpreting the piping correctly, as it is drawn in the profile view. Please review and clarify this piping configuration.	Yes – a flanged 90-degree bend and flanged spool piece will be required at that location.	11/4/2020	Addendum #3
		2) 30" BUTTERFLY VALVE VAULT IN THE RAW WATER LINE: Drawing P50 is showing detail – 1, for the 30" flanged butterfly valve installation. We see the two flexible couplings on each side of the vault. The callout indicates that these couplings are to be restrained. The restrained joint detail – P110/TP01, is showing flanged joints on each side of the sleeve coupling. The layout on drawing P50 does not show flanged joints. Is the contractor to add flanged spool pieces on each side of the sleeve couplings? Can there be a plain end by plain end piece of pipe between the two sleeve couplings and one flanged by plain end spool piece of pipe on the outside of the two sleeve couplings? Is there another restraint configuration for these couplings? Please review and clarify.	Detail will be changed by addendum. A short plain end spool piece connecting to integrally restrained push-on bell is acceptable.	11/4/2020	Addendum #3
		3) 30" BUTTERFLY VALVE VAULT COUPLINGS IN THE RAW WATER LINE: Drawing P50 is showing detail – 1, for the 30" flanged butterfly valve installation. See the snapshot in the question above. We see the two flexible couplings on each side of the vault. Looking at the plan view of the valve vault and the piping on the left side of the vault there is a 30" x 18" wye fitting. The wye fitting is only available as an AWWA C110, full body MJ wye. The lay length of the wye is 40.5 inches. To connect the MJ fitting with the 30" RW pipe will require a MJCJ connection which requires about 14". The detail of the valve vault is showing the second sleeve coupling being five feet away from the vault wall. There does not appear to be enough room between the vault and the wye fitting to install the two sleeve couplings as detailed. Would you allow the use of a restrained sleeve coupling assembly such as the Romac 400RG with wedge type restraint glands at this location? Please review and clarify the piping configuration as how to install the two sleeve couplings, the restraint rods, and the wye fitting at this location.	Agree there is not enough space for the P110 detail. Will be modified in Addendum #3. US Pipe makes a TR Flex 30"x18" wye.	11/4/2020	Addendum #3
		4) FLANGE BOLTS AND NUTS IN VAULTS: Which of the four listings for flange bolts and nuts in section – 15052-3, 2.04, B, do you consider is for bolts located in valve vaults?	It is considered exposed piping. Pressure depends on location as indicated in the pipe schedule on the drawings.	11/4/2020	Addendum #3
		5) STATIC MIX INSTALLATION IN THE 30" RAW W WATER LINE: Drawing P48 is showing the static mixer location at station – 34 + 42. There is also a callout for a 30" x 12" tee fitting with insulating flanges. We are assuming that this is a flange by flange tee. There appears to be a precast manhole or vault for the mixer. We have not been able to find a detail for the static mixer installation. We found the static mixer schedule in detail MP143 / TM03 but no detail. Are we to assume that this static mixer installation is like the valve vault as shown on drawing P50? Are there to be flexible couplings on the outside of the vault or manhole? Please provide a detail showing the installation of the flanged tee fitting and the static mixer in the precast unit.	The 30" static mixer will have a flanged connection to the 30" pipe. The 30" pipe outside the vault should have an integrally restrained bell connection within 1' to either side of vault. See addendum #3 for new detail.	11/4/2020	Addendum #3
		6) BOLTS FOR BURIED STEEL PIPE FLANGE JOINTS: Reading in specification section – 15052 – 4, 2.04, D, Steel pipe, it lists bolt sets for "exposed pipes" and for "underwater pipes and pipes adjacent to wet walls". There is no listing for a buried service location. Are we to provide the same bolt and nut type as is listed for ductile iron pipe for buried locations? Please clarify the bolt type to provide for buried steel pipe flanged joints.	See addendum #3.	11/4/2020	Addendum #3

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		7) 42" BURIED STEEL PIPE – RAW W AT ANTIOCH WTP: Drawing P49 is showing two 42" butterfly valves in the new steel pipe header. Looking on drawing 25C15, enlarged plan – A, we also see two 42" butterfly valves. There is an elevation cut reference shown for C / 25C17. Looking at this elevation view we see one 42" butterfly valve. Then looking on drawing 25C16, an enlarged layout for the flow meter vault, we see the second 42" butterfly valve. Please review and clarify that there are two 42" butterfly valves required at this location.	There is one 42" BFV. Drawing revised by addendum #3	11/4/2020	Addendum #3
		8) 12" RW (STL) WATER LINE: Drawing P48 is showing a 12" RW (STL) water line coming up the sheet from the adjacent drawing P49. See the snap shot with the line highlighted in pink. Looking in the profile view below the plan layout, the 12" RW (STL) line is not shown. The line appears to stop at the new 30" RAW W (DI) pipe. Please review and clarify this 12" RW (STL) line.	12" RW connects to the new 30" Raw W pipe. Connection will be added to profile on P48 by addendum. Steel to DIP transition will be a flanged connection with insulating joint. Connection is shown on 12" RW profile on 25C13.	11/4/2020	Addendum #3
		9) RW FLOW METER PADS TO PLANT A & B: Drawing 25C15 is showing section – B for the two 12" flow meter pads. The above ground pipe and fittings are drawn as if they are flanged ductile iron pipe and fittings. Is it your intention to have flanged joints in the steel piping as shown in the section view? The buried fittings are drawn as MJ joint type fittings. Please review and clarify the type of joints to provide for the exposed and buried steel piping.	Above ground 12" RW joints are flanged as shown. Buried steel pipe should be welded joints.	11/4/2020	Addendum #3
10/22/2020	Ferguson	1) 2" AIR VACUUM AND AIR RELEASE VALVES: Looking at detail P240 / TP01, we see the layout for 3" and smaller air valves. The air vacuum valve is shown to have a threaded inlet. Reading in specification section – 15119-2, 2.01, CARV 910 – Combination Air Valves, Water Service, it is indicating an Apco, Series 140C, with a 2" flanged inlet connection. Please review and clarify which inlet connection type is to be provided.	Provide screwed inlet. Will modify by addendum.	11/4/2020	Addendum #3
		2) WATER LINE BLOWOFF – DIRECT BURY INSTALLATION: Drawing TCP06 is showing detail – CP733, the blowoff – direct bury configuration. We note the callout for the pipe going from the 6" gate valve over to the 12" riser pipe, indicated to be a PE X MJ pipe. We are assuming the plain end will connect to the gate valve. The tee fitting is drawn as a 12" x 6" flanged tee fitting. Should the tee fitting be a MJ end type fitting? Should the pipe be designated as a flanged by plain end pipe? Please clarify.	Detail Revised by addendum	11/4/2020	Addendum #3
		3) BLOWOFF DETAIL – CAP / BLIND FLANGE: TCP06 is showing detail – CP733, the blowoff – direct bury configuration. The bottom of the 12" riser pipe has a callout for a "12" – DI cap – blind flange". Refer to the snapshot of the detail above. The item is not actually drawn as a "blind flange". It is drawn as if indicating a ductile iron push-on type cap. Is the intent for this sump created in the piping to be a short flanged by flanged spool piece with a blind flange provided at the end of the spool piece? Does the contractor have the option to provide either one of these configurations? Does the cap have to be restrained? Please review and clarify the type of cap or blind flange that is to be provided at the blowoff assembly.	Detail Revised by addendum	11/4/2020	Addendum #3
		4) WATER LINE BLOWOFF – GATE VALVE: Drawing TCP06 is showing detail – CP733, the blowoff – direct bury configuration. Looking at the callout for the gate valve it is stating that the valve is to be a "flanged gate valve". Then below that is has the (MJ X MJ). Does the contractor have the option to provide either one of the valve body types of valve? Please clarify.	Detail Revised by addendum	11/4/2020	Addendum #3

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		5) <u>BLOWOFF VALVE 6" DUCTILE IRON PIPING</u> : Looking at the detail CP733, we notice that the tangential outlet appears to have a MJ bell connection. Then the optional bottom outlet alternate is showing a 6" flanged 90-degree bend fitting. Does the contractor have the option to provide either flanged or MJ piping for the blowoff? If the tangential outlet and the gate valve are MJ bells, then the ductile iron pipe connections to these MJ bells would have to be with a MJC restrained joint assembly. The detail does not specifically state to provide MJC connections. When the blowoff riser pipe is located some distance away from the main pipeline, such as those along Lone Tree Way, can either Flex-Ring restrained joint pipe or MJ pipe with MJC connections be provided at the contractor's option. There would have to be transition adapter fittings provided where necessary. Please review and clarify the piping	Detail Revised by addendum	11/4/2020	Addendum #3
		6) <u>BLOWOFF DETAIL – TOP BLIND FLANGE</u> : TCP06 is showing detail – CP733, the blowoff – direct bury configuration. We see the blind flange on top of the 12" riser pipe. The callout key note no – 2, indicates to provide the blind flange with SST bolts and nuts. There appears to be something stubbed out from the blind flange. Is this a threaded plug? Is this a quick connect coupling and cap? Please clarify the item stubbed up on the blind flange.	2" NPT outlet with plastic plug. Detail Revised by addendum	11/4/2020	Addendum #3
		7) <u>BLOWOFF DETAIL – TOP BLIND FLANGE BOLTS & NUTS</u> : TCP06 is showing detail – CP733, the blowoff – direct bury configuration. The callout key note no – 2, indicates to provide the blind flange with SST bolts and nuts. The specifications in section – 15052-3, 2.04, B, 4, indicates that for buried ductile iron flanges to provide ASTM A307, Grade B7, bolts. Is the intent of the note for all the flanged ductile iron pipe joints in the blowoff assembly to have SST bolts? If this is correct, do the bolts and nuts have to be as described in paragraph B, 3, for underwater joints, ASTM A193, Grade B8M with grade 8M nuts? Please clarify the flange joint bolts and nuts at the blowoff assembly.	Blowoff bolts and nuts should meet Section 15052 paragraph 2.04.B.4. that requires ASTM A193, Grade B7 bolts. Detail revised by addendum.	11/4/2020	Addendum #3
		8) <u>CARV ASSEMBLY – 2" PE TUBING</u> : Detail CP741 is showing a 2" PE tubing extending from the tap on the water line over to where the combination air valve will be installed. Looking in the specifications section 15265-5, 2.07 – PE TUBING AND FITTINGS, it lists tubing from ¼" to ½" sizes. We did not find it listed in the pipe schedule. Is the PE tubing to be copper tube size or is it to be iron pipe size OD? Please review and clarify the specifications for the 2" diameter size tubing.	PE tubing for CARV assembly to be per AWWA C901. See addendum #3.	11/4/2020	Addendum #3
		9) <u>CARV ASSEMBLY – 2" CONNECTION ON TOP OF THE PIPE</u> : Detail CP741 is showing a 2" connection on top of the pipe with a 2" corp stop. We notice that there is the callout for a tap on top of the pipe. Then on the left side, it has a callout for a 2" saddle or tee. Reading in the specifications section – 15211 – 5, 3.01, C, Tapping ductile iron pipe, there is a chart for the sizes and pipe pressure classes. Note b, states the maximum allowable tap diameter for pipelines greater than 24" is 2 inches. Does the chart in the specifications dictate when tapping saddles are required and not the detail? Please review and clarify when tapping saddles are required to be provided.	For a ductile iron main, either a tapping saddle or a direct tap may be used for connections up to size allowed in the specifications. Only a tapping saddle may be used for sizes exceeding the direct tap allowable size.	11/4/2020	Addendum #3
		10) <u>2" ABOVE GRADE – AIR/VACUUM VALVE ASSEMBLY- DETAIL CP745</u> : Drawing TCP07 is showing the detail for the above grade air /vacuum valve. We find there are several items of piping materials that need to be addressed. Item # 5 is indicated to be a 2" 90-degree FLG X MJ elbow fitting. The detail does not indicate the type of material the elbow fitting is to be made. It appears that by the way the elbow is drawn, it is to be a ductile iron type fitting. We know that FLG X MJ fittings are made in sizes 3" and larger. We are not familiar with 2" diameter size fittings of this type. Also, there is fitting item # 6, a 2" MJ X MJ elbow fitting. Please verify the type of material for these fittings. Also please provide the manufacturer for the 2" FLG X MJ 90-degree bend fitting.	Detail Revised by addendum	11/4/2020	Addendum #3

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		11) 2" ABOVE GRADE – AIR/VACUUM VALVE ASSEMBLY- PIPE IN DETAIL CP745: Drawing TCP07 is showing the detail for the above grade air /vacuum valve. There is the item # 12 which is described as 2" DIP with restrained joints and cement mortar lining. We are not aware of anyone that manufacturers 2" ductile iron pipe. American Cast Iron Pipe Co. and U. S. Pipe have restrained joint ductile iron pipe that starts at 4" diameter sizes. Please review and clarify the restrained joint pipe to provide in this air release valve detail assembly.	Detail Revised by addendum	11/4/2020	Addendum #3
		12) 2" ABOVE GRADE – AIR/VACUUM VALVE ASSEMBLY- DETAIL CP745 PIPE TAP: Drawing TCP07 is showing the detail for the above grade air /vacuum valve. There is a callout for key item # 1, which is listed as a 2" pipe saddle or tee. Reading through the specifications we have not found a paragraph describing tapping saddles or service saddles. Please review and clarify the type or method of providing a tap on top of the ductile iron pipe.	Detail Revised by addendum	11/4/2020	Addendum #3
		13) AIR RELEASE VALVE DETAIL – CP745: Looking on drawing P48, we see the callout for detail – CP745. Next to the detail reference we see the key note # 3, which is listed to be a 2" CARV910 valve. This is the detail for an air/vacuum assembly – above grade. Looking at the detail on drawing TCP07, we see the callout for key note item # 9, which is listed to be a 2" dual body combination air release valve and a vacuum valve with the tag CARV911. The specifications in section 15119-2, 2.03, indicate that this tag valve is for sewage service. Please review and clarify the air valve type to be provided at this location.	Valve type will depend on location. CARV911 is used for brine. CARV910 is used for water lines. Detail Revised by addendum	11/4/2020	Addendum #3
		14) AIR RELEASE VALVE (CARV911): Looking at the detail on drawing TCP07, we see the callout for key note items # 9, 10 & 11, which is listed to be a 2" dual body combination air release valve and a vacuum valve with the tag CARV911. The specifications in section 15119-2, 2.03, indicate that this tag valve is for sewage service and to be an A.R. I. USA, Model D-26. This is not a dual body type of valve. It is a single body with double orifices. Please review and clarify the air release valve to be provided per this detail reference number CP745.	Detail Revised by addendum	11/4/2020	Addendum #3
		15) CONNECTION FOR 12" RW (STL) LINE: Drawing P49 is showing the new 12" RW (STL) water line extending around the Flocculator and Sedimentation Basins. We see that the line appears to connect at this location for the starting point. We have not found a detail of this connection to know what is entailed to connect the pipe. Please review and clarify this pipe connection.	P49 shows the 30" Raw Water line, see Dwg 25C03 for 12" RW line. The area shown here is a chemical line.	11/4/2020	Addendum #3
10/22/2020	Misco	When we met last week we spoke about this, can you review the following from the company we represent, Enviropax? They have been making Tube Settlers for 30 years and they don't have any exceptions to the specifications, but some of the process calculations are inaccurate. From a technical standpoint they meet everything listed in the spec's, but some the calculations on settling rates are mathematically off. Could you add us by addenda for this project?	Acceptable to list Enviropax as an equal. Tubse settler media is not listed as a major equipment item, thefore they do not need to go through the formal "or equal" requirements specified in 01600. The information they provided in this email is adequate.	10/23/2020	Addendum #3
10/22/2020	Keiwit	There are permits listed in the CEQA document that are not addressed in the specifications. Please confirm that the contractor does not need to acquire the following permits and they have been acquired by the City. If so please provide copies of the permitting documents.- Delta Stewardship Council- Cert of Consistency with the Delta Plan - BART construction permit - State lands comission- General Permit	- Delta Stewardship Council- Cert of Consistency with the Delta Plan – City obtained	10/23/2020	Email
10/22/2020	Keiwit	Please confirm that the location of Panel LP-RO is within MCC-C1 as referenced on Drawing 00E03-11 and 00E03-12.	That is correct - Panel LP-RO is mounted inside the MCC	11/4/2020	
		Dwg # 00E05-02 - Ductbank Q & Ductbank S have conduits P-25-816A,C-25-811A,C-25-816A listed but these conduits are not shown on the conduit schedule. Please advise.	Missing conduits are added by addendum. See attached addendum 3 drawings	11/10/2020	Addendum #4

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		Dwg # 00E05-01 has routing in DB I for conduit # L-25-301B to HH # 8 but the conduit has no further routing from the HH #8. Please advise.	conduit L-25-301B continues in ductbank G. use the spare conduit X-25-306A to continue the cables. Replace conduit tags.	11/10/2020	Addendum #4
		There are several conduits on the Schedules that are missing the conduit size. There's just a row of # symbols in the size column. Should the size of the conduit be approximated according to the number and size of the conductors in the conduit? Please advise.	conduit schedule Excel file with conduit dimensions will be shared with the Addendum 3	11/10/2020	Addendum #4
		Conduits C-21-705B & P-21-705B do not appear on the listed drawing. The listed conduit routings also conflict with the routings of the listed segments for these conduits. Please advise.	C-21-705B & P-21-705B does not exist. Condule schedule is updated, see attached addendum drawing	11/10/2020	Addendum #4
		The description for Conduit C-21-705B indicates one of the pieces of equipment it feeds is VCP-21.0201 which does not appear on DWG. 21E10-01 or 21E10-02. Does this VCP exist on the plans?	C-21-705B & P-21-705B does not exist. Condule schedule is updated, see attached addendum drawing	11/10/2020	Addendum #4
		Conduits X-21-301A, X-21-302A and X-21-303A are listed on the Conduit Schedule but not on the listed drawing. Please advise.	Conduits X-21-301A, X-21-302A and X-21-303A do not exist. Conduits have been deleted from the schedule	11/10/2020	Addendum #4
		Dwg # 00E05-03,DB-Z & Dwg # 25E01-04, DB-Z has conduit # X-25-864A listed but this conduit is not shown on the conduit schedule.Please Advise.	The spare conduit X-25-864A was added to the conduit schedule	11/10/2020	Addendum #4
		Dwg # 00E05-03 DB section BB has 2 conduits listed as P-25-873A should one of these raceways be changed to a spare 4 "conduit with the listing of X-25-73A to match the conduit schedule. Please advise	the conduit tag on the top row should be changed to X-25-873A	11/10/2020	Addendum #4
		Dwg # 25E10-07 has conduit # C-25-216A listed as being routed to PLC-25.0001. This conduit is not listed on the conduit schedule # 25E05-04 . Please Advise	The conduit C-25-216A was added to the conduit schedule	11/10/2020	Addendum #4
		Dwg # 25E10-08 shows conduit # L-25-301B as emanating from Ductbank - G , this conduit is not listed in the conduit schedule and is not listed in the section detail for DB -G on Dwg # 00E-05-01 Please Advise.	The conduit L-25-301B was added to the ductbank section	11/10/2020	Addendum #4
		Dwg # 00E5-01 Ductbank section - G shows conduit # X-25-306A as being in DB -G but no final stub up location is Given On Dwg # 25E10-08 Please Advise	The conduit X-25-306A was replaced with L-25-301B in ductbank G	11/10/2020	Addendum #4
		DWG: 25E15-09 Detail 9 shows conduit C-25-907A segment connecting to conduit S-25-931A coming out of Ductbank M. This conduit is not listed on the Delta Diablo conduit schedule but is shown running over to LSh-25.0907. S-25-931A only has one cable in it which is shown running through the other connecting segment S-25-931B which runs to FIT-25.0905. Are there cables running in conduit S-25-931A from PCM 25.0904 to LSH-25.907 that are missing from the conduit schedule? If so, please advise of the number of conductors and the size of conduit C-25-907A.	Conduit schedule has been updated	11/10/2020	Addendum #4
		Specification Section 02552Temporary Bypass Pumping is referenced in sheet 25D01 general note 2. That Spec section is not provided. Please provide.	Reference to Section 02552 Temporary Bypass Pumping will be deleted by addendum.	11/4/2020	Addendum #3
		Specification Section 15114-2 Section 2.03 refers to the valve schedule in the Drawings, however there does not appear to be a valve schedule in the drawing package. Please provide the complete Valve Schedule referenced in specification section 15114	No manual valve schedule. Removed reference. Added valve schedule by addendum	11/4/2020	Addendum #3
		Drawing G10 Deferred Design Submittal Note 4 A list Specification Section 13122 Metal Buildings System. This Specification Section is not included in the Contract/Technical Specification. Please provide Specification Section 13122 Metal Buildings System if required.	Removed reference to 13122 in Addendum #4	11/10/2020	Addendum #4
		Drawing 25S21 General Note 2 states "roofing is not shown for clarity". There are no architectural drawings for the Chemical Storage area and no architectural details are provided in the structural drawings. Please provide details (if required) for the roofing, fascia, soffit, gutters, downspouts and any other details that apply to the Chemical Storage roofing system.	Refer to Detail S701 as shown.	11/4/2020	
		There are structural details for two canopies shown on Drawings 25C08 and 25C10 at the Delta Diablo WWTP. No roofing system is detailed for these two canopies. If a roofing system is required please provide details for these two canopies.	Refer to Detail S701 as shown.	11/4/2020	

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		Room finish schedule on drawing 00A01 for the River Pump Station and RO Building indicates that only the MCIG walls be painted. The remaining interior CMU walls are shown as exposed. Interior Paint Schedule in Specification Section 09910-3.07.A provides Concrete Masonry painting requirements. Are there any interior CMU walls that require painting per this specification section?	See updated dwg 00A01	11/4/2020	Addendum #3
		General Structural Notes, drawing G10, indicates a minimum specified compressive strength (at 28 days) of Class B concrete mix as 5,000 PSI. Table B in section 2.04 of Specification 03301, <i>Concrete Work</i> , indicates Class B as 4,500 PSI minimum specified compressive strength. Please confirm, per Order of Precedence of the Contract Documents, that the required minimum compressive strength of Class B concrete is 4,500 PSI.	For Class B, the minimum compressive strength is 4500 psi as indicated in Table B and shown on G10. 5000 psi compressive strength is only required at drilled piers as shown on G10.	11/10/2020	
		Duct Banks Specification Section 16133, 2.08 B, indicates the concrete encasement mix include, "...a red-oxide conduit encasement coloring agent as specified in Section 03301 – Concrete Work." However, Section 03301 does not provide direction regarding the quantity of red oxide Coloring Admixture (CA) required for the Class CE mix design. Please clarify the pounds per cubic yard of red oxide required for the Class CE mix.	5 pounds for cubic yard	11/10/2020	Addendum #4
		Sheet 484 of 498 has Detail "D" & "E" that states "Fill pipe to be abandoned with CLSM". Please provide clarification as to the limits of the CLSM to be installed and the total length of pipe to be abandoned.	EX 18" Raw W line and short segment of 30" Raw W line shall be abandoned and filled with CLSM from the new 30" Raw W connection point at Sta 10+00 to the location indicated on Detail D and E on Dwg P51. Total length is approximately 1750 LF. Will clarify in addendum.	11/4/2020	Addendum #3
10/26/2020	Balfour Beatty	1. Can we get the electrical conduit and cable schedules in Excel?	No	10/28/2020	email
		2. The Bid Form (page 241) does not match the Contract Bid Units page (Page 319). The bid form treats Contaminated Water and Dirt as Lump Sum items while the Contract addresses them as unit price items. Please clarify.	See addendum #3	11/4/2020	Addendum #3
		3. There are extensive Subcontractor qualification packages due one hour after the bid. Can we postpone these to four days from the bid date?	No	10/28/2020	Email
		4. Erosion Control in 01573 of the specs is defined as multiple unit price scopes of work yet the bidform(s) do not have any item line items for the four erosion control materials defined in this spec section. Please clarify.	Deleted unit price references in Section 01573 in Addendum #4. Erosion control should be included with lump sum	11/10/2020	Addendum #4
		5. The Bidform 01200-4 (n) Item 14 tells us to collect , treat, and dispose of 300,000 Gallons contaminated water to the plant treatment cycle, but does not tell us what to expect as far as contaminate or contamination levels other than a reference to hydrocarbons. Question: What are we treating the water for and what is the acceptable treatment thresholds?	See addendum #3	11/4/2020	Addendum #3
		6. Drawing 25M29 DA BRACKISH FILTER PUMP STATION TOP PLAN, upper left hand corner (approximately at grid location A/4) Note states "PIPE SUPPORT PER DET P611 EVERY 8 FEET-TYP ALL PIPES." indicated at a pipe support for the 24" ROP line. Sections DD and DE on Drawing 25M29 & 25M30 indicate P604 TYP and P602 TYP pipe supports respectively. Section DG on Drawing 25M29 & 25M31 indicate a P604 TYP pipe support. Question: Sections DD, DE and DG all are taken on the 24" ROP Line, please clarify the apparent conflict between the Note on 25M29 and the Sections.	Detail P602 is the correct pipe support detail. Updated in Addendum #4.	11/10/2020	Addendum #4
10/26/2020	Overaa	1. Is there a hazardous material survey available on structures to be removed? BAAQMD will require a survey prior to start of demolition.	No - added requirement to section 01354 for contractor to provide. Hazardous materials are not anticipated in the areas to be demolished, but if encountered will be addressed by change order. See addendum #3	11/4/2020	Addendum #3

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		2. The legend on plan sheets 25D03 and 25D04 indicates that the existing reinforcement is to remain undamaged. The existing reinforcement to be saved includes two mats at 6" on center. I is not possible to hand chip the concrete without damaging the reinforcement with this tight configuration of bar. I would suggest an alternate to remove all reinforcement and drill and dowel the new reinforcement into concrete. It would be possible to save a portion of reinforcing at existing wall and column tops. Please advise.	The existing concrete is very old with no clear documentation of strength. Post installed anchors are not a reliable option.	11/10/2020	Addendum #4
10/27/2020	National Pump	Reference specs: 16222 Low Voltage Motors 16224 Medium Voltage Motors 11312D Vertical Turbine Pumps			
		The Data Sheets in Section 11312D for the RO Feed pumps requires a 500 HP 480V motor and the Raw water pumps require 600 HP 460 Volt motors. Low voltage specification 16222 is for "up to 500", while the Medium voltage specification 16224 is for "500 HP and Larger". Please clarify the voltage requirement for both the 500 and 600 HP Motors.	The 600 HP pumps should be 4160 V. Not 460 V. Will be updated in addendum.	11/4/2020	Addendum 3
10/27/2020	San Joaquin Electric	1. Please reference drawings 25N25-10 through 25N25-28. The P&IDs offer a drawing for the RO Train No. 1 Permeate (drawing 25N25-14); however, the RO Train Permeate might be missing for the other trains since drawings 25N25-19 and 25N25-24 are missing from the set.	Drawing Nos. 25N25-19 and 25N25-24 were excluded from the bid set on purpose. Drawing No. 25N25-14 shows how the permeate from RO Trains 2, 3, and 4 combine with permeate from RO Train 1 into a common pipe header.	10/28/2020	email
		2. On drawing 00E5-02 & 00E5-03, five conduits appear in the following 5 conduits appear in the duct bank schedules that are not identified in the conduit and raceway schedule: C-25-908A, C 25-811A, C-25-816A, P-25-816A, and P-25-832A. Attached are copies of the drawings identifying the locations of these conduits. Please advise.	The conduit schedule will be updated for Addendum 4 to include the missing conduits	11/10/2020	Addendum 4
		3. Specification section 16130 describes all duct bank conduits as being 2" minimum. Drawing 00E05-01, duct bank "A" includes conduit L-21-801A. This conduit is described as being a 0.75" conduit in the conduit and raceway schedule. Please confirm that this conduit installed as shown is acceptable.	AB: the conduit L-21-801A should be minimum 2" in a ductbank as indicated in the specifications. The conduit schedule will be updated	11/10/2020	Addendum 4
10/26/2020	Ponton Industries	Bid Form, page 00400-E-3 does not list Siemens for section 16267 Medium Voltage Variable Frequency Drives even though Siemens GH180 Perfect Harmony drives are the basis for the specification and listed in the specification – please add Siemens to the list on the bid form.	the Bid Form - 00400 has been updated to match the individual specification manufacturers If not named in the current spec, equipment can be submitted as an "OR EQUAL" as specified in 01600 - Product	11/4/2020	Addendum 3
		Section 11312D, Vertical Turbine Short Setting Centrifugal Pump, spec 1.04.A – System description. Components: Pump, driver, motors and drive arrangements as specified, etc. Please confirm the driver referred to in this section is the Variable Frequency Drive and the VFD will be supplied by the pump manufacture.		11/4/2020	Addendum 3
		Section 11312D, Vertical Turbine Short Setting Centrifugal Pump, PMP-21.0301, 0302, 0303, page 11312D-14 , Motor voltage indicates 460V. Single line drawing 00E03-02 indicates the VFDs feeding these pumps are 4160V medium voltage. Please clarify motor voltage rating.		11/4/2020	Addendum 3
		Section 16264, Variable Frequency Drives 60-500HP. Please add Siemens to the list of suppliers in 2.01 Manufacturers. Siemens meets the specifications.		11/4/2020	Addendum 3
		Bid Form, page 00400-E-3 , section 16264. Please add Siemens to the list of suppliers.		11/4/2020	Addendum 3
		Section 16341, 5-Kilovolt Medium Voltage Metal Clad Switchgear. Please add Siemens to the list of suppliers in 2.01 Manufacturers. Siemens meets the specifications.		11/4/2020	Addendum 3
		Bid Form, page 00400-E-3 , section 16341. Please add Siemens to the list of suppliers.		11/4/2020	Addendum 3

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		Section 16342, 15-Kilovolt Medium Voltage Metal Clad Switchgear. Please add Siemens to the list of suppliers in 2.01 Manufacturers. Siemens meets the specifications.	Requirements unless listed as a sole source product.	11/4/2020	Addendum 3
		Bid Form, page 00400-E-3 , section 16342. Please add Siemens to the list of suppliers.		11/4/2020	Addendum 3
		Section 16343, 27-Kilovolt Medium Voltage Metal Clad Switchgear. Please add Siemens to the list of suppliers in 2.01 Manufacturers. Siemens meets the specifications.		11/4/2020	Addendum 3
		Section 16430, Low Voltage Switchgear. Please add Siemens to the list of suppliers in 2.01 Manufacturers. Siemens meets the specifications.		11/4/2020	Addendum 3
		Section 16441, Group-Mounted Circuit Breaker Switchboards. Please add Siemens to the list of suppliers in 2.01 Manufacturers. Siemens meets the specifications.		11/4/2020	Addendum 3
		Section 16444, Low Voltage Motor Control Centers. Please add Siemens to the list of suppliers in 2.01 Manufacturers. Siemens meets the specifications.		11/4/2020	Addendum 3
		Bid Form, page 00400-E-3 , section 16444. Please add Siemens to the list of suppliers.		11/4/2020	Addendum 3
10/26/2020	Ferguson	1) 30" BFW PIPING DISCHARGE LINE: Drawing 25M29 is showing the pump discharge header as being 30" BFW (S5). Then we note that the line is designated as 34" BFW (HDPE). The profile layout on drawing 25C13 is indicated to be 30" BFW. We see that the HDPE pipe on the left side of the profile is indicated to be 34" BFW (HDPE). We find that the inside diameter of 34" DR 17 pipe is 29.76inches. Is the intent by indicating 34" diameter HDPE pipe to get the inside diameter to be as close to 30" as possible? Please clarify.	Yes - intent is to have 30" ID. Will clarify in addendum#3	11/4/2020	Addendum 3
		2) 30" BFW (HDPE) WATER LINE – DWG 25M01: The drawing is showing the 30" BFE water line along the west side of the RO Facility. Looking at the section view – P / 25M07, it is indicating that the BFW line is 34" HDPE pipe. Please clarify the correct size of the HDPE pipe at the RO Facility.	34"HDPE is the correct size with ~30" pipe ID.	11/4/2020	Addendum 3
10/27/2020	Ferguson	1) 12" BFW (HDPE) BRANCH LINE TO 24" ROP (S5): Drawing 25M01 is showing the 12" BFW line coming off the 30" BFW (HDPE) line, bypassing the RO treatment system. We are assuming that the line comes up above ground and goes through a flow meter. We have not been able to find an elevation of this above ground piping configuration. We are assuming that the pipe transitions from HDPE to stainless-steel. We found a P & ID layout on sheet 25N26-01, which we believe might be the 12" bypass line with the flow meter and valves. Please review and provide a section or elevation view of this piping.	12" BFW transition from below ground to above ground is shown on Dwg 25C18, Detail A. Key note 6 details the transition from brine to SSTL. Reference added in addendum #3	11/4/2020	Addendum 3
		2) ASSUMED 12" BFW (S5) BYPASS LINE: Looking on drawing 25N26-01, we see the two electric motor operated ball valves. Reading in specification section – 15111A-3, we see the valve schedule and the valves tagged VAL-26.0301A and 26.0301B. Valve A is listed as a 2.5" valve and valve B, is listed as a 10" diameter valve. Please review and provide a piping detail showing the pipe and valve configuration.	Refer to Section Cut A on Drawing 25C18 for a detail showing the pipe and valve configuration.	11/10/2020	
		3) 24" ROP WATER LINE AIR RELEASE VALVES: Drawing 25C12 is showing the profile view of the 24" ROP (S5) elevated water line. There are two air release valves shown in the line. The Key Tags listing is indicating that the two valves are to be type CARV911. This type of air release valve is indicated to be for sewage service. Please clarify this type of air valve for the water line.	Want to keep this type of valve due to concerns with scaling	11/10/2020	Addendum 4

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		4) <u>RESTRAINED FLEXIBLE COUPLING AT 24" ROP (S5) BRACKISH FILTERED WATER PUMP STATION:</u> Drawing 25M29 is showing the 24" ROP (S5) pipe on top of the Clearwell – A structure. There appears to be a flange adapter at the 24" butterfly valve. There is a callout on the 30" BFW pipe at the same location for a "Restrained Flex Coupling". Since the coupling appears to be connecting to the valve, we are wondering if this should not be called out as a flange adapter. Reading through section – 15121 – 12, 2.04, Pipe Couplings for stainless-steel pipe we do not see a flange adapter mentioned. We are wondering if a Depend-O-Lok flange adapter would be able to be used at this location. If not, is it your intention to have restraining lugs welded onto the sides of the 90-degree bends and then restrain from the flange joint to the lugs? The BRN line has a dismantling joint in it. This might be a better fit. Please review and clarify the type of flexible coupling or flange adapter is to be provided at these valves.	Replaced 30" Restrained Flex Coupling with 30" SSTL DISMANTLING JOINT per Addendum 4.	11/10/2020	Addendum 4
		5) <u>VALVES IN THE 24" ROP LINE:</u> Drawing 25M29 is showing the 24" ROP (S5) pipe on top of the Clearwell – A structure. There is a flanged butterfly valve where the line comes up onto the top slab. The line extends across the deck to the two, wafer body static mixers and then down into the clearwell. Looking at the P & ID layout on drawings 25N25-4 and 25-5, we see two valves in the 24" line. There is one before the static mixers and there is a second valve after the mixers. The second valve does not appear on the piping drawings. Reference valve tag number VAL 25.0004A. Please clarify the second valve.	Val 25.0004A is not required. Updated in Addendum #4.	11/10/2020	Addendum 4
		6) <u>VALVES IN THE 24" ROP LINE:</u> Drawing 25N26-01, is showing the 24" ROP (S5) pipe extending across the sheet. We see on the right side of the sheet a flanged flow meter, tag No – FE-26.0301B, and two valves on each side of the meter. These have tag numbers VAL 26.0301K & L. Looking at section – M on drawing 25M06, on the left side we see the 24" ROP (S5) line turning up and then going through the exterior wall. This meter has key note # 25, which indicates flow meter FE 26.0301B. The section view does not show the two butterfly valves that are shown on the P & ID sheet. Please clarify the two butterfly valves.	Valves VAL 26.0301K and VAL 26.0301L will be deleted from Drawing 25N26-01 by Addendum 4.	11/10/2020	Addendum 4
		7) <u>24" ROP (S5) LINE THROUGH THE CLEARWELL – A TOP DECK:</u> Drawing 25M30 is showing section – DE and the 24" ROP (S5) stainless-steel line going down into the clearwell. There is a callout for the top deck penetration for detail – P308. This detail appears to be for a wall pipe. It is showing a MJ by plain end wall sleeve. We were wondering if either the floor sleeve detail P402 or P404 on drawing TP03 was an option to the MJ floor sleeve. Please review and clarify.	Detail P404 is an acceptable alternative. Updated in Addendum #4.	11/10/2020	Addendum 4
		8) <u>12" BUTTERFLY VALVE – BRN LINE:</u> Looking on drawing 25M29, we see the 12" butterfly valve downstream from the flanged mag meter. It has a key note tag No-2, which is indicated to be valve tag no – VAL 25.0904G. Looking on the P & ID sheet 25N25-91, we see the valve after the flow meter. The valve has tag no – VAL 5.0001F. Also looking in the valve schedule in section – 13447 – 14, we find the valve listed with tag number EDR-25.001F. Please review and clarify the valve tag number.	Key Tag 2 on Dwg 25M29 should be Val 25.0001F. Updated in Addendum #4.	11/10/2020	Addendum 4
10/27/2020	Condon-Johnson	Contract Drawing 25C20 (Water Treatment Plant Soil Nail Retaining Walls), General Notes No.1 references Specification Section 02268 for soil nail retaining wall design. This section has not been provided in Specifications Volumes 1-4. Please advise when this Specification Section 02268 will be made available.	02665 is the correct reference	10/28/2020	email, addendum 3
10/28/2020	San Joaquin Electric	San Joaquin Electric has the following RFI for the Brackish Water Desalination project bidding 11/17: Please reference the Luminaire Schedule on drawing 00E04-03. According to the lighting schedule, Fixture J1 is noted to be 14' with a Festoon Box; however, the drawings show (4) at 12' and (1) at 10'. Please advise.	provide pole height as indicated in the drawings. provide a festoon box on all poles where indicated.	11/10/2020	

Date	Company Name	Question(s)	Response	Date of Response	How Responded
10/28/2020	Shimmick	Specification Section 10400, 2.05 provides requirements for cast aluminum letters, with text size and font to be as indicated on the Drawings. Will cast aluminum letters be required for this project, and if so, where on the Drawings can this information be found?	Not required for project. Deleted by addendum #4	11/10/2020	Addendum #4
10/28/2020	Shimmick	Question 1. High Tide Elevation – Specification Section 02670 Drawing 210C02 indicates High Water to be around +5.75 feet. Specification Section 02670, 1.04.A states, the maximum high tide elevation is +8.90 and the low tide elevation is +1.16 feet. Please confirm what the anticipated High Tide or High Water elevation shall be near the River Pump Station and Intake Screen for purposes of cofferdam design.	The maximum high tide elevation is +8.90. Refer to Addendum 3 for updated drawing 21C02.	11/4/2020	Addendum #3
		Question 2. Steel Sheet Piling – Specification Section 02351 Specification Section 2.02.A, Interlock Sealant, states, sheet pile interlocks for cofferdams and seepage barrier shall be treated with an interlock joint sealant to reduce the potential for leakage. Based on the stiffness of the soil as indicated in the soil borings, the interlock joint sealant will not hold up and fail and will be a waste of money for the contractor. We would suggest addressing leakage potential as the responsibility of the contractor and should be left to the contractor's means and methods. We request that the requirement for adding a sealant be removed from the specifications.	See Addendum #3	11/4/2020	Addendum #3
		Question 3. Excavation Support and Protection – Specification Section 02260 Specification Section 1.04.B.J states, Maximum total deflection of shoring at any point on shoring shall not be more than ¼ inch. Based on the location of the shoring indicated on the drawings for the River Pump Station and Yard Piping, the ¼ inch deflection does not seem to be warranted as we are not adjacent to any other structures that a greater allowable deflection would potentially impact. There does not appear to be any other structures or piping that may be impacted by increasing the allowable shoring deflection to 1-1/2 inch. We request that the maximum shoring deflection be increased to 1 ½ inch.	See Addendum #3	11/4/2020	Addendum #3
		Question 4. Excavation Support and Protection – Specification Section 02260 Specification Section 3.01.B.3 states, to prevent settlement caused by pulling shoring, fill voids with pressure injected grout. It is not typical to perform grout injection in marine applications and may not be permitted by the city's environmental permits as this grouting cannot be contained during extraction.	Revised in Addendum #3	11/4/2020	Addendum #3
		Question 5. Drawing 21C01 – Section Boat Ramp Requested Please provide a section of the area at the boat ramp that includes the bulkhead / sheet pile for the existing parking lot and the dock leading to the existing pump station. Section A/21C03, only shows the detail for the boat ramp replacement. Please include the depth of the existing sheet pile installed. Please clarify if the existing concrete curb on the boat ramp is to be removed when the temporary sheet piles installed. Without as-builts of these existing sheet pile installations it will be difficult to try to design a shoring system that will not undermine the existing installations.	Record drawings of the existing sheet piles are not available.	11/10/2020	
		Question 6. Drawing 21C01 – Allowable In-River Work Window			

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		Drawing 21C01, Key Note No. 2 states, work shall be completed during allowable in-river work window (August 1 – September 30). Specification Section 01061 Attachment A, 3.3-3b, Implement In-Water Work Windows, states, Contractor to limit in-water construction from August 1 to October 31. The Department of Fish And Wildlife permits that were provided in Addendum No. 2, note that the Seasonal Work Restriction window for project-related in-stream work, excluding dewatered areas, shall be limited to the period between August 1 to November 30. Use of vibratory and impact (as necessary) drivers is restricted to the period between August 1 to November 30. Please confirm which allowable work window shall govern for sheet pile installation and removal.	Allowable in-river work window is August 1 to October 30. Updated in Addendum #4.	11/10/2020	Addendum #4
		Question 7. Steel Sheet Piling Specification Section 02351			
		Specification Section 3.02 Observation and Monitoring, states that the contractor is to visual observe and also provide vibration monitoring of the existing bulkhead sheet piles near the boat launch. During the pre-bid site walk, the existing bulkhead showed sign of severe rust and holes were observed in sections of the bulkhead. Please clarify where the vibration monitoring shall be performed based on the condition of the existing bulkhead and what means should be incorporated to protect the existing failing systems if any. Furthermore, please provide as-builts of existing bulkhead.	See addendum #3 for revised requirement. Existing bulkhead as-builts do not exist.	11/4/2020	Addendum #3
		Question 8. Bid Date – Specification Section 00100			
		Due to the complexity of this project and to allow sufficient time to thoroughly understand the design, we respectfully request the bid date be moved from November 17, 2020 to December 8, 2020. The added time is required to allow coordination among the various consultants and subcontractors involved in the project and to provide a responsible bid for the City.	No	11/10/2020	
		Question 9. Drawing 21C01 – Temporary Containment Wall			
		Per Note #2 of Suggested Construction Sequence on Sheet 21C01, “Seal the containment wall against the temporary cofferdam sheet piles to the east and west. Purpose of wall is to prevent concrete cuttings from entering river.” This current sequence will not provide a water tight contained condition south of the containment wall for boat ramp concrete demolition. Please provide clarification and intent of the containment wall and Area B sheet installation/boat ramp demolition details and sequence.	The containment sheet pile wall shall be installed to the depth of the sheet piles in Area B. Refer to updated note 2 in the suggested construction sequence on drawing 21C01 in Addendum 3.	11/4/2020	Addendum #3
10/28/2020	Red Flint Group	1. Section 13226, Paragraph 2.01 A 4: The shape, defined as flat particles with the longest axis 5 times the shortest axis, is a gravel-only standard and test procedure in AWWA B100 Standard. Most testing laboratories are unable to report this value as the test produced in AWWA B100 is not designed to be performed on fine sand grains. Can this specification be removed, along with the testing requirement in 1.04 B 1 e?	1. The requirements listed will be removed for sand. This will be updated via addendum.	11/4/2020	Addendum #3
		2. Section 13226, Paragraph 1.04 C: The independent laboratory shall be accredited by A2LA, but many laboratories specializing in water filtration media testing are not accredited by this organization. Can this requirement be removed so the testing laboratories are not limited, as the specification already requires qualifications to be submitted for approval?	2. The A2LA is the typical accreditation we follow. If there are other accreditations you would like us to consider, you are welcome to submit those during bidding.	11/10/2020	
		3. Section 13226, Paragraph 1.05 E: are the supervision services of both the sand supplier and the GAC supplier required?	3. The intent of the spec is that one of the suppliers becomes the overall media supplier. The overall media supplier would take the responsibility for all media and would need to oversee all media installation. Clarification will be made via addendum.	11/4/2020	Addendum #3

Date	Company Name	Question(s)	Response	Date of Response	How Responded
10/28/2020	Ferguson	1) <u>24" FM (DI) WATER LINE</u> : Drawing 25C03 is showing the layout for the 24" FW water line going around the new RO Desalination Facility building. We note the station number for the 90-degree bend at the southeast corner of the building is indicated to be STA 12 + 40.90'. Looking at the profile view layout on drawing 25C14, we note that at station number 12 + 40.90, there is no fitting indicated. Is it your intention to have to look at the plan view layout and the profile view layout to determine all fittings that are required for the run of pipe? Please clarify.	Yes – horizontal bends are shown in plan, vertical fittings are shown in profile. Where they can be combined, vertical fitting notes combination bend.	11/4/2020	Addendum #3
		2) <u>VALVE TAG NUMBERS FOR 18" & 30" BUTTERFLY VALVES</u> : Please check the valve tag numbers for the two valves shown on drawing 21N21-04 and the valve schedule in section 13447-12. They appear to be reversed.	Valve names are reversed. Will update valve schedule in section 13447 in Addendum #3	11/4/2020	Addendum #3
		3) <u>STATIC MIXER INSTALLATION IN THE 30" RAW W (DI) LINE</u> : Drawing 25C03 is showing the new 30" RAW W (DI) water line going to the 30" RAW W (STL) piping. At station 34 + 00, we see the callout for key note # 14 and key tag # 2. Looking at the key note we see that a new inline static mixer is to be installed. We have not been able to find a detail showing how the mixer is to be mounted. Does it require fabricated flanged end pieces of pipe or can there be flange adapter couplings provided for the ends of field cut sections of pipe? Please clarify.	See details in Addendum #3.	11/4/2020	Addendum #3
		4) <u>NEW 6" FW (DI) FILTERED WATER LINE</u> : Drawing 25C02 is showing the new relocated 6" FW water line around the new generator pad area. We do not see 6" FW pipe listed in the pipe schedule. We are assuming that the pipe and fittings are RJ type. The key note # 3, says to cut the existing pipe and connect with fittings and adapters as required. The callout for the existing pipe is 6" FW (CI). What method of restraint is allowed for the cut ends of the existing cast iron pipe? Would megalugs be allowed at isolated cases such as this? Please clarify.	Will add 6" FW to the pipe schedule, and it will be integrally restrained pipe. Yes – megalugs would be allowed at the connection to cast iron pipe.	11/4/2020	Addendum #3
10/27/2020	Harn RO	1. Drawing 25M05 lists the permeate and concentrate check valves on the RO trains as Type 621. Specification Section 15114 does not include a Type 621 check valve. Please provide additional information on the requirements for these check valves.	The Valve Type 621 shown on Drawing 25M05 is a typo. It should read "CV631". Please refer to Section 15114 for specifics on this valve type. The typo on Drawing 25M05 will be revised via addendum.	11/4/2020	Addendum #3
		2. The P&ID's for the RO trains show the flow meters to be venturi's. However, the documents do not include a specification section for venturi flow meters. Please provide the specification requirements for these flow meters.	A specification section on venturi flow meters will be added via addendum.	11/4/2020	Addendum #3
10/29/2020	DuPont	Section 11800: The feed water analysis table contains no data for bicarbonate. Is there no bicarbonate in the RO feed water?	There is bicarbonate in the RO feed water. The following table is going to be added to Section 11800 by addendum to the Feed Water Quality table shown in Paragraph 1.04.B. Average, HCO3- = 59 mg/L Maximum HCO3- = 66 mg/L Minimum HCO3 = 52	11/4/2020	Addendum #3.
		Section 11800: The Permeate Only table has negative values listed for Alkalinity for the minimum and average RO feed water quality. Please define the meaning of a negative concentration.	The alkalinity data (including the negative values presented) will be deleted (by addendum) from the Permeate Only table in Paragraph 1.04.C of Section 11800.	11/4/2020	Addendum #3.
10/29/2020	Balfour Beatty	Sheet 21D02.			
		1. Please advise the dimensions of the existing fish screen attached to the bottom of the pump.	The fish screen is approximately 4'-8" in diameter and 14'-6" long. Refer to additional drawings in Appendix J.	11/4/2020	Addendum #3.

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		2. It appears the existing fish screen support is attached to the piers similar to the 6" service air pipe. Please confirm.	The pump column is connected to the existing piers similar to the 6" air pipe. The fish screen is flanged to the bottom of the pump column and it doesn't appear that there are any supports directly supporting the fish screen. Refer to additional drawings in Appendix J.	11/4/2020	Addendum #3.
10/27/2020	Burlingame Engineers	Hope you are doing well and having an easy going week so far. We had a quick question regarding the subject project. We are providing a quote for the Diaphragm Metering Pumps described in the attached spec section and would love to know the viscosity (in centipoise) for the Sulfuric Acid?	The dynamic viscosity for the Sulfuric Acid will vary with temperature. Please assume the dynamic viscosity will range between 18 – 34.9 centipoise for this project.	11/4/2020	Email, Addendum #3 (Q&A)
10/29/2020	Balfour Beatty	Please refer to 'F' ROOF PLAN, Detail '3' and Section 'H' on Drawing 25S03 / Sheet 141. The extent of the concrete corbel is not clear when comparing Detail '3' + Key Notes 3 on Drawing 25S03 vs. Section 'L' shown on Drawing 25S04. Please confirm that extent of the concrete corbels shown are limited to quantity of eight (8) individual locations x 2.5' long as indicated in Detail '3' on Drawing 25S03 and that they DO NOT run the entire length of the wall along Grid Lines 1 & 5.	Yes there are 8 individual corbels. While the corbels (that protrude out) doesn't run entire length of the wall along Grid Lines 1 & 5, the portion of the wall with height equal to height of corbel will be concrete along the length of the wall. . See notes on Drawing S02 and S03 for more information	10/30/2020	Email
10/30/2020	Elgin	The valves for this air burst system called out in 11902 are not very clear. An air burst system is basically just a big air receiver volume of air with pressure that is unleashed on the screen to clean it with compressed air. These valves are going to be for each screen and it will include a pneumatic actuator with solenoid that is controlled by the air burst control panel (PLC based system). Section 2.02.B.3.a. is the only mention of these valves, and it has a stainless steel valve, and then references spec section 15112. This section 15112 has specific brands (which is fine) but the main rub is the stainless valve callout. These valves are incredibly over-spec'd since it's only compressed air, and it's inside a building. Section 15112 does not really have a good callout for the valves we need for the air burst – the general valves are water valves (too slow) and the higher performance (maybe fast acting?) are going to be these expensive stainless valves with much higher pressure ratings. Typically we have lug style fast-acting butterfly valves that are rated at 200 psi max, with ductile iron painted body with stainless disk and rubber seals. When we've been forced to use water valves in previous projects we have had trouble with being able to open them consistently (or have any control over the burst size). Generally the spec for the air burst system is open (which I like), so it would be great to have freedom for the valves as well. If it's simply a brand I can work around that, but would prefer to have freedom on that as well.	Valve type 521 per Section 15112. Valve shall be electrically actuated per 13447.	11/4/2020	Addendum #3
10/29/20	Ferguson	1) BRINE (HDPE) WATER OUTFALL DETAIL: Looking on drawing 25C07, we see the callout for the 12" Brine Discharge into Existing Outfall Chamber, with the detail reference – 3 / 25C09. We also note that the ball valve is indicated to be valve tag number – VAL 25.0905E. Looking at this detail – 3, we note that the pipe is indicated to be 14" BRN, not 12". Looking on sheet 25N25-92, we see the 14" Brine line going into the outlet structure. The ball valve has tag number VAL 25.0905D, on this sheet. Please review and clarify the size of pipe into the Outfall Chamber and the valve tag number.	The correct valve number is Val 25.0905D. The valve size is 12". An adapter from the 14" OD HDPE pipe to the 12" ball valve is included in Addendum #4.	11/10/2020	Addendum #4

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		2) <u>BRINE FLOW METER VAULT VALVES</u> : Drawing 25C09 is showing the detail – 1, for flow meter valve vault at the Delta Diablo WWTP Brine yard piping. The HDPE piping at the vault is indicated to be 14” size, which is the outside diameter of the pipe. The HDPE pipe is connecting to flanged valves and a flow meter inside the vault. The three valves inside the vault are indicated to be 12” flanged gate valves. To be able to connect the 14” HDPE flange adapter to the valves, the valves need to be 14” diameter valves. Please review and clarify the size of the three valves and flow meter in the vault.	Modified HDPE pipe to gate valve connection by addendum #4	11/10/2020	Addendum #4
		3) <u>BRINE PIG RETRIEVAL VAULT VALVE</u> : Drawing 25C09 is showing the detail – 2, for the Pig Retrieval vault at the Delta Diablo WWTP Brine yard piping. The HDPE piping coming into the vault is indicated to be 14” size, which is the outside diameter of the pipe. The HDPE pipe is connecting to flanged gate valve inside the vault. The valve inside the vault is indicated to be a 12” flanged gate valve. To be able to connect the 14” HDPE flange adapter to the valve, the valve needs to be a 14” diameter valve. Please review and clarify the size of the pipe and valve inside the vault.	Modified HDPE pipe to gate valve connection by addendum #4	11/10/2020	Addendum #4
		4) <u>BRINE (HDPE) WATER OUTFALL VALVE VAULT DETAIL</u> : Looking on drawing 25C07, we see the callout for the 4’ X 4’ valve vault in the Brine Discharge line going into Existing Outfall Chamber, We also note that the ball valve is indicated to be valve tag number – VAL 25.0905E. The valve is indicated to be a full port ball valve. The valve does not have a V type tag code indicated, as so many of the other valves have. Reading in the ball valve specification section – 15111 – Ball Valves, the only subparagraph that indicates that it is for valves 6” and larger, is paragraph 2.07. From what we can determine from the plans, this valve is a manually operated valve. Please clarify that this is the specification paragraph that applies to this valve.	Valve is metal body ball valve Type VBV 350 in accordance with Section 15111-2.09. See Addendum #4.	11/10/2020	Addendum #4
10/30/2020	Ferguson	1) <u>BRINE GATE VALVES AT THE RR JACK & BORE</u> : Drawing P23 is showing the two gate valves at the Union Pacific RR jack and bore piping. The HDPE piping coming to the gate valve is indicated to be 14” size, which is the outside diameter of the pipe. The HDPE pipe is connecting to flanged gate valves. To be able to connect the 14” HDPE flange adapter to the valve, the valve needs to be a 14” diameter valve. Please review and clarify the size of the pipe and valves at the jack and bore.	There is no jack & bore at the UPRR crossing – only a casing. 12” GV are specified. Will revise pipe to valve transition in addendum #3.	11/4/2020	Addendum #3
		2) <u>HORIZONTAL DIRECTIONAL DRILLING CASING PIPE</u> : Looking on drawing P26 we see the callout for the 14” Brine pipe to be installed inside a 28” casing pipe. Specification section – 02413-1, 1.01 Summary, indicates the pipe will be a 28” HDPE brine water pipe. Drawing P26 shows that the casing pipe extends onto the adjacent sheet P27. Looking on sheet P27, we note that the callout for the 14” Brine pipe is now indicating that the casing pipe is to be 30” diameter. Then looking at the section views of the directional drilling, on sheet P51, sections – A & B, are indicating that the casing pipe is 36” diameter. Please review and clarify the sizes of the Brine carrier pipe.	Casing pipe is 28” diameter. Will fix other callouts by addendum.	11/4/2020	Addendum #3
		3) <u>HORIZONTAL DIRECTIONAL DRILLING BRINE PIPE</u> : Looking on drawing P27 we see the callout for the 14” Brine pipe is called out to be DR 11. Then looking at the section views of the directional drilling, on sheet P51, sections – A & B, are indicating that the brine pipe is to be DR 17. Please review and clarify the HDPE pipe rating.	Carrier pipe at HDD crossing is DR 11. Will fix other callouts by addendum.	11/4/2020	Addendum #3
		4) <u>CARV VALVE TAG NUMBER</u> : Please check the air release valve tag number indicated on drawing P33.	Tag number should be BRN-CARV-25. Will change by addendum.	11/4/2020	Addendum #3

Date	Company Name	Question(s)	Response	Date of Response	How Responded
10/30/2020	Travelers Insurance	Since 1910, Travelers Casualty and Surety Company of America (“Travelers”) and its affiliates have been pleased to provide surety bonds to construction clients. We are the largest writer of surety bonds in the United States and our customers include many of the most sophisticated and experienced general contractors and subcontractors in the United States. We have a vested interest in our clients pursuing projects such as yours under fair, reasonable and bondable terms, and we want to work with you to accomplish this goal.			
		We understand that the City of Antioch (“the City”) is in the process of procuring the Brackish Water Desalination Project (the “Project”), and that several of our customers are interested in providing you with proposals. We welcome this opportunity to alert you to two issues we have identified in the Project documents with respect to various nonstandard warranty requirements embedded in the Project specifications and consequential damages.			
		Warranties:			
		Bonded warranty periods for general contractors are normally one (1) year in duration. Please understand that even two (2) year specifications are unusual and warranty periods that are greater than two (2) years are not widely commercially available. Even for our strongest and best customers, it is difficult for us to agree to warranty periods greater than two (2) years.			
		Standard industry practice for a project owner seeking extended warranties for portions of the Project work is to require the general contractor to provide a subcontractor, supplier or manufacturer warranty of a specified, extended duration that would be “passed through” to the Owner by the Contractor, thus allowing the Owner to proceed directly against the subcontractor, supplier or manufacturer both during and following the expiration of the one year general contractor warranty obligation. These types of warranty durations typically incept at final completion or at substantial completion of that portion of the work to which the warranty applies.			
		We see that the Specifications contain many requirements for these pass-through type warranty obligations. However, the warranty requirements listed in several of the Specifications sections of the contract documents go beyond pass-through obligations and are extremely problematic. Specifically, Section 02700 (Cured-In-Place Pipe Rehabilitation—Full Structural (Pressure) (and as specified in Section 01785—Warranties and Bonds) call for a “10-year written bonded warranty for the full value of the contract with a 3.5 percent inflation allowed per year after acceptance of the liner...”. This requirement has several issues:	Section 02700 contractor requirement was revised by addendum #3 to be a manufacturer warranty	11/4/2020	Addendum #3
		First, this provision seeks to hold the Contractor liable for the 10 (ten) year extended warranty that should be solely the liability of the manufacturer. In addition, the duration not only exceeds industry standard durations for warranties of these types, but falls significantly outside of industry norms and it is difficult for us to even consider providing bonding support for such a warranty duration. In fact, a ten (10) year general contractor warranty falls so far outside industry norms that it cannot be supported by us for any customer, regardless of their financial strength and expertise.			
		· Second, a value of typical bonded warranty obligation is for a fraction of the original contract price (e.g., 10%), not for the full value of the contract. The performance risk for a particular component of the project does not equate to the full project replacement value. Here, the 10 (ten) year warranty requirement appears to only apply to the “Cured-In-Place Pipe Rehabilitation” portion of the Project, thus underscoring the position that a warranty in the amount of the full value of the contract is unwarranted and prohibitive.			
		· Lastly, the requirement that the value of the warranty increase with inflation compounds the issues I have just outlined and is not commercially available under these circumstances.			

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		Please understand that when a surety writes a bond for a contractor, it is making a judgment about the contractor's financial and operational viability. As the duration of the bonded obligation becomes longer, and the surety must assess the contractor's operation for periods of time well into the future, the certainty of the underwriting judgment may be lessened. This is the case with a long term, bonded warranty obligation.			
		Finally, please note that the specification of an extended warranty in excess two (2) years may significantly impact the cost of the Project bonds. To the extent that Travelers is willing to provide some limited amount of extended warranty bonding in excess of two (2) years at the request of a particular qualified customer, the bond premium will be adjusted to reflect the extended duration of the bonded obligation. Since the City can obtain the protection it seeks using the standard industry and trade practice of accepting pass through warranties, it is not necessary for the City to incur these increased costs.			
		Consequential Damages:			
		Another significant issue within the contract documents is that the City's damages are not limited to a liquidated amount and instead the Contractor is exposed to both liquidated and consequential damages. Specifically, in the General Conditions, Section 00700:	Pending.		
		§ 8.07A. states that "The assessment of liquidated damages under this provision shall not preclude recovery by the City of other damages...including consequential damages." It also states "This liquidated damages provision is a separate and distinct liability from any other damages that are subject to quantification resulting from such Contractor activities, for which the Contractor also shall remain liable."			
		§ 8.07F. states that "If the Engineer determines that damage to an existing utility main is due to the Contractor's noncompliance with the Contract Documents, or inadequate effort in discovering or protecting the utility main lines, ducts, or cables...the Contractor shall be responsible for the quantifiable City expenses and damages, including without limitation consequential damages... "			
		§ 13.02A.1. states that the Contractor is obligated to indemnify and hold harmless the City, among others, from and against "Any and all claims, demands, causes of action, costs, expenses, injuries, losses or liabilities...of every kind or nature whatsoever...including without limitation the payment of all foreseeable and unforeseeable consequential damages...however caused, regardless of whether the allegations are false, fraudulent, or groundless, and regardless of any negligence of the Indemnified Parties...except the sole negligence or willful misconduct or active negligence of the Indemnified Parties."			
		These types of damages and the associated risks are not insurable and, more importantly, are impossible to quantify and price.			
10/20/2020	Balfour Beatty	1. In reference to drawing 21M05 Section C call out, "Pipe bedding material per specification 02050". Please clarify which product in Specification 02050 shall be used for the pipe bedding material.	Per Section 02317-3.06.C.2.b.3, the pipe bedding material within cofferdam Area A at the River Pump Station shall be clean crushed rock per Section 02050, compacted to 90 percent maximum dry density. Callouts revised to reference 02317.	11/4/2020	Addendum #3
		2. Please clarify the coating required at the existing Plant Sedimentation Basins. Drawing 25M41 General Note 1 makes reference to spec section 09660. We have assumed that spec section should be 09960 however Appendix A in Spec Section 09960 does not list this structure.	Referenced section was revised to 09968 in addendum #3	11/4/2020	Addendum #3

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		3. Drawing 25M40, Key Note 9 requires coating of interior concrete surfaces. General Note 1 makes reference to spec section 09968 for coating requirements. This spec section appears to apply to deteriorated concrete surfaces only. Please clarify the coating system that applies to the concrete surfaces listed in Key Note 9.	Correct	11/10/2020	
		4. Drawing 25M43, Key Note 1 requires the repair and coating of areas of spalled concrete. Please identify the structural details that apply to this work. Also, provide a total surface area and quantity of spalled concrete upon which we can base our estimate of cost.	There is an allowance in the bid schedule for repair of spalled concrete since existing condition is unknown. Typical details cover spalled concrete	11/10/2020	
		5. Drawing 25M41, Photo 90 shows Plant A Sedimentation Basins having tube settler media with removable covers. Drawing 25M42 does not show the tube settlers or the covers. In review of the reference drawings contained in the appendices, we are unable to locate drawings showing the configuration of the settlers and details of the covers. Are drawings available showing this?	As built drawings were provided in Addendum #3.	11/4/2020	Addendum #3
		6. Drawing 25C09 Section 3 shows the Brine Discharge section but does not have a plan view. Please provide dimension of this existing Brine Discharge.	Reference drawing added. See Addendum #4.	11/10/2020	Addendum #4
		7. Section M/25S05 shows detail S732 for open web roof joist. Please provide this detail.	Callout S732 is incorrect. Typical S731, shown on drawing 10TS16, is correct one		
		8. Drawing 25S03, detail 3 notes the "Girder by Others". Please clarify if these girders are being provided by others.	Girder by others indicate contractor to procure these girders.		
		9. Specification Section 10400, Part 2.05 Cast Aluminum Letters. Please provide quantity, text size and font if required for project.	Not required for project. Deleted by addendum #4	11/10/2020	Addendum #4
		10. Specification section 02260 requires the excavation/dewatering/shoring submittal plans to be submitted 60 days prior to any excavation work. The contract allows the Owner/Engineer a submittal review duration of up to 30 calendar days. Is the allowable schedule time for review and approval of the excavation/dewatering/shoring plan 30 or 60 days?	Submittal 60 days prior to excavation is required to allow time for revised submittal if needed.	11/10/2020	
		11. Specification section 01140 1.04 Sequence of Work and Shutdown Contracts notes: Plants A Full Shutdown No. 2A (November 1, 2021 – January 31, 2022), and Plants A and B Full Shutdown (February 1, 2022 – March 31, 2022). Under 01140 1.04 B.4, there is a note showing that "Plant A Full Shutdown No.2A will continue while Plants A and B Full shutdown is taking place. Is it the intent of the shutdown from February 1, 2022 to March 31, 2022 to have the complete shutdown of Plant A continue and utilize Plant B alone to provide potable water?	Correct	11/10/2020	
		12. Please provide a listing of new and renovated structures which require disinfection after work is performed and prior to being placed into service.	Added clarification to Section 01757. See Addendum #4.	11/10/2020	Addendum #4
		13. Specification Section 01140 contains completion dates for various construction activities however it does not provide a Notice to Proceed Date or an allowable activity duration. In order to properly evaluate the viability of achieving the dates provided, please provide either a NTP date or an activity duration.	See addendum #3	11/4/2020	Addendum #3
		14. Drawing 25S06, Detail 6 appears to indicate that the steel column at grid lines G-2 is concrete encased between elevations 152.50 and 167.79. On drawing 25S01, Section B indicates the steel column to have a base elevation of 167.79. Please clarify the base elevation of the steel column.	Steel column with base elevation of 167.79 is the correct one.	11/3/2020	Addendum #3
		15. Drawings 25A03 and 25A04 indicate a block pattern on all exterior walls. Drawing 25S03, Section H shows a poured in place 2'0" deep concrete beam on the east and west walls of the building. Please clarify how the block pattern and color is to be achieved.	Color will be added to concrete for 2' concrete beam. Notes added by addendum.	11/10/2020	Addendum #4
		16. Drawing G14, Key Note 2. States "Existing filter media and backwash troughs to be replaced. On Drawings 25M39 and 25M40 do not identify the backwash troughs to be replaced. Please clarify.	See revised key note 2 on G14 in addendum #3	11/4/2020	Addendum #3
		17. Drawing G14, Key Note 3 requires the installation of a temporary sound curtain. Please identify the location and total linear footage of curtain required.	See notes on revised G14 in addendum #3	11/4/2020	Addendum #3

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		18. Drawing 25C04, following Key Note 10 in the upper left corner of the sheet reads "Remove and replace approximately 1100 SF of AC paving from gutter and 10' beyond new piping to the north and south." Below this note a second note reads "replace in kind approximately 180 LF of curb and gutter per C102/typ. From the information contained on yard piping drawing 25C03, it would appear that the extent of damaged and destroyed paving and curb and gutter in the area west and south of the Sedimentation Basins will far exceed the quantities stated on drawing 25C04. Please clarify the intent of stating the approximate quantities of AC pavement and curb and gutter to be replaced.	Will fix quantity by addendum. Road will need repaved from the new facility to the area already shown on 25C04. Intent was not to show all paving required for pipe trenches.	11/10/2020	Addendum #4
		19. Drawing 25D02, General Note 2 makes reference to Specification Section 02552. This section is not contained in the specifications provided. Please provide.	Reference to Section 02552 Temporary Bypass Pumping will be deleted by addendum.	11/4/2020	Addendum #3
		20. Specification Section 01140, Paragraph 1.04, B. 8. Limits short-term pipeline shutdowns to 8 hours during the months of October through March. In that the re-routing of the 24" Finished Water line is necessary to begin excavation in the area of the Desalination Facility, can the transfer of flow from the existing line to the new line occur outside of the October to March period if the connections are made with wet taps and line stops?	Line stops are not allowed. Temporary bypass piping can be used as needed as described in Addendum #3	11/10/2020	
		21. Drawing 25M42 contains a note requiring the removal and replacement of existing baffle plates at the Influent Flumes. Plates are to match existing. Are as-built drawings available of the existing flumes/baffles?	As built details of existing baffle plates are not available. Note added to drawing to assume plates are 12" x 12" x 1/4" thick. Contractor to field verify prior to fabrication. See Addendum #4,	11/10/2020	Addendum #4
		22. Drawing 25M43, Photo 95 appears to show a UHMW wears strip attached to the floor under the flights. Can this wear strip be painted with the same coating system as the floor?	Wear strip can remain in place. It shall be taped off, and does not require paint	11/10/2020	
		23. Drawing 25M44, Section EP contains a note which reads "5" wall penetrations see existing drawings". In review of the existing drawings it appears that there are penetrations in the lower gullet wall however the size, elevation and spacing is unclear. Please clarify if the 5" wall penetrations can be reused without modification,	Refer to Detail C on Drawing M2 in the 1990 Phase II Renovation Drawings for the size and spacing of the penetrations in the lower gullet wall. The intent, as described in the bid documents, is to remove the piping and grout and provide penetrations with smooth finish as indicated in Keynote 18 on Drawing 25M40.	11/10/2020	
		24. On Drawing 25D03, Roof Plan, in the area of Section E/25D04 only a 6'8" strip of roof is to be completely removed with the remaining hatched area to keep the rebar in place. On Drawing 25D04, Section E/25D03, a greater area of the roof is to be completely remove and the area adjacent to the south wall is to be removed with the rebar to remain. Please clarify which is correct.	Detail (extents) shown on Drawing 25D03, Roof Plan, in the area of Section E/25D04 is correct.	11/10/2020	
		25. Drawing 25C02, Key Note 6 states that the structural drawings contain the slab and soil nail retaining wall details for the Generator, Transformer and Switchgear Pad. I cannot locate this on the structural drawings. Please clarify.	Soil nail wall is per specification 02665. Structural slab is per Typical S301	11/10/2020	
		26. Drawing 25C03, Key Note 3 states that the structural drawings contain the slab and retaining wall details for the 12KV Transformer Pad. I cannot locate this on the structural drawings. Please clarify.	Retaining wall is per typical S286 as indicated in Section H/25C05. Structural slab is per Typical S300 as indicated on Drawing 25C04.	11/10/2020	
San Joaquin Electric	11/2/2020	1. Please reference the conduit schedule.			
		Throughout the conduit schedule, there are multiple occurrences (e.g. P-21-301A, P-21-801, P-25-801A, and P-25-851A) where the ground wire is medium voltage rated in lieu of 600V. Please confirm if 600V cable is acceptable for the ground wire for these runs.	It is acceptable to use 600V cable for the ground wire for the medium voltage runs.	11/10/2020	
		2. Please reference the duct bank sections on 00E-05-01 thru 00E05-03.	Refer to Delta Diablo WTP conduit schedule	11/10/2020	

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		The following conduits are on the duct bank sections, but not on the conduit schedule: X-25-493A, P-25-935A, N-25-936A, and C-25-908A. Please provide conduit and wire information on these conduits.	on Contract Drawing 25E05.30 for the 900 series conduit schedule. WTP conduit schedule has been updated to include other missing conduits. Refer to Addendum 4 drawings.		Addendum #4
		3. Please reference the Water Treatment Plant Conduit Schedule.		11/10/2020	
		There are multiple occurrences where spare conduits with pull ropes are also called out to have ground wire. Please clarify.	Spare conduits do not need any ground cables		
		4. Please reference the Water Treatment Plant Conduit Schedule.		11/10/2020	Addendum #4
		There are multiple occurrences where the conduit size column shows "####". Please advise.	Conduit Schedule is being updated for Addendum 4.		
11/2/2020	Ferguson	1) ROFF (S5) RO FLUSH FEED LINE CHECK VALVE: Drawing 25N25-34, Membrane Flush System P & ID layout, is showing the flush pump and the 6" ROFF (S5) discharge piping. We see the check valve, tag number VAL 25.0903F. Looking on sheet 25M02 we see that the valve has the key tag number – 22, which is listed as a 6" CV632. This valve is a PVC butterfly check valve. If the pipe is stainless steel should the valve also be a stainless-steel valve? Please review and clarify the check valve material.	Drawing 25N25-34 revised at that location to show PVC pipe. It's a PVC check valve in a PVC pipe.	11/10/2020	Addendum 4
		2) ROFF (S5) RO FLUSH FEED LINE BUTTERFLY VALVE: Drawing 25N25-34, Membrane Flush System P & ID layout, is showing the flush pump and the 6" ROFF (S5) discharge piping. We see the butterfly valve, tag number VAL 25.0903D. Looking on sheet 25M02 we see that the valve has no key tag number. We do not know the type of butterfly valve to provide at this location. We are assuming that since the pipe is stainless-steel that the valve would be a stainless-steel body butterfly valve. Please review and clarify the type of valve to provide at this location.	Drawing 25N25-34 revised at that location to show PVC pipe. It's a PVC butterfly valve in a PVC pipe.	11/10/2020	Addendum 4
		3) ROFW (S5) RO FLUSH WASTE LINE BUTTERFLY VALVE: Drawing 25N25-34, Membrane Flush System P & ID layout, is showing the flush pump and the 6" ROFF (S5) discharge piping. There is the branch line for the 6" ROFW. We see the butterfly valve, tag number VAL 25.0903G. Looking on sheet 25M02 we see that the valve has no key tag number. We do not know the type of butterfly valve to provide at this location. We are assuming that since the pipe is stainless-steel that the valve would be a stainless-steel body butterfly valve. Please review and clarify the type of valve to provide at this location.	Refer to Drawing 25M03. Key Note 19 identifies VAL 25.0903G. This valve is identified as a 6" BFW 521, which is a stainless steel butterfly valve.	11/10/2020	
		4) ROFF (S5) RO FLUSH FEED LINE BALL VALVE: Drawing 25N25-34, Membrane Flush System P & ID layout, is showing the flush pump and the 6" ROFF (S5) discharge piping. We see the ball valve, tag number VAL 25.0903E. Looking on sheet 25M03 we see that the valve has key tag number VAL 25.0903G. Looking in the ball valve schedule in specification section – 1511A-3, 2.01, E, we see the valve ID number VAL-25.0903E, listed as a 4" size valve. Please review and clarify the size of the ball valve.	The V-port ball valve will be 4-inches, pending submittals from the vendor demonstrating compliance with operating conditions.	11/10/2020	
		5) FLANGED BALL VALVE SCHEDULE: Looking in the ball valve schedule in specification section – 1511A-3, 2.01, E, we see the valves listed. Do all the ball valves modulating type actuators?	Yes, all the valves listed in the schedule below Section 1511A, 2.01, E have modulating type actuators.	11/10/2020	
		6) CIPF – CARTRIDGE FILTER – INLET PIPING: Looking on drawing 25M02 we see the CIP Cartridge Filter unit and the 8" DIPF (S5) piping going to the top of the filter. We looked on drawing 25N25-32 for the RO CIP System P & ID – 3, where we found the cartridge filter tagged FLT 25.0012. The P & ID layout does not indicate the inlet piping as be (S5) type stainless-steel pipe. Please review and clarify the inlet piping for the CIP cartridge filter.	Piping inbetween the V-port ball valve (VAL 25.0012A) and the cartridge filter (FLT 25.0012) will be (S5) type stainless steel pipe.	11/10/2020	Addendum 4

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		7) VALVE TAG NUMBERS – CIP FLUSHING PUMP: Please review and clarify the valve tag numbers and sizes shown on the P & ID sheet 25N25-34 and plan drawing 25M03, CIP system lower plan. The 4" ball valve is in the 6" ROFF (S5) line.	The V-port ball valve (VAL 25.0903E) will be 4-inches, pending submittals from the vendor demonstrating compliance with operating conditions. See addendum #4 for revision to drawings to include pipe reducers to go from 6-inch to 4-inch diameter pipe and back to 6-inches.	11/10/2020	Addendum 4
		8) REPLACING 12" DIA. EFFLUNET COLLECTORS IN THE EXISTING SEDIMENTATION BASINS: Looking on drawing 25M42, we see the general note – 3, stating to replace the existing AC pipe with new C900 PVC. We see the couplings in the existing AC piping. It appears that the couplings are to have holes drilled in them per the spacing layout. Does the replacement C900 pipe need to have couplings as shown in the existing pipe? Are these existing pipe lengths to help facilitate the pipe being installed inside the basin? What type of coupling do you want provided for the connections between the lengths of C900 PVC pipe that can have holes drilled in them? Please clarify these questions.	Push on bell and spigot C900 is acceptable. Drilled holes through joint is acceptable. See Addendum #4.	11/10/2020	Addendum 4
		9) REPLACING 12" DIA. EFFLUNET COLLECTOR PIPE IN THE EXISTING SEDIMENTATION BASINS – FLUSH END: Looking on drawing 25M42, we see the general note – 3, stating to replace the existing AC pipe with new C900 PVC. We see the callout on the left end of the pipe to have a "flush end". Since this new pipe is to be C900 pipe, how do you want the "flush end", provided on the end of the run of pipe?	New pipe shall extend into the settled water channel as shown. Cut off new pipe flush with inside wall of channel. See Addendum #4.	11/10/2020	Addendum 4
		10) REPLACING 12" DIA. EFFLUNET COLLECTOR PIPE IN THE EXISTING SEDIMENTATION BASINS - OUTLET: Looking on drawing 25M42, we see the general note – 3, stating to replace the existing AC pipe with new C900 PVC. We see the existing pipe extending over to the wall of the Settled Water Channel. It appears that there is concrete at the end of the pipe. Is the water supposed to empty into the Settled Water Channel? Please clarify the pipe extending across the 4'-11" space and into the wall of the Settled Water Channel.	Yes - pipe shall extend to the settled water channel	11/10/2020	
		11) REPLACING 12" DIA. EFFLUNET COLLECTOR PIPE IN THE EXISTING SEDIMENTATION BASINS – WALL PENETRATIONS: Looking on drawing 25M42, we see the general note – 3, stating to replace the existing AC pipe with new C900 PVC. Is the new C900 pipe to be grouted in the walls at the AC pipe appears to be installed?	Yes - grout is to be installed as shown	11/10/2020	
		12) REPLACING 12" DIA. EFFLUNET COLLECTOR PIPE IN THE EXISTING SEDIMENTATION BASINS – DR RATING: What DR rating is required for the replacement 12" C900 pipe?	Pressure class 80 psi shall be provided. See Addendum #4.	11/10/2020	Addendum 4
		13) EXISTING FILTERS – INLET GATES: Drawing 25M39 is showing the layout of the existing filters. We see the callout at SG07.			
		We do not see these gates listed in the specifications for the new slide gates for the project. Looking in specification section – 13224-7, Filter Underdrain Replacement, 3.01, A, Filter Isolation, 1, a, it lists a manual slide gate installed upstream of filter inlet gate. Are these inlet slide gates to be provided in this contract? Are these existing slide gates from the previous phase of the plant? Please clarify.	The slide gates referenced (SG01 - SG08) are existing slide gates and are not being replaced.	11/10/2020	
		14) NEW 4" DIA. GALV. STEEL PIPE: Looking in section EG the cross section of the filters, in the upper left-hand corner, we see the callout for a new 4" dia. galvanized steel pipe. Is this callout from the previous project phase or is this part of the phase being bid?	The referenced callout for new 4" galvanized steel pipe is a callout from a previous project phase and does not apply to the current project that is bidding.	11/10/2020	Addendum 4
		15) REPLACE EXISTING AIR VALVE PIPING: Looking on drawing 25M40, section – EF, we see the notes # 10 and 19, indicated at the existing air release valve in the influent channel coming up from the underdrain channel. There are no sizes indicated for the piping or the air valves. Please provide the size piping to provide.	These valves are 2" as specified in 15119. Refer to drawing M1 in the 1990 Phase II Renovation drawings for more information. The intent is to replace the piping and valves with the same diameter/size as existing.	11/10/2020	

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		16) REFERENCE DRAWINGS: We see general note 3, which indicates to see existing reference drawings in the appendices for the dimensions of the existing structures. Can you advise us as to which one of the sets of drawings applies to the new work in the filters under this bid?	The Appendices are found in Volume 4 of the Bid Documents. Refer to the following drawing sets for the filters: 1956 Water Treatment Plant A Additions, 1967 Water System Improvements, and 1990 Phase II Renovation. The 1990 Phase II Renovation Drawings were used as the backgrounds on the drawing sheets for the filter improvements.	11/10/2020	
		1956 WATER TREATMENT PLANT A ADDITIONS REFERENCE DRAWINGS: We have tried to read this set of 11 x 17 drawings and they are illegible. Is there another copy of drawings for this phase of the project available	Scanned 1956 drawings are all we have. See 1967 drawings.	11/10/2020	
11/2/2020	Tesco	Specifications 17901 (field instruments), 17902 (control panels), 17903 (I/O List) & 17905 (HMI List) all define attachments that do not exist in the set of bid documents and without that information quoting the job accurately will be extremely difficult.	Schedules are missing. Will be added by addendum.	11/4/2020	Addendum #3
11/2/2020		General Structural Notes, drawing G10, indicates a minimum specified compressive strength (at 28 days) of Class B concrete mix as 5,000 PSI. Table B in section 2.04 of Specification 03301, <i>Concrete Work</i> , indicates Class B as 4,500 PSI minimum specified compressive strength. Please confirm, per Order of Precedence of the Contract Documents, that the required minimum compressive strength of Class B concrete is 4,500 PSI.	G10 indicates minimum specified compressive strength (at 28 days) for drilled piers as 5000 psi and for other structures (Class A or Class B) as 4500 psi.	11/10/2020	
11/2/2020	Kiewit	1. In reference to Specification Section 02700 1.07 Warranty, multiple Manufacturer Authorized Installers have stated that the Specified 10 year bonded warranty duration is not available. Cured in place pipe liners only carry an industry standard 3 year warranty duration. Please confirm said Specification can be revised to 3 year warranty.	A 10-year manufacturer's bonded warranty is required. See addendum #3.	11/4/2020	Addendum #3
		2. Drawing TP05 (Sheet 65 of 498) has details P607 and P608 for Pipe Supports to be founded on 2'0" CIDP (20' Deep from grade). The abbreviation "CIDP" does not appear on Drawing G06 for abbreviations. What does CIDP stand for? Does this CIDP get a permanent steel pipe/casing installed full depth?	CIDP = Cast In Place Drilled Pier. No permanent steel casing is required. Added to G06 by addendum #4.	11/10/2020	Addendum #4
		3. Spec Section 02467A is for Drilled Concrete Piers. Does this spec apply to the CIDP supports shown in details P607 and P608 on Drawing TP05 if the CIDP has a permanent steel casing?	Yes it applies, No permanent steel casing	11/10/2020	
		4. Section A on Drawing 25C14 (112 of 498) shows drilled piers 18" Deep. Is that a typo and the piers should be 20' deep CIDP?	Yes, 20 ft is correct. Fixed in addendum #4	11/10/2020	Addendum #4
		5. Drawing 25E05-19 -Conduit Schedule 19 on DWG: 25E05-19 lists 4 conduits: P-25-791A, P-25-791B, P-25-791C and P-25-791D running from MCC-C1 to SWGR-R01. They are listed as power conduit for MCC-C1 but they do not appear on the drawings. Conduits P-25-651A through 651D are also listed as power conduit for MCC-C1 and are shown on DWG: 25E15-02. <u>Are power conduits P-25-791A through 791D required?</u>	P-25-791A, P-25-791B, P-25-791C and P-25-791D are duplicate conduits and are not required. Conduit schedule has been updated to delete the conduits	11/10/2020	Addendum #4

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		6. (Spec Section 16130-10 3.03 B.17.a, Spec Section 16133-6 3.03 H.1 Drawing 00GE00-01) The Electrical Legend identifies a dashed line as Underground Conduit, Direct Buried or in Duct Bank. The specifications state that all underground conduit is to be installed in "concrete-reinforced construction". Please confirm that all conduit shown as dashed underground conduit is required to be concrete encased reinforced duct bank, unless modified by a standard detail.	Correct, all underground conduit, unless specified should be installed in concrete-reinforced ductbank	11/10/2020	
		7. (Spec Section 16130-10 3.03 B.17.a, Spec Section 16133-6 3.03 H.1, Drawings 21E01-01, 25E01-02, 25E01-04)Do underground conduits for Site Lighting need to be installed in concrete-reinforced duct bank as per Specification 16130-10 3.03 B.17 a?	Yes, all unground conduits will need to be concrete-reinforced ductbank	11/10/2020	
		8. Is it acceptable to shut down the temporary generators being utilitied during Plants A & B full shutdown (1.04B4) & Plant A Full shutdown (1.04B5) for a period of 3 hours every 10 days for preventative maintainance? Is so, is it acceptable that the plant(s) be without power for those durations or will a backup generator need to be provided?	No - temporary generators can not be shutdown	11/10/2020	
11/3/2020	Balfour Beatty	1) 21A03 shows the coiling doors heights to be identical at 10'. The door schedule shows one at 10' and the other at 12'. Can you verify which is correct?	10'	11/4/2020	Addendum 3
		2) Can you verify operation of coiling doors (manual or motor). If the coiling doors are motor operated, can you confirm which if any doors are required to have NEMA 4 modifications?	Manual as specified. No nema mods needed	11/10/2020	
		3) 25S04 thru 25S24: Please confirm there is no base rock under the RO and Chemical Storage buildings.	Subgrade preparation for RO, Chemical and RPS is documented in TYP F101 on Sheet TS01.	11/10/2020	
11/3/2020	Kiewit	1. Spec Section 01734, 1.03 B 5 states "One 12-foot lane of traffic must be kept open in each direction unless written approval is provided by City." There are a few locations where there isn't enough room to make this work. For example, Station 168+00 on Drawings P33. Will 10' wide lanes be acceptable at locations where 2 – 12 foot lanes cannot be achieved?	10' lanes are allowed in this location - narrow lane signs will be required. Requirement modified by addendum for a specific locations.	11/10/2020	Addendum #4
		2. On the "Bid Schedule" in 00400 Bid Form - Bid Items 13,14 and 16 are 1 LS which does not match the "Bid Schedule" in Section 00510 Agreement where they are 1,500 CYD, 300,000 Gallons and 20 CYD respectively. There is no Measurement and Payment description for these Bid Items to determine if or how these will be measured and paid. Please confirm these bid items are LS and not Unit Price Bid Items.	See revised description in Addendum #3	11/4/2020	Addendum #3
11/3/2020	Kiewit	1. Drawing No. 21C01 indicates that the sheet pile work in the river shall be completed during the allowable in-river work window of August 1 – September 30. Table A-1, Impact No. 3.3-3b in specification Section 01061 Attachment A states that the In-water work window is from August 1 – October 31. Other permits included also reference an in-water work window is from August 1 – October 31. Please confirm that the in-water work window is from August 1 – October 31.	August 1- October 31 is correct. Key note on drawing was updated. See Addendum #4.	11/10/2020	Addendum #4
		2. The offsite pipelines will be installed through multiple traffic intersections. Is the contractor expected to provide temporary signal activators (e.g. signal cameras, etc...) until the traffic signal loops can be replaced?	Contractor is expected to provide traffic control plans and traffic control for project. At contractor's option, temporary signal activators can be proposed for approval by City	11/10/2020	

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		3. The thrust block detail CP131 is specifically called out in several location on sheets P47 thru P49. No other thrust blocks are called out on the drawings. Are these the only thrust blocks required?	Horiz thrust blocks are called out on P44 to P49 and 21C01 at the River Pump Station. Vertical thrust block per CP136 are called out in pipe profiles where req'd	11/10/2020	
		4. Details CP131 and CP136 call list the thrust block size by Mark No. Where are the Mark Numbers identified on the plans?	Mark numbers are identified on plan and profile drawings. CP136 is called out in profile. CP131 is shown in plan	11/10/2020	
		5. On sheet P51 Details D and E, the plans call for the existing 18" Raw Water pipe to be removed, and to cap and fill the abandoned pipe with CLSM. Does the entire length of the pipe need to be filled with CLSM?	EX 18" Raw W line and short segment of 30" Raw W line shall be abandoned and filled with CLSM from the new 30" Raw W connection point at Sta 10+00 to the location indicated on Detail D and E on Dwg P51. Total length is approximately 1750 LF. Will clarify in addendum.	11/4/2020	Addendum #3
		6. The 14" brine and 30' Raw water pipelines will be installed through multiple traffic intersections. Drawing notes state that detector loops to be replaced that are damaged by pipeline activities. Is the contractor expected to provide temporary signal activators (e.g. signal cameras, etc...) until the traffic signal loops can be replaced?	Contractor is expected to provide traffic control plans and traffic control for project. At contractor's option, temporary signal activators can be proposed for approval by City	11/10/2020	
11/3/2020	Powell Electrical	Each Medium Voltage Switchgear (Specification 16341; 16342; 16343) requires a Utility Metering section, but your specification and drawings do not state which Utility. What Utility are we to build to; PG&E or other? Please advise.	Refer to specification 16210: Utility Coordination for utility information	11/3/2020	email
11/3/2020	Powell Electrical	Powell Switchgear of Houston Texas is interested in bidding on your 27 KV switchgear, but we are not in your approved manufacturers list under Specification 16343. Can you please approve Powell for this 27KV switchgear?	the equipment can be submitted as an "OR EQUAL". The information will be reviewed during the submittal process by the engineers and will be approved if all the requirements are met. Per Section 01600.	11/3/2020	email
		Note: We did notice that you approved Powell for the 5 & 15 kV switchgear (Specifications 16341 & 16342) :			
11/3/2020	Chemtrac	Question 1 - It appears from the P&ID that the streaming current monitor tag AE/AIT 21.0604 is sensing a sample of raw water from several sources which do not contain any coagulant such as alum or polymer. Is that the case? If so, this is not a good application for any manufacturer's monitor since streaming current should measure the net charge within a minute or less after a coagulant has been injected in the process and well mixed.	No – just one source. Alum will be added upstream of the sample. Over a minute of mixing time will be provided before sample is pumped to the SCM.	11/3/2020	Email
		Question 2 - If a coagulant has been fed into the raw water upstream of the sample takeoff to the streaming current monitor, please advise what coagulants have been fed, what mixing has occurred, and what the lag time is from coagulant injection and mixing until the sample arrives at the streaming current monitor's sensor.	Alum is being fed to the flash mixer upstream of the streaming current sample. Polymer may be fed downstream.	11/3/2020	Email
		Question 3 - Can you provide a chemical analysis of the sample water being sent to the streaming current monitor's sensor?	Please see water quality information in the G sheets.	11/3/2020	Email
11/3/2020	BiWater	We have the following questions regarding the bid documents. I hope this can be addressed via addenda response. 1. RO Spec 11800. 2.02 B. Vessel Support.			

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		The specification requires either welded 316SS pickled and passivated or painted FRP. Due to the thin and tall nature of these skids in a high seismic zone it will be extremely difficult and costly to pickle and passivate welded 316SS skids. We don't believe FRP is a suitable option based on the contract drawings and seismic zone, and for them to be delivered semi-assembled. Would the engineer and owner consider carbon steel painted frame using a marine painting system for maximum corrosion and chipping resistance as an alternative used on similar Carollo projects.	Carbon steel frames painted with a marine painting system are not acceptable, and will not be considered for this project. The 316SS frames do not need to be single structures that are welded together. 316SS frames can consist of individual welded sections that are bolted together to create a single frame. The entire frame does not need to be welded together – individual, welded sections can be bolted together.	11/10/2020	
		2. V-Port Control Valves 15111A			
		The performance requirements listed in the table in section 2.01 E shows inlet pressures and pressure drops for the RO Train brine control valves. We don't understand how the inlet pressure together with the pressure drops listed can be achieved without any downstream back pressure control, as there is PVC piping downstream of the RO brine control valves. Consideration also has to be given to allow low downstream pressure for adequate low pressure flushing. We ask that the application be reviewed as a Globe valve, together with a pressure regulating valve and a bypass flush valve around both may be necessary due to high operating pressures.	Addendum 4 replaces the V-port ball valves used for the RO train brine control valves with globe valves. Addendum 4 adds a bypass flush valve around the the globe valves for use during flush procedures. Refer to Drawings 25M05, 25N25-13, 25N25-18, 25N25-23, and 25N25-28 included with Addendum 4.	11/10/2020	Addendum #4
		3. 11800 2.02 10. Consider matching the high pressure tubing to the same as the process piping material.	Believe this comment is made with regards to the 316 SST sample tubing that connects to Schedule 80 Duplex piping. We do not intend to specify duplex tubing with the duplex piping. During construction, duplex tubing may be substituted for 316 SST tubing at no additional cost to the Owner.	11/10/2020	
11/3/2020	Keiwit	1. Specification section 02260 1.04.B.1.j states that the maximum total deflection of shoring at any point on shoring shall not be more than 1/4 inch. This is not consistent with industry standards for the shoring applications on this project. Please confirm the deflection requirement of 1" which is industry standard, is acceptable.	See addendum #3.	11/4/2020	Addendum #3
		2. Specification section 02241 1.01.A.3. states: "Dewatering wells will not be used on this project due to contamination at the River Pump Station Site." Please clarify if this is only applies to the Area B Cofferdam and the River Intake Pump Cofferdam.	Clarified that dewatering wells shall not be used at the River Pump Station site. See Addendum #4.	11/10/2020	Addendum #4
11/3/2020	Shimmick	Please clarify whether the existing sedimentation basins are to be coated per Specification Section 09960 High-Performance Coatings as indicated on Drawing 25M41 General Note 1 and Drawing 25M42 General Note 1 or per Specification Section 09668 Concrete Repair and Coating as indicated in Section 09968 1.04 A.	Spec reference updated in re-issued 25M41 drawing to 09968.	11/4/2020	Addendum #3
11/3/2020	Blocka	Sheet Note 3 - Drawing 21ED01-01 - What size are the existing conductors and how many are there?	Record drawings do not indicate size or number of conductors. Existing cables will be demolished when the new system is online. No modifications are being made to the existing cables.	11/10/2020	
11/3/2020	San Joaquin Electric	1. Please reference drawing 25E10-06.			

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		Conduits "C25-216A" and "L14-214A" are shown on the drawing, but they do not appear on the conduit schedule. Please advise.	See updated schedule	11/10/2020	Addendum #4
		2. Please reference drawing 25E10-08.			
		The manhole on Plan "P" does not have a call out. Please confirm this manhole is MH-5 per the Electrical Handhole and Manhole Schedule on 00E04-04.	Updated MH tag	11/10/2020	Addendum #4
		3. Please reference drawing E25E20-01.			
		MH-6 is called out; however, no information is provided on MH-6 on the Electrical Handhole and Manhole Schedule on 00E04-04. Please provide.	Updated MH tag	11/10/2020	Addendum #4
11/3/2020	Ferguson	1) <u>FILTER VALVE NUMBERS AND DRAWING REFERENCES</u> : Looking in the valve schedule in section 13447, for the filter valves we notice that the filter numbers and the referenced drawing numbers do not correspond to the actual drawings. Drawing 25N24-05 is for filters – 1 & 3. The schedule has filters – 1 & 3, drawings indicated as being 24N25-06. Please review and clarify the valve schedule drawing number references.	The schedule in Section 13447, Electric Actuators has been revised to show the correct drawing references.	11/10/2020	Addendum #4
		2) <u>EXISTING FILTERS EFFLUENT LINES</u> : Looking at drawing 25M39, we see the two lines, one coming out of each of the filters cell halves. We see two flow meters and valves for each filter. We are assuming that these are the filter effluent lines coming out of each side of the filter. Looking in the P & ID sheets, such as 25N24-05, for filters 1 & 3, it is showing one flow meter and valve for filters # 1 & 3, not two of each. Drawing 25M39 is showing sixteen flow meters and the P & ID sheets are showing eight flow meters. The valve schedule also appears to be listing one filter effluent control valve for each filter. Please review and clarify the effluent lines flow meters and control valves.	Drawing 25M39 has been revised to show 1 flow meter and 1 effluent control valve per filter. See Addendum #4.	11/10/2020	Addendum #4
		3) <u>EXISTING FILTERS LINES BUTTERFLY VALVES</u> : Looking at drawing 25M39, we see the key notes # 9 and 13, indicating to replace the existing butterfly valves. There is no indication as to which type of butterfly valve is to be provided as the replacement valve. Are we to assume that the BFV510 general purpose AWWA butterfly valve is to be provided? Please clarify.	New Valves shall be 316 SST Type BFV 521.	11/10/2020	Addendum #4
		4) <u>EXISTING FILTERS SST EFFLUENT LINES</u> : Looking at drawing 25M39, we see note # 13, that states to install new flanged segments of 10" 316 SS pipe. There is no indication as to which type of stainless-steel pipe to provide, either the S4, schedule 40S or S5, schedule 10S, type of pipe. Please clarify.	Note on Drawing 25M39 clarifies that new pipe shall be schedule 10S. See Addendum #4.	11/10/2020	Addendum #4
		5) <u>EXISTING FILTERS DRAIN LINES</u> : Looking at drawing 25M39, we see note # 9, that states to install a new 12" drain butterfly valve. This note is also repeated on sheet 25M40, note # 4. Looking in the actuated valve schedule in section – 13447, we notice the filter drain control valves are indicated to be 8" diameter. Please review and clarify the sizes of the filter drain valves to be replaced.	Note on Drawing 25M39 clarifies that the drain valve is 8". See Addendum #4.	11/10/2020	Addendum #4
		Looking at the backflow preventer slab there appears to be a square shape in the upper left-hand corner. We do not know what this represents. The referenced backflow preventer detail shows a typical installation. We are assuming the water supply pipe is coming up to the pad from the left side. We tried to follow this line to the southwest where it appears to end on the south side of the new Bulk Chemical Storage building. Please review this piping and clarify the starting point where the 4" UW2 (PVC) water lines comes to the backflow preventer slab.	The water supply comes from the existing 12" FW. Piping was modified on 25C03 in addendum #3 to clarify. Yes - water supply comes from the left side, goes thru the BFP and then splits going to the tank and also back to the chemical storage building.	11/4/2020	Addendum #3
		7) <u>UW2 WATER LINE TO THE BULK CHEMICAL STORAGE BUILDING</u> : Looking on drawing 25C03, we see the 4" UW2 (PVC) water line extending over to the new Bulk Chemical Storage building. Looking on drawing 25P03, it is showing a 2" UW2 water line connecting to the building line. Is it your intention to have the 4" line reduce down to 2" at the building? Please clarify this UW2 water supply line.	The water supply comes from the existing 12" FW. Piping was modified on 25C03 in addendum #3 to clarify. There are two water supplies to the chemical storage area: a 4" UW2 that enters the east side of the chemical feed area and a 2" FW that enters the south side of the chemical feed area. 4" UW2 can reduce down to 2" at the building.	11/4/2020	Addendum #3

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		8) <u>BACKFLOW PREVENTER DETAIL M310</u> : Drawing TM01 is showing the backflow preventer detail. There is no indication as to the type of pipe to provide. We are assuming that the buried water lines coming to the pad are the 4" PVC lines, shown on sheet 25C03. We need to know what pipe to provide for the buried reducers and the two vertical pipes coming up through the concrete slab. Please review and clarify.	Yes - buried pipe is 4" PVC. Vertical pipe and aboveground pipe should be 4" ductile iron. Added note in Addendum #4.	11/10/2020	Addendum #4
		9) <u>GAC CONTACTORS PIPING AND VALVES</u> : Looking on drawing 25M07, section – R, we see the 4" UW2 (P1) PVC pipe coming up above grade going to the new GAC contactor vessel. The piping appears to be showing two 4" wafer/lug butterfly valves in the line.	Key Tags 9, 22, 23, and 24 on DWG 25M07 are inaccurate. They will be revised by addendum #4 to show the following: Key Tag 9 - TNK 25.0903 - Membrane Flush Tank Key Tag 22 - VAL 71.5001A - 4" BFV 530 Key Tag 23 - VAL 71.5001B - 4" BFV 530 Key Tag 24 - VAL 71.5001C - 4" BFV 530	11/10/2020	Addendum #4
		See the key tags items # 22 and # 23. Looking in the key tag schedule these two numbers are indicated to be level transmitters. We also note that there is the key tag number – 9, which is indicated to be a flow totalizer is shown on the GAC vessel. Please review and clarify the key tag numbers on this sheet.	Key Tags 9, 22, 23, and 24 on DWG 25M07 are inaccurate. They will be revised by addendum #4 to show the following: Key Tag 9 - TNK 25.0903 - Membrane Flush Tank Key Tag 22 - VAL 71.5001A - 4" BFV 530 Key Tag 23 - VAL 71.5001B - 4" BFV 530 Key Tag 24 - VAL 71.5001C - 4" BFV 530	11/10/2020	Addendum #4
11/4/2020	Overaa	1. Section 02700-3, 1.07 WARRANTY Sub-paragraph B. Special Warranty calls for a 10-year written bonded warranty for the full value of the contract with a 3.5% inflation allowed per year. Bonding companies are unable to provide 10-year warranty bonds. Warranty bonds have additional costs when exceeding a standard 1-year term. Will the City accept a two year warranty bond which we understand may be available? See attached surety letters addressing warranty.	Changed to Manufacturer's warranty in addendum 3	11/4/2020	Email and Addendum 3
11/4/2020	Pacific Water Resources	In Section 11312, all of the motors are rated 460/480 V per the Pump Schedule.			
		The Low Voltage Motor Section 16222 only covers motors up to 500HP but the Raw Water Pumps are 600HP.	600 HP motors are 4160 VAC. Changed in addendum 3.	11/4/2020	Addendum 3.
		Please confirm if that low voltage section should include motors up to 600HP.	600 HP motors are 4160 VAC. Changed in addendum 3.	11/4/2020	Addendum 3.
11/4/2020	Brentwood Industries	1. 11300-1.03-A: Eight (8) settling areas per basin, each area 16'x16', equals 2048 ft2 of settling area per basin. For flow rate of 8.5 MGD per basin this results in a unit settling rate of 2.88 gpm/sf as opposed to 2.5 gpm/sf listed.	OK	11/10/2020	
		2. 11300-2.02.B.2: Brentwood is quoting model IFR6036 tube settlers which have a design application rate of 3.0 gpm/sf. As no elevations of existing tube settlers/supports are known it must be confirmed there is sufficient space available for 36" vertical height tube settlers.	Existing tube settler info is provided in Addendum 3	11/4/2020	Addendum 3.
		3. 11300-2.02.B.1: Brentwood Tube Settlers are certified by NSF International to meet the NSF/ANSI 61 Standard for safety in potable drinking water. There is no certification by the FDA for Brentwood Tube Settlers.	Updated to NSF 51. See Addendum #4.	11/10/2020	Addendum #4
		4. 11300-2.02.B.2: No information regarding existing tube settler support structure found in plans or appendices. Brentwood has assumed existing supports are on 8'-0" centers to accommodate 8'-0" long tube settler modules.	Contractor to field confirm existing supports and confirm whether modifications are required, as noted.	11/10/2020	
		5. 11300-2.02.B.2: Please reference IB-0005 (attached), Tube Settlers Support Criteria, for design information. Existing supports must be evaluated prior to installation, by others, for structural integrity.	Contractor to confirm existing supports and conduct analysis as recommend by vendor.	11/10/2020	Addendum #4

Date	Company Name	Question(s)	Response	Date of Response	How Responded
11/4/2020	Overaa	1. P&ID 21N76-01 shows the 6" PA (S4) line teeing off after compressor prior to connecting to TNK 76.0103. 21M01 shows the 6" PA (S4) without a tee. Please confirm that 21M01 is correct.	Contractor has the option of installing either way, confirm with vendor.	11/10/2020	
		2. P&ID 21N76-01 shows a PRV and multiple filters after the compressor. These are not shown on the plot plans 21M01 or 21M03. Please confirm P&ID is correct and provide size.	These are removed by Addendum #4.	11/10/2020	Addendum #4
		3. P&ID 21N76-01 or 21N21-01 do not give size to reduce to Fish Screen Compressor. Please provide size.	Reduce as required.	11/10/2020	
		4. TNK 76.0201 receiver tank shown on P&ID 21N76-02 is not shown on plot plans. Please confirm that the P&ID is correct and provide location.	This because it is a small receiver tank underneath the compressor.	11/10/2020	
		5. There are multiple P&ID's that have a boundary line listed as PBV or PBC. Please confirm that PBV is Provided By Vendor, and PBC is Provided By Contractor.	That is correct	11/10/2020	
		6. 25N25-10 P&ID shows 10" ROF & 6" ROFF. This does not match with plan and section drawing. Please confirm P&ID is correct.	Both the P&ID and the plan and section drawings (DWGs 25N25-10, 25M01, and 25M05) show a 10" ROF pipe entering the pump can for the RO feed pumps. And both the P&ID and the plan and section drawings show a 6" ROFF pipe tying into the 10" ROF pipe.	11/10/2020	
		7. 25N25-11, 12, 16, 17, 21, 22, 26 and 27 P&ID's show RO System Fabricated and Wired on site by RO Supplier with Dotted Line Boundary. Does Mechanical Scope of Work Stop at the Boundary line?	No, the Mechanical Scope of Work does not stop at the dotted line boundary boxes that contain the text "RO system fabricated and wired on site by RO System Supplier". The boundary lines with directional arrows labeled "PBV" and "PBC" designate mechanical work that the general contractor (PBC) is responsible for, versus mechanical work that the reverse osmosis membrane system supplier is responsible for (PBV).	11/10/2020	
11/4/2020	Hendriks Screen Co	-Will Atlas Copco be excepted as a or Equal compressor MFG?	Yes, see Addendum #4.	11/10/2020	Addendum #4.
11/4/2020	Hendriks Screen Co	I would like to confirm, do the intake screens on this bid have to have 150# flanges as called out on Drawings Sheet 177 of 496 (General Note #1)? Typically these flanges are just plate flanges and do not need to be a pressure rated flanged. Please confirm or give me a call to discuss. 270 – 685 - 6934	Provide as specified.	11/4/2020	email
11/3/2020	Core and Main	On sheet 101 (drawing 25C03). The Magmeter is listed as 18" FE-21.0063 and is shown as 18"			
		On sheet 114 (drawing 25C16). The Magmeter is listed as 30" FE/FIT-21-0603. This is on 18" pipe.	Should be 18" FE. See Addendum #4	11/10/2020	Addendum #4
		My question is I know it is an 18" meter but what is the correct tag number.	Under review	11/10/2020	Addendum #4
11/3/2020	Balfour Beatty	1) 25M43 note 3 calls for the removal of non-metallic sprockets, chains and flights from basins prior to coating. 25M43 Photo 95 shows what appears to be non-metallic wear strips bolted to the concrete slab under the chains. Please confirm that these need to be removed and replaced for the coating work as well.	Tape off existing wear strips. Do not coat.	11/4/2020	
		2) P&ID 21N76-01 shows the 6" PA (S4) line teeing off after compressor prior to connecting to TNK 76.0103. 21M01 shows the 6" PA (S4) without a tee. Please confirm that 21M01 is correct.	Contractor has the option of installing either way, confirm with vendor.	11/10/2020	
		3) P&ID 21N76-01 shows a PRV and multiple filters after the compressor. These are not shown on the plot plans 21M01 or 21M03. Please confirm P&ID is correct and provide size.	These are removed by Addendum #4.	11/10/2020	Addendum #4

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		4) P&ID 21N76-01 or 21N21-01 do not give size to reduce to Fish Screen Compressor. Please provide size.	Reduce as required.	11/10/2020	
		5) TNK 76.0201 receiver tank shown on P&ID 21N76-02 is not shown on plot plans. Please confirm that the P&ID is correct and provide location.	This because it is a small receiver tank underneath the compressor.	11/10/2020	
		6) There are multiple P&ID's that have a boundary line listed as PBV or PBC. Please confirm that PBV is Provided By Vendor, and PBC is Provided By Contractor.	Yes, "PBV" is an acronym for "Provided by Vendor", and "PBC" is an acronym for "Provided by Contractor".	11/10/2020	
		7) 25N25-10 P&ID shows 10" ROF & 6" ROFF. This does not match with plan and section drawing. Please confirm P&ID is correct.	Both the P&ID and the plan and section drawings (DWGs 25N25-10, 25M01, and 25M05) show a 10" ROF pipe entering the pump can for the RO feed pumps. And both the P&ID and the plan and section drawings show a 6" ROFF pipe tying into the 10" ROF pipe.	11/10/2020	
		8) 25N25-11, 12, 16, 17, 21, 22, 26 and 27 P&ID's show RO System Fabricated and Wired on site by RO Supplier with Dotted Line Boundary. Does Mechanical Scope of Work Stop at the Boundary line?	No, the Mechanical Scope of Work does not stop at the dotted line boundary boxes that contain the text "RO system fabricated and wired on site by RO System Supplier". The boundary lines with directional arrows labeled "PBV" and "PBC" designate mechanical work that the general contractor (PBC) is responsible for, versus mechanical work that the reverse osmosis membrane system supplier is responsible for (PBV).	11/10/2020	
11/5/2020	Kiewit	1. What is the dimension of the rectifier's cabinet (as shown on detail 5 of sheet 491/sheet 498) on Drawing No. CP-7 ?	The size varies depending on the manufacturer. One size that will work is 60"(H) X 36"(W) X 28" (D). However any reasonable size is acceptable. Size added by addendum #4.	11/10/2020	Addendum #4
		2. Page 6 of specification Section 13200 requires (under paragraph 2.06 - Impressed current Anode Junction Box) a NEMA 3R fiberglass enclosure anode junction box; according to detail 4 & 5 of Drawing No. CP-7 (sheet No. 491- 498), the anode junction panel is to be installed inside the proposed rectifier. Please clarify if the fiberglass anode junction box is required to be mounted inside the rectifier enclosure?	The fiberglass anode junction box is not required. The anode junction box panel is to be installed inside the ornamental rectifier enclosure as shown.	11/10/2020	Addendum #4
		3. In Specification Section 13200 Subsection 3.07A, it states that "all wiring shall be installed from the new anode junction box to the existing rectifier". The Drawings, however, show connections to new rectifiers exclusively. Please clarify if there are existing rectifiers that will be used.	There are no existing rectifiers to be utilized in this project.	11/10/2020	Addendum #4
		4.Detail 5 of sheet CP-6 is showing high silicon cast iron anode diameter of 2.66-in. at 85-pounds; however, page 5 of the specification 13200 (section 2.04) called for high silicon cast iron anode diameter of 3.74-in at 90-pounds. Please advise which anode size and weight we should consider for this bid.	The anode size should be 2.9" Dia X 84" Long – 90 lbs (3884 Z in the above table). Detail revised by addendum #4	11/10/2020	Addendum #4
		a. Also, please note that of the weight of the above mentioned anodes are inconsistent compared with the manufacturer's standard weight and dimension as shown below:			
11/5/2020	Kiewit	In the HDD section of the HDPE (drawings P26, P27 and P28), the plans call out 14" HDPE DR11 with 28" HDPE DR9 Casing. Details A and B on drawing P51 call out 14" HDPE DR17 and 36" HDPE DR9 casing. Which is correct?	See addendum #3	11/4/2020	Addendum #3

Date	Company Name	Question(s)	Response	Date of Response	How Responded
11/5/2020	Hendriks Screen Co	Also with the airburst valve's we recommend using Pneumatic fast acting quarter turn actuators I didn't see any spec for pneumatic actuators. Our standard we use is Kinetrol we also use bray and rotork	Provide electric valves as specified. Contractor may propose pneumatic valves as a value engineering proposal after bid	11/10/2020	
11/5/2020	JLCS	The fan schedule for the RO Facility (Plan Sheet 25H03) calls for fan tags SF-79 3106, SF-79 3108, EF-79 3105 and SF-793107 to be Greenheck series VAB vane axial fans. Specification section 15830 2.04 calls for tubular centrifugal fans and lists the Greenheck TCF series fan as the first acceptable manufacturer. While these are two distinctively different fans, the VAB series does not meet the aforementioned specification section calling for a tubular centrifugal fan vs the scheduled vane axial fan. Please confirm which type of fan is acceptable for these fan tags. If the VAB series fans are required, please provide a written specification for vane axial fans.	Those fan tags should be VAB vane axial fans as indicated in the schedule. See addendum #4 for modification to specification.	11/10/2020	Addendum #4
		Second, specification section 15830 2.04 C.4 calls for these fans to be furnished with a KYNAR protective coating finish. Please advise if a baked on polyester finish like the Greenheck Permator coating or the Loren Cook Lorenized finishes are acceptable.	The Greenheck Permator coating or an equivalent will be acceptable.	11/10/2020	
11/5/2020	Perry Fiberglass Products	Specification Section 13206A Brackish Water Desalination Project 1. Part 1.05 – Perry Fiberglass Products, Inc. manufactures storage tanks in accordance with RTP-1 standards, but we are not certified or stamped. Perry Fiberglass Products, Inc. could save the municipality a substantial amount of money by supplying fiberglass storage tanks in accordance with RTP-1. Question: Is a tank built in accordance with RTP-1 acceptable?	Section 13206A requires that the manufacturer of the fiberglass tanks be RTP-1 certified. Simply building a tank in accordance with RTP-1 is not acceptable; the manufacturer has to be RTP-1 certified.	11/10/2020	
		2. Part 2.01 - Comment; Perry Fiberglass Products, Inc. is an established manufacturer of fiberglass reinforced aboveground storage tanks. Question: Can Perry Fiberglass Products, Inc. be added as a named supplier?	Section 13206A requires that the manufacturer of the fiberglass tanks be RTP-1 certified. Since Perry Fiberglass Products does not appear to be RTP-1 certified, they cannot be listed.	11/10/2020	
11/5/2020	Balfour Beatty	1. The contract notes that Preliminary & Final inspections are required in the contractor's CPM for each Milestone. Please confirm the required duration for each of these inspections (Preliminary and Final) for each Milestone. Are these durations included in the Milestone completion date for each of the intermediate milestones?	Yes the Milestone durations include inspections. The duration of inspections will depend on the complexity and completeness of the work.	11/10/2020	
		2. The contract specification shows that 21-day notifications are required for shutdowns. Will this 21 day notice also be required for the scope work in Milestone 1, or can the shutdown begin at NTP?	Plant A shutdown is already planned by City to start at NTP in January.	11/10/2020	Addendum #4
		3. Specification 01140 requires a "Method of Procedure" (MOP) to be submitted to request process shutdowns(s), utility-tie-in(s), work in areas that may risk unanticipated outages, or flow diversions to accommodate site construction activities during a project. Such activities may include (but are not limited to) new tie-ins to utilities or structures, mechanical modifications to process piping or equipment, demolition, bulkhead installation, and cleaning process. The MOP process summary shows some critical dates, such as the submission of the MOP schedule 7 days prior to the preconstruction meeting. The Pre-Mop meeting to be held 28 days prior to submitting the MOP. Submitting the MOP, no later than 90 days prior to work. Review and approval of the MOP and the submission of the readiness checklist no later than 5 days prior to work. Will the MOP be required to be submitted and approved prior to starting Milestone 1 scope work?	Not for milestone 1	11/10/2020	Addendum #4

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		4. Drawing 25M29, Key Note 8 states "Existing ductbank on top of clearwell to remain. Support during construction of new slab." Demolishing an existing elevated slab under an active electrical ductbank is problematic. Equally challenging is constructing a new elevated slab tight under a supported ductbank. In order to fully evaluate the risk associated with this work, please provide a section of the ductbank showing the size and number of conduits, the reinforcing steel by number and size and the electrical and control systems which this ductbank services.	No drawing is available for existing duct bank. We acknowledge it will be challenging. Contractor can propose methods for support for review and approval by CM/City.	11/10/2020	
		5. Specification Section 09960, Appendix A states that Interior surfaces of Brackish Filtered Water PS wet well is to be coated with System EPX-C-2-PWS. On Drawing 25S34, Section DF a note reads "Coat all interior surfaces of new wetwell walls to be coated up to 3" below top of slab" with arrows pointing to the wall and floor slab. Please clarify if the top of floor slab and underside of elevated slab require coating.	Modify callout to read: "Coat interior walls and floor of wet well including existing walls. Underside of top slab does not require coating." See Addendum #4.	11/10/2020	Addendum #4.
		6. Drawing 25C04 calls for a 10' high sound/retaining wall west and south of the Bulk Chemical Storage and continuing from west to east, south of the RO Desalination Facility. Section J on Drawing 25C06 and Section B on Drawing 25C23 calls for the wall to be masonry but no further details can be located. Please provide a section through the wall showing the foundation size and reinforcing steel, block type, block reinforcing, block cap, etc.	Structural detail S410 for masonry wall is referenced on Dwg 25C23. Additional references added by addendum #4	11/10/2020	Addendum #4
		7. Drawing 25C09, Key Note 1 calls for the interior surfaces of the Existing Outlet Structure below Elevation 18.50 to be coated. Section 01140, Paragraph 1.04, B. 6. states that the maximum allowable outage is 8 hours in a 48 hour period. This narrow window of time between taking the structure out of service and returning it into service makes performing the coating work problematic. A few questions. When flow is turned off to the outfall structure, will any water remain in the bottom of the structure at Elevation 3.0? If water will remain, how deep? Will it be necessary to insert a plug in the 48" outfall line and brace it off and then pump out the structure? The data sheet for the specified coating requires the surface to be visibly dry. How will the proper dryness be determined? If the required surface preparation is performed during a single shift, will re-cleaning be required prior to coating during a subsequent shift?	The following is added to Key Note 1 on Dwg 25C09. "For bidding purposes, assume that the 48" outfall pipe will need to be temporary plugged and up to 1 foot of water will need to be pumped out by the Contractor." See Addendum #4. Section 09960-1.07A requires a qualified coating system applicator to perform work. It is expected that the qualified applicator will be capable of determining the proper level of dryness. Additionally the City will have a coating inspector on site to oversee the application. It is anticipated that re-cleaning of the surfaces would be required if coating is performed in a subsequent shift.	11/10/2020	Addendum #4

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		8. Drawing 25C10, Section B shows 2" sample lines being extended to the invert of the existing 48" outfall. In that this work is required to take place during the bypassing of flow to the Emergency Holding Pond, will a 42" pipe plug be needed in the Overflow Pipe to prevent flow from entering the Outfall Structure?	Keynote 1 on Dwg 25C10 is modified as follows: "A 2" Sch 40 PVC pipe shall also be installed parallel to the sample pipe and penetrate into the overflow chamber to serve as a sleeve for the flexible tubing shown. The 2" PVC pipe and flex tubing shall also be routed to the invert of the 48" outfall with unistrut supports on the interior wall of the chamber. Add new Key Note 4: "Work in the overflow chamber shall be performed during a plant outage from 10 pm to 6 am as described in Section 01140. If possible the outage for work in the overflow chamber shall be performed during the same shutdown as the coating work in the outfall chamber. For bidding purposes the Contractor shall assume that a plug will need to be installed in the existing 48" outfall and up to 1 foot of water will need to be pumped out.	11/10/2020	Addendum #4
		9. Drawing 25C10, Section B appears to show the 2" sample lines being embedded in the adjacent concrete so that the pipe end is flush with the 48" Outfall invert. Is embedment required or can they be attached to the existing surfaces?	Embedment of the pipes is not necessary. Attach to existing concrete surfaces.	11/10/2020	
		10. Drawing 00A01, Door Schedule shows the coiling door number 102-1 at River Pump Station with 12' high does not match 10' high at East Elevation D on 21A03. Please confirm what the door high is correct? 12' or 10'?	See addendum #3	11/4/2020	Addendum #3
11/5/2020	Haskill	Stainless Steel Pipe and Tubing Spec 15286 section 2.01 F. 3b is asking for Piping 4 inches through 12 inches in diameter to have double butt welded joint. This is not geometrically possible to do. All joints should be single "V" Butt welds, please confirm.	Double butt weld was changed to single butt weld in Addendum #4	11/10/2020	Addendum #4
11/5/2020	Haskill	Please confirm for pipe welding purposes that ASME Section IX welding procedures and qualifications are acceptable in lieu of AWS D1.1	Pipe welding shall be as specified	11/10/2020	
11/5/2020	Haskill	Per addendum 2 under the selected responses to requests for information. Response to question 2 states the CAD file will not be made available to Bidders. Will complete set of CAD files be made available to the selected contractor post bid?	Yes - selected bidder may have CAD files	11/10/2020	
		The mechanical drawings indicate tag numbers for instrumentation, equipment and valves. Please provide the complete schedules for all tagged mechanical components.	Additional mechanical schedules were provided in Addendum #3.	11/10/2020	
		Will a bid extension be permitted for an additional 2 weeks?	No	11/10/2020	
11/5/2020	San Joaquin Electric	1. Please reference drawings 25E15-101, 25E10-09, 25E10-07, 21E01-01.			
		The following conduits are shown on the said drawings, but they are not shown on the Conduit Schedule: C-25-758A, C-25-908A, C-25-216A, and X-21-832. Please advise.	See updated conduit schedule	11/10/2020	Addendum #4
		2. Please reference drawing 21E10-01.			
		Conduit C-21-122B is duplicated on the drawing. Please clarify.			
		1. Please reference drawing 25E01-05.			

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		Conduits "C-25-811A", "C-25-816A", AND "P-25-816A" are shown on the drawing, but they are not on the conduit schedule. Please advise.	See updated conduit schedule	11/10/2020	Addendum #4
		2. Please reference drawing 25E10-17 and 25E10-08.			
		Conduits L-25-211A, P-25-215B, P-25-216B, S-25-308A, and L-25-308A are all 3/4" conduits per the conduit schedule; however, spec 16130 requires 1" minimum for conduits in the slab. Please advise if 3/4" is acceptable per the contract drawings.	3/4" is acceptable at that location	11/10/2020	
		3. Please reference the Disconnect Schedule on drawing 00E04-04.			
		Drawing 25E10-03 shows (2) type "C" disconnects. Type "C" does not appear on the Disconnect Schedule. Please advise.	change the disconnect to type "B".	11/10/2020	
		4. Please reference the Disconnect Schedule on drawing 00E04-04.			
		Drawing 25E10-10 shows (1) type "D" disconnects. Type "D" does not appear on the Disconnect Schedule. Please advise.	change the disconnect to type "J".	11/10/2020	
11/6/2020	Blocka	01140 - 6, Paragraph 4. stats "Temporary Generators shall be provided by the Contractor to operate Plans A and B to meet potable water demands as needed". We cannot find any details in the contract documents that defines these requirements further. "As needed" is too vague and can be interpreted many ways. Please provide, at the minimum, single line drawings showing connection points, voltage and KW size of generators. Also please clarify duration allowed for cutover from existing service to temporary generator. Also please indicate time frame for PG&E to complete their scope of work related to this shutdown. This is critical to allow us to estimate the cost of this temporary power scheme.	See dwg 00E03-04 for temporary generator sizing	11/10/2020	
		Conduit schedules - There are several conduits that have "#####" listed in the conduit size column. Please provide conduit sizes.	See updated conduit schedules	11/10/2020	Addendum #4
11/6/2020	Keiwit	Specification Section 00200 Article 39.01 requires Escrow Bid Documents be submitted within 4 business days after bid but Article 39.11 requires it within 3 business days. Please clarify.	This was addressed in Addendum #1. Four days after bid is correct.	10/15/2020	Addendum #1
11/6/2020	LG NanoH2O	Section 1.08: Regarding the warranty terms specified in section 1.08.B.1.c.1-3, will the warranty be either of the following two types: 1) individual element performance, or 2) entire system performance? If so, please specify.	The evaluation criteria covered under Paragraph 1.08.B.1.c is based on system performance. Individual elements can be evaluated based upon failure to meet system performance criteria and the scope fo the warranty claim would be considered based upon that additional information.	11/10/2020	
		Individual element performance: Under this warranty, for the entire term, guaranteed parameters are permeate flow and salt passage from a single element, using the element specification sheet as a baseline for performance. Performance is verified by removing a single element from the system and testing for those parameters. This is a fixed-term prorated warranty.	The evaluation criteria covered under Paragraph 1.08.B.1.c is based on system performance. Individual elements can be evaluated based upon failure to meet system performance criteria and the scope fo the warranty claim would be considered based upon that additional information.	11/10/2020	
		Entire system performance: Under this warranty, for the entire term of the warranty, guaranteed parameters are permeate quality and feed pressure. Performance is verified by on-site measurement of system performance.	The evaluation criteria covered under Paragraph 1.08.B.1.c is based on system performance. Individual elements can be evaluated based upon failure to meet system performance criteria and the scope fo the warranty claim would be considered based upon that additional information.	11/10/2020	

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		Section 1.08.B.1.c.1 & 2: Annual allowances such as a 10% salt passage increase and a 7% permeate flow decrease to be guaranteed over a 5-year period are well away from standard warranty verbiage for our firm. If this is to be an individual element performance warranty as described above, it is our practice to guarantee a fixed percent increase in salt passage and decrease in permeate flow over the entire term of the warranty as opposed to obligating to an annualized amount. Our familiar fixed percentages for the entire term exceed the proposed annual percentages presented in the tender document when extended to the full term. Would it be possible to take exception to those values?	No, exceptions will not be taken to those values.	11/10/2020	
		In the event that this is a system performance warranty, we can provide guaranteed feed pressure and product TDS for the entire warranty term. We can guarantee a maximum permeate TDS of 225, based on section 1.04.C.2 "Membrane model selection must be based on the above permeate water quality with deviations in actual membrane performance up to 1.5-times the values presented in the table acceptable for warranty purposes." We can guarantee feed pressure not to exceed 379 psig , in accordance with section 2.01.B.1.d . Would this be acceptable?	No, meeting the permeate TDS and first stage feed pressure requirements alone are not adequate to fully meet the warranty.	11/10/2020	
		Section 1.08.B.1.c.3: Membrane differential pressure is affected by several factors, and fouling is one of the critical factors. Membrane fouling is mainly affected by feed water quality and operation practices, which do not typically fall under membrane supplier's responsibilities. With that in mind, would it be possible to remove this section from the warranty obligation?	No, paragraph 1.08.B.1.c.3 will remain in Section 11800.	11/10/2020	
		Section 1.08.B.1.c.1: With respect to salt passage, would it be possible to include language indicating the owners' responsibility to clean at appropriate times and in accordance with membrane and chemical suppliers recommendations, similar to sections 1.08.B.1.c.2-3?	Yes, spec revised by Addendum 4 to include that language.	11/10/2020	Addendum 4
		Section 1.04.B: For performance projections using minimum feed water quality, should pH 5.5 be used with no chemical dosing, despite the target pH of 6.5?	Yes, a pH of 5.5 should be used for minimum feed water pH. There will be no chemical dosing used for the explicit purpose of raising the pH.	11/10/2020	
		Section 1.07.C.5: Performance projections are requested for all "recovery ranges," but only 75% recovery is specified at any point in the tender. Is there another higher or lower recovery projections need be provided for?	No, the only recovery rate that projections need to be provided for is a recovery rate of 75%.	11/10/2020	
11/6/2020	Shimmik	1) Other than typical Traffic Control Permits, are there any other required permits that the contractors will be required to obtain associated with the Pipe Line Scopes of work beyond the footprint of the Water and Wastewater Plants?	Permits required are listed in Section 01060, 2.03.B.	11/10/2020	
		2) Please consider making Bid Item No. 13 a reasonable Allowance Bid Item, as no one really knows the extend of the contaminated soils in this area and any estimate would simply be a guess at the cost which a contractor would have to price heavily due to the unknown risks associated with this soil. Any underground work in this area will have the potential to encounter this material such as the 30" Temp. Pipe Reroute, Elect. Ductbanks/Vaults, as well as the pump station excavation and RAW water pipe lines.	If additional contamination in excess of quantity described is encountered, it will be covered by a change order.	11/10/2020	
		Elevation A on Drawing 25S28 calls for Timbertech Dock Side Collection Cedar Board (1 1/4" x 5 1/2") at 7" OC. A supplier has told us that this product is no longer available. Please provide an acceptable alternate material.	The Timbertech product should be Pro Legacy, or equal. Contractor shall provide submittal for review and color selection. Change callout at gridline A-7. See Addendum #4.	11/10/2020	Addendum #4

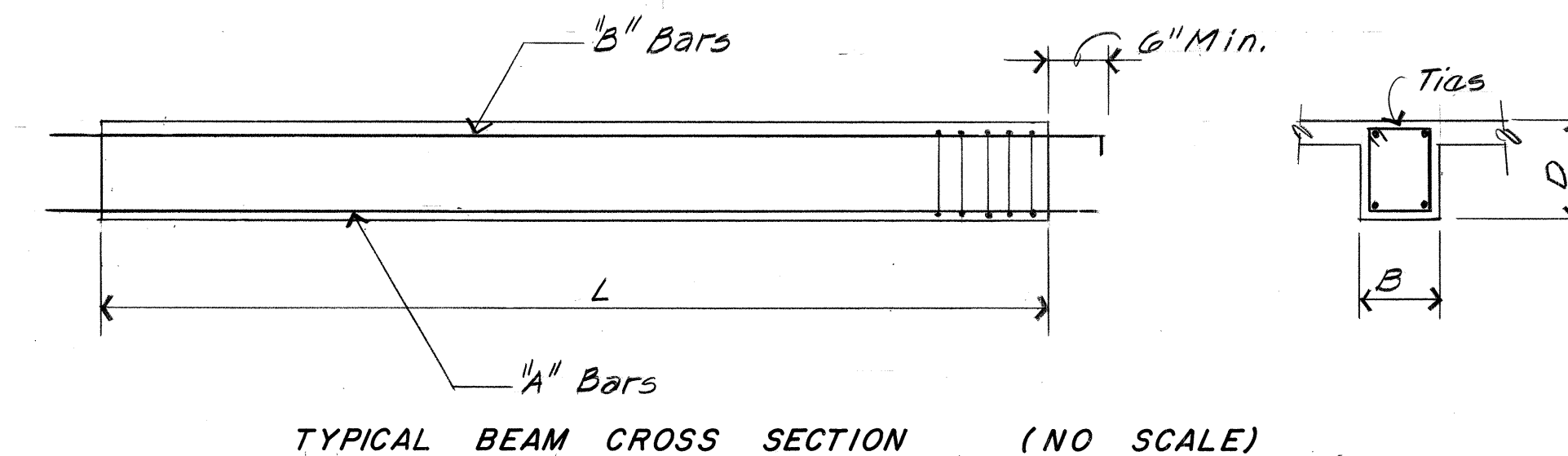
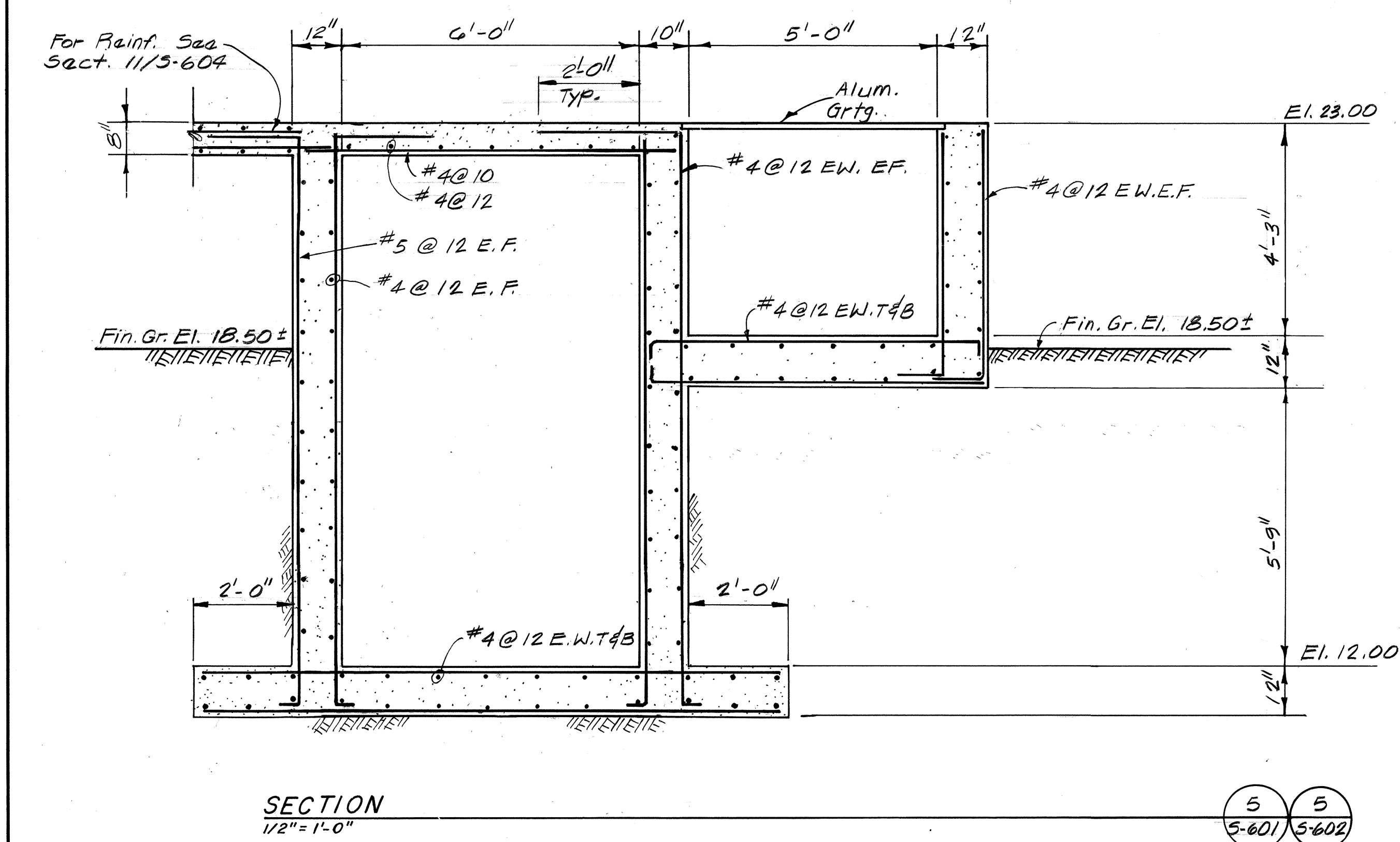
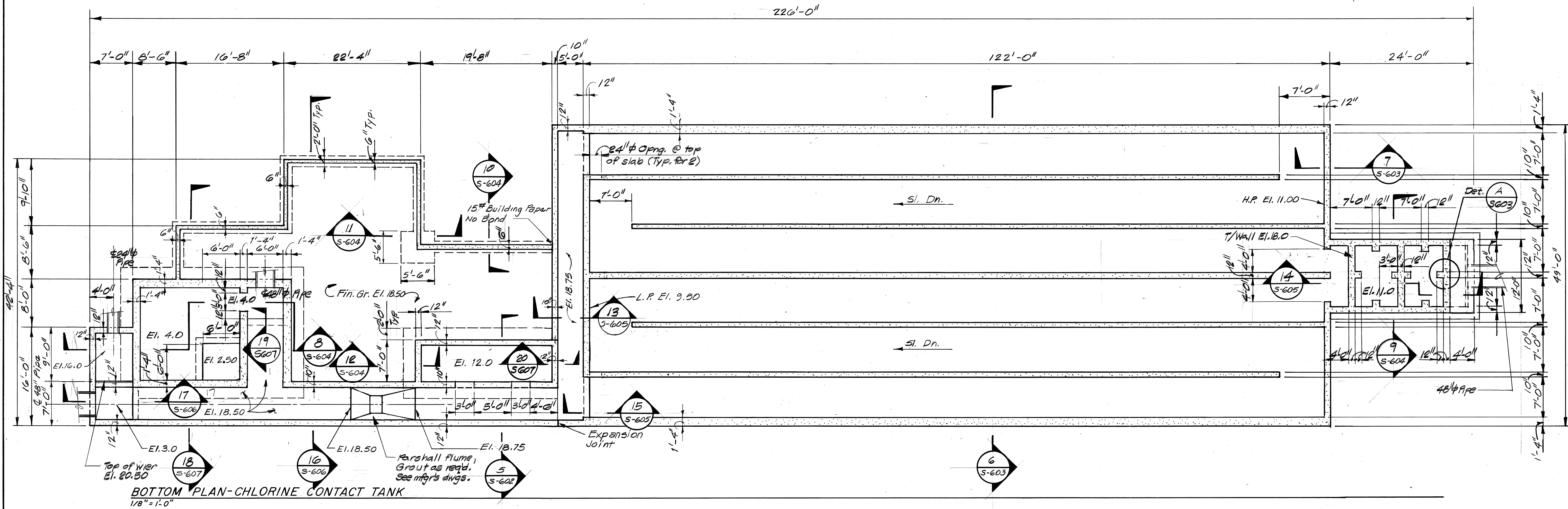
Date	Company Name	Question(s)	Response	Date of Response	How Responded
11/6/2020	Kiewit	1) Please provide the permits referred to in - Appendix A Encroachment Permits.	Caltrans, BART, and UPRR application permits have been submitted, but not received to date. BART has indicated a second submittal by the contractor is not required. If a permit requires modifications to bid documents, they will be addressed by change order on a case by case basis. The UPRR website (https://www.up.com/real_estate/rrinsurance/index.htm) lists insurance that will be required.	11/10/2020	
		2) The Contractor is required to comply with future laws under Section 00700, 4.05 A. Will the City revise to allow for change order relief for changes in law?	Pending.		
		3) Under General Condition Section 00700, 9.02 G.1.b. requires encountered or actual conditions to be materially different from those indicated in the "Contract Documents".	Pending.		
		4) California Public Contract Code section 7104 provides for Type I DSC relief where: "Subsurface or latent physical conditions at the site differing from those indicated by information about the site made available to bidders prior to the deadline for submitting bids." (PCC § 7104(a)(2)) The geotechnical report and information is under Section 00300 provided as reference material and "For Information Only" and expressly not part of the Contract Documents." Under General Condition Section 00700, 9.02 G.1.b. requires encountered or actual conditions to be materially different from those indicated in the "Contract Documents". Please confirm that the Contractor is entitled to rely upon all information provided, including all Geotechnical Reports issued and all Reference Drawings to establish differing site conditions.	Pending.		
		5) Please confirm that the Owner will be identified on all manifests as the generator of all pre-existing hazardous waste or such was not brought on-Site by the Contractor or Subcontractors.	Pending.		
		6) The definition of Force Majeure Event limits natural disaster relief to the Site only. Will the City provide Force Majeure Event relief for events that impact off-site activities, including where materials are fabricated?	Pending.		
		7) On page 13 of Addendum #3, item 13 under Drawings says, "Add new attached drawing 25S23 to bid documents." There isn't a new sheet with that drawing number in Addendum #3. Please clarify or provide the referenced drawing.	25S23 is not revised as part of Addendum #3		
		8) On sheet 118 Note 1 refers to Specification Section 02268 for Soil Nail Wall Design. Was the note intended to refer to Section 02665 Soil Nail Wall? If it was intended to reference 02268 please provide that specification section.	Yes-note is intended to refer to Section 02665 which is Soil Nail Wall Spec. Refer to addendum #3.	11/4/2020	Addendum #3
		9) Please provide drawings, dimensions, product data, material type and anchorage details of the "polyethylene baffle" spanning the length on the Plant A clearwell, illustrated and hatched on Drawing 25M30.	Refer to Reference Drawings in Appendix J for WTP Phase IV Renovation 1995.	11/10/2020	
		10) Reference: Section 00400-2 Attachment F-SWRCB Form 4500-3 DBE Subcontractor Performance Form, Attachment G-SWRCB Form 4500-4 DBE Subcontractor Utilization Form. The listed forms are required to be submitted with the bid. On a project this size, there are relatively high numbers of subcontractor/supplier scopes to be solicited, and with limited time during bid closeout for review, analysis, selection and award of quote proposals, it is extremely difficult to complete SWRCB Form 4500-3 and SWRCB 4500-4 accurately and completely with all of the required information - including getting the DBE sub/supplier to sign the form SWRCB 4500-3, and submitting these signed forms including preparing and completing Attachment G-1 -GFE Verification with the BID.			

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		a. We respectfully request that these two (2) forms referenced above be submitted 4 business days after bid opening together with Attachment O, P and Q which are ONLY required to be submitted four (4) business day after bid opening by lowest monetary bidders. Please consider and advise.	No. The SWRCB requires these forms to be submitted with the bid as specified.	11/10/2020	
		b. We respectfully request that Attachment G-1 DBE Good Faith Effort be submitted 4 business days after bid opening together with Attachment O, P and Q which are ONLY required to be submitted four (4) business day after bid opening by lowest monetary bidders. (More often than not, SRF funded projects require these forms to be submitted following the bid opening and not with the bid.) Please consider and advise.	No. The SWRCB requires these forms to be submitted with the bid as specified.	11/10/2020	
		12. Reference Section 00400-N-1 Please conform Attachment N is required for Prime Contractor only with the bid.	Yes	11/10/2020	
		13. Reference Section 00400-2 Table of Content Bid Forms a. Please confirm the following are typos in section 00400-2 Table of Content: Attachment P-Buy America Iron and Steel Designation of Material Manufacturer is NOT Attachment Q. Similarly, Attachment O -DBE Selected by Prime Contractor is NOT Attachment P; And Attachment N-DBE Contractor Subcontractor Certification is NOT Attachment O. c. Attachment N- Bid Document Certification Form is a typo is supposed to be Attachment M	The certification listing has been corrected. See Addendum #4.	11/10/2020	Addendum #4
		14. Reference Section 00400-6-7 VII ATTACHMENTS Please provide Attachment M Bid Document Certification, it is not included with the bid specifications.	The certification listing has been corrected. See Addendum #4.	11/10/2020	Addendum #4
		15. Reference Section 00200 Instruction to Bidders; Article 39.01-Escrow Bid Document & Article 39.11- Submittal Escrow Bid Document. There is a conflict between the two-article referenced above. b. Please confirm Escrow Bid Document are required by 3 Lowest Monetary Bidder within 4 business days after receipt of bids.	This was addressed in Addendum #1. Four days after bid is correct.	10/15/2020	Addendum #1
11/9/2020	Balfour Beatty	Note 19 on Sheet 25C03 directs us to remove and replace a portion of 24" FW and a CARV vault. There is not a detail to describe the work any further. We are not sure what a CARV vault is...air release valve? It is no defined on the abbreviations page. How much pipe is replaced? How far are we moving the pipe? What kind of pipe?	It was shown on P48 with Key Tag 5. Use detail CP741 with a 2" CARV. Key note 19 revised by addendum #4.	11/10/2020	Addendum #4
11/9/2020	Haskell	Stainless Steel Piping and tubing Specification 15286 : Section 2.01 3a Suggests pipe 12 inches and larger in diameter be Automatically welded using gas Tungsten-arc procedures. Can the contractor use semiautomatic procedures for pipe 12inches in diameter and greater. Such as GMAW for a root pass and FCAW, GMAWP, and SAW for fill and cap welds, GTAW can also be performed manually.	2.01.F.3.a – welds made from the OD on pipe 12-inches and greater should be made using GTAW as specified.	11/10/2020	
		Additionally Specification 15286: Section 2.01 b says piping 4 inches through 12 inches in diameter : Double butt welded joints, this is not Geometrically possible . Recommend all welded pipe joints 4" to 36" be single "V" butt joints.	Changed to single butt weld by addendum #4	11/10/2020	Addendum #4
11/9/2020	Blocka	Drawing 25E05-19 - conduits with wire rated at voltage greater than 600V are showing that the ground conductor is to be also rated for same voltage as the current carrying conductors. Please confirm this is correct as we don't usually see this.	See updated conduit schedule showing 600VAC ground cable in Addendum #4	11/10/2020	Addendum #4
11/6/2020	AqueoUS Vets	1. As a potential supplier bidding this project, AqueoUS Vets (AV) is concerned that Calgon Carbon is effectively sole-sourced for both the single 8-ft diameter Granular Activated Carbon (GAC) vessel and GAC media. Specification Section 11505, 2.01.A specifies that the following vessel suppliers are acceptable: AqueoUS Vets, Calgon Carbon, TIGG, and Tetrasolv Filtration. Specification Section 11505, 2.05.A only lists one GAC media, Calgon's Centaur 12x40.			

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		Calgon understands their competitive advantage with this specification language, and therefore neither AV or the other two listed vessel suppliers can be price competitive. Calgon would only sell their Centaur GAC to the other suppliers at a significantly high margin. Furthermore, a general contractor will not elect to purchase the Centaur from Calgon and the vessel from one of the other three listed suppliers. The GAC vessel and GAC media will be provided by a single supplier, and as the specification language currently stands, general contractors will have no choice but to use the Calgon package (vessel and media) and not consider competitive bids from other qualified suppliers.			
		This approach is great for Calgon, but not good for the City. With general contractors not receiving bids from other qualified suppliers, Calgon can increase their price for the GAC vessel and media because they know there is no real competition. The City will end up paying a higher than necessary price for the GAC vessel and media, and there is no recourse with how the specification language is currently written.			
		The best solution for the City is to ensure competitive offerings by qualified suppliers for both the GAC vessel and GAC media. AV requests that Specification Section 11505, 2.05.A be amended to include additional GAC media suppliers. AV recommends including Jacobi's AquaSorb CX-MCA and OXPURE 1240C-S – both Jacobi and Puragen are global manufacturers of carbon and suppliers to AV. Both of these catalytic carbons are considered across the industry to be interchangeable with Calgon's Centaur, and therefore provide the City with more competitive pricing for the GAC vessel and media. The Technical Data Sheets for the above two (2) recommended catalytic carbons are attached to this email for your review.	Section 11505.2.05.A has been amended to include Norit as a GAC supplier. See Addendum #4. At this time AV, is not considered an equal.	11/10/2020	Addendum #4

added

Appendix J - Plan view of Existing Outfall Chamber to be Coated at DD WWTP



BEAM SCHEDULE						
Bm. Mark	Beam Dimensions		Reinforcing		Ties	Remarks
	B	D	"A" Bars	"B" Bars		
B 1	12"	24"	3 - #9	2 - #4	1 @ 3", 10 @ 6" ea. End	#3 Ties
B 2	12"	24"	3 - #11	2 - #5	1 @ 3", 8 @ 6" ea. End 6 @ 10" ea. End	#3 Ties
B 3	8"	16"	2 - #10	2 - #4	1 @ 3", 8 @ 6" ea. End	#3 Ties
B 4	16"	32"	4 - #10	2 - #5	1 @ 3", 16 @ 6" ea. End	#3 Ties
B 5	8"	12"	2 - #6	2 - #4	1 @ 3", 4 @ 6" ea. End	#3 Ties
B 6	16"	34"	5 - #10	2 - #6	1 @ 3", 12 @ 6" ea. End	#3 Ties
B 7	12"	24"	3 - #9	2 - #4	1 @ 3", 10 @ 6" ea. End	#3 Ties
B 8	12"	24"	3 - #9	2 - #4	1 @ 3", 10 @ 6" ea. End	#3 Ties
B 9	8"	16"	2 - #9	2 - #4	1 @ 3", 8 @ 6" ea. End	#3 Ties
B 10	8"	16"	2 - #6	2 - #4	1 @ 3", 4 @ 6" ea. End	#3 Ties

RECORD DRAWING

WKL 6.24-83

FREDERICK SENA & ASSOCIATES
STRUCTURAL ENGINEERS

REGISTERED PROFESSIONAL ENGINEER
FREDERICK SENA
No. 1632
STATE OF CALIFORNIA

No.	Date	Chkd	Revisions
PREPARED BY TROTTER-YODER AND ASSOCIATES			
Approved	Date	Name	design by H.N. Chang drawn by H.K.L. chkd by F. Sena appvd by:
Contra Costa County Sanitation District No. 7-A INDUSTRIAL SHORE SUBREGIONAL WASTEWATER FACILITIES INDUSTRIAL SHORE WATER POLLUTION CONTROL FACILITY			
CHLORINE CONTACT TANK BOTTOM PLAN & SECTIONS			
CDM/KKA CONSULTANTS in association with Brown and Caldwell, Dewante & Stowell, Trotter-Yoder and Assoc.			Sheet No. S - 602 Dwg. No. 7-179

Appendix M

Construction Staging, Office Trailer, and Parking Right of Entry and Use Agreement

CONSTRUCTION STAGING, OFFICE TRAILER AND PARKING RIGHT OF ENTRY AND USE AGREEMENT

This Construction Staging, Office Trailer and Parking Right of Entry and Use Agreement ("Agreement") is made this 29th day of October, 2020, between the City of Antioch ("City") and the Antioch Unified School District ("District"). The City and the District are sometimes referred to in this Agreement individually as a "Party" or collectively as the "Parties". The Parties enter this Agreement in light of the following recited facts (each a "Recital").

RECITALS

A. The District is the owner of certain real property in the County of Contra Costa, California, depicted in Exhibit "A" to this Agreement.

B. The Property is located directly adjacent to the City's Water Treatment Plant at 401 Putnam St.

C. The City has plans to construct the Brackish Water Desalination Project ("Project") to improve the reliability of the City's drinking water supply, help mitigate the impacts of future Delta water management and sea-level rise, improve water quality, and to reduce dependence on water purchases from the Contra Costa Water District.

D. The District desires to support the Project by providing the City at no cost with the temporary right to access the Property for the staging of materials, equipment, parking and office trailers necessary for the construction of the Project.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is acknowledged, the Parties agree as follows:

I. Purpose of Agreement

- a. The purpose of this Agreement is to establish the terms under which the District grants to the City permission for the City's entry to and use of the Property for the storage of tools, machinery, materials, equipment, office trailers, parking and other items associated with the Project, subject to the terms and conditions of this Agreement and at no cost to the City.
- b. The right of entry and use provided in this Agreement extends to the City, its employees, agents, contractors and subcontractors. The right of entry and use is provided at no cost to the City because the District recognizes the significant community benefits associated with the Project. The City recognizes that the granting of this right of entry and use at no costs represents a significant contribution by the District to the success of the Project.

II. Grant of Right of Entry and Use

- a. The District hereby grants to the City, its employees, agents, contractors and subcontractors, the right to enter and use the Property as provided in

this Agreement for the construction of the Project. This right of entry and use includes, but is not limited to, the right of ingress to and egress from the Property and the right at all times to use the Property for all purposes connected with the construction of the Project, subject to the terms of this Agreement.

- b. The District's grant of this right of entry and use is at no cost to the City, but is subject to the terms of this Agreement, and to all existing licenses, easements, encumbrances and claims of title affecting the Property.

III. Term

- a. The right of entry and use granted in this Agreement shall be for a period of two (2) years ("Initial Term"). The Initial Term shall commence after the District provides the City with its written approval to commence and on the first day thereafter on which the City's contractor enters the Property, which is anticipated to occur in November, 2020. The City will provide the District with written notice of the commencement of the Initial Term on or after the commencement date. In addition, the City will provide the District with at least thirty (30) days advance written notice before any entry on the Property pursuant to this Agreement.
- b. City shall have the option to extend the Initial Term for a period not to exceed six (6) months. The City shall provide the District with a fourteen (14) day written notice if the City elects to exercise this option. The City may exercise this option at any point prior to the end of the Initial Term. The Initial Term, along with the option period, are referred to in this Agreement as the "Term".

IV. Temporary Use Conditions

- a. During its entry and use of the Property, the City shall erect security fencing around the Property and provide reasonable security and surveillance for the Property.
- b. The City agrees that upon completion of the Term, the City shall reasonably restore the surface of the Property as near as possible to the condition in which it was in prior to the commencement of the work, including paving in the parking areas and access roads, landscaping, topography, fencing, lighting and utilities.
- c. It is agreed that use of the Property by the City, its contractors and subcontractors, includes the right to modify existing features of the Property, including topography and landscaping as needed to install and connect temporary utilities, including power, water, telephone, internet, lighting, security systems, and to install fencing, parking, office trailers, gravel roads, walkways, and other temporary facilities that may be required. All such modifications shall be removed at the end of the Term.

d. Documentation of Existing Property

- i. Before entry to and use of the Property may start and before the City and its contractors may begin any work that may cause site disturbance, the City shall inspect the Property with the District and agree upon existing site conditions and restoration requirements.
- ii. City shall provide preconstruction digital photographs of the Property to the District with proper labeling. Photographs shall be acceptable to the District prior to commencing work.

e. Approval to Commence Work

- i. Upon receiving acceptable preconstruction photographs, agreeing upon existing Property conditions and restoration requirements, and receiving insurance certificates from the City, the District shall, with seven (7) calendar days, provide the City with written approval to commence. The District's approval will not be unreasonably withheld or delayed.

f. Final Inspection and Acceptance of Restored Property

- i. Upon substantial completion of the Project and restoration of Property, the City shall arrange a date and time for a final inspection of the Property by the District. After the final inspection, the District shall provide the City, within seven (7) calendar days, with notice of any reasonable changes to the Property that the District believes are required to restore the Property to preconstruction conditions. The City shall cause its contractors and subcontractors to make any such reasonable changes requested by the District.
- ii. Upon completion of restoration, the City shall request in writing the written acceptance of the Property by the District. The District shall, within fourteen (14) calendar days, accept the restored Property as long as it conforms with the agreed upon restoration. The District's acceptance of the Property shall not be unreasonably withheld or delayed.

V. Insurance and indemnity

- a. The City shall cause its contractors or subcontractors to obtain and maintain during the Term insurance coverage in the amounts specified below and shall cause its contractors or subcontractors to submit certificates of insurance for review and approval by the District. The City's contractors or subcontractors may not access the Property until insurance has been approved by the District.
 - i. The City shall cause its contractors and subcontractors to obtain and maintain in full force and effect workers' compensation insurance as required by the State of California with statutory limits and employer's liability insurance (for all employees engaged in services or

operations at the Property) with limits no less than \$1 million per accident for bodily injury or disease.

- ii. The City shall cause its contractors and subcontractors to obtain and maintain Automobile and Commercial General Liability Insurance that provides protection from claims that may arise from operations or performance under this Agreement.
- iii. The City shall cause the insurance to be not less than the following:
 - 1. \$1,000,000/Occurrence, Bodily Injury, Property Damage — Automobile.
 - 2. \$1,000,000/Occurrence, Bodily Injury, Property Damage — Commercial General Liability.
- iv. In addition, the City shall cause its contractors and subcontractors to include the following endorsements in the policies:
 - 1. The District, its Directors, Officers, and Employees are Additional Insureds in the policy(ies) as to work being performed by, the City's contractors or subcontractors under this Agreement.
 - 2. Certificates of insurance evidencing coverage and endorsements is required before the City's contractors or subcontractors may begin work on the Property.
- v. The City shall indemnify, defend and hold harmless the District, its officers, agents, employees, attorneys, divisions, related agencies and entities, successors and assigns, and contractors and representatives against any and all damages, liabilities, claims, suits, demands, judgments, orders, costs, fines, property damage, injuries, including death, penalties, or expenses (collectively "Claims") that arise from, are associated with, caused by the City's access and use of the Property.
- vi. Nothing in this Agreement requires the City to indemnify, defend or hold harmless the District for Claims arising through the negligence or willful misconduct of the District.
- vii. Nothing in this Agreement requires the City to indemnify, defend or hold harmless the District for Claims arising from or related to conditions, known or unknown, existing on the Property prior to the City's entry on the Property, or actions or inactions associated with or occurring on the Property prior to the City's entry on the Property.
- viii. This indemnification provision shall survive the Term.

VI. Dispute Resolution


- a.** In the event that either the City or District, acting in good faith, believes that a violation of this Agreement has occurred or is about to occur, that Party shall provide written notice to the other Party that describes the alleged violation and includes a request for resolution.
 - i.** The Party receiving the written notice shall have thirty (30) calendar days to either correct the alleged violation, or notify the other Party of steps that will be taken to correct the violation, if that correction cannot be completed within the thirty (30) day period. If the Party receiving the written disputes the alleged violation, that Party will provide a written response to the other Party explaining why the allegation is disputed.
 - ii.** If the written notice is disputed, the Parties shall first meet and confer to negotiate in good faith to resolve the dispute. This meet and confer shall take place within thirty (30) days of the written notice of the dispute, and shall include, at a minimum, the City Manager for the City and the Superintendent for the District.
 - iii.** If the Parties cannot resolve the dispute through the meet and confer process, the Parties may elect to submit the dispute to mediation or arbitration. If the Parties cannot agree on mediation or arbitration, the Parties may pursue available legal or equitable remedies.

VII. Miscellaneous Provisions

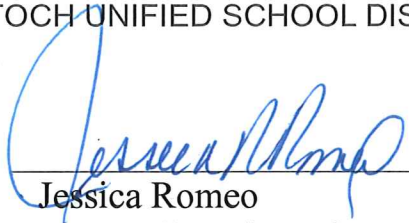
- a.** This Agreement contains the entire understanding between the Parties related to the City's entry and use of the Property, notwithstanding any previous negotiations or agreements between the Parties. Each Party is entering into this Agreement based solely on the terms and conditions of this Agreement.
- b.** The facts set forth in the Recitals are incorporated into this Agreement and made a part of this Agreement.
- c.** Any alteration, change or modification of or to this Agreement shall be in writing signed by the Parties.
- d.** Each Party represents and warrants that the person signing this Agreement is legally authorized to sign this Agreement on behalf of the Party.

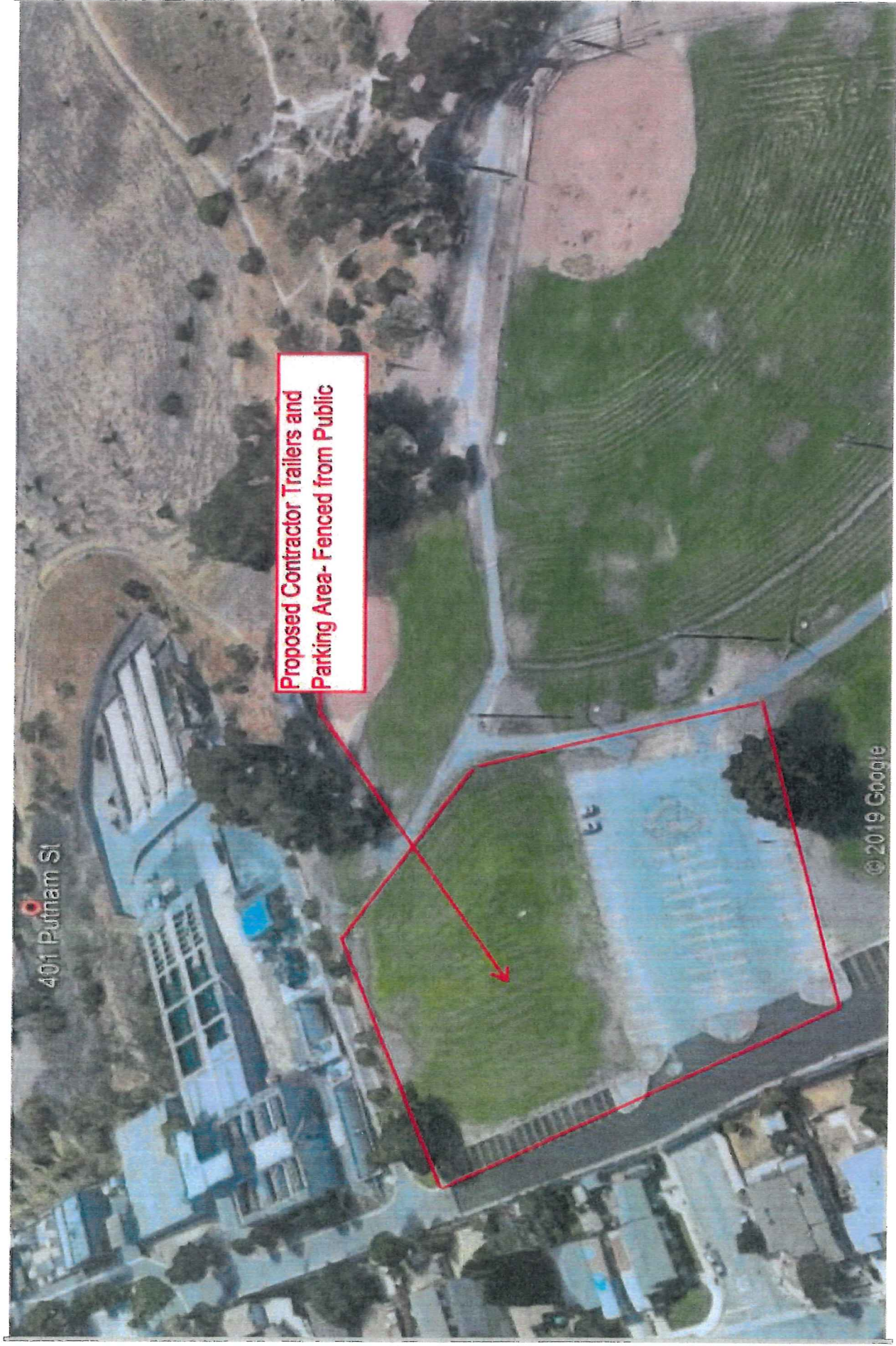
IN WITNESS WHEREOF, the City and District have executed this Agreement the day and year first written herein below.

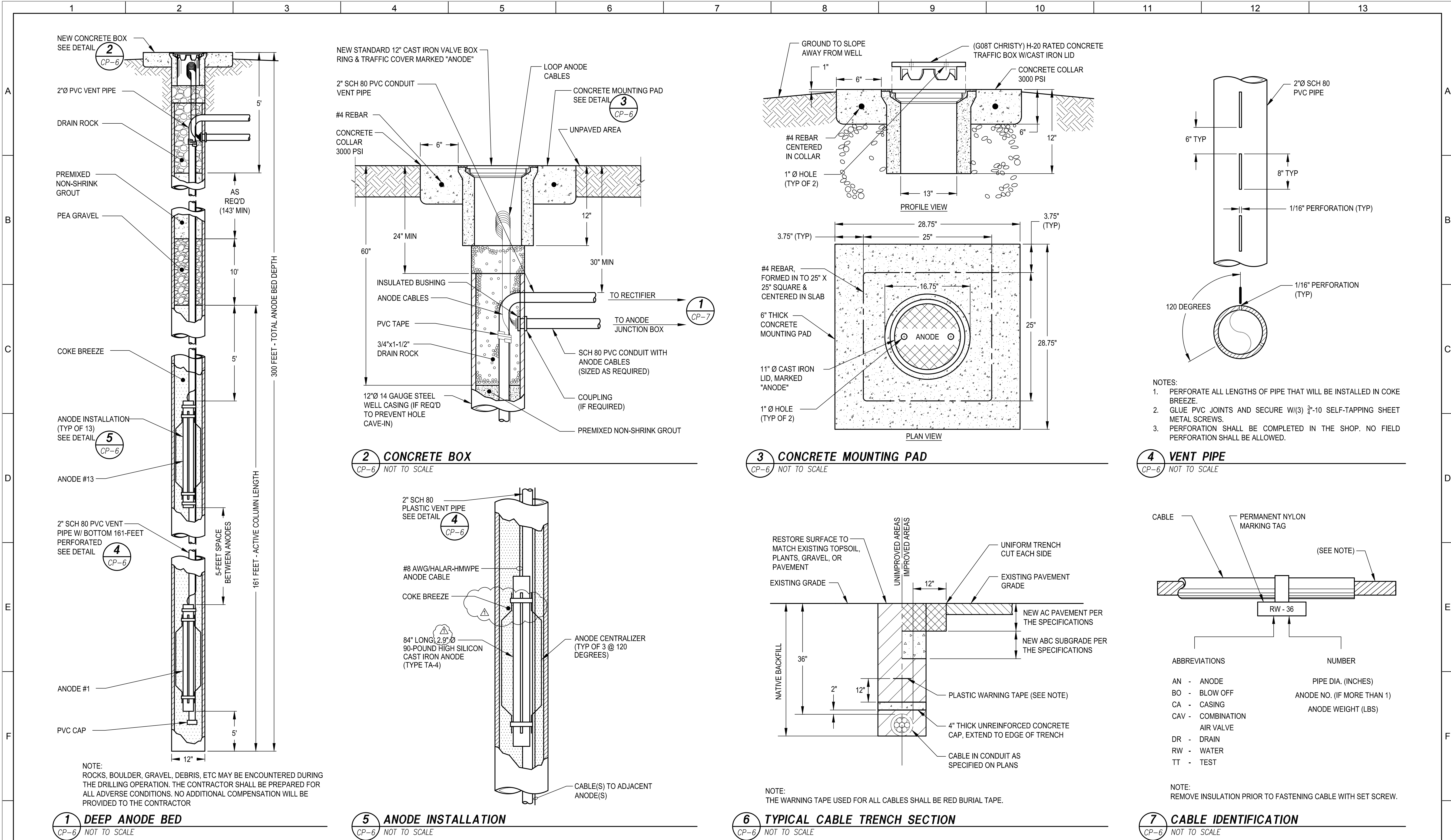
CITY OF ANTIOCH

By: 
Title: City Manager
Date: 10/19/2020

ANTIOCH UNIFIED SCHOOL DISTRICT

By: 
Title: Deputy Superintendent,
Administrative Services
Date: 10/30/2020





DESIGNED JAW				DRAWN JAW				CHECKED -				DATE SEPTEMBER 2020			
11/10/20				TDH				REVISED PER ADDENDUM NO. 3				DESCRIPTION			
1				2				3				4			

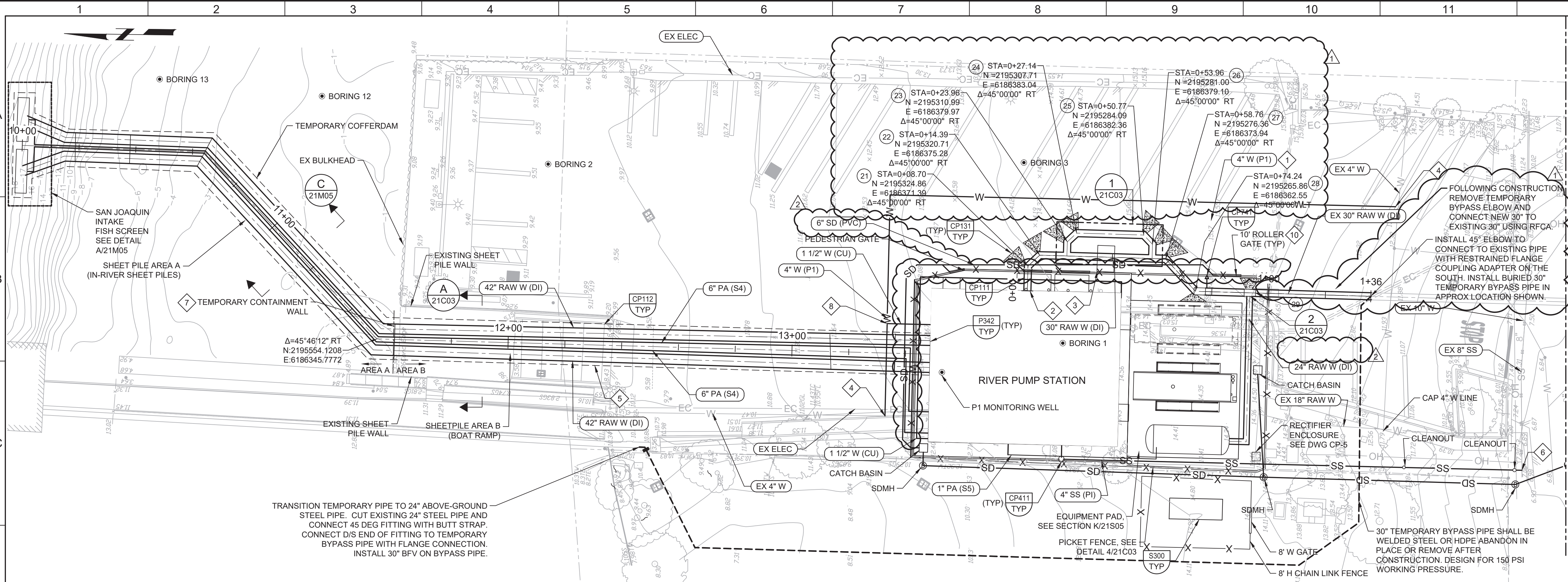
jdh corrosion consultants, inc.		1100 Willow Pass Court Concord, CA 94520 (925)927-6630 FAX (925)927-6634 WWW.JDHCORROSION.COM		REGISTERED PROFESSIONAL ENGINEER N. CR 1055 JAW SEP 30, 2021 STATE OF CALIFORNIA		carollo		ANTIOCH CALIFORNIA OPPORTUNITY LIVES HERE		CITY OF ANTIOCH ANTIOCH BRACKISH WATER DESALINATION PROJECT CATHODIC PROTECTION DETAILS 6		VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY		JOB NO. 10024A.10 DRAWING NO. CP-6 SHEET NO. OF XXX	
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Plot Date: 11/10/2020 12:24:32 PM

FILE NAME: 1002441021C01.dwg

PROJECT NO. 10024410

LAST SAVED BY: aucker



GENERAL NOTES:

- SEE DWG G03 FOR GENERAL NOTES AND PIPELINE NOTES.
- REFER TO SPEC SECTION 01354 FOR HANDLING OF SOIL AND GROUND WATER AT THIS SITE.
- SEE DWG 21C02 FOR 42" RAW W, 30" RAW W, AND 8" SS PROFILES.

KEY NOTES:

- EXISTING 4" W TO BE PERMANENTLY RELOCATED.
- DOUBLE JOINTS REQUIRED SIMILAR TO TYP DETAIL P342. SEE DETAIL B/21M02 FOR CONTINUATION.
- PRECAST CONCRETE VAULT FOR MAGNETIC FLOW METER. SEE DETAIL 1/21C03.
- CONNECT TO EXISTING 4" W. CONTRACTOR TO PROVIDE ALL RESTRAINED ADAPTERS AND FITTINGS. CONTRACTOR TO CONFIRM EXISTING MATERIAL PRIOR TO PURCHASE.
- CUT AND REMOVE PORTION OF EXISTING BOAT RAMP FOR INSTALLATION OF COFFERDAM AND NEW PIPES. INSTALL NEW BOAT RAMP SLAB WHERE EXISTING SLAB WAS REMOVED PER SECTION A/21C03.
- CONNECT TO EXISTING 8" SS, SEE DETAIL 1/21C02. CONTRACTOR TO CONFIRM EXISTING MATERIAL AND ELEVATION.
- CONTRACTOR SHALL INSTALL TEMPORARY CONTAINMENT WALL DURING CUTTING AND REMOVAL OF CONCRETE FROM EXISTING BOAT RAMP TO PREVENT ANY DEBRIS FROM ENTERING THE RIVER. CONTRACTOR SHALL ALSO INSTALL TEMPORARY CONTAINMENT WALL DURING INSTALLATION OF NEW CONCRETE TO PREVENT DEBRIS FROM ENTERING THE RIVER.

Call before you Dig
Avoid cutting underground utility lines. It's costly.



SUGGESTED CONSTRUCTION SEQUENCE FOR CONSTRUCTION OF RAW WATER PIPELINES, FISH SCREEN, AND PS WET WELL:

- INSTALL TEMPORARY BYPASS PIPE IN APPROXIMATE LOCATION SHOWN WITH APPROX 3 FEET OF COVER. CONSTRUCT TIE-INS TO EXISTING RAW WATER PIPE DURING SUMMER MONTHS WHEN EXISTING PUMP STATION IS NOT IN USE. REFER TO SPEC SECTION 01140, WORK RESTRICTIONS. DRAIN APPROXIMATELY 414,000 GALLONS THROUGH EXISTING 2" BLOW OFF VALVE ON FULTON SHIPYARD ROAD TO STORM DRAIN. DISPOSE OF SOIL IN ACCORDANCE WITH SECTION 01354, HAZARDOUS MATERIALS PROCEDURES. GROUNDWATER IS NOT ANTICIPATED TO BE ENCOUNTERED DURING EXCAVATION FOR THE TEMPORARY PIPELINE OR CONNECTIONS TO EXISTING PIPELINE.
- INSTALL CONTAINMENT SHEET PILE WALL IN RIVER AT NORTH END OF BOAT RAMP IN APPROX LOCATION SHOWN, AND AT A DEPTH OF THE SHEET PILES IN AREA B. SEAL THE CONTAINMENT WALL AGAINST THE TEMPORARY COFFERDAM SHEET PILES TO THE EAST AND WEST. PURPOSE OF WALL IS TO PREVENT CONCRETE CUTTINGS FROM ENTERING RIVER AND TO CUT OFF GROUNDWATER PASSAGE INTO RIVER. WORK SHALL BE COMPLETED DURING ALLOWABLE IN-RIVER WORK WINDOW (AUGUST 1 - SEPTEMBER 30). REFER TO SPEC SECTION 01140.
- INSTALL TEMPORARY COFFERDAM SHEET PILES IN AREA A DURING ALLOWABLE IN-RIVER WORK WINDOW. CONDUCT FISH RESCUE, SEE SECTION 01061. CONSTRUCT PIPELINES AND FISH SCREENS IN AREA A. DRY OR WET EXCAVATION IS ALLOWED.
- SAWCUT EXISTING BOAT RAMP CONCRETE AS NEEDED FOR INSTALLATION OF SHEET PILES IN AREA B. REMOVE CONCRETE. WORK CAN BE CONDUCTED IN THE WET OR DRY AS LONG AS CONTAINMENT WALL IS IN PLACE.
- INSTALL SHEET PILES FOR PS WET WELL. BUTT THE NORTH-SOUTH COFFERDAM WALLS TO THE WET WELL SHEET PILE WALL TO FORM A SEAL. SEE DWGS 21S01 AND 21S03 FOR WET WELL DETAILS. EXCAVATE AND DISPOSE OF SOIL AND GROUNDWATER AS SPECIFIED IN 01354. INSTALL CONCRETE PLUG AT BOTTOM OF EXCAVATION TO CONTROL GROUNDWATER SEEPAGE. CONSTRUCT WET WELL AND OPENINGS FOR PIPELINE CONNECTIONS WITH SHEET PILES IN PLACE. INSTALL SLUICE GATES AT RAW WATER PIPE ENTRANCES TO WET WELL. CUT WET WELL SHEET PILES ON THE NORTH SIDE OF THE WET WELL BELOW INVERT OF 42" INTAKE PIPES.
- INSTALL SHEET PILES IN AREA B DEEP ENOUGH TO CUT OFF GROUNDWATER SEEPAGE. BUTT SHEET PILES AGAINST PS WET WELL TO FORM SEAL. DEWATER AREA B AND INSTALL PIPELINES AND CONNECTIONS TO WET WELL. TREAT GROUNDWATER AND DISPOSE TO SANITARY SEWER AS SPECIFIED IN 01354. REMOVE AND DISPOSE SOIL AS SPECIFIED IN 01354.
- CUT OFF SHEET PILES IN PUMP STATION WET WELL AND IN AREA B APPROXIMATELY 5 FEET BELOW GROUND. BACKFILL PIPELINES WITHIN AREA B WITH CLSM. REPAIR BOAT RAMP. CONTROL GROUNDWATER AS NEEDED. TREAT AND DISPOSE GROUNDWATER TO SEWER AS SPECIFIED IN 01354.
- REMOVE SHEET PILES IN AREA A DURING ALLOWABLE WORK WINDOW. REMOVE CONTAINMENT WALL. CONNECT RAW WATER AND AIR BURST PIPELINES IN AREA A TO PIPELINES IN AREA B UNDER WATER.
- SUGGESTED SEQUENCE PROVIDED FOR INFORMATION ONLY. CONTRACTOR RESPONSIBLE FOR DEVELOPING CONSTRUCTION SEQUENCE.

KEY NOTES CONTINUED:

- SEE DETAIL 3/21C03 FOR CONNECTION
- THE CONTRACTOR MAY REQUEST TO USE THE AREA SHOWN FOR TEMPORARY LAYDOWN OF SOIL EXCAVATED AT THE SITE FOR DRYING AND TESTING. AS PART OF THE REQUEST THE CONTRACTOR SHALL SUBMIT IN ACCORDANCE WITH SECTION 01330 A PROPOSED DESIGN FOR PREVENTING ANY SOLIDS OR LIQUIDS FROM PERCOLATING INTO THE UNDERLYING SOIL OR RUNNING OFF SITE. AT A MINIMUM THE DESIGN SHALL INCLUDE PLASTIC LINING OF THE LAYDOWN AREA AND BERMS AROUND THE PERIMETER TO PREVENT RUNOFF. THE CONTRACTOR SHALL ALSO SUBMIT A PROPOSED MONITORING PLAN FOR THE LAYDOWN AREA TO DEMONSTRATE THAT NO RUNOFF OR PERCOLATION IS OCCURRING
- ROLLER GATES PER SECTION 02820. PROVIDE TRENCH DRAIN TO SPAN GATE OPENINGS. ZURN MODEL Z886-HD 6-3/4" WIDE REVEAL, 4" THROAT TRENCH DRAIN, OR EQUAL, WITH HEAVY DUTY FRAME AND WITH 6" NO-HUB BOTTOM OUTLET. ZURN DGC, OR EQUAL, 5-3/8" WIDE GRATE (CLASS C).

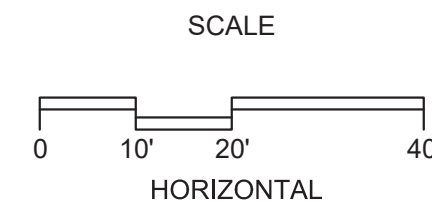
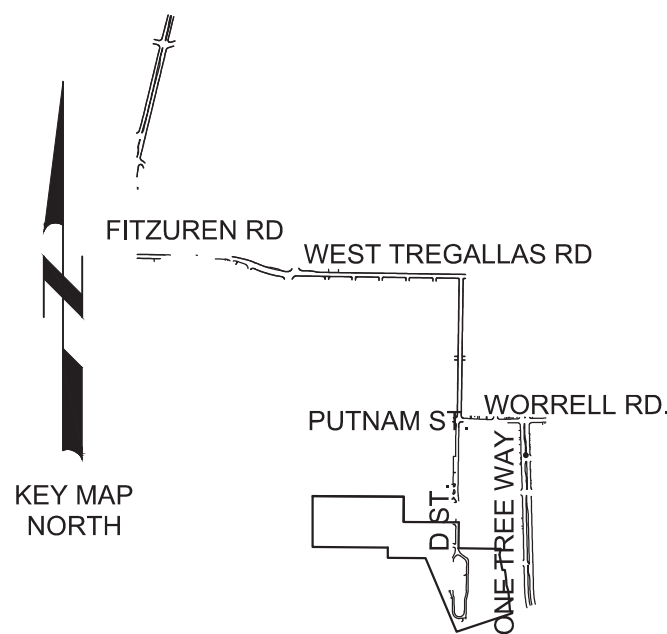


PHOTO - PARTIAL PLAN
SOIL LAYDOWN AREA

PLAN
SCALE: 1"=20'
FILE: Proj_Num_01C101

REV	DATE	BY	DESCRIPTION
1	11-10-20	MMB	REVISED PER ADDENDUM NO. 4
2	11-4-20	MMB	REVISED PER ADDENDUM NO. 3

DESIGNED	JES
DRAWN	ART
CHECKED	JM
DATE	SEPTEMBER 2020

Digitally signed by Scott C. Wedel
Contact Info: Carollo Engineers, Inc.
Date: 2020.11.10 13:21:37 -0800



CITY OF ANTIOCH
ANTIOCH BRACKISH WATER DESALINATION PROJECT
CIVIL
RIVER PUMP STATION YARD PIPING - 1

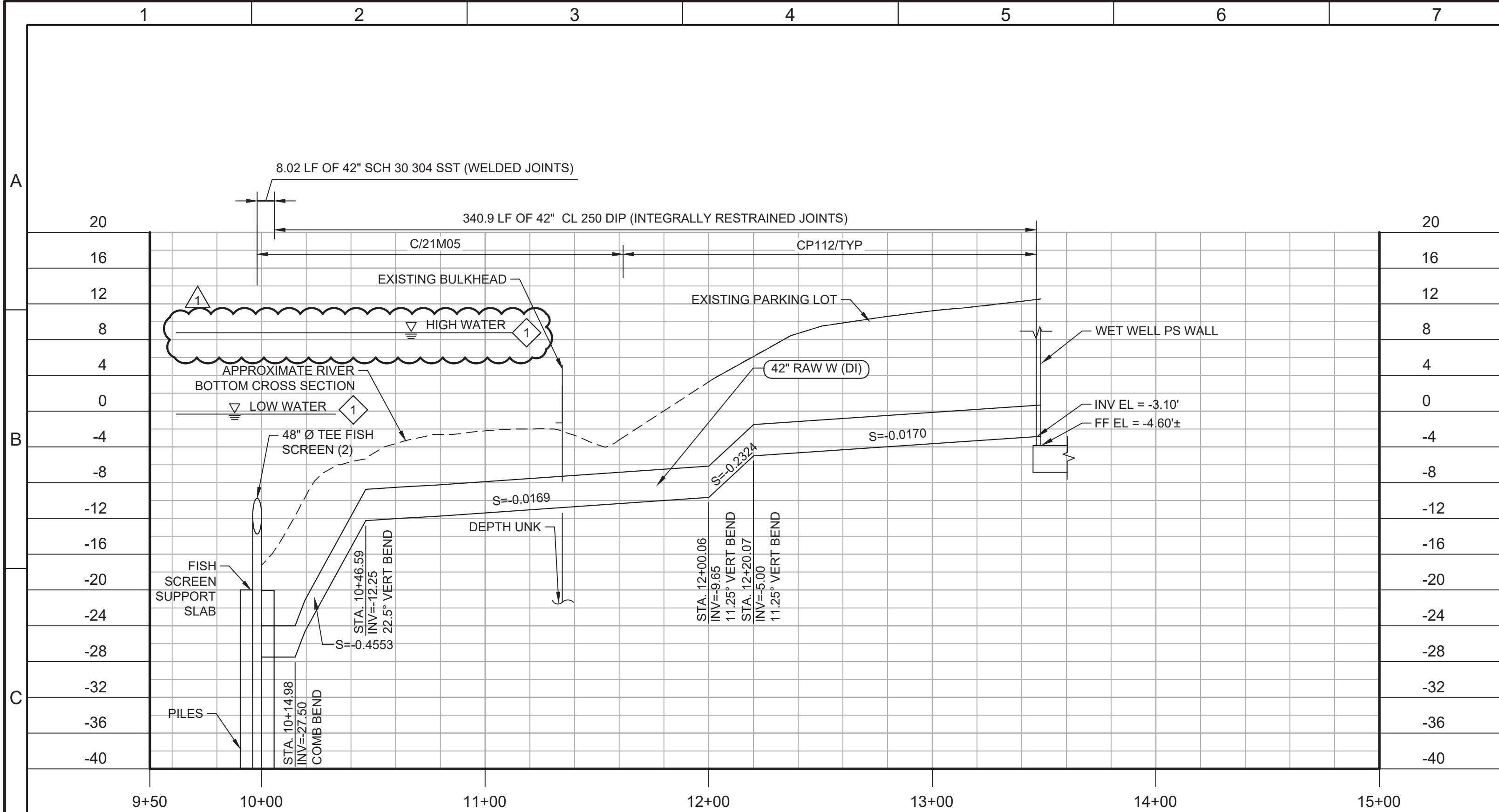
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 95 OF 498

Plot Date: 11/10/2020 1:07:18 PM

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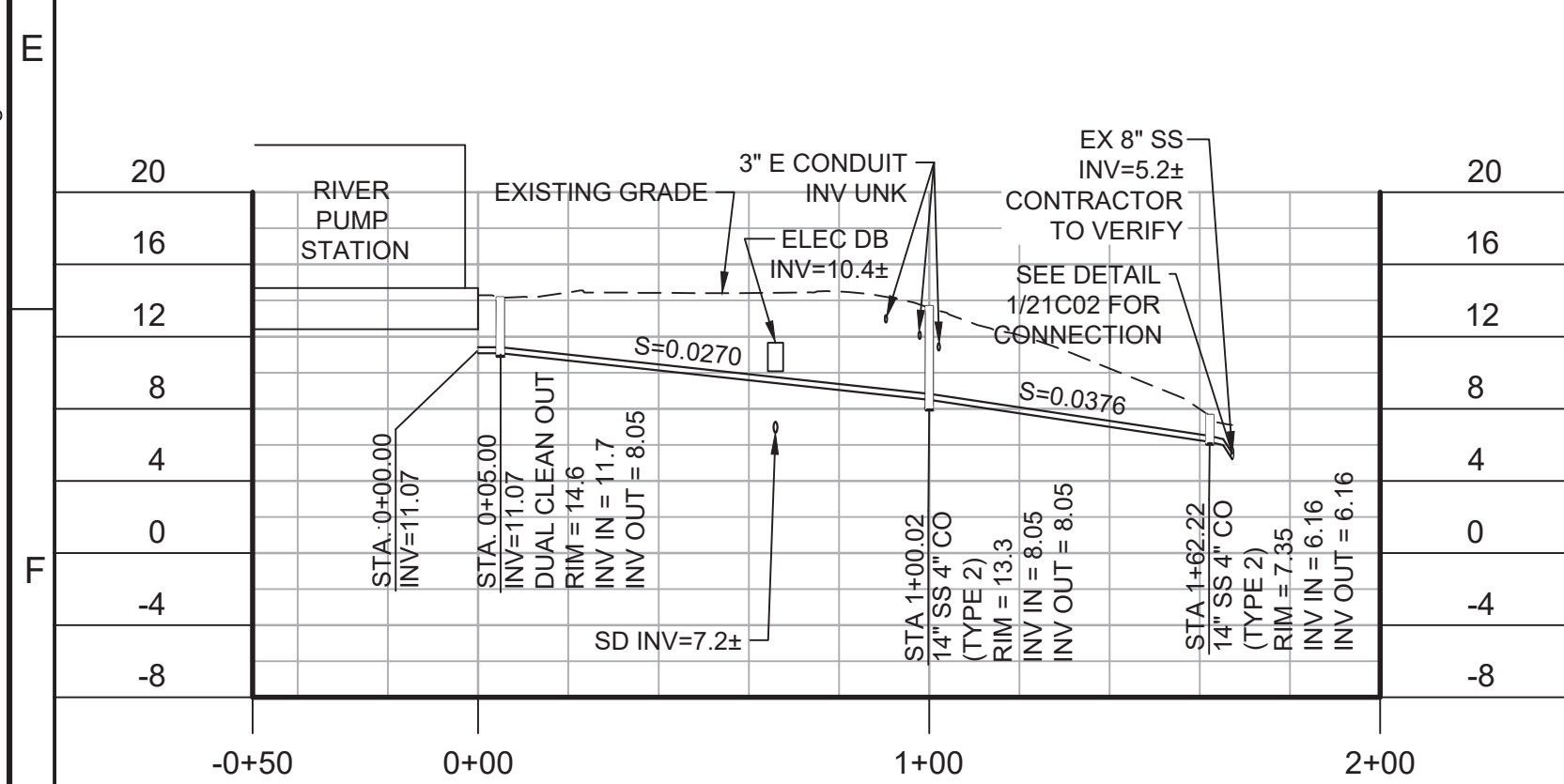
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LAST SAVED BY: aucker



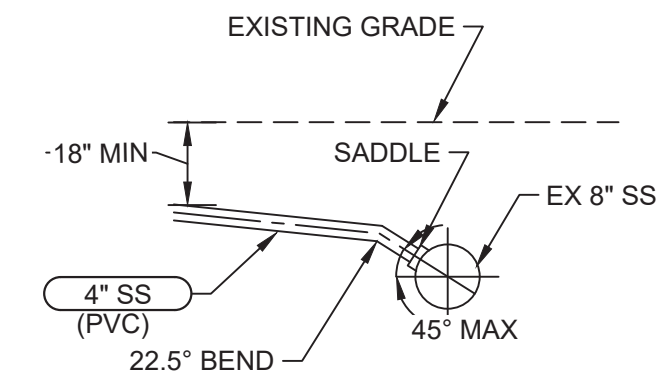
42" INTAKE PIPELINES PROFILE

HORIZ SCALE: 1"=40'
VERT SCALE: 1"=4'
FILE: Proj_Num_01C101



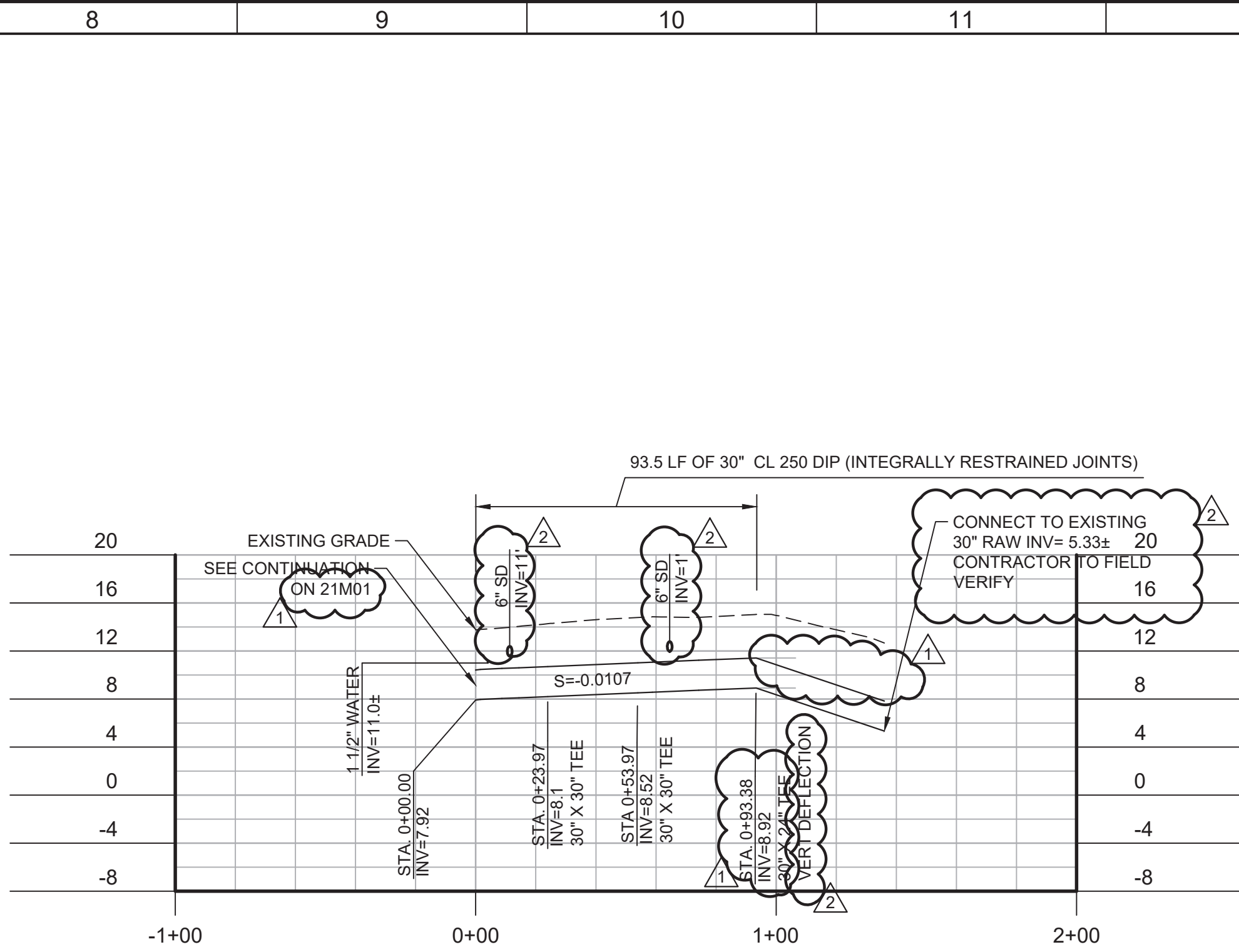
4" SS PROFILE

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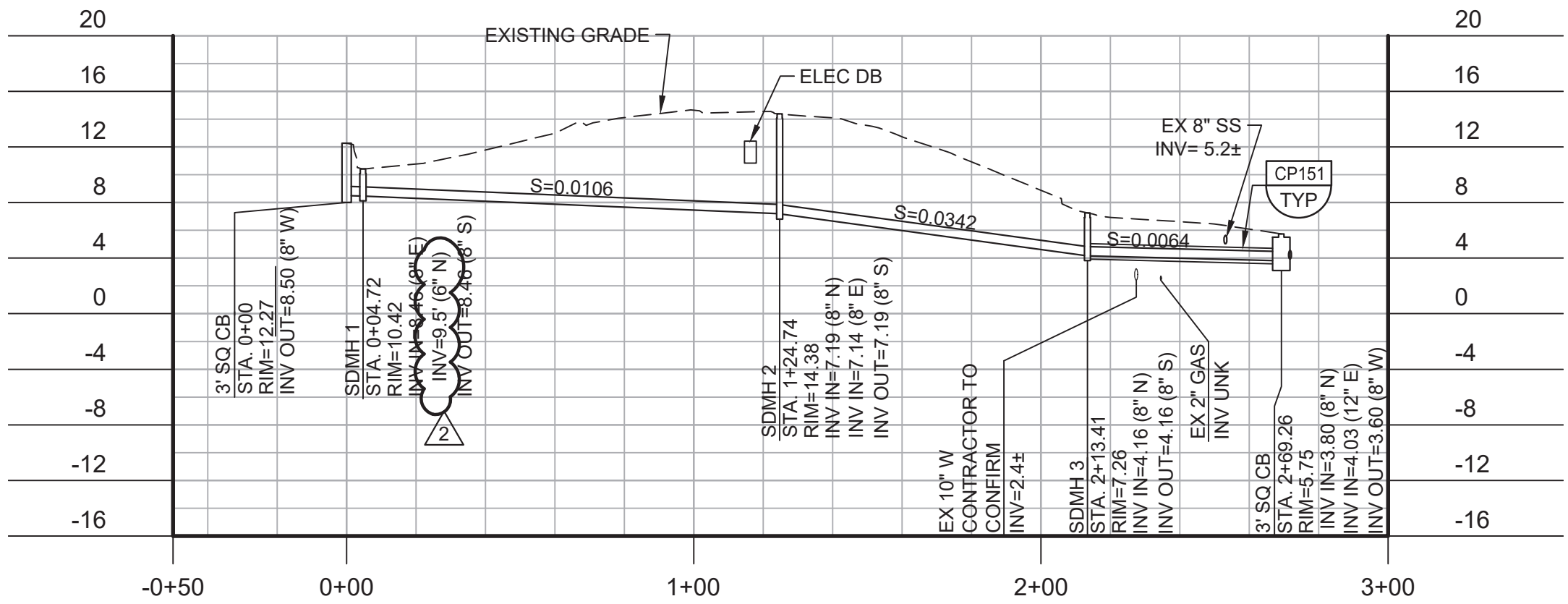
1 CONNECTION TO EXISTING 8" SS

SCALE: 1/4" = 1'-0"
FILE: -



30" RAW W PROFILE

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VERT SCALE: 1"=4'
FILE: Proj_Num_01C101



8" STORM DRAIN

HORIZ SCALE: 1"=40'
VERT SCALE: 1"=4'
FILE: Proj_Num_01C101

GENERAL NOTES:

- SEE SHEET G05 FOR GENERAL NOTES AND PIPELINE NOTES.

KEY NOTES:

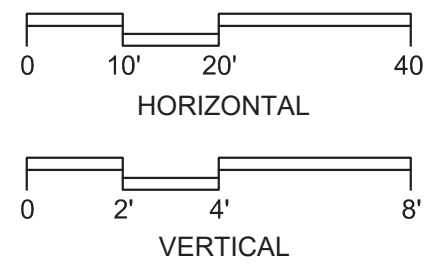
- CONTRACTOR TO REPLACE IN KIND DETECTOR LOOPS AND ELECTRICAL CONDUIT DAMAGED BY CONSTRUCTION.

Call before you Dig
Avoid cutting underground utility lines. It's costly.



KEY MAP

SCALE



REV	DATE	BY	DESCRIPTION
1	11-4-20	MMB	REVISED PER ADDENDUM NO. 4
2	11-4-20	MMB	REVISED PER ADDENDUM NO. 3

DESIGNED	JES
DRAWN	ART
CHECKED	JM
DATE	SEPTEMBER 2020

Digitally signed by Scott C. Wendt
Contact Info: Carollo Engineers, Inc.
Date: 2020.11.10 13:28:05-0800

Scott C. Wendt



CITY OF ANTIOCH
ANTIOCH BRACKISH WATER DESALINATION PROJECT
CIVIL
RIVER PUMP STATION
SITE PIPING PROFILES

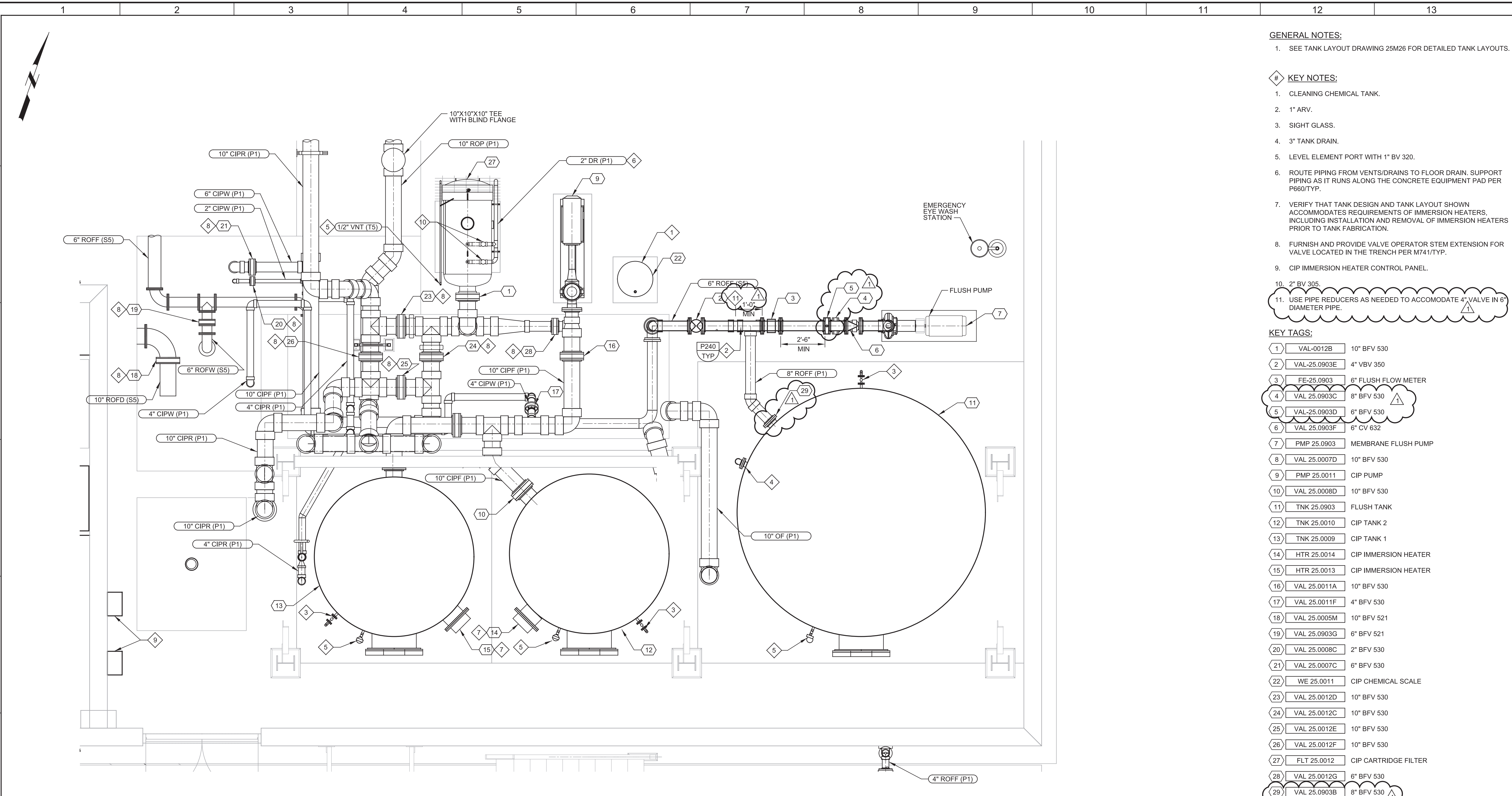
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0 1"	DRAWING NO.
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	21C02
	SHEET NO.
	96 OF 498

Plot Date: 10-NOV-2020 9:49:23 AM

User: svcPW

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo Std Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: gleal



C CIP SYSTEM LOWER PLAN @ EL. 157.5'
25M01 SCALE: 3/8"=1'-0"
FILE: 10024A1025M0331

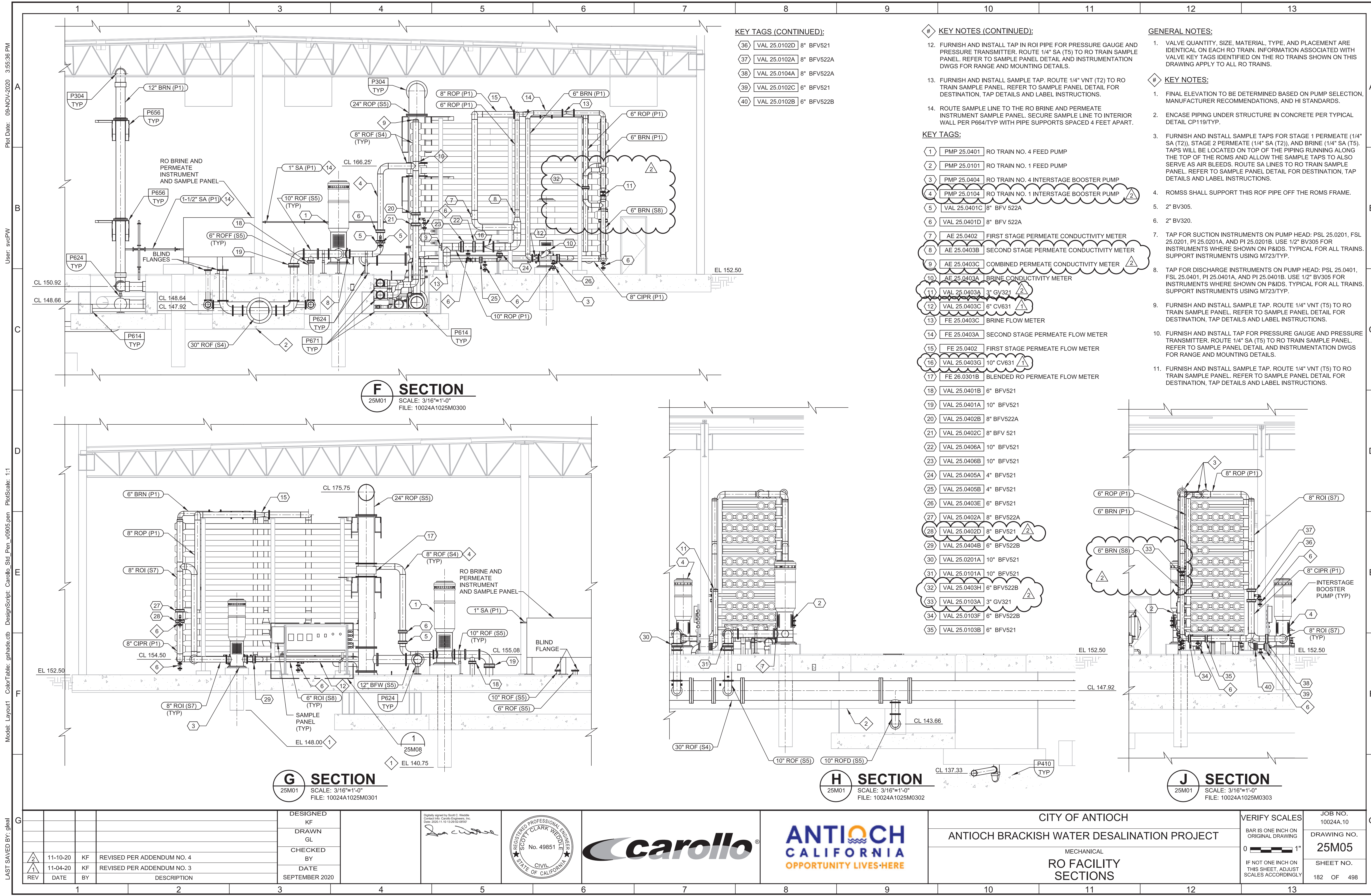
GENERAL NOTES:
1. SEE TANK LAYOUT DRAWING 25M26 FOR DETAILED TANK LAYOUTS.

- KEY NOTES:**
- CLEANING CHEMICAL TANK.
 - 1" ARV.
 - SIGHT GLASS.
 - 3" TANK DRAIN.
 - LEVEL ELEMENT PORT WITH 1" BV 320.
 - ROUTE PIPING FROM VENTS/DRAINS TO FLOOR DRAIN, SUPPORT PIPING AS IT RUNS ALONG THE CONCRETE EQUIPMENT PAD PER P660/TYP.
 - VERIFY THAT TANK DESIGN AND TANK LAYOUT SHOWN ACCOMMODATES REQUIREMENTS OF IMMERSION HEATERS, INCLUDING INSTALLATION AND REMOVAL OF IMMERSION HEATERS PRIOR TO TANK FABRICATION.
 - FURNISH AND PROVIDE VALVE OPERATOR STEM EXTENSION FOR VALVE LOCATED IN THE TRENCH PER M741/TYP.
 - CIP IMMERSION HEATER CONTROL PANEL.
 - 2" BV 305.
 - USE PIPE REDUCERS AS NEEDED TO ACCOMMODATE 4" VALVE IN 6" DIAMETER PIPE.

KEY TAGS:

1	VAL-0012B	10" BFV 530
2	VAL-25.0903E	4" VBV 350
3	FE-25.0903	6" FLUSH FLOW METER
4	VAL 25.0903C	8" BFV 530
5	VAL-25.0903D	6" BFV 530
6	VAL 25.0903F	6" CV 632
7	PMP 25.0903	MEMBRANE FLUSH PUMP
8	VAL 25.0007D	10" BFV 530
9	PMP 25.0011	CIP PUMP
10	VAL 25.0008D	10" BFV 530
11	TNK 25.0903	FLUSH TANK
12	TNK 25.0010	CIP TANK 2
13	TNK 25.0009	CIP TANK 1
14	HTR 25.0014	CIP IMMERSION HEATER
15	HTR 25.0013	CIP IMMERSION HEATER
16	VAL 25.0011A	10" BFV 530
17	VAL 25.0011F	4" BFV 530
18	VAL 25.0005M	10" BFV 521
19	VAL 25.0903G	6" BFV 521
20	VAL 25.0008C	2" BFV 530
21	VAL 25.0007C	6" BFV 530
22	WE 25.0011	CIP CHEMICAL SCALE
23	VAL 25.0012D	10" BFV 530
24	VAL 25.0012C	10" BFV 530
25	VAL 25.0012E	10" BFV 530
26	VAL 25.0012F	10" BFV 530
27	FLT 25.0012	CIP CARTRIDGE FILTER
28	VAL 25.0012G	6" BFV 530
29	VAL 25.0903B	8" BFV 530

				DESIGNED KF				CITY OF ANTIOCH				VERIFY SCALES	JOB NO. 10024A.10
				DRAWN GL				ANTIOCH BRACKISH WATER DESALINATION PROJECT				BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
				CHECKED BY				MECHANICAL				0 1"	25M03
				DATE SEPTEMBER 2020				RO FACILITY - CIP SYSTEM LOWER PLAN				IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO.
1	11-10-20	KF	REVISED PER ADDENDUM NO. 4										180 OF 498
2		BY	DESCRIPTION										



KEY TAGS (CONTINUED):

- 36 VAL 25.0102D 8" BFV521
- 37 VAL 25.0102A 8" BFV522A
- 38 VAL 25.0104A 8" BFV522A
- 39 VAL 25.0102C 6" BFV521
- 40 VAL 25.0102B 6" BFV522B

KEY NOTES (CONTINUED):

- 12. FURNISH AND INSTALL TAP IN ROI PIPE FOR PRESSURE GAUGE AND PRESSURE TRANSMITTER. ROUTE 1/4" SA (T5) TO RO TRAIN SAMPLE PANEL. REFER TO SAMPLE PANEL DETAIL AND INSTRUMENTATION DWGS FOR RANGE AND MOUNTING DETAILS.
- 13. FURNISH AND INSTALL SAMPLE TAP. ROUTE 1/4" VNT (T2) TO RO TRAIN SAMPLE PANEL. REFER TO SAMPLE PANEL DETAIL FOR DESTINATION, TAP DETAILS AND LABEL INSTRUCTIONS.
- 14. ROUTE SAMPLE LINE TO THE RO BRINE AND PERMEATE INSTRUMENT SAMPLE PANEL. SECURE SAMPLE LINE TO INTERIOR WALL PER P664/TYP WITH PIPE SUPPORTS SPACED 4 FEET APART.

KEY TAGS:

- 1 PMP 25.0401 RO TRAIN NO. 4 FEED PUMP
- 2 PMP 25.0101 RO TRAIN NO. 1 FEED PUMP
- 3 PMP 25.0404 RO TRAIN NO. 4 INTERSTAGE BOOSTER PUMP
- 4 PMP 25.0104 RO TRAIN NO. 1 INTERSTAGE BOOSTER PUMP
- 5 VAL 25.0401C 8" BFV 522A
- 6 VAL 25.0401D 8" BFV 522A
- 7 AE 25.0402 FIRST STAGE PERMEATE CONDUCTIVITY METER
- 8 AE 25.0403B SECOND STAGE PERMEATE CONDUCTIVITY METER
- 9 AE 25.0403C COMBINED PERMEATE CONDUCTIVITY METER
- 10 AE 25.0403A BRINE CONDUCTIVITY METER
- 11 VAL 25.0403A 3" GV321
- 12 VAL 25.0403C 6" CV631
- 13 FE 25.0403C BRINE FLOW METER
- 14 FE 25.0403A SECOND STAGE PERMEATE FLOW METER
- 15 FE 25.0402 FIRST STAGE PERMEATE FLOW METER
- 16 VAL 25.0403G 10" CV631
- 17 FE 26.0301B BLENDED RO PERMEATE FLOW METER
- 18 VAL 25.0401B 6" BFV521
- 19 VAL 25.0401A 10" BFV521
- 20 VAL 25.0402B 8" BFV522A
- 21 VAL 25.0402C 8" BFV 521
- 22 VAL 25.0406A 10" BFV521
- 23 VAL 25.0406B 10" BFV521
- 24 VAL 25.0405A 4" BFV521
- 25 VAL 25.0405B 4" BFV521
- 26 VAL 25.0403E 6" BFV521
- 27 VAL 25.0402A 8" BFV522A
- 28 VAL 25.0402D 8" BFV521
- 29 VAL 25.0404B 6" BFV522B
- 30 VAL 25.0201A 10" BFV521
- 31 VAL 25.0101A 10" BFV521
- 32 VAL 25.0403H 6" BFV522B
- 33 VAL 25.0103A 3" GV321
- 34 VAL 25.0103F 6" BFV522B
- 35 VAL 25.0103B 6" BFV521

GENERAL NOTES:

- 1. VALVE QUANTITY, SIZE, MATERIAL, TYPE, AND PLACEMENT ARE IDENTICAL ON EACH RO TRAIN. INFORMATION ASSOCIATED WITH VALVE KEY TAGS IDENTIFIED ON THE RO TRAINS SHOWN ON THIS DRAWING APPLY TO ALL RO TRAINS.
- 2. FINAL ELEVATION TO BE DETERMINED BASED ON PUMP SELECTION, MANUFACTURER RECOMMENDATIONS, AND HI STANDARDS.
- 3. FURNISH AND INSTALL SAMPLE TAPS FOR STAGE 1 PERMEATE (1/4" SA (T2)), STAGE 2 PERMEATE (1/4" SA (T2)), AND BRINE (1/4" SA (T5)). TAPS WILL BE LOCATED ON TOP OF THE PIPING RUNNING ALONG THE TOP OF THE ROMS AND ALLOW THE SAMPLE TAPS TO ALSO SERVE AS AIR BLEEDS. ROUTE SA LINES TO RO TRAIN SAMPLE PANEL. REFER TO SAMPLE PANEL DETAIL FOR DESTINATION, TAP DETAILS AND LABEL INSTRUCTIONS.
- 4. ROMSS SHALL SUPPORT THIS ROF PIPE OFF THE ROMS FRAME.
- 5. 2" BV305.
- 6. 2" BV320.
- 7. TAP FOR SUCTION INSTRUMENTS ON PUMP HEAD: PSL 25.0201, FSL 25.0201, PI 25.0201A, AND PI 25.0201B. USE 1/2" BV305 FOR INSTRUMENTS WHERE SHOWN ON P&IDS. TYPICAL FOR ALL TRAINS. SUPPORT INSTRUMENTS USING M723/TYP.
- 8. TAP FOR DISCHARGE INSTRUMENTS ON PUMP HEAD: PSL 25.0401, FSL 25.0401, PI 25.0401A, AND PI 25.0401B. USE 1/2" BV305 FOR INSTRUMENTS WHERE SHOWN ON P&IDS. TYPICAL FOR ALL TRAINS. SUPPORT INSTRUMENTS USING M723/TYP.
- 9. FURNISH AND INSTALL SAMPLE TAP. ROUTE 1/4" VNT (T5) TO RO TRAIN SAMPLE PANEL. REFER TO SAMPLE PANEL DETAIL FOR DESTINATION, TAP DETAILS AND LABEL INSTRUCTIONS.
- 10. FURNISH AND INSTALL TAP FOR PRESSURE GAUGE AND PRESSURE TRANSMITTER. ROUTE 1/4" SA (T5) TO RO TRAIN SAMPLE PANEL. REFER TO SAMPLE PANEL DETAIL AND INSTRUMENTATION DWGS FOR RANGE AND MOUNTING DETAILS.
- 11. FURNISH AND INSTALL SAMPLE TAP. ROUTE 1/4" VNT (T5) TO RO TRAIN SAMPLE PANEL. REFER TO SAMPLE PANEL DETAIL FOR DESTINATION, TAP DETAILS AND LABEL INSTRUCTIONS.

F SECTION

25M01 SCALE: 3/16"=1'-0" FILE: 10024A1025M0300

G SECTION

25M01 SCALE: 3/16"=1'-0" FILE: 10024A1025M0301

H SECTION

25M01 SCALE: 3/16"=1'-0" FILE: 10024A1025M0302

J SECTION

25M01 SCALE: 3/16"=1'-0" FILE: 10024A1025M0303

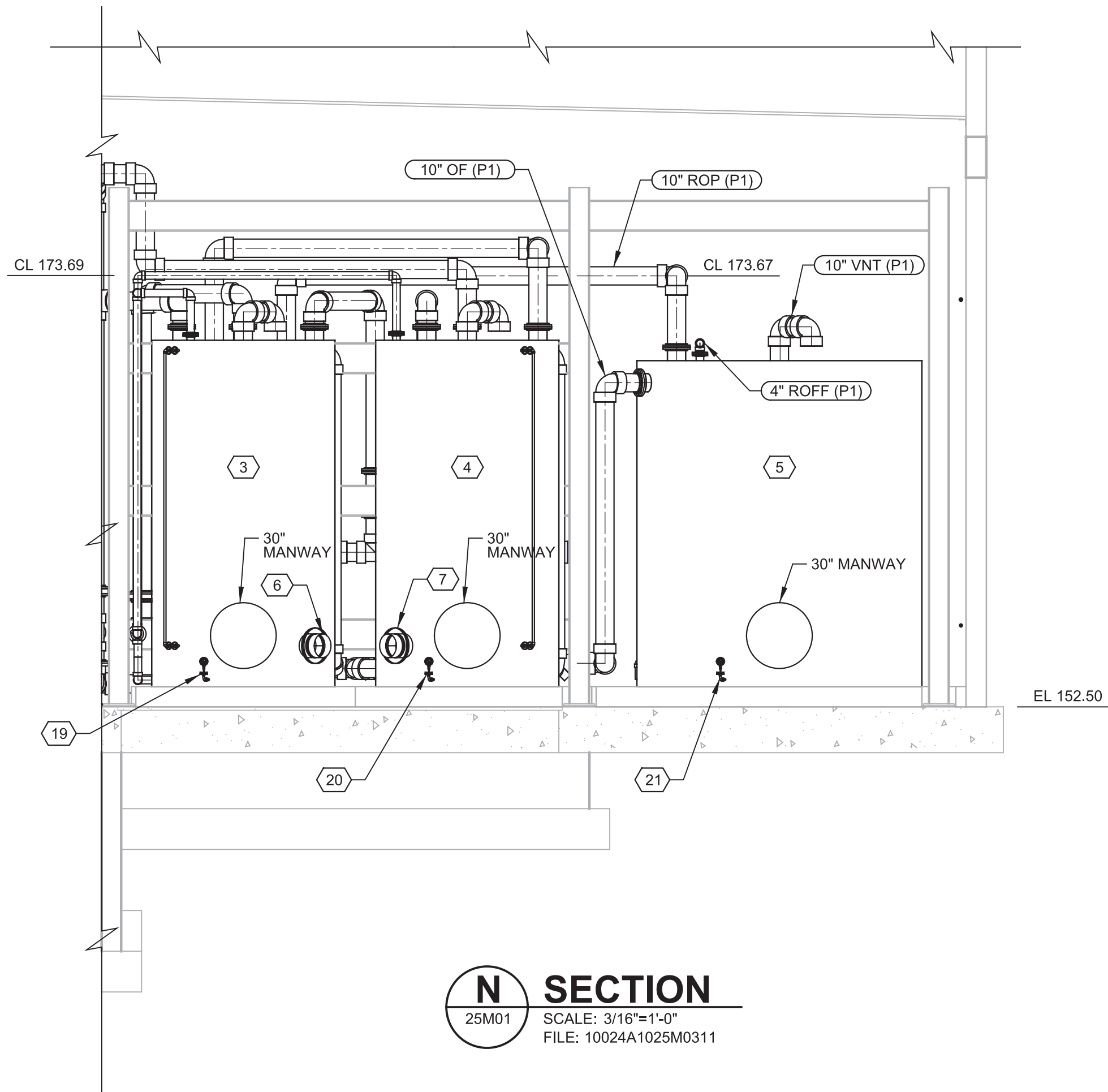
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Plot Date: 10-NOV-2020 10:12:04 AM

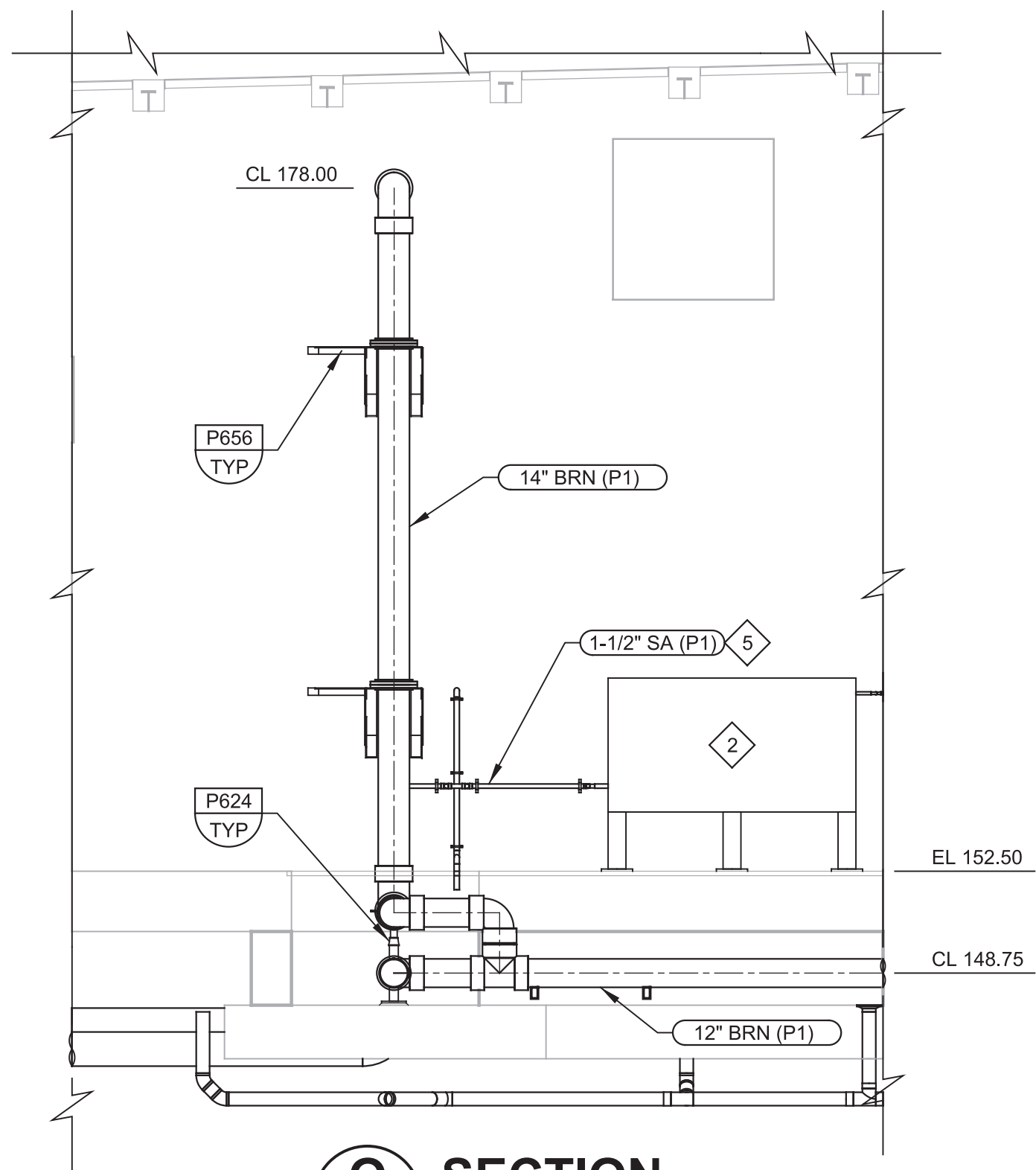
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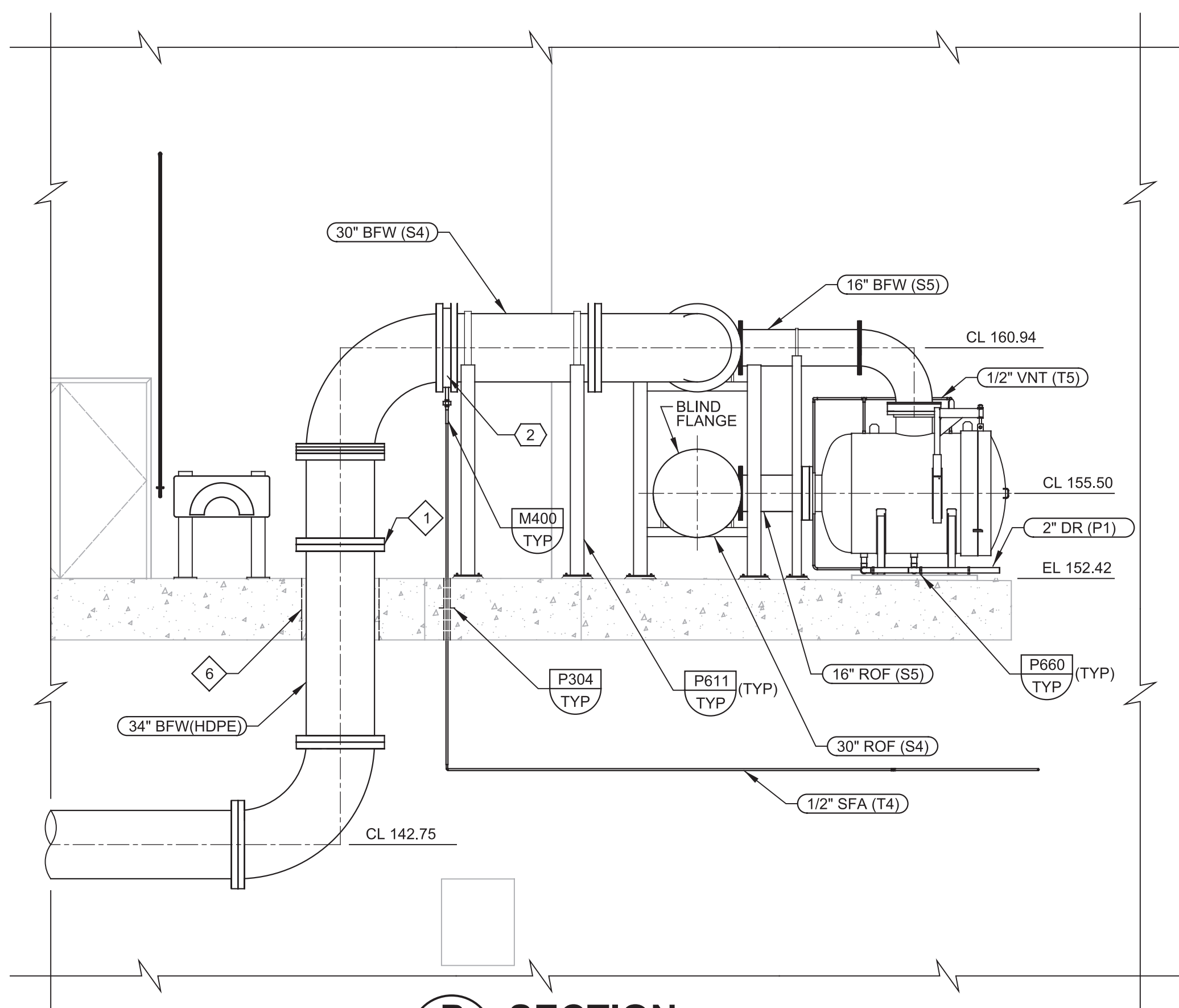
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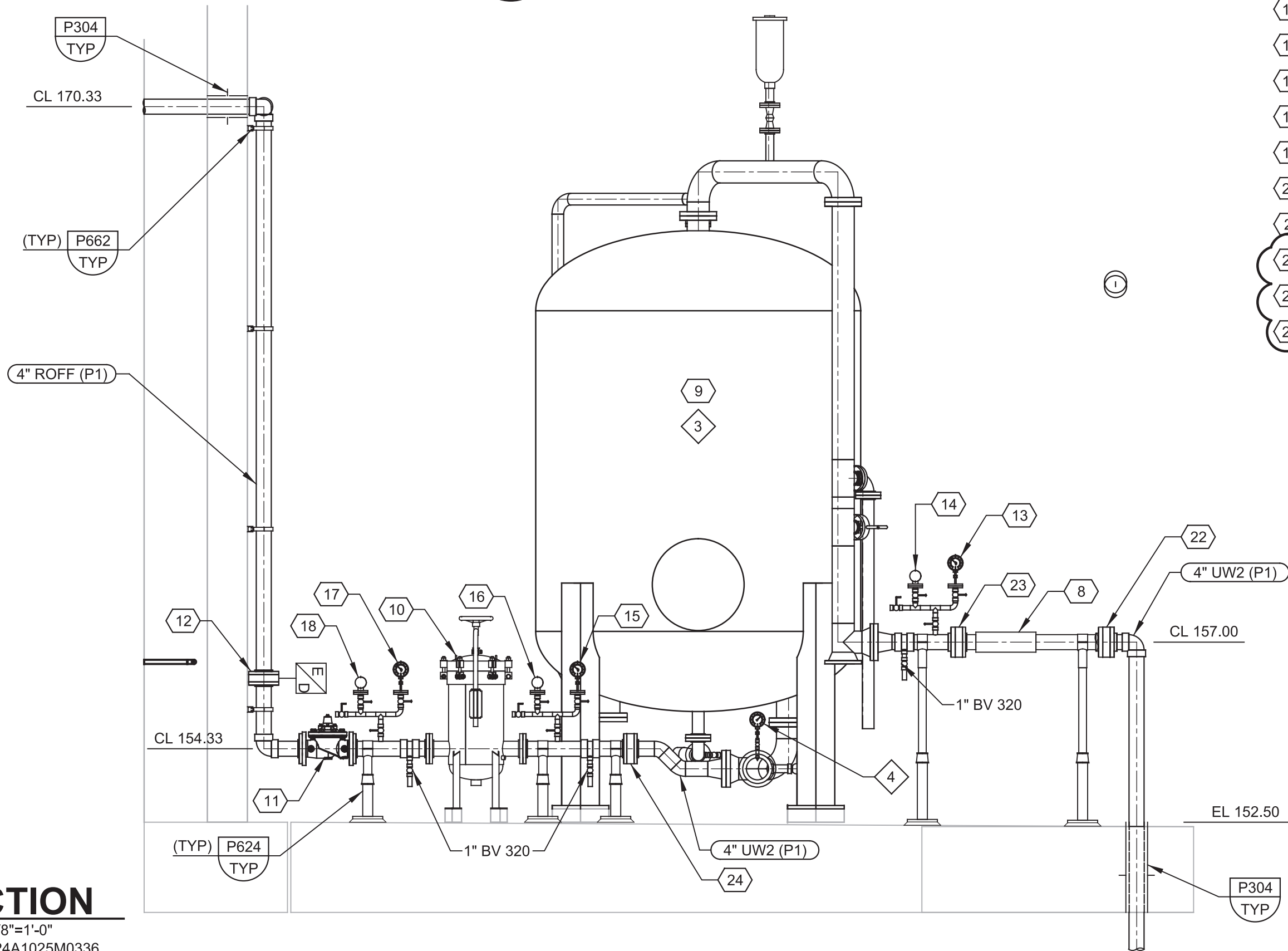
N SECTION
25M01 SCALE: 3/16"=1'-0"
FILE: 10024A1025M0311



Q SECTION
25M01 SCALE: 3/16"=1'-0"
FILE: 10024A1025M0335



P SECTION
25M01 SCALE: 1/4"=1'-0"
FILE: 10024A1025M0325



R SECTION
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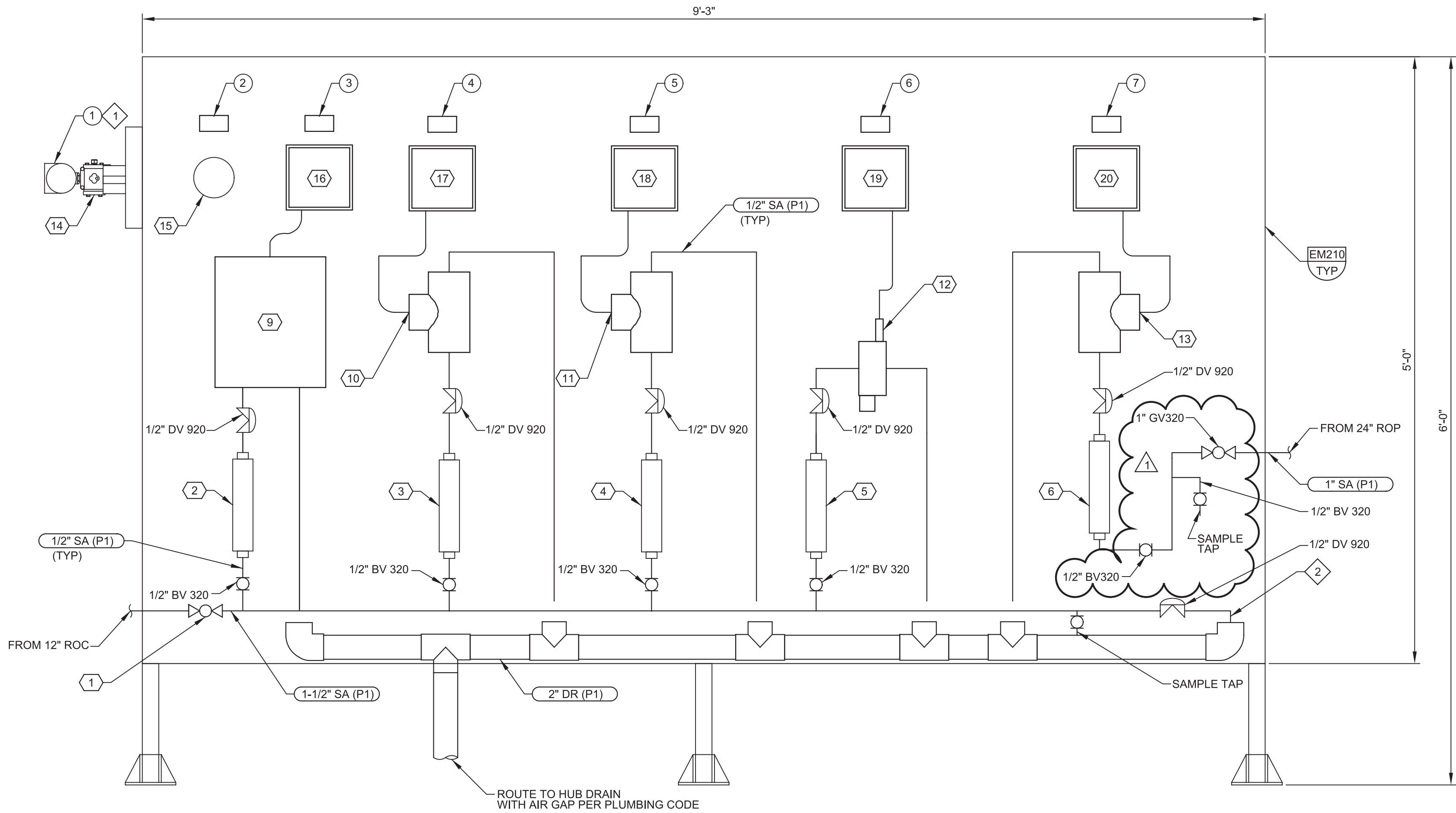
GENERAL NOTES:

- COVER VENT OUTLETS WITH #24 316L SST MESH SCREEN.
- KEY NOTES:**
 - PROVIDE FLANGES BACKING RING, GASKET AND ADAPTORS AS REQUIRED FOR RESTRAINED TRANSITION 6" ABOVE GRADE FROM 12" PVC TO 14" HDPE PIPE.
 - RO BRINE AND RO PERMEATE INSTRUMENT SAMPLE PANEL, REFER TO DWG 25M10 FOR DETAILS.
 - ROUTE LINES FROM THE GAC CONTACTOR'S AIR VACUUM VALVE AND RUPTURE DISK AWAY FROM HVAC CONDENSERS. WRAP OUTLET PIPING OF AIR VACUUM VALVE AND RUPTURE DISK WITH #24 316L SST MESH SCREEN.
 - PRESSURE GAUGE PROVIDED BY GAC FILTER SUPPLIER.
 - ROUTE SAMPLE LINE TO THE RO BRINE AND PERMEATE INSTRUMENT SAMPLE PANEL. SECURE SAMPLE LINE TO INTERIOR WALL PER P664/TYP WITH PIPE SUPPORTS SPACED 4 FEET APART.
 - HOT DIPPED GALVANIZED SCHEDULE 40 SLEEVE.

KEY TAGS:

1	FLT-25.0006	CARTRIDGE FILTER
2	SMX-25.0006	STATIC MIXER
3	TNK 25.0009	CIP TANK 1
4	TNK 25.0010	CIP TANK 2
5	TNK 25.0903	FLUSH TANK
6	HTR.25.0013	CIP IMMERSION HEATER
7	HTR.25.0014	CIP IMMERSION HEATER
8	FE-71.5001	FLOW TOTALIZER
9	FIT-71.5001	FLOW TOTALIZER
10	TNK 25.0903	BAG FILTER
11	VAL-71.5003	4" FCV 920
12	VAL-71.5002	4" BFV 530
13	PI-71.5001	PRESSURE INDICATOR
14	PIT-71.5001	PRESSURE TRANSMITTER
15	PI-71.5005	PRESSURE INDICATOR
16	PIT-71.5005	PRESSURE TRANSMITTER
17	PI-71.5006	PRESSURE INDICATOR
18	PIT-71.5006	PRESSURE TRANSMITTER
19	LE-25.0009	LEVEL TRANSMITTER
20	LE-25.0010	LEVEL TRANSMITTER
21	LE-25.0903	LEVEL TRANSMITTER
22	LE-25.0009	LEVEL TRANSMITTER
23	LE-25.0010	LEVEL TRANSMITTER
24	LE-25.0903	LEVEL TRANSMITTER

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LAST SAVED BY: gleal



3 RO BRINE/PERMEATE INSTRUMENT/SAMPLE PANEL

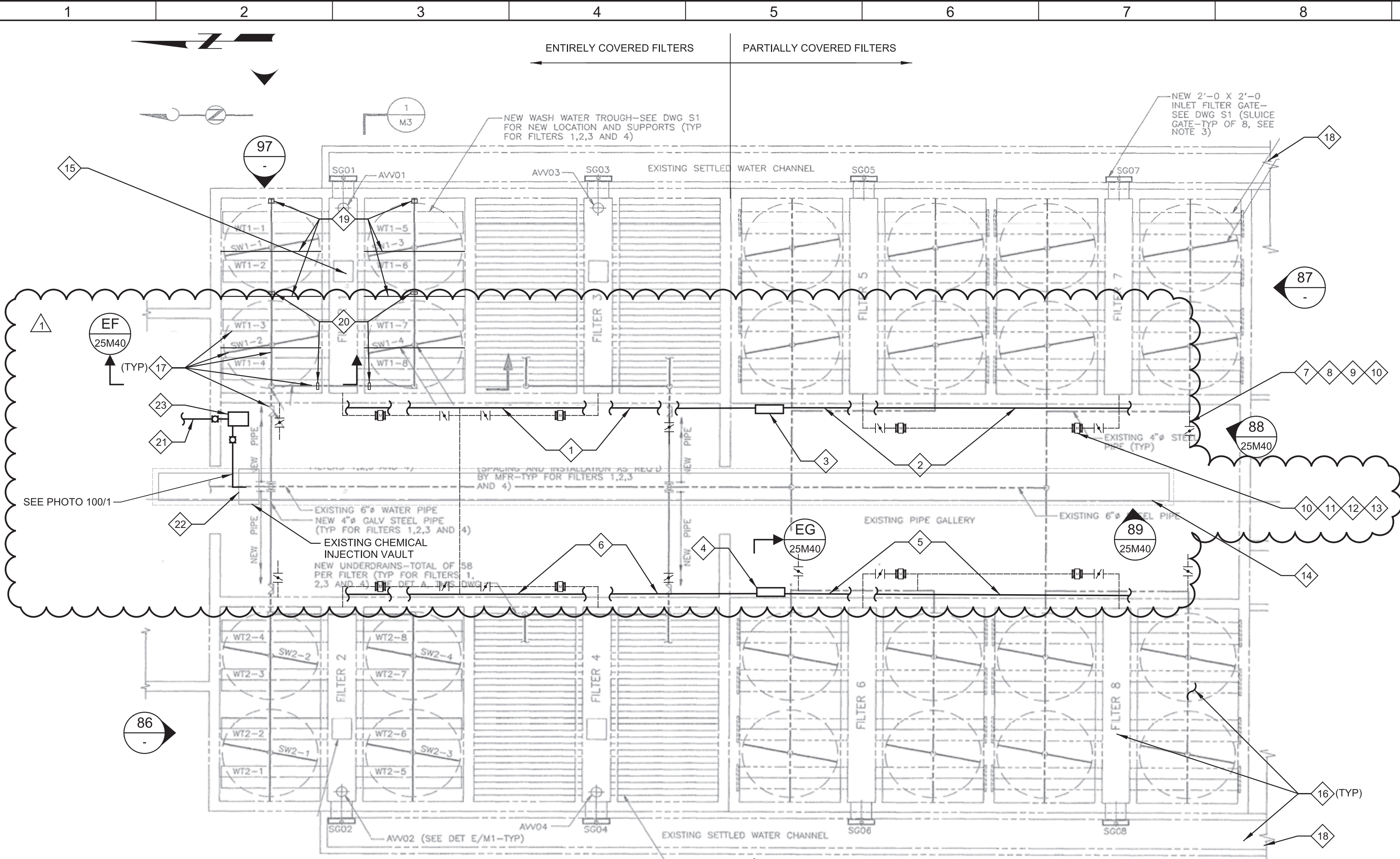
25M01 SCALE: 1 1/2"=1'-0"
FILE: 10024A1025M402

NO.	DESCRIPTION	LABEL (NOTE A)			
		FIRST LINE	SECOND LINE	TEXT	COLOR BACK
1	PRESSURE TRANSMITTER	RO BRINE PRESSURE	PIT-25.0904	BLACK	WHITE
2	PRESSURE GAUGE	RO BRINE PRESSURE	PI-25.0904	BLACK	WHITE
3	TURBIDITY ANALYZER	RO BRINE TURBIDITY	AIT-25.0904C	BLACK	WHITE
4	CONDUCTIVITY ANALYZER	RO BRINE CONDUCTIVITY	AIT-25.0904A	BLACK	WHITE
5	pH ANALYZER	RO BRINE pH	AIT-25.0904D	BLACK	WHITE
6	CHLORINE ANALYZER	RO BRINE CHLORINE	AIT-25.0904B	BLACK	WHITE
7	CONDUCTIVITY ANALYZER	RO PERMEATE CONDUCTIVITY	AIT-26.0301A	BLACK	WHITE

NOTES:
A. FURNISH LABELS PER TYPICAL DETAIL EN004 (ELECTRICAL DRAWINGS) W/ TEXT AND BACKGROUND COLORS AS SCHEDULED.

- GENERAL NOTES:**
- SUPPORT SAMPLE PANEL TUBING AND PIPING AS REQUIRED (SEE SECTION 15061). PIPE SUPPORTS SHALL BE FRP UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- KEY NOTES:**
- NUMBER SHOWN ON LABEL REFERS TO ITEM NUMBER ON SAMPLE PANEL SCHEDULE. REFER TO SCHEDULE FOR ACTUAL TEXT.
 - ROUTE ANALYZER DRAIN LINES TO 2" DR HEADER WITH AIR GAP.
- KEY TAGS:**
- | | | |
|----|--------------|-----------------------------|
| 1 | VAL 25.0904F | 1-1/2" GV 320 |
| 2 | FI 25.0904C | ROTAMETER WITH NEEDLE VALVE |
| 3 | FI 25.0904A | ROTAMETER WITH NEEDLE VALVE |
| 4 | FI 25.0904D | ROTAMETER WITH NEEDLE VALVE |
| 5 | FI 25.0904B | ROTAMETER WITH NEEDLE VALVE |
| 6 | FI 23.0301A | ROTAMETER WITH NEEDLE VALVE |
| 7 | - | NOT USED |
| 8 | - | NOT USED |
| 9 | AE 25.0904C | TURBIDIMETER PROBE |
| 10 | AE 25.0904A | CONDUCTIVITY PROBE |
| 11 | AE 25.0904D | PH PROBE |
| 12 | AE 25.0904B | CHLORINE PROBE |
| 13 | AE 25.0301A | CONDUCTIVITY PROBE |
| 14 | PIT 25.0904 | PRESSURE TRANSMITTER |
| 15 | PI 25.0904 | PRESSURE INDICATOR |
| 16 | AIT 25.0904C | CONTROLLER |
| 17 | AIT 25.0904A | CONTROLLER |
| 18 | AIT 25.0904D | CONTROLLER |
| 19 | AIT 25.0904B | CONTROLLER |
| 20 | AIT 26.0301A | CONTROLLER |

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HATCH ACCESS ONLY FOR COVERED FILTERS

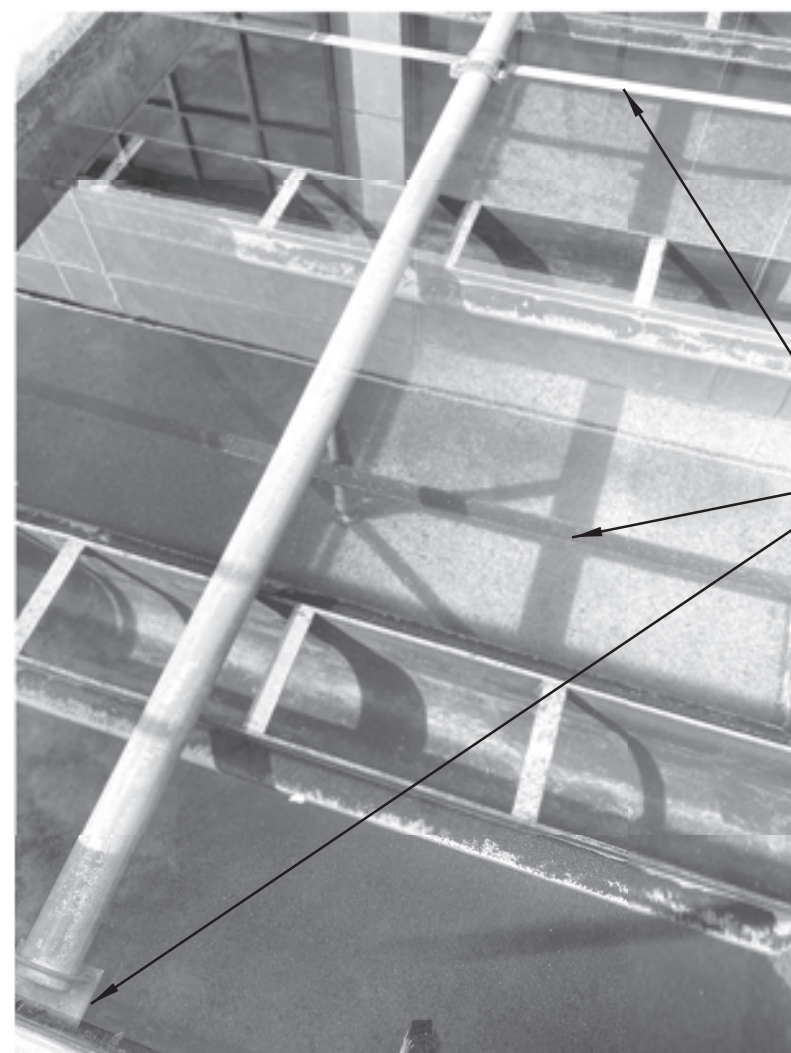
86 VIEW LOOKING SOUTH
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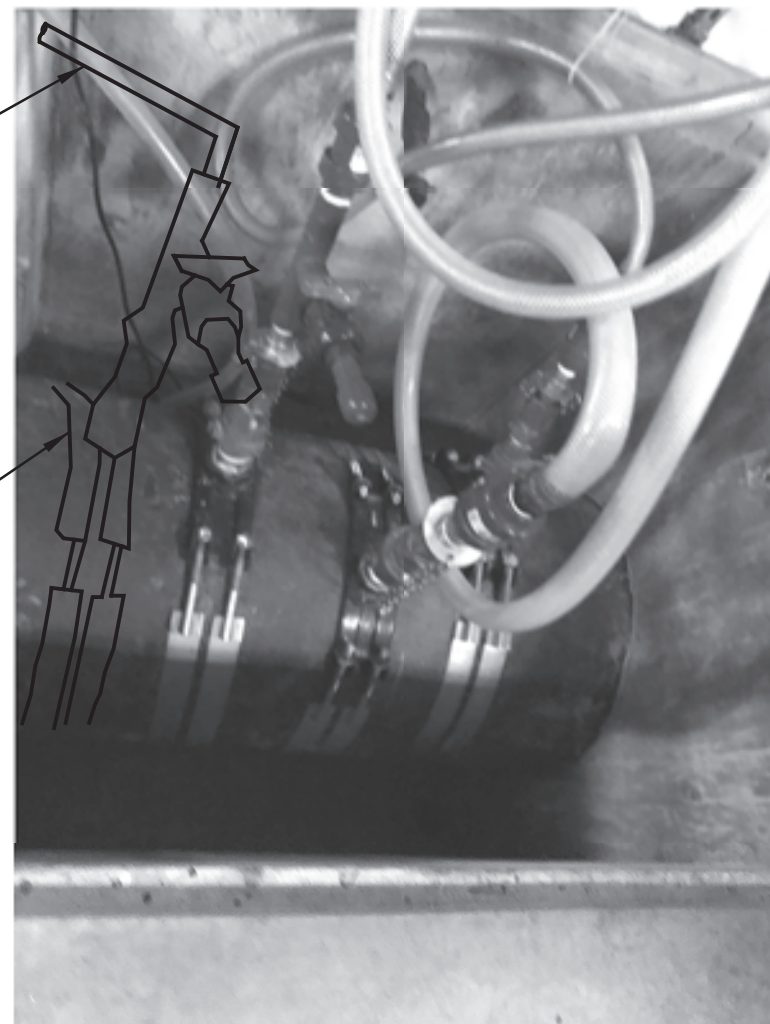
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87 VIEW LOOKING NORTH
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97 VIEW LOOKING EAST AT FILTER SURFACE WASH PIPING
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100 EXISTING CHEMICAL INJECTION INSIDE VAULT
SCALE: NO SCALE
FILE: 10024A1025M39E.JPG

GENERAL NOTES:

1. REFER TO SPEC SECTION 09968 FOR COATING REQUIREMENTS.
2. REFER TO SPEC SECTION 13224 AND 13226 FOR FILTER UNDERDRAIN, SURFACE WASH PIPING, AIR VALVE PIPING, PIPING SUPPORTS AND FILTER MEDIA REPLACEMENT REQUIREMENTS.
3. REFER TO EXISTING REFERENCE DRAWINGS IN APPENDICES FOR DIMENSIONS OF EXISTING STRUCTURES.
4. NEW MANWAYS SHALL BE 316 SS APPROX DIMENSION 20.5"x24.5" (FIELD CONFIRM). PROVIDE GASKETS AND 316 SS BOLTS TO SECURE HATCHES AND ENSURE WATER TIGHTNESS. FURTHER SEAL PERIMETER OF PLATE WITH NSF APPROVED MASTIC.

KEY NOTES:

1. 1/2" 316SS SAMPLE TUBING FROM FILTERS 1 AND 3 TO SDI MONITOR. TEE INTO EXISTING FILTER SAMPLE PIPING. ROUTE ALONG WALL, SUPPORT PER DET P660/TYP (SIM).
2. 1/2" 316SS SAMPLE TUBING FROM FILTERS 5 AND 7 TO SDI MONITOR. TEE INTO EXISTING FILTER SAMPLE PIPING. ROUTE ALONG WALL PER DET P660/TYP (SIM).
3. AIT 24.0001. SDI MONITOR FOR FILTERS 1, 3, 5, AND 7.
4. AIT 24.0002. SDI MONITOR FOR FILTERS 2, 4, 6, AND 8.
5. 1/2" 316SS SAMPLE TUBING FROM FILTERS 6 AND 8 TO SDI MONITOR. TEE INTO EXISTING FILTER SAMPLE PIPING. ROUTE ALONG WALL PER DET P660/TYP (SIM).
6. 1/2" 316SS SAMPLE TUBING FROM FILTERS 2 AND 4 TO SDI MONITOR. TEE INTO EXISTING FILTER SAMPLE PIPING. ROUTE ALONG WALL PER DET P660/TYP (SIM).
7. SEE PHOTO 88/25M40. TYP FOR ALL 8 FILTERS.
8. DEMOLISH EXISTING BUTTERFLY VALVE AND PNEUMATIC ACTUATORS FOR BACKWASH (16"), FILTER-TO-WASTE (12"), AND DRAIN (8") PIPING FOR EACH FILTER.
9. INSTALL NEW BUTTERFLY VALVE AND MOTOR ACTUATOR FOR BACKWASH (16"), FILTER-TO-WASTE (12"), AND DRAIN (8") PIPING FOR EACH FILTER. NEW VALVES SHALL BE TYPE BFV521 AS SPECIFIED IN SECTION 15112.
10. CONTRACTOR SHALL FIELD CONFIRM ALL DIMENSIONS AND VALVE SIZES.
11. SEE PHOTO 89/25M40. TYP FOR ALL 8 FILTERS.
12. DEMOLISH EXISTING VENTURI FLOW METERS, PNEUMATIC ACTUATORS, AND CONNECTED PIPING APPROX 10 FEET LONG EACH. (1 PER FILTER).
13. INSTALL NEW FLANGED SEGMENTS OF 10" 316 SS SCHEDULE 10S PIPE, WITH NEW MAGNETIC FLOW METERS (1 PER FILTER) AND NEW MOTORIZED VALVES (1 PER FILTER). NEW VALVES SHALL BE TYPE BFV521 AS SPECIFIED IN SECTION 15112.
14. LINE EXISTING 24" CI PIPE ENCASED BENEATH FLOOR OF GALLERY TO CLEARWELL. REFER TO SHEET 25C02 FOR COATING REQUIREMENTS.
15. REPLACE EXISTING MANWAYS LOCATED IN THE FLOOR OF EACH UPPER FILTER GULLET. (TYP ALL 8 FILTERS) SEE GENERAL NOTE 4.
16. REPLACE EXISTING FILTER UNDERDRAINS AND FILTER MEDIA. COAT INTERIOR CONCRETE SURFACES, INCLUDING FILTER WALLS, UNDERSIDE OF SLABS OVER THE FILTER, ALL LOWER AND UPPER FILTER GULLET SURFACES, AND ALL INTERIOR SURFACES IN THE SETTLED WATER CHANNEL (INCLUDING TOP SLAB). DO NOT TROWEL OR FINISH THE FILTER FLOOR TO A SMOOTH FINISH. DO NOT COAT OR APPLY ANY SEALERS TO THE FILTER FLOORS. COORDINATE PREPARATION OF THE FLOOR WITH THE UNDERDRAIN SUPPLIER. REFERENCE EXISTING DRAWINGS IN BID DOCUMENT APPENDICES FOR FILTER DIMENSIONS.
17. REPLACE SURFACE WASH SWEEPS, SURFACE WASH PIPING AND SURFACE WASH PIPING SUPPORTS WITHIN EACH FILTER CELL. REPLACE AIR/VAC VALVES, AIR VALVE PIPING AND AIR VALVE PIPING SUPPORTS LOCATED IN THE UPPER GULLET OF ALL FILTERS. ALL PIPING AND SUPPORT MATERIAL SHALL BE 316 SS. SEE EXISTING DRAWINGS FOR AIR VALVE PIPING AND SUPPORTS.
18. COAT COMPLETE SETTLED WATER CHANNEL, SEE 25M41 FOR CONTINUATION OF CHANNEL.
19. EXISTING SUPPORT SYSTEM FOR SURFACE WASH PIPING CONSISTS OF SIX 3"x3" L" CHANNELS (SEE PHOTO 97) AND TWO 6"x4" ANGLE BRACKET PER FILTER (TYP ALL 8 FILTERS). FIELD VERIFY EXACT SUPPORT DIMENSIONS AND REPLACE WITH 316 SS SUPPORT SYSTEM.
20. WHEN REPLACING SURFACE WASH PIPING, INSTALL RIGID GROOVED COUPLINGS IN THESE LOCATIONS (TYP 4 PER FILTER, TYP ALL 8 FILTERS).
21. 1" SST TUBE TO ANALYZERS. USE EXISTING OVERHEAD PIPE SUPPORTS. FOR CONT SEE DWG 25M38.
22. 1" SST PIPE HOT TAP EXISTING 24" CI PIPE WITH SST SADDLE. SEE PHOTO 100/-.
23. SAMPLE PUMP PMP 24.0002 MOUNTED ON HOUSE KEEPING PAD PER DET S302/TYP (SIM). FIELD VERIFY LOCATION. MOUNT DISCONNECT SWITCH ON WALL.

REV	DATE	SWE BY	DESCRIPTION
1	11-10-20	SWE	REVISED PER ADDENDUM NO. 4

DESIGNED SW	DATE SEPTEMBER 2020
DRAWN GL	
CHECKED MMB	

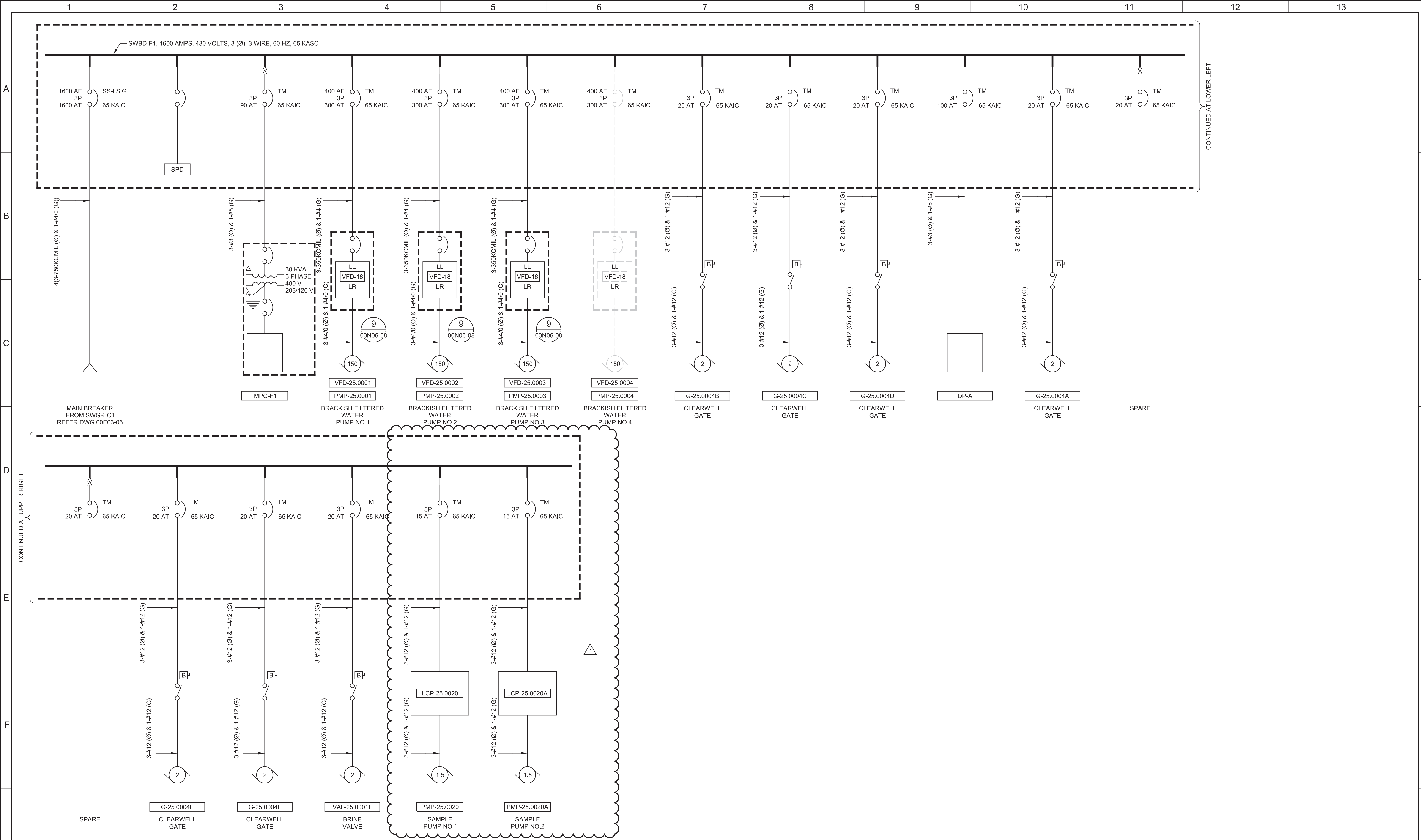
Digitally signed by David C. Wende
Contact Info: Carollo Engineers, Inc.
Date: 2020.11.10 13:30:17 -0800



CITY OF ANTIOCH
ANTIOCH BRACKISH WATER DESALINATION PROJECT
MECHANICAL
PLANT A FILTER MEDIA REPLACEMENT PLAN AND PHOTOS

VERIFY SCALES	JOB NO. 10024A.10
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 25M39
0 1"	SHEET NO. 216 OF 498
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	

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G					DESIGNED AB	<div>Digitally signed by Ashritha Banapuram Contact Info: Carollo Engineers, Inc. Date: 2020.11.10 18:42:34-0800</div> <div></div> <div></div> <div></div> <div></div> <td colspan="2">CITY OF ANTIOCH</td> <td>VERIFY SCALES</td> <td>JOB NO. 10024A.10</td>	CITY OF ANTIOCH		VERIFY SCALES	JOB NO. 10024A.10
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					CHECKED JGB		ELECTRICAL		0  1"	00E03-14
					DATE SEPTEMBER 2020		SWBD-F1 ONE-LINE DIAGRAM		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO.
										251 OF 498
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		DATE	BY	DESCRIPTION						

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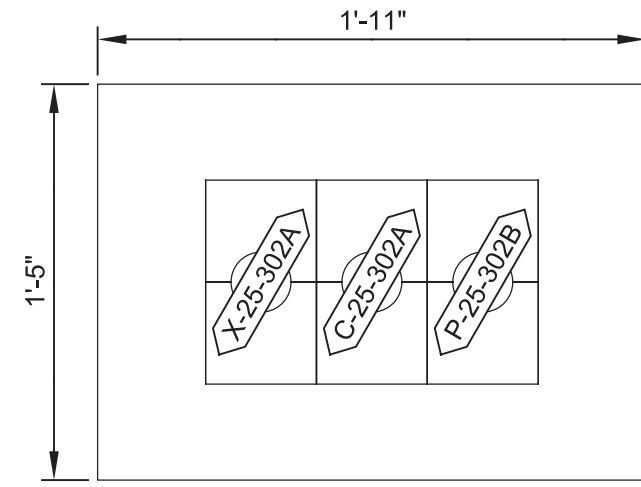
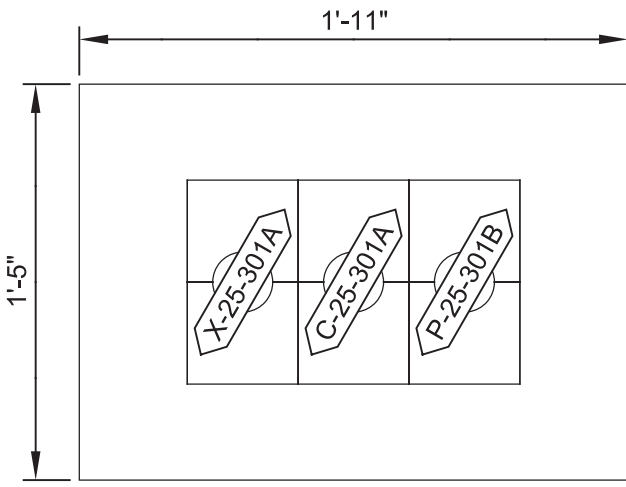
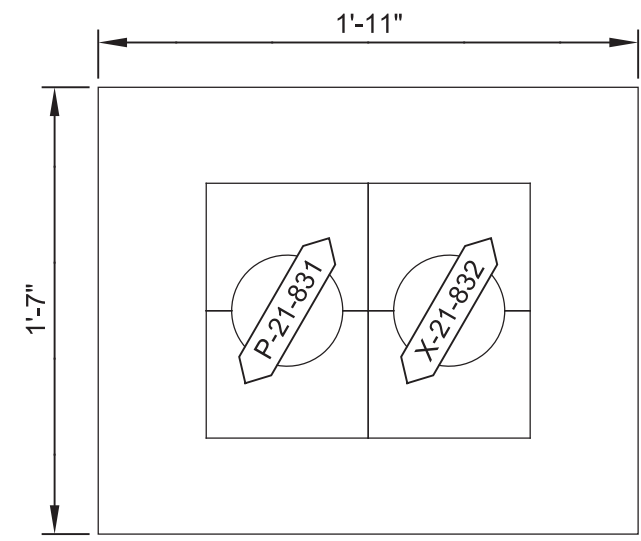
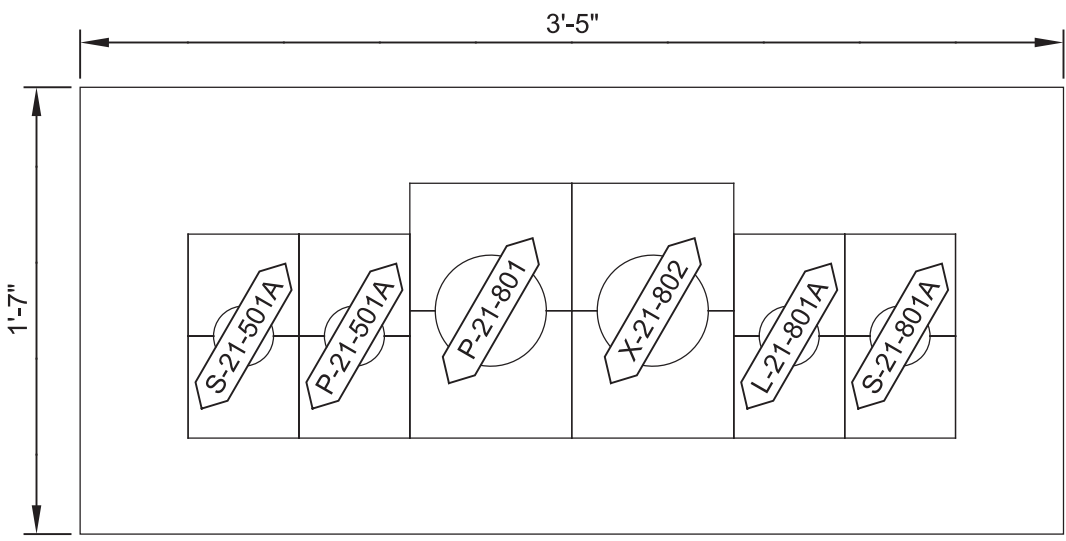
LAST SAVED BY: mpacheco

PANEL DP-RO													11/10/2020
LOCATION: RO ELECTRICAL RM			NEMA: 1			PH A WEIGHTED VA			113200				
VOLTS: 480			FEED: TOP			PH B WEIGHTED VA			113200				
PHASE & WIRE: 3PH 3W			MTG: SURFACE			PH C WEIGHTED VA			113200				
INTERRUPT: 65 KAIC			BUS RATING: 600										
OPTIONS: SPD			MAIN: MLO			EQUIP SIZING VA			339600				
						PANEL AMPS			408.5				
I/C/F	DESCRIPTION	LOAD (VA)	BKR	CIR	Ø	CIR	BKR	LOAD (VA)	DESCRIPTION			I/C/F	
I	RO TRAIN NO.4 VALVES	2400	15A-3P	1	A	2	15A-3P	2400	RO TRAIN NO.2 VALVES			I	
I	VAL-25.0401A, VAL-25.0401B	2400		3	B	4		2400	VAL-25.0201A, VAL-25.0201B			I	
I		2400		5	C	6		2400				I	
I	RO TRAIN NO.3 VALVES	2400	15A-3P	7	A	8	15A-3P	2400	RO TRAIN NO.1 VALVES			I	
I	VAL-25.0301A, VAL-25.0301B	2400		9	B	10		2400	VAL-25.0101A, VAL-25.0101B			I	
I		2400		11	C	12		2400				I	
I	LONE TREE WAY VALVES	2400	20A-3P	13	A	14	15A-3P	2400	RO CIP VALVES			I	
I	VAL-21.0601A, VAL-21.0601B	2400		15	B	16		2400	VAL-25.0007A, VAL-25.0008A			I	
I		2400		17	C	18		2400				I	
I	FLOWMETER PAD VALVES	2400	20A-3P	19	A	20	20A-3P	2400	FLUSH SYSTEM VALVES			I	
I	VAL-21.0602E, VAL-21.0602F	2400		21	B	22		2400	VAL-25.0903A, VAL-25.0903E			I	
I		2400		23	C	24		2400				I	
I	POLYMER SYSTEM	1700	20A-3P	25	A	26	175A-3P	35000				C	
I	VCP-61.1110	1700		27	B	28		35000	TWH-25.0001			C	
I		1700		29	C	30		35000				C	
I		2400	20A-3P	31	A	32	175A-3P	0					
I	RO TRAIN NO.1 & 2 VALVES (FBV)	2400		33	B	34		0	TWH-25.0002 (STANDBY)				
I		2400		35	C	36		0					
I		2400	20A-3P	37	A	38	175A-3P	35000				C	
I	RO TRAIN NO.3 & 4 VALVES (FBV)	2400		39	B	40		35000	TWH-25.0003			C	
I		2400		41	C	42		35000				C	
			20A-3P	43	A	44	20A-3P						
	SPARE			45	B	46			SPARE				
				47	C	48							
				49	A	50							
	SPACE			51	B	52			SPACE				
				53	C	54							
				55	A	56							
	SPACE			57	B	58			SPACE				
				59	C	60							

PANEL MPC-CHEM													11/10/2020
LOCATION:	CHEMICAL FACILITY		NEMA: 4X		PH A WEIGHTED VA			6089					
VOLTS:	208 / 120		FEED: BOTTOM		PH B WEIGHTED VA			10763					
PHASE & WIRE:	3PH 4W		MTG: PWR CNTR		PH C WEIGHTED VA			10488					
INTERRUPT:	22 KAIC		BUS RATING: 150										
OPTIONS:	SPD		MAIN: CB		EQUIP SIZING VA			32289					
			MAIN RATING: 150 AF 150 AT		PANEL AMPS			89.6					
I/C/F	DESCRIPTION		LOAD (VA)	BKR	CIR	Ø	CIR	BKR	LOAD (VA)	DESCRIPTION		I/C/F	
	PMP-65.0201		180	20A-1P	1	A	2	20A-1P	180	PMP-66.0901			
	PMP-65.0202		180	20A-1P	3	B	4	20A-1P	180	PMP-66.0902			
	PMP-69.0101		180	20A-1P	5	C	6	20A-1P	225	PMP-66.0801			
	PMP-65.0102		180	20A-1P	7	A	8	20A-1P	225	PMP-66.0802			
	PMP-66.0804		225	20A-1P	9	B	10	20A-1P	225	PMP-66.0803			
	PMP-66.0805		225	20A-1P	11	C	12	20A-1P	900	CALCIUM CHLORIDE AREA LIGHTING			
	LCP-66.0806		250	20A-1P	13	A	14	20A-1P	720	CALCIUM CHLORIDE AREA RECEPTACLE			
	RECTIFIER ENCLOSURE		1800	20A-1P	15	B	16	20A-1P	600	SODIUM BISULFITE AREA LIGHTING			
	POLYMER AREA LIGHTING		300	20A-1P	17	C	18	20A-1P	540	SODIUM BISULFITE AREA RECEPTACLE			
	POLYMER AREA RECEPTACLE		360	20A-1P	19	A	20	20A-1P	600	SULPHURIC AREA LIGHTING			
	HEAT TRACING		1800	40A-2P	21	B	22	20A-1P	540	SULPHURIC AREA RECEPTACLE			
			1800		23	C	24	20A-1P	40	EXIT LIGHTS			
	VAL-66.0801E		180	20A-1P	25	A	26	20A-1P	316	OUTDOOR LIGHTING			
	VAL-66.0901F		180	20A-1P	27	B	28	30A-1P	900	OUTDOOR RECEPTACLE			
	BLANKET HEATER RECEPTACLE		180	20A-1P	29	C	30	20A-1P	2000	SODIUM BISULFITE HEATING BLACKET RECEPTACLE			
	POLYMER SYSTEM VACUUM RECEPTACLE		1500	20A-1P	31	A	32	20A-1P	180	PMP-61.1101			
	SPARE			20A-1P	33	B	34	20A-1P	180	PMP-61.1102			
	SPARE			20A-1P	35	C	36	20A-1P		SPARE			
	SPARE			20A-1P	37	A	38	20A-1P		SPARE			
	SPARE			20A-1P	39	B	40	20A-1P	1800	PCM-60.0000 POWER			
	SPARE			20A-1P	41	C	42	30A-1P	2000	PCM-60.0000 HVAC POWER			

PANEL DP-A													11/10/2020
LOCATION:		PLANT A FILTER GALLERY		NEMA: 4X		PH A WEIGHTED VA		8000					
VOLTS:		480		FEED: TOP		PH B WEIGHTED VA		8000					
PHASE & WIRE:		3PH 3W		MTG. SURFACE		PH C WEIGHTED VA		8000					
INTERRUPT:		65 KAIC		BUS RATING: 100									
OPTIONS:		SPD		MAIN: CB		EQUIP SIZING VA		24000					
				MAIN RATING: 100 AF 100 AT		PANEL AMPS		28.9					
I/C/F	DESCRIPTION			LOAD (VA)	BKR	CIR	Ø	CIR	BKR	LOAD (VA)	DESCRIPTION		I/C/F
	FILTER 1 GATES			800		1	A	2		800	FILTER 2 GATES		
	VAL-24.0102A, VAL-24.0102B,			800	20A-3P	3	B	4	20A-3P	800	VAL-24.0202A, VAL-24.0202B,		
	VAL-24.0104A, VAL-24.0104B			800		5	C	6		800	VAL-24.0204A, VAL-24.0204B		
	FILTER 3 GATES			800		7	A	8		800	FILTER 4 GATES		
	VAL-24.0302A, VAL-24.0302B,			800	20A-3P	9	B	10	20A-3P	800	VAL-24.0402A, VAL-24.0402B,		
	VAL-24.0304A, VAL-24.0304B			800		11	C	12		800	VAL-24.0404A, VAL-24.0404B		
	FILTER 5 GATES			800		13	A	14		800	FILTER 6 GATES		
	VAL-24.0502A, VAL-24.0502B,			800	20A-3P	15	B	16	20A-3P	800	VAL-24.0602A, VAL-24.0602B,		
	VAL-24.0504A, VAL-24.0504B			800		17	C	18		800	VAL-24.0604A, VAL-24.0604B		
	FILTER 7 GATES			800		19	A	20		800	FILTER 8 GATES		
	VAL-24.0702A, VAL-24.0702B,			800	20A-3P	21	B	22	20A-3P	800	VAL-24.0802A, VAL-24.0802B,		
	VAL-24.0704A, VAL-24.0704B			800		23	C	24		800	VAL-24.0804A, VAL-24.0804B		
						25	A	26					
	SPACE					27	B	28	20A-3P		SPARE		
						29	C	30					
						31	A	32					
	SPACE					33	B	34	20A-3P		SPARE		
						35	C	36					
						37	A	38					
	SPACE					39	B	40	20A-3P		SPARE		
						41	C	42					

PANEL MPC-RPS													11/10/2020
LOCATION:	EXISTING RIVER PUMP STATION BUILDING		NEMA:	4X		PH A WEIGHTED VA		0					
VOLTS:	240 / 120		FEED:	TOP		PH B WEIGHTED VA		0					
PHASE & WIRE:	1PH 3W		MTG:	PWR CNTR									
INTERRUPT:	18 KAIC		BUS RATING:	100									
OPTIONS:	SPD		MAIN:	CB		EQUIP SIZING VA		0					
			MAIN RATING:	100 AF 100 AT		PANEL AMPS		0.0					
I/C/F	DESCRIPTION	LOAD (VA)	BKR	CIR	Ø	CIR	BKR	LOAD (VA)	DESCRIPTION				I/C/F
	EXISTING LIGHTING		20A-1P	1	A	2	100A-2P		EXISTING DWR PANEL				
	EXISTING LIGHTING		20A-1P	3	B	4							
	EXISTING RECEPTACLE		20A-1P	5	A	6	20A-1P		SPARE				
	EXISTING RECEPTACLE		20A-1P	7	B	8	20A-1P		SPARE				
	SPARE		20A-1P	9	A	10	20A-1P		SPARE				
	SPARE		20A-1P	11	B	12	20A-1P		SPARE				
	SPARE		20A-1P	13	A	14	20A-1P		SPARE				
	SPARE		20A-1P	15	B	16	20A-1P		SPARE				
	SPARE		20A-1P	17	A	18	20A-1P		SPARE				



GENERAL NOTES:

1. CONSTRUCT DUCT BANK IN ACCORDANCE WITH EM001 UNLESS OTHERWISE INDICATED.

DUCT BANK SECTION

21E01-01, 21E10-01

B DUCT BANK SECTION

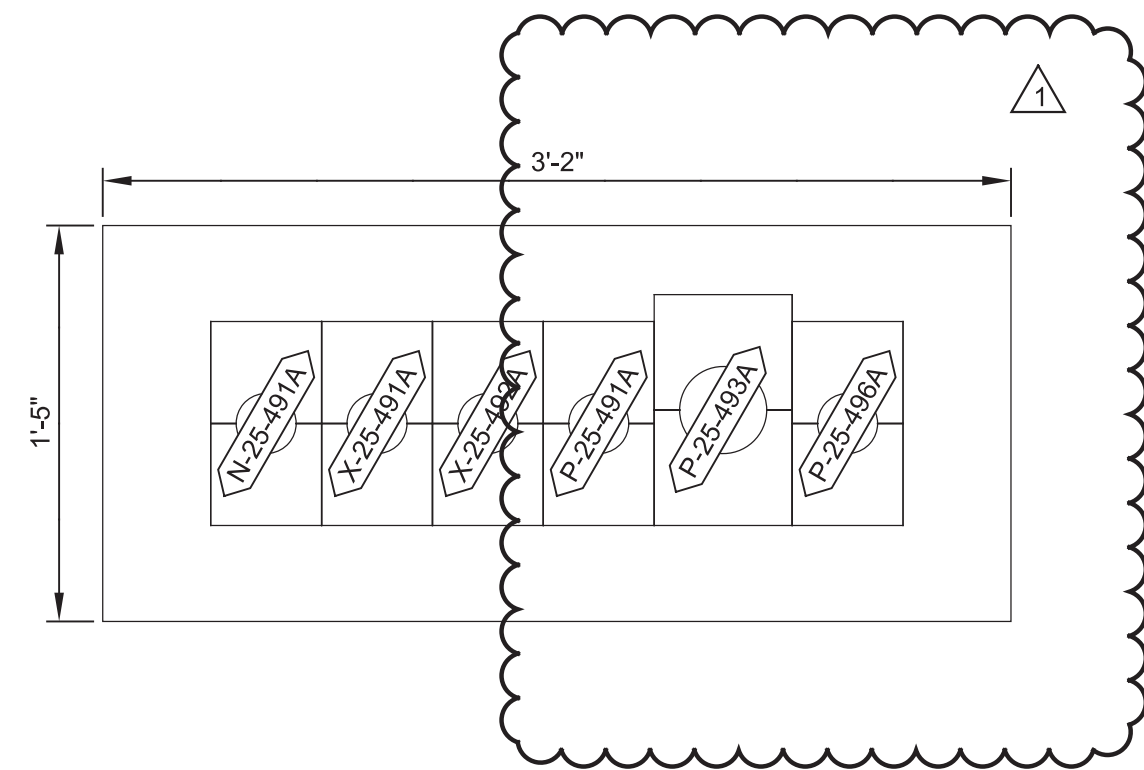
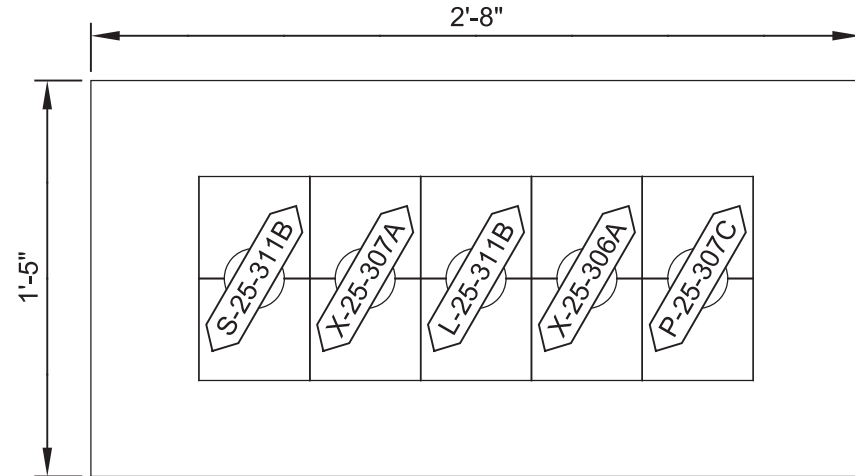
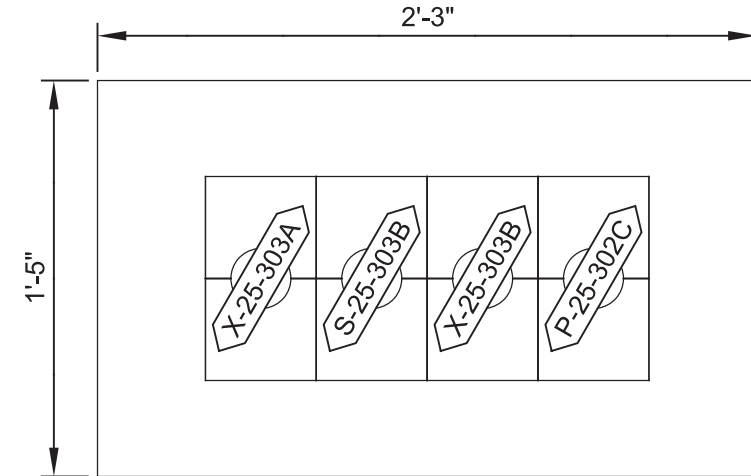
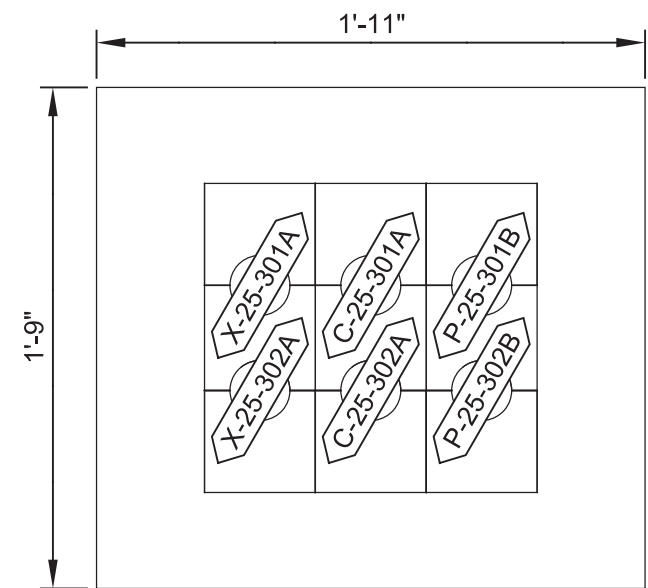
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C DUCT BANK SECTION

25E10-08

D DUCT BANK SECTION

25E10-08



DUCT BANK SECTION

25E01-01, 25E10-08

F DUCT BANK SECTION

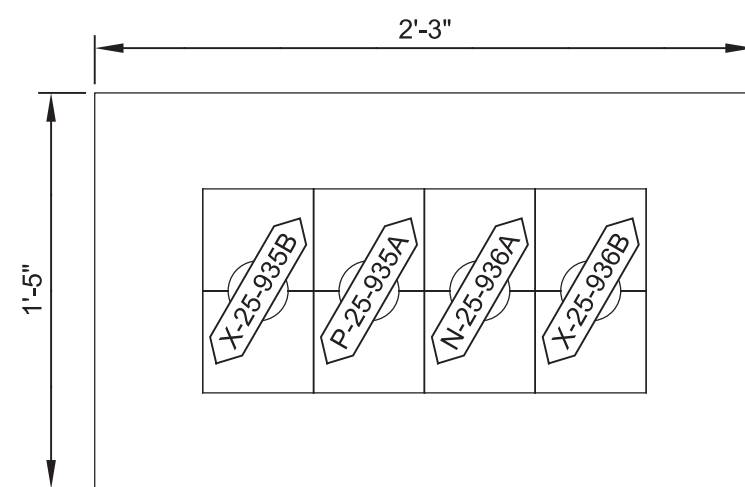
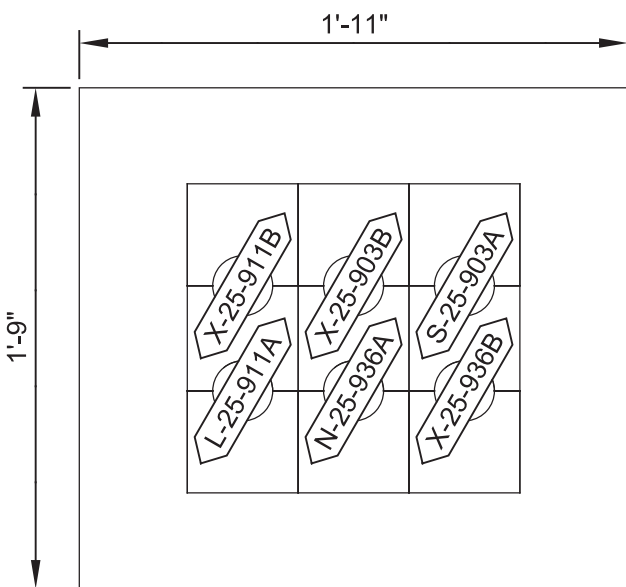
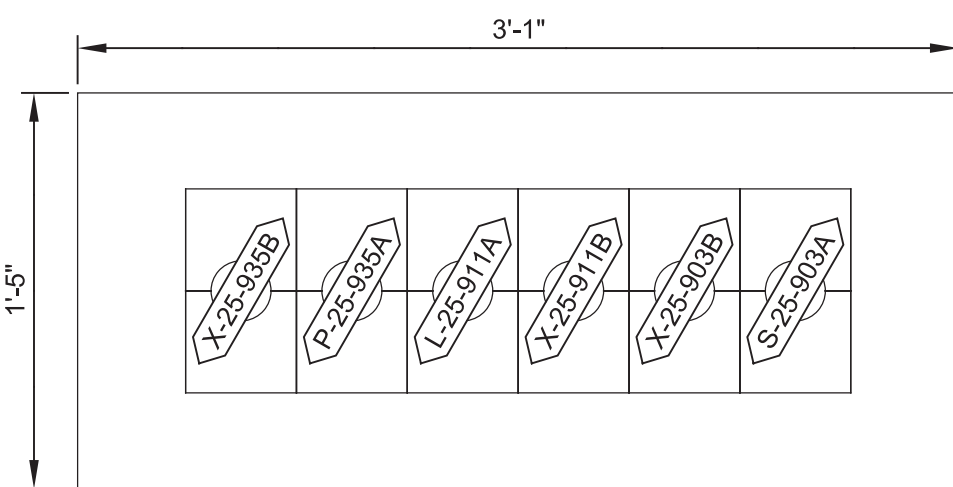
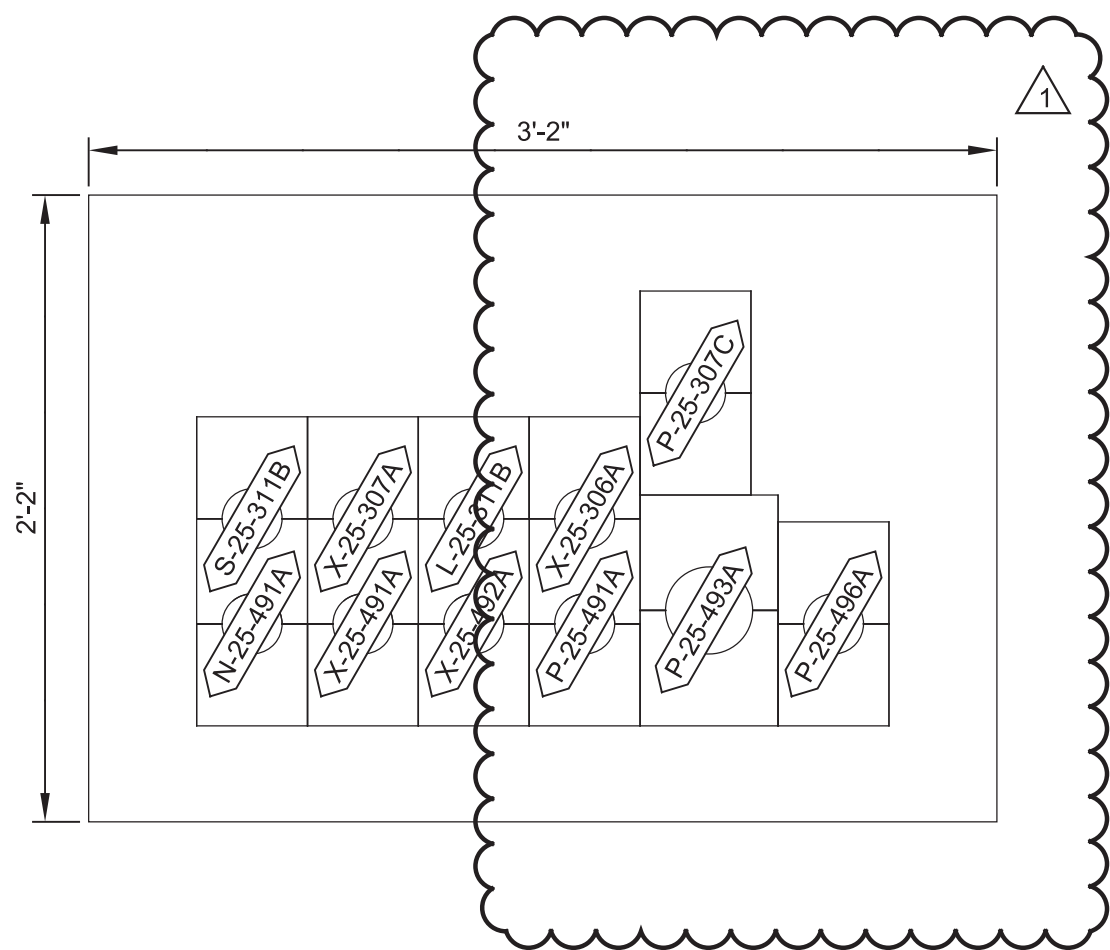
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G DUCT BANK SECTION

25E01-02, 25E10-08

DUCT BANK SECTION

— 25E01-02, 25E10-05, 25E20-05



DUCT BANK SECTION

— 25E01-02, 25E01-05, 25E15-01, 25E20-01, 25E25-01

J DUCT BANK SECTION

— 25E10-09, 25E15-09, 25E25-09

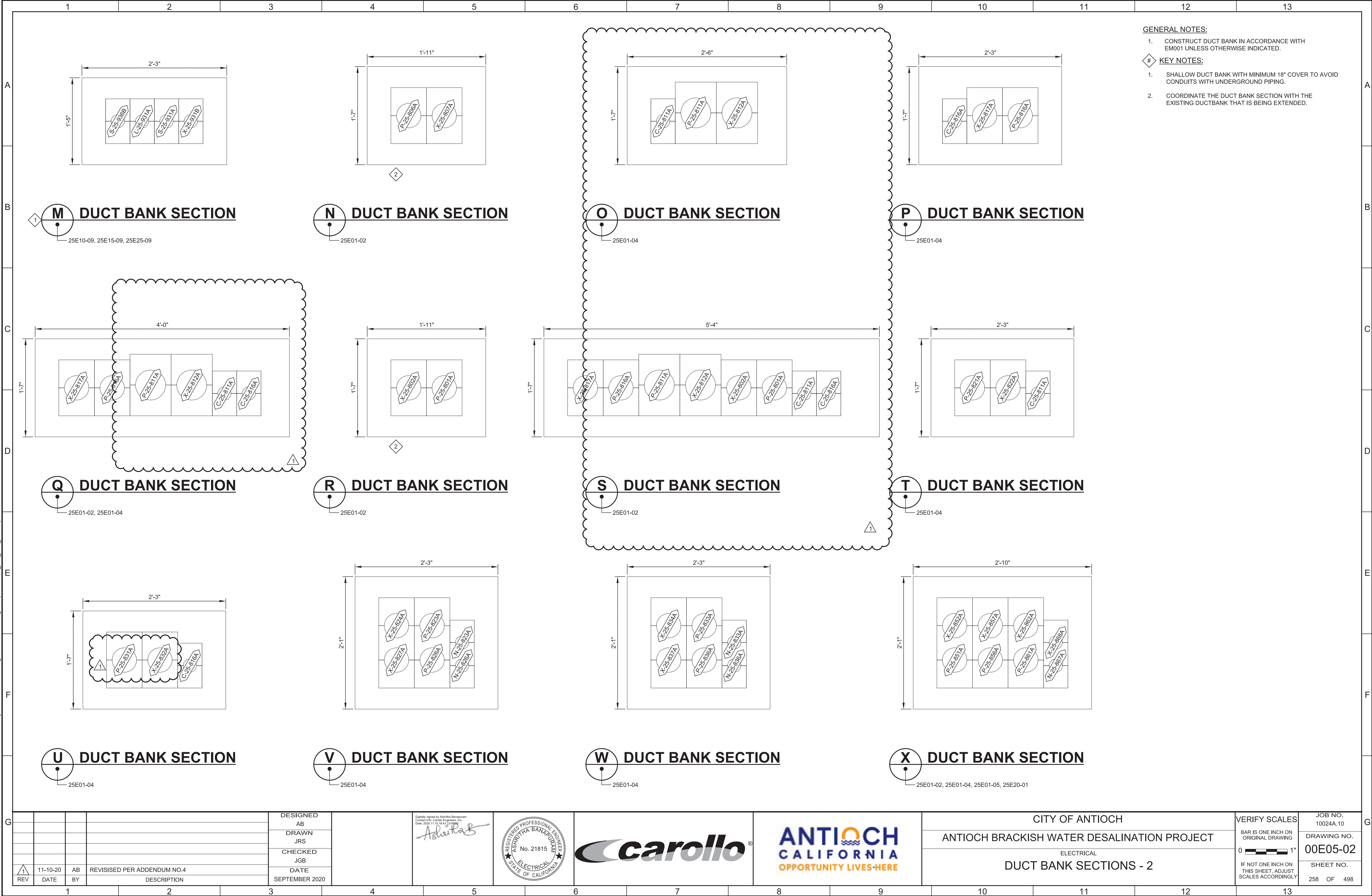
K DUCT BANK SECTION

25E10-09, 25E15-09, 25E25-09

DUCT BANK SECTION

25E10-09

				DESIGNED AB	<div>Digitally signed by Ashwita Banarajam Contact Info: Carollo Engineers, Inc. Date: 2020.11.10 16:41:36 -0800</div> <div></div> <div></div> <div></div> <div></div>	<div>CITY OF ANTIOCH</div> <div>ANTIOCH BRACKISH WATER DESALINATION PROJECT</div> <div>ELECTRICAL</div> <div>DUCT BANK SECTIONS - 1</div>	VERIFY SCALES	JOB NO. 10024A.10
			DRAWN JRS	BAR IS ONE INCH ON ORIGINAL DRAWING			DRAWING NO.	
			CHECKED JGB	0  1"			00E05-01	
<div>1</div> <div>REV</div>	11-10-20 DATE	AB BY	REVISED PER ADDENDUM NO.4 DESCRIPTION	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY			SHEET NO. 257 OF 496	



Plot Date: 08-NOV-2020 4:57:59 PM

User: svcPW

Model: Layout1

ColorTable: gshade.ctb

DesignScript: Carollo Std Pen_v0905.pen

PlotScale: 1:1

LAST SAVED BY: mpacheco

1	2	3	4	5	6	7	8	9	10	11	12	13																																																																																																																																																																																																																																					
<div><div>CONDUIT SCHEDULE AREA 21</div><div>BRACKISH WATER DESALINATION PROJECT</div><div>RIVER PUMP STATION</div><div>11/4/20</div><table><tr><th colspan="3">CONDUIT</th><th colspan="3">CONDUCTORS</th><th colspan="3">GROUND</th><th rowspan="2">DESCRIPTION</th><th rowspan="2">CONNECTING SEGMENTS</th></tr><tr><th>NUMBER</th><th>DWG</th><th>SIZE</th><th>#</th><th>SIZE</th><th>TYPE</th><th>#</th><th>SIZE</th><th>TYPE</th></tr><tr><td>C-21-102A</td><td>21E10-01</td><td>0.75"</td><td>10</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: G-21.0102 JUNCTION BOX TO: 10 #14 >> G-21.0102 CONTROL</td><td></td></tr><tr><td>C-21-103A</td><td>21E10-01</td><td>0.75"</td><td>10</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: G-21.0103 JUNCTION BOX TO: 10 #14 >> G-21.0103 CONTROL</td><td></td></tr><tr><td>C-21-103B</td><td>21E10-01</td><td>1.5"</td><td>20</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: JUNCTION BOX PCM-20.0000 TO: 10 #14 >> G-21.0102 CONTROL 10 #14 >> G-21.0103 CONTROL</td><td>C-21-102 C-21-103</td></tr><tr><td>C-21-107A</td><td>21E10-01</td><td>1"</td><td>15</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: LCP-79.3001 PCM-20.0000 TO: 15 #14 >> EF-79.3001 CONTROL</td><td></td></tr><tr><td>C-21-107B</td><td>21E10-01</td><td>0.75"</td><td>2</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: T2-79.3001 LCP-79.3001 TO: 2 #14 >> THERMOSTAT CONTROL</td><td></td></tr><tr><td>C-21-108A</td><td>21E10-01</td><td>1"</td><td>15</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: AHU-79.3001 CONDUIT TEE TO: 15 #14 >> AHU-79.3001 CONTROL</td><td>C-21-109B</td></tr><tr><td>C-21-108B</td><td>21E10-01</td><td>0.75"</td><td>4</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: T1-79.3001 AHU-79.3001 TO: 2 #14 >> THERMOSTAT CONTROL 2 #14 >> XS-79.3001 CONTROL</td><td>C-21-108D C-21-108C</td></tr><tr><td>C-21-108C</td><td>21E10-01</td><td>0.75"</td><td>2</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: XS-79.3001 CONDUIT TEE TO: 2 #14 >> XS-79.3001 CONTROL</td><td>C-21-108B</td></tr><tr><td>C-21-108D</td><td>21E10-01</td><td>0.75"</td><td>2</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: T1-79.3001 CONDUIT TEE TO: 2 #14 >> THERMOSTAT CONTROL</td><td>C-21-108B</td></tr><tr><td>C-21-108E</td><td>21E10-01</td><td>0.75"</td><td>2</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: PDSH-79.3001 AHU-79.3001 TO: 2 #14 >> PDSH-79.3001 CONTROL</td><td></td></tr><tr><td>C-21-109A</td><td>21E10-01</td><td>1"</td><td>15</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: AHU-79.3002 CONDUIT TEE TO: 15 #14 >> AHU-79.3002 CONTROL</td><td>C-21-109B</td></tr><tr><td>C-21-109B</td><td>21E10-01</td><td>1.5"</td><td>30</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONDUIT TEE PCM-20.0000 TO: 15 #14 >> AHU-79.3001 CONTROL 15 #14 >> AHU-79.3002 CONTROL</td><td>C-21-108A C-21-109A</td></tr><tr><td>C-21-109C</td><td>21E10-01</td><td>0.75"</td><td>4</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: T-79.3002 AHU-79.3002 TO: 2 #14 >> THERMOSTAT CONTROL 2 #14 >> XS-79.3002 CONTROL</td><td>C-21-109E C-21-109D</td></tr><tr><td>C-21-109D</td><td>21E10-01</td><td>0.75"</td><td>2</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: XS-79.3002 CONDUIT TEE TO: 2 #14 >> XS-79.3002 CONTROL</td><td>C-21-109C</td></tr><tr><td>C-21-109E</td><td>21E10-01</td><td>0.75"</td><td>2</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: T-79.3002 CONDUIT TEE TO: 2 #14 >> THERMOSTAT CONTROL</td><td>C-21-109C</td></tr><tr><td>C-21-109F</td><td>21E10-01</td><td>0.75"</td><td>2</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: PDSH-79.3002 AHU-79.3002 TO: 2 #14 >> PDSH-79.3002 CONTROL</td><td></td></tr><tr><td>C-21-121A</td><td>21E10-01</td><td>0.75"</td><td>2</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: XS1-79.2001 CONDUIT TEE TO: 2 #14 >> XS1-79.2001 CONTROL</td><td></td></tr><tr><td>C-21-121B</td><td>21E10-01</td><td>0.75"</td><td>4</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: XS1-79.2002 CONDUIT TEE TO: 2 #14 >> XS1-79.2002 CONTROL 2 #14 >> XS1-79.2001 CONTROL</td><td></td></tr><tr><td>C-21-121C</td><td>21E10-01</td><td>0.75"</td><td>2</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONDUIT TEE TO: 2 #14 >> XS1-79.2002 CONTROL</td><td></td></tr></table></div>													CONDUIT			CONDUCTORS			GROUND			DESCRIPTION	CONNECTING SEGMENTS	NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	C-21-102A	21E10-01	0.75"	10	#14	XHHW-2	1	#14	XHHW-2	FR: G-21.0102 JUNCTION BOX TO: 10 #14 >> G-21.0102 CONTROL		C-21-103A	21E10-01	0.75"	10	#14	XHHW-2	1	#14	XHHW-2	FR: G-21.0103 JUNCTION BOX TO: 10 #14 >> G-21.0103 CONTROL		C-21-103B	21E10-01	1.5"	20	#14	XHHW-2	1	#14	XHHW-2	FR: JUNCTION BOX PCM-20.0000 TO: 10 #14 >> G-21.0102 CONTROL 10 #14 >> G-21.0103 CONTROL	C-21-102 C-21-103	C-21-107A	21E10-01	1"	15	#14	XHHW-2	1	#14	XHHW-2	FR: LCP-79.3001 PCM-20.0000 TO: 15 #14 >> EF-79.3001 CONTROL		C-21-107B	21E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: T2-79.3001 LCP-79.3001 TO: 2 #14 >> THERMOSTAT CONTROL		C-21-108A	21E10-01	1"	15	#14	XHHW-2	1	#14	XHHW-2	FR: AHU-79.3001 CONDUIT TEE TO: 15 #14 >> AHU-79.3001 CONTROL	C-21-109B	C-21-108B	21E10-01	0.75"	4	#14	XHHW-2	1	#14	XHHW-2	FR: T1-79.3001 AHU-79.3001 TO: 2 #14 >> THERMOSTAT CONTROL 2 #14 >> XS-79.3001 CONTROL	C-21-108D C-21-108C	C-21-108C	21E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: XS-79.3001 CONDUIT TEE TO: 2 #14 >> XS-79.3001 CONTROL	C-21-108B	C-21-108D	21E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: T1-79.3001 CONDUIT TEE TO: 2 #14 >> THERMOSTAT CONTROL	C-21-108B	C-21-108E	21E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: PDSH-79.3001 AHU-79.3001 TO: 2 #14 >> PDSH-79.3001 CONTROL		C-21-109A	21E10-01	1"	15	#14	XHHW-2	1	#14	XHHW-2	FR: AHU-79.3002 CONDUIT TEE TO: 15 #14 >> AHU-79.3002 CONTROL	C-21-109B	C-21-109B	21E10-01	1.5"	30	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE PCM-20.0000 TO: 15 #14 >> AHU-79.3001 CONTROL 15 #14 >> AHU-79.3002 CONTROL	C-21-108A C-21-109A	C-21-109C	21E10-01	0.75"	4	#14	XHHW-2	1	#14	XHHW-2	FR: T-79.3002 AHU-79.3002 TO: 2 #14 >> THERMOSTAT CONTROL 2 #14 >> XS-79.3002 CONTROL	C-21-109E C-21-109D	C-21-109D	21E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: XS-79.3002 CONDUIT TEE TO: 2 #14 >> XS-79.3002 CONTROL	C-21-109C	C-21-109E	21E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: T-79.3002 CONDUIT TEE TO: 2 #14 >> THERMOSTAT CONTROL	C-21-109C	C-21-109F	21E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: PDSH-79.3002 AHU-79.3002 TO: 2 #14 >> PDSH-79.3002 CONTROL		C-21-121A	21E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: XS1-79.2001 CONDUIT TEE TO: 2 #14 >> XS1-79.2001 CONTROL		C-21-121B	21E10-01	0.75"	4	#14	XHHW-2	1	#14	XHHW-2	FR: XS1-79.2002 CONDUIT TEE TO: 2 #14 >> XS1-79.2002 CONTROL 2 #14 >> XS1-79.2001 CONTROL		C-21-121C	21E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: 2 #14 >> XS1-79.2002 CONTROL	
CONDUIT			CONDUCTORS			GROUND			DESCRIPTION	CONNECTING SEGMENTS																																																																																																																																																																																																																																							
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE																																																																																																																																																																																																																																									
C-21-102A	21E10-01	0.75"	10	#14	XHHW-2	1	#14	XHHW-2	FR: G-21.0102 JUNCTION BOX TO: 10 #14 >> G-21.0102 CONTROL																																																																																																																																																																																																																																								
C-21-103A	21E10-01	0.75"	10	#14	XHHW-2	1	#14	XHHW-2	FR: G-21.0103 JUNCTION BOX TO: 10 #14 >> G-21.0103 CONTROL																																																																																																																																																																																																																																								
C-21-103B	21E10-01	1.5"	20	#14	XHHW-2	1	#14	XHHW-2	FR: JUNCTION BOX PCM-20.0000 TO: 10 #14 >> G-21.0102 CONTROL 10 #14 >> G-21.0103 CONTROL	C-21-102 C-21-103																																																																																																																																																																																																																																							
C-21-107A	21E10-01	1"	15	#14	XHHW-2	1	#14	XHHW-2	FR: LCP-79.3001 PCM-20.0000 TO: 15 #14 >> EF-79.3001 CONTROL																																																																																																																																																																																																																																								
C-21-107B	21E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: T2-79.3001 LCP-79.3001 TO: 2 #14 >> THERMOSTAT CONTROL																																																																																																																																																																																																																																								
C-21-108A	21E10-01	1"	15	#14	XHHW-2	1	#14	XHHW-2	FR: AHU-79.3001 CONDUIT TEE TO: 15 #14 >> AHU-79.3001 CONTROL	C-21-109B																																																																																																																																																																																																																																							
C-21-108B	21E10-01	0.75"	4	#14	XHHW-2	1	#14	XHHW-2	FR: T1-79.3001 AHU-79.3001 TO: 2 #14 >> THERMOSTAT CONTROL 2 #14 >> XS-79.3001 CONTROL	C-21-108D C-21-108C																																																																																																																																																																																																																																							
C-21-108C	21E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: XS-79.3001 CONDUIT TEE TO: 2 #14 >> XS-79.3001 CONTROL	C-21-108B																																																																																																																																																																																																																																							
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C-21-108E	21E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: PDSH-79.3001 AHU-79.3001 TO: 2 #14 >> PDSH-79.3001 CONTROL																																																																																																																																																																																																																																								
C-21-109A	21E10-01	1"	15	#14	XHHW-2	1	#14	XHHW-2	FR: AHU-79.3002 CONDUIT TEE TO: 15 #14 >> AHU-79.3002 CONTROL	C-21-109B																																																																																																																																																																																																																																							
C-21-109B	21E10-01	1.5"	30	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE PCM-20.0000 TO: 15 #14 >> AHU-79.3001 CONTROL 15 #14 >> AHU-79.3002 CONTROL	C-21-108A C-21-109A																																																																																																																																																																																																																																							
C-21-109C	21E10-01	0.75"	4	#14	XHHW-2	1	#14	XHHW-2	FR: T-79.3002 AHU-79.3002 TO: 2 #14 >> THERMOSTAT CONTROL 2 #14 >> XS-79.3002 CONTROL	C-21-109E C-21-109D																																																																																																																																																																																																																																							
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C-21-109F	21E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: PDSH-79.3002 AHU-79.3002 TO: 2 #14 >> PDSH-79.3002 CONTROL																																																																																																																																																																																																																																								
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<div><div>CONDUIT SCHEDULE AREA 21</div><div>BRACKISH WATER DESALINATION PROJECT</div><div>RIVER PUMP STATION</div><div>11/4/20</div><table><tr><th colspan="3">CONDUIT</th><th colspan="3">CONDUCTORS</th><th colspan="3">GROUND</th><th rowspan="2">DESCRIPTION</th><th rowspan="2">CONNECTING SEGMENTS</th></tr><tr><th>NUMBER</th><th>DWG</th><th>SIZE</th><th>#</th><th>SIZE</th><th>TYPE</th><th>#</th><th>SIZE</th><th>TYPE</th></tr><tr><td>C-21-122A</td><td>21E10-01</td><td>0.75"</td><td>4</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: XS2-79.2002 CONDUIT TEE TO: 2 #14 >> XS2-79.2002 CONTROL 2 #14 >> XS1-79.2002 CONTROL</td><td></td></tr><tr><td>C-21-122B</td><td>21E10-01</td><td>0.75"</td><td>2</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONDUIT TEE TO: 2 #14 >> XS2-79.2002 CONTROL</td><td></td></tr><tr><td>C-21-122C</td><td>21E10-01</td><td>0.75"</td><td>4</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: 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CONTROL 2 #12 >> FSL-21.0301 POWER</td><td>C-21-301E C-21-301E C-21-301F C-21-301F</td></tr><tr><td>C-21-301B</td><td>21E10-01</td><td>1"</td><td>15</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: LCP-21.0301 VFD-21.0301 TO: 15 #14 >> LCP-21.0301 CONTROL</td><td></td></tr><tr><td>C-21-301E</td><td>21E10-01</td><td>0.75"</td><td>2 2</td><td>#12 #14</td><td>XHHW-2 XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: PMP-21.0301 CONDUIT TEE TO: 2 #12 >> MWH-21.0301 POWER 2 #14 >> XVS-21.0301 CONTROL</td><td>C-21-301A</td></tr><tr><td>C-21-301F</td><td>21E10-01</td><td>0.75"</td><td>2 2</td><td>#12 #14</td><td>XHHW-2 XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: FSL-21.0301 CONDUIT TEE TO: 2 #14 >> FSL-21.0301 CONTROL 2 #12 >> FSL-21.0301 POWER</td><td>C-21-301A</td></tr><tr><td>C-21-302A</td><td>21E10-01</td><td>2"</td><td>4 4</td><td>#12 #14</td><td>XHHW-2 XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: CONDUIT TEE VFD-21.0302 TO: 2 #12 >> MWH-21.0302 POWER 2 #14 >> XVS-21.0302 CONTROL 2 #14 >> FSL-21.0302 CONTROL 2 #12 >> FSL-21.0302 POWER</td><td>C-21-302E C-21-302E C-21-302F C-21-302F</td></tr><tr><td>C-21-302B</td><td>21E10-01</td><td>1"</td><td>15</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: LCP-21.0302 VFD-21.0302 TO: 15 #14 >> LCP-21.0302 CONTROL</td><td></td></tr><tr><td>C-21-302E</td><td>21E10-01</td><td>0.75"</td><td>2 2</td><td>#12 #14</td><td>XHHW-2 XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: PMP-21.0302 CONDUIT TEE TO: 2 #12 >> MWH-21.0302 POWER 2 #14 >> XVS-21.0302 CONTROL</td><td>C-21-302A</td></tr><tr><td>C-21-302F</td><td>21E10-01</td><td>0.75"</td><td>2 2</td><td>#12 #14</td><td>XHHW-2 XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: FSL-21.0302 CONDUIT TEE TO: 2 #14 >> FSL-21.0302 CONTROL 2 #12 >> FSL-21.0302 POWER</td><td>C-21-302A</td></tr><tr><td>C-21-303A</td><td>21E10-01</td><td>2"</td><td>4 4</td><td>#12 #14</td><td>XHHW-2 XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: CONDUIT TEE VFD-21.0303 TO: 2 #14 >> FSL-21.0303 CONTROL 2 #12 >> FSL-21.0303 POWER 2 #14 >> XVS-21.0303 CONTROL 2 #12 >> MWH-21.0303 POWER</td><td>C-21-303F C-21-303F C-21-303E C-21-303E</td></tr><tr><td>C-21-303B</td><td>21E10-01</td><td>1"</td><td>15</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: LCP-21.0303 VFD-21.0303 TO: 15 #14 >> LCP-21.0303 CONTROL</td><td></td></tr></table></div>													CONDUIT			CONDUCTORS			GROUND			DESCRIPTION	CONNECTING SEGMENTS	NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	C-21-122A	21E10-01	0.75"	4	#14	XHHW-2	1	#14	XHHW-2	FR: XS2-79.2002 CONDUIT TEE TO: 2 #14 >> XS2-79.2002 CONTROL 2 #14 >> XS1-79.2002 CONTROL		C-21-122B	21E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: 2 #14 >> XS2-79.2002 CONTROL		C-21-122C	21E10-01	0.75"	4	#14	XHHW-2	1	#14	XHHW-2	FR: XS2-79.2001 CONDUIT TEE TO: 2 #14 >> XS2-79.2001 CONTROL 2 #14 >> XS2-79.2002 CONTROL		C-21-122D	21E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: 2 #14 >> XS2-79.2001 CONTROL		C-21-123A	21E10-01	0.75"	4	#14	XHHW-2	1	#14	XHHW-2	FR: XS3-79.2001 CONDUIT TEE TO: 2 #14 >> XS3-79.2001 CONTROL 2 #14 >> XS2-79.2001 CONTROL		C-21-123B	21E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE PCM-20.0000 TO: 2 #14 >> XS3-79.2001 CONTROL		C-21-301A	21E10-01	2"	4 4	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE VFD-21.0301 TO: 2 #12 >> MWH-21.0301 POWER 2 #14 >> XVS-21.0301 CONTROL 2 #14 >> FSL-21.0301 CONTROL 2 #12 >> FSL-21.0301 POWER	C-21-301E C-21-301E C-21-301F C-21-301F	C-21-301B	21E10-01	1"	15	#14	XHHW-2	1	#14	XHHW-2	FR: LCP-21.0301 VFD-21.0301 TO: 15 #14 >> LCP-21.0301 CONTROL		C-21-301E	21E10-01	0.75"	2 2	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: PMP-21.0301 CONDUIT TEE TO: 2 #12 >> MWH-21.0301 POWER 2 #14 >> XVS-21.0301 CONTROL	C-21-301A	C-21-301F	21E10-01	0.75"	2 2	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: FSL-21.0301 CONDUIT TEE TO: 2 #14 >> FSL-21.0301 CONTROL 2 #12 >> FSL-21.0301 POWER	C-21-301A	C-21-302A	21E10-01	2"	4 4	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE VFD-21.0302 TO: 2 #12 >> MWH-21.0302 POWER 2 #14 >> XVS-21.0302 CONTROL 2 #14 >> FSL-21.0302 CONTROL 2 #12 >> FSL-21.0302 POWER	C-21-302E C-21-302E C-21-302F C-21-302F	C-21-302B	21E10-01	1"	15	#14	XHHW-2	1	#14	XHHW-2	FR: LCP-21.0302 VFD-21.0302 TO: 15 #14 >> LCP-21.0302 CONTROL		C-21-302E	21E10-01	0.75"	2 2	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: PMP-21.0302 CONDUIT TEE TO: 2 #12 >> MWH-21.0302 POWER 2 #14 >> XVS-21.0302 CONTROL	C-21-302A	C-21-302F	21E10-01	0.75"	2 2	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: FSL-21.0302 CONDUIT TEE TO: 2 #14 >> FSL-21.0302 CONTROL 2 #12 >> FSL-21.0302 POWER	C-21-302A	C-21-303A	21E10-01	2"	4 4	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE VFD-21.0303 TO: 2 #14 >> FSL-21.0303 CONTROL 2 #12 >> FSL-21.0303 POWER 2 #14 >> XVS-21.0303 CONTROL 2 #12 >> MWH-21.0303 POWER	C-21-303F C-21-303F C-21-303E C-21-303E	C-21-303B	21E10-01	1"	15	#14	XHHW-2	1	#14	XHHW-2	FR: LCP-21.0303 VFD-21.0303 TO: 15 #14 >> LCP-21.0303 CONTROL																																		
CONDUIT			CONDUCTORS			GROUND			DESCRIPTION	CONNECTING SEGMENTS																																																																																																																																																																																																																																							
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C-21-122A	21E10-01	0.75"	4	#14	XHHW-2	1	#14	XHHW-2	FR: XS2-79.2002 CONDUIT TEE TO: 2 #14 >> XS2-79.2002 CONTROL 2 #14 >> XS1-79.2002 CONTROL																																																																																																																																																																																																																																								
C-21-122B	21E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: 2 #14 >> XS2-79.2002 CONTROL																																																																																																																																																																																																																																								
C-21-122C	21E10-01	0.75"	4	#14	XHHW-2	1	#14	XHHW-2	FR: XS2-79.2001 CONDUIT TEE TO: 2 #14 >> XS2-79.2001 CONTROL 2 #14 >> XS2-79.2002 CONTROL																																																																																																																																																																																																																																								
C-21-122D	21E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: 2 #14 >> XS2-79.2001 CONTROL																																																																																																																																																																																																																																								
C-21-123A	21E10-01	0.75"	4	#14	XHHW-2	1	#14	XHHW-2	FR: XS3-79.2001 CONDUIT TEE TO: 2 #14 >> XS3-79.2001 CONTROL 2 #14 >> XS2-79.2001 CONTROL																																																																																																																																																																																																																																								
C-21-123B	21E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE PCM-20.0000 TO: 2 #14 >> XS3-79.2001 CONTROL																																																																																																																																																																																																																																								
C-21-301A	21E10-01	2"	4 4	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE VFD-21.0301 TO: 2 #12 >> MWH-21.0301 POWER 2 #14 >> XVS-21.0301 CONTROL 2 #14 >> FSL-21.0301 CONTROL 2 #12 >> FSL-21.0301 POWER	C-21-301E C-21-301E C-21-301F C-21-301F																																																																																																																																																																																																																																							
C-21-301B	21E10-01	1"	15	#14	XHHW-2	1	#14	XHHW-2	FR: LCP-21.0301 VFD-21.0301 TO: 15 #14 >> LCP-21.0301 CONTROL																																																																																																																																																																																																																																								
C-21-301E	21E10-01	0.75"	2 2	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: PMP-21.0301 CONDUIT TEE TO: 2 #12 >> MWH-21.0301 POWER 2 #14 >> XVS-21.0301 CONTROL	C-21-301A																																																																																																																																																																																																																																							
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C-21-302A	21E10-01	2"	4 4	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE VFD-21.0302 TO: 2 #12 >> MWH-21.0302 POWER 2 #14 >> XVS-21.0302 CONTROL 2 #14 >> FSL-21.0302 CONTROL 2 #12 >> FSL-21.0302 POWER	C-21-302E C-21-302E C-21-302F C-21-302F																																																																																																																																																																																																																																							
C-21-302B	21E10-01	1"	15	#14	XHHW-2	1	#14	XHHW-2	FR: LCP-21.0302 VFD-21.0302 TO: 15 #14 >> LCP-21.0302 CONTROL																																																																																																																																																																																																																																								
C-21-302E	21E10-01	0.75"	2 2	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: PMP-21.0302 CONDUIT TEE TO: 2 #12 >> MWH-21.0302 POWER 2 #14 >> XVS-21.0302 CONTROL	C-21-302A																																																																																																																																																																																																																																							
C-21-302F	21E10-01	0.75"	2 2	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: FSL-21.0302 CONDUIT TEE TO: 2 #14 >> FSL-21.0302 CONTROL 2 #12 >> FSL-21.0302 POWER	C-21-302A																																																																																																																																																																																																																																							
C-21-303A	21E10-01	2"	4 4	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE VFD-21.0303 TO: 2 #14 >> FSL-21.0303 CONTROL 2 #12 >> FSL-21.0303 POWER 2 #14 >> XVS-21.0303 CONTROL 2 #12 >> MWH-21.0303 POWER	C-21-303F C-21-303F C-21-303E C-21-303E																																																																																																																																																																																																																																							
C-21-303B	21E10-01	1"	15	#14	XHHW-2	1	#14	XHHW-2	FR: LCP-21.0303 VFD-21.0303 TO: 15 #14 >> LCP-21.0303 CONTROL																																																																																																																																																																																																																																								
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7			8			9			10			11			12			13		
CONDUIT SCHEDULE AREA 21															11/4/20					
BRACKISH WATER DESALINATION PROJECT																				
RIVER PUMP STATION																				
CONDUIT			CONDUCTORS			GROUND														
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION									CONNECTING SEGMENTS		
C-21-122A	21E10-01	0.75"	4	#14	XHHW-2	1	#14	XHHW-2	FR: XS2-79.2002 TO: CONDUIT TEE	2 #14 >> XS2-79.2002 CONTROL										
									2 #14	>> XS1-79.2002 CONTROL										
C-21-122B	21E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE	2 #14 >> XS2-79.2002 CONTROL										
C-21-122C	21E10-01	0.75"	4	#14	XHHW-2	1	#14	XHHW-2	FR: XS2-79.2001 TO: CONDUIT TEE	2 #14 >> XS2-79.2001 CONTROL										
									2 #14	>> XS2-79.2002 CONTROL										
C-21-122D	21E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE	2 #14 >> XS2-79.2001 CONTROL										
C-21-123A	21E10-01	0.75"	4	#14	XHHW-2	1	#14	XHHW-2	FR: XS3-79.2001 TO: CONDUIT TEE	2 #14 >> XS3-79.2001 CONTROL										
									2 #14	>> XS2-79.2001 CONTROL										
C-21-123B	21E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: PCM-20.0000	2 #14 >> XS3-79.2001 CONTROL										
C-21-301A	21E10-01	2"	4 4	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE TO: VFD-21.0301	2 #12 >> MWH-21.0301 POWER								C-21-301E		
									2 #14	>> XVS-21.0301 CONTROL								C-21-301E		
									2 #14	>> FSL-21.0301 CONTROL								C-21-301F		
									2 #12	>> FSL-21.0301 POWER								C-21-301F		
C-21-301B	21E10-01	1"	15	#14	XHHW-2	1	#14	XHHW-2	FR: LCP-21.0301 TO: VFD-21.0301	15 #14 >> LCP-21.0301 CONTROL										
C-21-301E	21E10-01	0.75"	2 2	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: PMP-21.0301 TO: CONDUIT TEE	2 #12 >> MWH-21.0301 POWER								C-21-301A		
									2 #14	>> XVS-21.0301 CONTROL										
C-21-301F	21E10-01	0.75"	2 2	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: FSL-21.0301 TO: CONDUIT TEE	2 #14 >> FSL-21.0301 CONTROL								C-21-301A		
									2 #12	>> FSL-21.0301 POWER										
C-21-302A	21E10-01	2"	4 4	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE TO: VFD-21.0302	2 #12 >> MWH-21.0302 POWER								C-21-302E		
									2 #14	>> XVS-21.0302 CONTROL								C-21-302E		
									2 #14	>> FSL-21.0302 CONTROL								C-21-302F		
									2 #12	>> FSL-21.0302 POWER								C-21-302F		
C-21-302B	21E10-01	1"	15	#14	XHHW-2	1	#14	XHHW-2	FR: LCP-21.0302 TO: VFD-21.0302	15 #14 >> LCP-21.0302 CONTROL										
C-21-302E	21E10-01	0.75"	2 2	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: PMP-21.0302 TO: CONDUIT TEE	2 #12 >> MWH-21.0302 POWER								C-21-302A		
									2 #14	>> XVS-21.0302 CONTROL										
C-21-302F	21E10-01	0.75"	2 2	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: FSL-21.0302 TO: CONDUIT TEE	2 #14 >> FSL-21.0302 CONTROL								C-21-302A		
									2 #12	>> FSL-21.0302 POWER										
C-21-303A	21E10-01	2"	4 4	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE TO: VFD-21.0303	2 #14 >> FSL-21.0303 CONTROL								C-21-303F		
									2 #12	>> FSL-21.0303 POWER								C-21-303F		
									2 #14	>> XVS-21.0303 CONTROL								C-21-303E		
									2 #12	>> MWH-21.0303 POWER								C-21-303E		
C-21-303B	21E10-01	1"	15	#14	XHHW-2	1	#14	XHHW-2	FR: LCP-21.0303 TO: VFD-21.0303	15 #14 >> LCP-21.0303 CONTROL										

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Plot Date: 05-NOV-2020 4:58:48 PM

User: svcPW

Model: Layout1

ColorTable: gshade.ctb DesignScript: Carollo Std Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: mpacheco

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CONDUIT SCHEDULE AREA 21				11/4/20						
BRACKISH WATER DESALINATION PROJECT										
RIVER PUMP STATION										
CONDUIT			CONDUCTORS		GROUND					
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION	CONNECTING SEGMENTS
P-21-302A	21E10-01	3"	3	#1/0:5KV	5KV-EPR	1	#6:5KV	XHHW-2	FR: VFD-21.0302 TO: SWGR-100 3 #1/0:5KV >> VFD-21.0302 POWER	
P-21-302B	21E10-01	2.5"	3	#2:5KV	5KV-EPR	1	#6:5KV	XHHW-2	FR: PMP-21.0302 TO: VFD-21.0302 3 #2:5KV >> PMP-21.0302 POWER	
P-21-303A	21E10-01	3"	3	#1/0:5KV	5KV-EPR	1	#6:5KV	XHHW-2	FR: VFD-21.0303 TO: SWGR-100 3 #1/0:5KV >> VFD-21.0303 POWER	
P-21-303B	21E10-01	2.5"	3	#2:5KV	5KV-EPR	1	#6:5KV	XHHW-2	FR: PMP-21.0303 TO: VFD-21.0303 3 #2:5KV >> PMP-21.0303 POWER	
P-21-501A	21E01-01 21E10-01	2"	3	#2/0	XHHW-2	1	#3	XHHW-2	FR: MPC-RPS TO: DP-100 3 #2/0 >> MPC-RPS POWER	
P-21-701A	21E10-01 21E10-02	2"	2	#12	XHHW-2	1	#12	XHHW-2	FR: VCP-21.0701 TO: DP-100 2 #12 >> VCP-21.0701 POWER	
P-21-703A	21E10-01	2"	3	#4	XHHW-2	1	#6	XHHW-2	FR: ARC-21.0201 TO: VCP-21.0701 3 #4 >> ARC-21.0201 POWER	
P-21-705A	21E10-01	0.75"	3	#8	XHHW-2	1	#10	XHHW-2	FR: VCP-76.0101 TO: DP-100 3 #8 >> VCP-76.0101 POWER	
P-21-705C	21E10-01	1.5"	1	MFR	CABLE	1	#14	XHHW-2	FR: ARC-76.0101 TO: VCP-76.0101 1 MFR >> ARC-76.0101 POWER	
P-21-801	21E01-01 21E10-01	4"	3	250:5KV	5KV-EPR	1	#2:5KV	XHHW-2	FR: SWGR-100 TO: XFMR-RPS 3 250:5KV >> SWGR-100 POWER	
P-21-803	21E10-01 21E10-02	4"	3	#1/0:5KV	5KV-EPR	1	#6:5KV	XHHW-2	FR: ENG-75.0301 TO: SWGR-100 3 #1/0:5KV >> STANDBY POWER	
P-21-821	21E01-01	4"	3	#1:25KV	25KV-EPR	1	#1:25KV	XHHW-2	FR: SWGR-RPS TO: XFMR-RPS 3 #1:25KV >> XFMR-RPS POWER	
P-21-831	21E01-01	4"							FR: SWGR-RPS TO: UTILITY POLE CABLE BY UTILITY	
P-21-901A	21E10-01	2.5"	3	#4:5KV	5KV-EPR	1	#6:5KV	XHHW-2	FR: XFMR-100 TO: SWGR-100 3 #4:5KV >> XFMR-100 POWER	
P-21-902A	21E10-01	2"	3	#4/0	XHHW-2	1	#2	XHHW-2	FR: DP-100 TO: XFMR-100 3 #4/0 >> DP-100 POWER	
P-21-902B	21E10-01	2"	3	#4/0	XHHW-2	1	#2	XHHW-2	FR: DP-100 TO: XFMR-100 3 #4/0 >> DP-100 POWER	
P-21-906	21E10-01	1.5"	3	#3	XHHW-2	1	#8	XHHW-2	FR: LP-100 TO: DP-100 3 #3 >> LP-100 POWER	
S-21-301A	21E10-01	2"	8	3/CS-#16		1	#14	XHHW-2	FR: PMP-21.0301 TO: VFD-21.0301 8 3/CS-#16 >> TSH-21.0301 CONTROL	S-21-302E
S-21-301B	21E10-01	0.75"	1	3/CS-#16		1	#14	XHHW-2	FR: LCP-21.0301 TO: VFD-21.0301 1 3/CS-#16 >> LCP-21.0301 SIGNAL	
S-21-301F	21E10-01	1"	1	2/CS-#16		1	#14	XHHW-2	FR: PIT-21.0301 TO: CONDUIT TEE 1 2/CS-#16 >> PIT-21.0301 SIGNAL	
S-21-302A	21E10-01	2"	8	3/CS-#16		1	#14	XHHW-2	FR: PMP-21.0302 TO: VFD-21.0302 8 3/CS-#16 >> TSH-21.0302 CONTROL	S-21-302E

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CONDUIT SCHEDULE AREA 21										11/4/20
BRACKISH WATER DESALINATION PROJECT										
RIVER PUMP STATION										
CONDUIT			CONDUCTORS			GROUND				
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION	CONNECTING SEGMENTS
S-21-302B	21E10-01	0.75"	1	3/CS-#16		1	#14	XHHW-2	FR: LCP-21.0302 TO: VFD-21.0302 1 3/CS-#16 >> LCP-21.0302 SIGNAL	
S-21-302E	21E10-01	0.75"	2	2/CS-#16		1	#14	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 1 2/CS-#16 >> PIT-21.0301 SIGNAL 1 2/CS-#16 >> PIT-21.0302 SIGNAL	S-21-303E S-21-301A S-21-302A
S-21-302F	21E10-01	1"	1	2/CS-#16		1	#14	XHHW-2	FR: PIT-21.0302 TO: CONDUIT TEE 1 2/CS-#16 >> PIT-21.0302 SIGNAL	
S-21-303A	21E10-01	2"	8	3/CS-#16		1	#14	XHHW-2	FR: PMP-21.0303 TO: CONDUIT TEE 8 3/CS-#16 >> TSH-21.0303 CONTROL	S-21-303E
S-21-303B	21E10-01	0.75"	1	3/CS-#16		1	#14	XHHW-2	FR: LCP-21.0303 TO: VFD-21.0303 1 3/CS-#16 >> LCP-21.0303 SIGNAL	
S-21-303E	21E10-01	1"	3	2/CS-#16		1	#14	XHHW-2	FR: CONDUIT TEE TO: PCM-20.0000 1 2/CS-#16 >> PIT-21.0301 SIGNAL 1 2/CS-#16 >> PIT-21.0302 SIGNAL 1 2/CS-#16 >> PIT-21.0303 SIGNAL	S-21-302E S-21-302E S-21-303A
S-21-303F	21E10-01	1"	1	2/CS-#16		1	#14	XHHW-2	FR: PIT-21.0303 TO: CONDUIT TEE 1 2/CS-#16 >> PIT-21.0303 SIGNAL	
S-21-304A	21E10-01	0.75"	2 1	#12 2/CS-#16	XHHW-2	1	#12	XHHW-2	FR: FIT-21.0304 TO: CONDUIT TEE 1 2/CS-#16 >> FIT-21.0304 SIGNAL 2 #12 >> FIT-21.0304 POWER	S-21-306C
S-21-304B	21E01-01 21E10-01	2"	1	MFR	CABLE	1	#14	XHHW-2	FR: FE-21.0304 TO: FIT-21.0304 1 MFR >> FE-21.0304 SIGNAL	
S-21-306A	21E10-01	0.75"	2 1	#12 2/CS-#16	XHHW-2	1	#12	XHHW-2	FR: LIT-21.0301 TO: CONDUIT TEE 1 2/CS-#16 >> LIT-21.0301 SIGNAL 2 #12 >> LIT-21.0301 POWER	S-21-306C
S-21-306B	21E10-01	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: LE-21.0301 TO: LIT-21.0301 1 MFR >> LE-21.0301 SIGNAL	
S-21-306C	21E10-01	1"	4 2	#12 2/CS-#16	XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE TO: PCM-20.0000 1 2/CS-#16 >> FIT-21.0304 SIGNAL 2 #12 >> FIT-21.0304 POWER 1 2/CS-#16 >> LIT-21.0301 SIGNAL 2 #12 >> LIT-21.0301 POWER	S-21-304A S-21-304A S-21-306A S-21-306A
S-21-501A	21E01-01 21E10-01	2"	1	2/CS-#16		1	#14	XHHW-2	FR: LIT-21.0302 TO: PCM-20.0000 1 2/CS-#16 >> LIT-21.0302 SIGNAL	
S-21-701A	21E10-02	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: LIT-21.0701 TO: VCP-21.0701 1 2/CS-#16 >> LIT-21.0701 SIGNAL	
S-21-701B	21E10-02	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: PIT-21.0701 TO: VCP-21.0701 1 2/CS-#16 >> PIT-21.0701 SIGNAL	
S-21-801A	21E01-01	2"	1	MFR	CABLE	1	#14	XHHW-2	FR: SWGR-RPS TO: SWGR-100 1 MFR >> TRANSFORMER DIFFERENTIAL	
S-21-907A	21E10-01	2"	1	MFR	CABLE	1	#14	XHHW-2	FR: RADIO ANTENNA TO: PCM-20.0000 1 MFR >> ANTENNA SIGNAL	
X-21-802	21E10-01 21E01-01	4"	1	PULL	ROPE				FR: SWGR-100 TO: XFMR-RPS 1 PULL >> SPARE	
X-21-804	21E10-01 21E10-02	4"	1	PULL	ROPE				FR: ENG-75.0301 TO: SWGR-100 1 PULL >> SPARE	

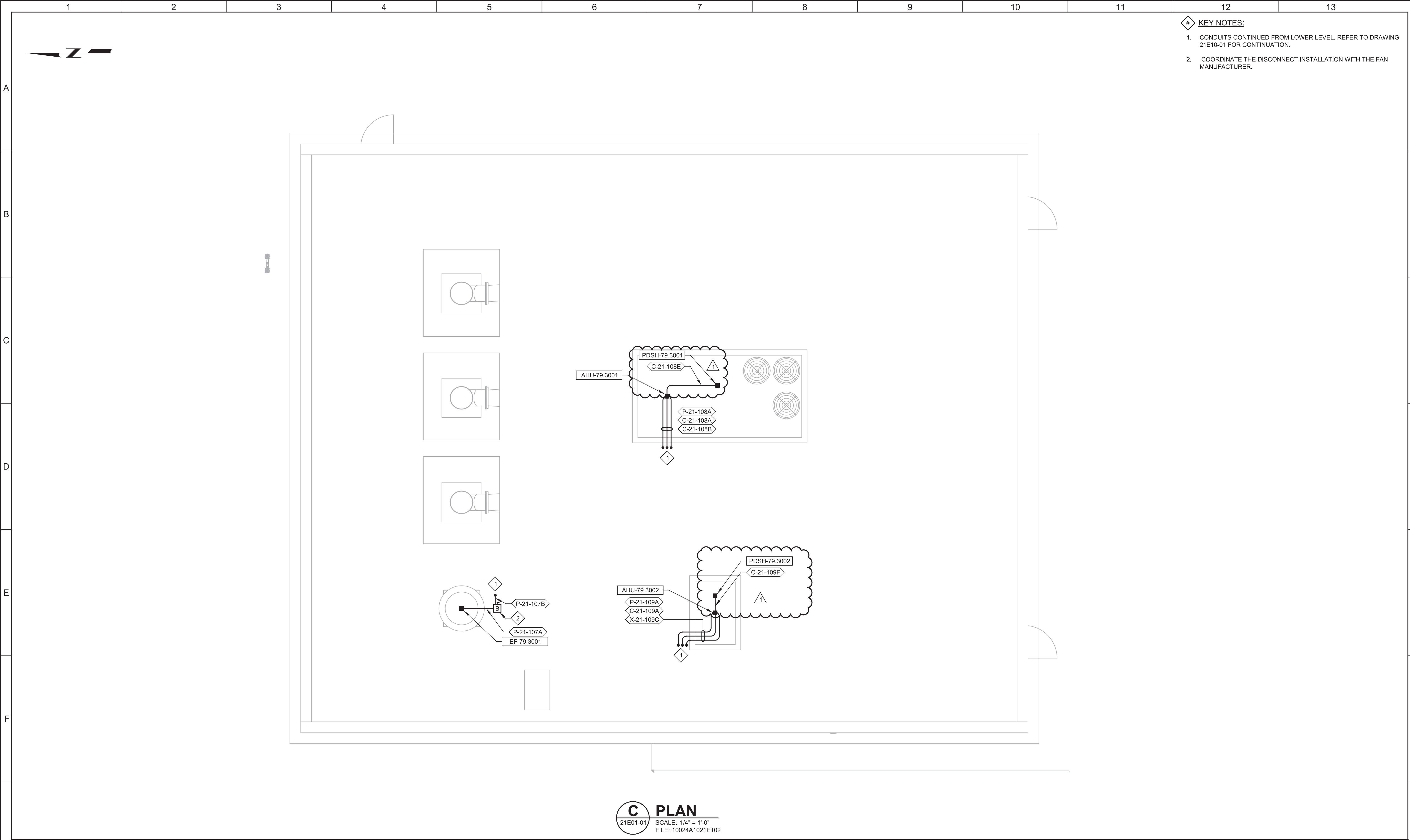
				DESIGNED AB	<div>Digitally signed by Ashritha Banapuram Contact Info: Carollo Engineers, Inc. (Date: 2020.11.10 18:42:09)</div> <div></div> <div></div> <div></div> <div></div>	CITY OF ANTIOCH		VERIFY SCALES	JOB NO. 10024A.10
				DRAWN MP		ANTIOCH BRACKISH WATER DESALINATION PROJECT		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
				CHECKED JGB		ELECTRICAL		0  1"	21E05-03
<div>1</div> <div>REV</div>	11-10-20	AB	REVISED PER ADDENDUM NO.4	DATE SEPTEMBER 2020		RIVER PUMP STATION CONDUIT SCHEDULE - 3		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 264 OF 498
	DATE	BY	DESCRIPTION						

Plot Date: 09-NOV-2020 4:58:04 PM
User: svcPW
Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Std_Pen_v0905.pen PlotScale: 1:1
LAST SAVED BY: mpacheco

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<div>CONDUIT SCHEDULE AREA 21</div> <div>BRACKISH WATER DESALINATION PROJECT</div> <div>RIVER PUMP STATION</div> <table><thead><tr><th colspan="3">CONDUIT</th><th colspan="3">CONDUCTORS</th><th colspan="3">GROUND</th><th colspan="2"></th></tr><tr><th>NUMBER</th><th>DWG</th><th>SIZE</th><th>#</th><th>SIZE</th><th>TYPE</th><th>#</th><th>SIZE</th><th>TYPE</th><th>DESCRIPTION</th><th>CONNECTING SEGMENTS</th></tr></thead><tbody><tr><td>X-21-805</td><td>21E10-01 21E10-02</td><td>4"</td><td>1</td><td>PULL</td><td>ROPE</td><td></td><td></td><td></td><td>FR: FUTURE GENERATOR TO: SWGR-100 1 PULL >> SPARE</td><td></td></tr><tr><td>X-21-806</td><td>21E10-01 21E10-02</td><td>4"</td><td>1</td><td>PULL</td><td>ROPE</td><td></td><td></td><td></td><td>FR: FUTURE GENERATOR TO: SWGR-100 1 PULL >> SPARE</td><td></td></tr><tr><td>X-21-807</td><td>21E10-01 21E10-02</td><td>2"</td><td>1</td><td>PULL</td><td>ROPE</td><td></td><td></td><td></td><td>FR: FUTURE GENERATOR TO: PCM-20.0000 1 PULL >> SPARE</td><td></td></tr><tr><td>X-21-808</td><td>21E10-01 21E10-02</td><td>2"</td><td>1</td><td>PULL</td><td>ROPE</td><td></td><td></td><td></td><td>FR: FUTURE GENERATOR TO: LP-100 1 PULL >> SPARE</td><td></td></tr><tr><td>X-21-822</td><td>21E01-01</td><td>4"</td><td>1</td><td>PULL</td><td>ROPE</td><td></td><td></td><td></td><td>FR: SWGR-RPS TO: XFMR-RPS 1 PULL >> SPARE</td><td></td></tr><tr><td>X-21-831</td><td>21E01-01</td><td>4"</td><td>1</td><td>PULL</td><td>ROPE</td><td></td><td></td><td></td><td>FR: SWGR-RPS TO: UTILITY POLE 1 PULL >> SPARE</td><td></td></tr></tbody></table> <div>END OF CONDUIT SCHEDULE</div>													CONDUIT			CONDUCTORS			GROUND					NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION	CONNECTING SEGMENTS	X-21-805	21E10-01 21E10-02	4"	1	PULL	ROPE				FR: FUTURE GENERATOR TO: SWGR-100 1 PULL >> SPARE		X-21-806	21E10-01 21E10-02	4"	1	PULL	ROPE				FR: FUTURE GENERATOR TO: SWGR-100 1 PULL >> SPARE		X-21-807	21E10-01 21E10-02	2"	1	PULL	ROPE				FR: FUTURE GENERATOR TO: PCM-20.0000 1 PULL >> SPARE		X-21-808	21E10-01 21E10-02	2"	1	PULL	ROPE				FR: FUTURE GENERATOR TO: LP-100 1 PULL >> SPARE		X-21-822	21E01-01	4"	1	PULL	ROPE				FR: SWGR-RPS TO: XFMR-RPS 1 PULL >> SPARE		X-21-831	21E01-01	4"	1	PULL	ROPE				FR: SWGR-RPS TO: UTILITY POLE 1 PULL >> SPARE	
CONDUIT			CONDUCTORS			GROUND																																																																																														
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION	CONNECTING SEGMENTS																																																																																										
X-21-805	21E10-01 21E10-02	4"	1	PULL	ROPE				FR: FUTURE GENERATOR TO: SWGR-100 1 PULL >> SPARE																																																																																											
X-21-806	21E10-01 21E10-02	4"	1	PULL	ROPE				FR: FUTURE GENERATOR TO: SWGR-100 1 PULL >> SPARE																																																																																											
X-21-807	21E10-01 21E10-02	2"	1	PULL	ROPE				FR: FUTURE GENERATOR TO: PCM-20.0000 1 PULL >> SPARE																																																																																											
X-21-808	21E10-01 21E10-02	2"	1	PULL	ROPE				FR: FUTURE GENERATOR TO: LP-100 1 PULL >> SPARE																																																																																											
X-21-822	21E01-01	4"	1	PULL	ROPE				FR: SWGR-RPS TO: XFMR-RPS 1 PULL >> SPARE																																																																																											
X-21-831	21E01-01	4"	1	PULL	ROPE				FR: SWGR-RPS TO: UTILITY POLE 1 PULL >> SPARE																																																																																											
<div>1</div>																																																																																																				

				DESIGNED AB	<div><div>Digitally signed by Ashritha Banapuram Contact Info: Carollo Engineers, Inc. Date: 2020.11.19 16:41:39 -0800</div><div><div>REGISTERED PROFESSIONAL ENGINEER ASHRITHA BANAPURAM No. 21815 ELECTRICAL STATE OF CALIFORNIA</div><div><div>carollo</div><div>ANTI^{CH} CALIFORNIA OPPORTUNITY LIVES HERE</div></div></div></div>	CITY OF ANTIOCH				VERIFY SCALES	JOB NO. 10024A.10	
				DRAWN MP		ANTIOCH BRACKISH WATER DESALINATION PROJECT				BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 21E05-04	
				CHECKED JGB		ELECTRICAL				0 1"	21E05-04	
<div>1</div>	11-10-20	AB	REVISED PER ADDENDUM NO.4	DATE SEPTEMBER 2020		RIVER PUMP STATION CONDUIT SCHEDULE - 4				IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 265 OF 498	
1	2	3	4	5	6	7	8	9	10	11	12	13

Plot Date: 09-NOV-2020 4:57:44 PM
User: svcPW
Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Sld_Pen_v0905.pen PlotScale: 1:1
LAST SAVED BY: mpacheco



- # KEY NOTES:
1. CONDUITS CONTINUED FROM LOWER LEVEL. REFER TO DRAWING 21E10-01 FOR CONTINUATION.
 2. COORDINATE THE DISCONNECT INSTALLATION WITH THE FAN MANUFACTURER.

C PLAN
21E01-01 SCALE: 1/4" = 1'-0"
FILE: 10024A1021E102

1				
2				
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13				

DESIGNED	AB
DRAWN	JRS
CHECKED	JGB
DATE	SEPTEMBER 2020

Digitally signed by Ashutosh Banarjee
Contact Info: Carollo Engineers, Inc.
Date: 2020.11.19 18:42:39 -0800

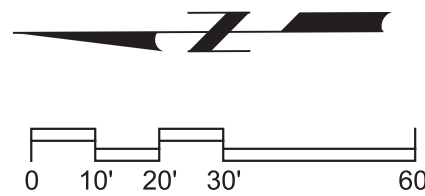


CITY OF ANTIOCH
ANTIOCH BRACKISH WATER DESALINATION PROJECT
ELECTRICAL
RIVER PUMP STATION BUILDING
POWER AND CONTROL ROOF PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
10024A.10
DRAWING NO.
21E10-03
SHEET NO.
268 OF 498

Plot Date: 09-NOV-2020 4:58:39 PM
User: svcPW
Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo Std Pen_v0905.pen PlotScale: 1:1
LAST SAVED BY: mpacheco

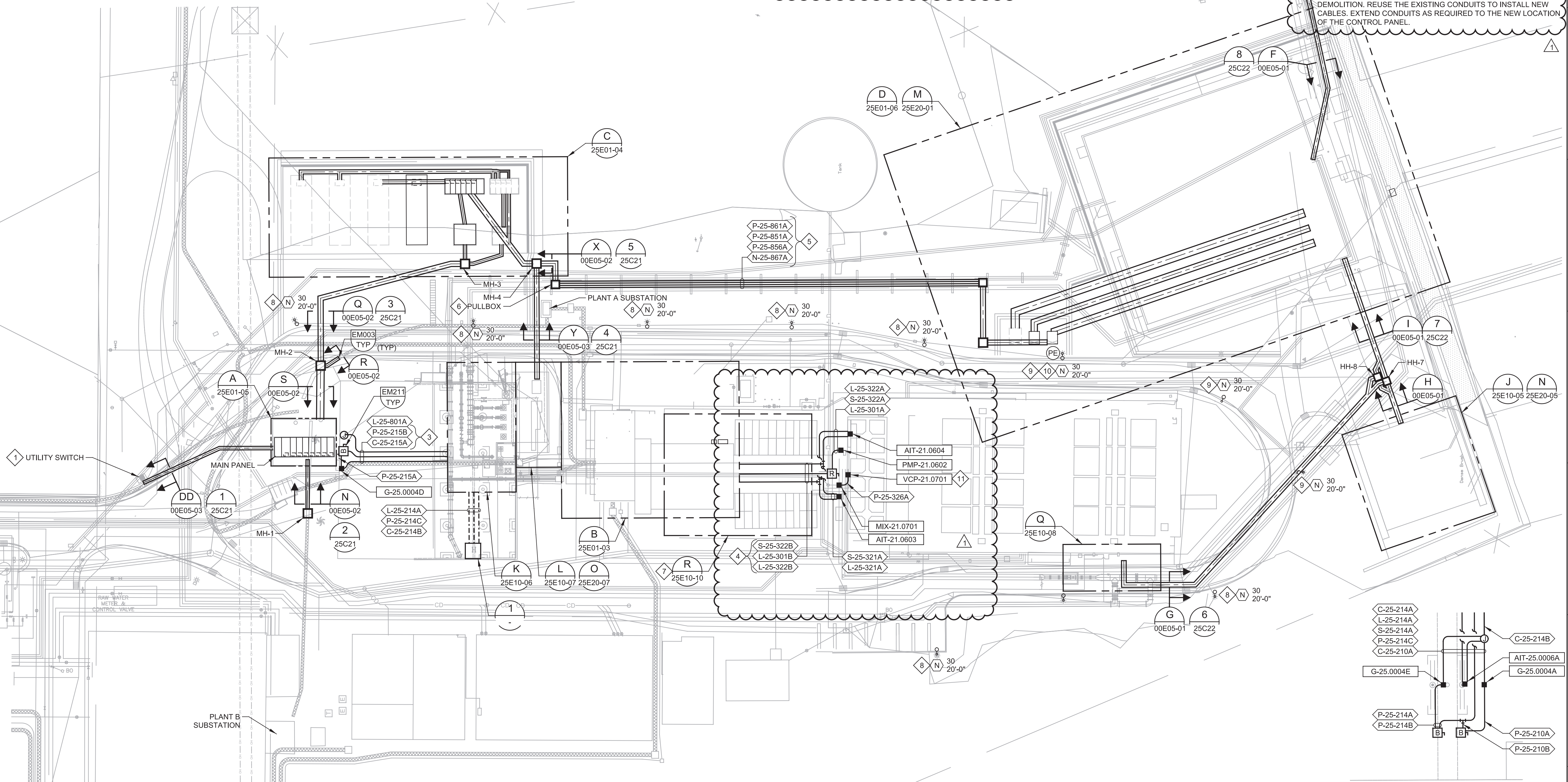


GENERAL NOTES:

1. PROVIDE CONDUIT CLAMPS IN MANHOLES/HANDHOLES TO NEATLY ARRANGE THE CABLES ALONG THE EDGES. PROVIDE KELLEMS GRIP FOR CABLE ELEVATION CHANGES IN DEEP MANHOLES TO SUPPORT LARGE CABLES. REFER TO TYPICAL DETAILS EA070 AND EM076.
2. ALL SITE LIGHTING IS POWERED FROM LIGHTING PANEL LP-RO IN THE RO BUILDING ELECTRICAL ROOM. ALL CIRCUIT NUMBERS REFER TO LP-RO.
3. CONDUIT AND CABLE TO SITE LIGHTING IS NOT SHOWN. CONTRACTOR IS RESPONSIBLE TO INSTALL CONDUIT AND CABLE TO ALL LIGHT FIXTURES. SIZE CABLES PER NEC. USE EXISTING CONDUIT IF POSSIBLE.

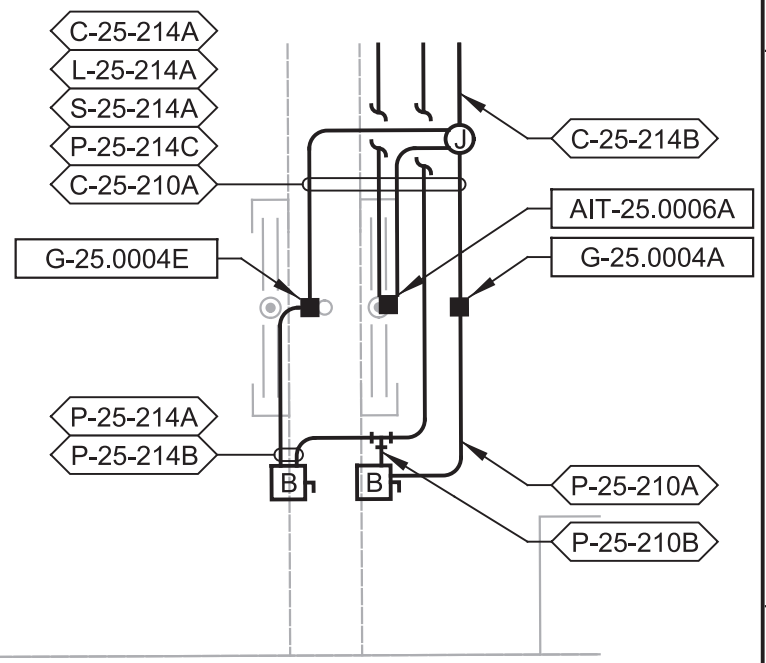
KEY NOTES:

1. COORDINATE WITH PG&E FOR TERMINATION OF NEW CABLES TO THE EXISTING UTILITY SWITCH. PROVIDE NECESSARY PULLBOX OR HANDHOLES TO ACCOMMODATE CABLE TRANSITION. PG&E TO CONFIRM THE EXACT LOCATION OF THE UTILITY SWITCH.
2. COORDINATE WITH CLIENT TO IDENTIFY THE EXACT LOCATION OF THE CONTROL PANEL IN THE CONTROL ROOM.
3. RUN CONDUITS ALONG EXISTING DUCT BANK. REFER TO TYPICAL DETAIL EM104.
4. INSTALL NEW CONDUITS ALONG THE FILTER BUILDING FROM THE NEW INSTRUMENTS ON THE SEDIMENTATION BASINS TO THE PULLBOXES.
5. EXPOSED CONDUITS TO RUN ALONG THE NEW PIPE SUPPORTS. PROVIDE EXPANSION AND DEFLECTION FITTING ALONG THE EXTENT OF THE EXPOSED RUN. REFER TO TYPICAL DETAIL EM126.
6. EXPOSED NEMA 4X PULL BOX MOUNTED ON THE PIPE SUPPORTS. REFER TO CIVIL DRAWINGS FOR INSTALLATION DETAILS. CONDUIT STUB UP FROM THE DUCT BANK INTO THE PULL BOX AND CONTINUE AS EXPOSED CONDUITS ALONG THE PIPE SUPPORTS. SIZE THE JUNCTION BOX PER NEC REQUIREMENTS. REFER TO TYPICAL DETAILS EM107 AND EM126 TO TRANSITION THE CONDUITS FROM DUCT BANK INTO PULL BOX.
7. LOWER LEVEL OF THE FILTER GALLERY AREA.
8. INSTALL NEW LIGHT FIXTURE ON EXISTING LIGHT POLES. COORDINATE WITH LIGHT MANUFACTURER FOR INSTALLATION DETAILS AND ACCESSORIES REQUIRED FOR PROPER INSTALLATION.
9. PROVIDE NEW LIGHT POLES. REFER TO TYPICAL DETAIL EL506 FOR POLE INSTALLATION. PROVIDE HANDHOLES AT THE BASE TO MATCH EXISTING INSTALLATION.
10. PROVIDE A POLE MOUNTED PHOTOCELL. WIRE THE PHOTOCELL TO THE LIGHTING CONTROLLER SWITCH LOCATED IN THE RO BUILDING ELECTRICAL ROOM. WIRING PER EL703.
11. DEMOLISH THE EXISTING MIXER AND THE CONTROL PANEL. DEMOLISH POWER AND CONTROL CABLES FROM THE MCC AND PLO PANEL. PROTECT THE CONDUITS DURING THE EXISTING MIXER DEMOLITION. REUSE THE EXISTING CONDUITS TO INSTALL NEW CABLES. EXTEND CONDUITS AS REQUIRED TO THE NEW LOCATION OF THE CONTROL PANEL.



A PLAN
25E01-01
SCALE: 1" = 30'-0"
FILE: 100241001E101

1 DETAIL
-
SCALE: 3/8" = 1'-0"
FILE: 100241001E101



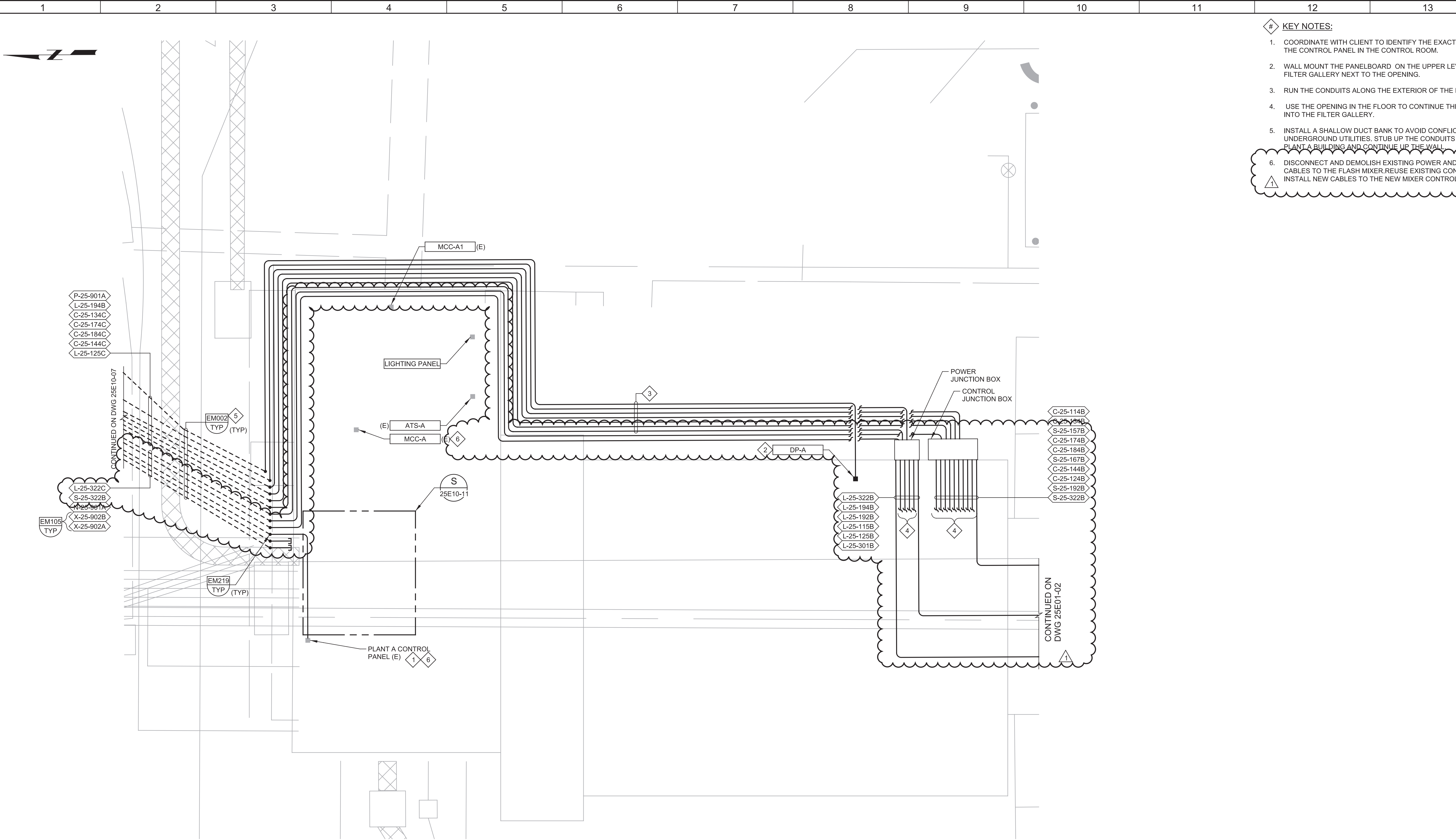
Designed by Ashrita Banapuram
Contact Info: Carollo Engineers, Inc.
Date: 2020.11.19 14:42:50 (gpc)



CITY OF ANTIOCH
ANTIOCH BRACKISH WATER DESALINATION PROJECT
ELECTRICAL
SITE PLAN - 1

VERIFY SCALES	JOB NO. 10024A.10
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 25E01-02
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 273 OF 498

Plot Date: 09-NOV-2020 4:58:27 PM
User: svcPW
Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo Std Pen_v0905.pen PlotScale: 1:1
LAST SAVED BY: mpacheco



- # KEY NOTES:
- COORDINATE WITH CLIENT TO IDENTIFY THE EXACT LOCATION OF THE CONTROL PANEL IN THE CONTROL ROOM.
 - WALL MOUNT THE PANELBOARD ON THE UPPER LEVEL OF THE FILTER GALLERY NEXT TO THE OPENING.
 - RUN THE CONDUITS ALONG THE EXTERIOR OF THE BUILDING.
 - USE THE OPENING IN THE FLOOR TO CONTINUE THE CONDUITS INTO THE FILTER GALLERY.
 - INSTALL A SHALLOW DUCT BANK TO AVOID CONFLICTS WITH UNDERGROUND UTILITIES. STUB UP THE CONDUITS OUTSIDE THE PLANT A BUILDING AND CONTINUE UP THE WALL.
 - DISCONNECT AND DEMOLISH EXISTING POWER AND CONTROL CABLES TO THE FLASH MIXER. REUSE EXISTING CONDUITS TO INSTALL NEW CABLES TO THE NEW MIXER CONTROL PANEL.

B PLAN
25E01-02 SCALE: 3/16" = 1'-0"
FILE: 10024A1025E101

DESIGNED AB				DRAWN MNH				CHECKED JGB				DATE SEPTEMBER 2020			
REV				DATE				BY				DESCRIPTION			
1				11-10-20				AB				REVISED PER ADDENDUM NO.4			

PROJECT NO. 10024A10

FILE NAME: 10024A1025E101.dgn

VERIFIED SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING

0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
10024A.10

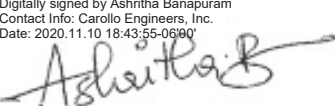



DRAWING NO.
25E01-03

SHEET NO.
274 OF 498

Plot Date: 10-NOV-2020 3:39:04 PM
User: svcPW
Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo Std Pen_v0905.pen PlotScale: 1:1
LAST SAVED BY: mpacheco

CONDUIT SCHEDULE AREA 25													11/10/20		
BRACKISH WATER DESALINATION PROJECT															
WATER TREATMENT PLANT															
CONDUIT			CONDUCTORS			GROUND									
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION						CONNECTING SEGMENTS
C-25-134C	25E01-03 25E10-07	3"	80 10	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: JUNCTION BOX TO: PCM-25.0001						
									10 #14 >> VAL-24.0102B CONTROL						C-25-114B
									1 2/CS-#16 >> VAL-24.0102B SIGNAL						C-25-114B
									1 2/CS-#16 >> FIT-24.0104B SIGNAL						C-25-114B
									10 #14 >> VAL-24.0104B CONTROL						C-25-114B
									1 2/CS-#16 >> VAL-24.0104B SIGNAL						C-25-114B
									10 #14 >> VAL-24.0104A CONTROL						C-25-114B
									1 2/CS-#16 >> VAL-24.0104A SIGNAL						C-25-114B
									10 #14 >> VAL-24.0102A CONTROL						C-25-114B
									1 2/CS-#16 >> VAL-24.0102A SIGNAL						C-25-114B
									10 #14 >> VAL-24.0302B CONTROL						C-25-134B
									1 2/CS-#16 >> VAL-24.0302B SIGNAL						C-25-134B
									10 #14 >> VAL-24.0304B CONTROL						C-25-134B
									1 2/CS-#16 >> VAL-24.0304B SIGNAL						C-25-134B
									10 #14 >> VAL-24.0304A CONTROL						C-25-134B
									1 2/CS-#16 >> VAL-24.0304A SIGNAL						C-25-134B
									1 2/CS-#16 >> FIT-24.0304A SIGNAL						C-25-134B
									10 #14 >> VAL-24.0302A CONTROL						C-25-134B
									1 2/CS-#16 >> VAL-24.0302A SIGNAL						C-25-134B
									C-25-141A	25E10-10	1"	10 1	#14 2/CS-#16	XHHW-2	1
10 #14 >> VAL-24.0402B CONTROL 1 2/CS-#16 >> VAL-24.0402B SIGNAL															
C-25-142A	25E10-10	1"	10 1	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: VAL-24.0404B TO: CONDUIT TEE						C-25-142B
									10 #14 >> VAL-24.0404B CONTROL 1 2/CS-#16 >> VAL-24.0404B SIGNAL						
C-25-142B	25E10-10	1.5"	20 2	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE						C-25-143B
									10 #14 >> VAL-24.0402B CONTROL						C-25-141A
									1 2/CS-#16 >> VAL-24.0402B SIGNAL						C-25-141A
									10 #14 >> VAL-24.0404B CONTROL						C-25-142A
C-25-143A	25E10-10	1"	10 1	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: VAL-24.0404A TO: CONDUIT TEE						C-25-143B
									10 #14 >> VAL-24.0404A CONTROL 1 2/CS-#16 >> VAL-24.0404A SIGNAL						
C-25-143B	25E10-10	1.5"	30 3	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE						S-25-146B
									10 #14 >> VAL-24.0402B CONTROL						C-25-142B
									1 2/CS-#16 >> VAL-24.0402B SIGNAL						C-25-142B
									10 #14 >> VAL-24.0404B CONTROL						C-25-142B
									1 2/CS-#16 >> VAL-24.0404B SIGNAL						C-25-142B
C-25-144A	25E10-10	1"	10 1	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: VAL-24.0402A TO: CONDUIT TEE						C-25-144B
									10 #14 >> VAL-24.0402A CONTROL 1 2/CS-#16 >> VAL-24.0402A SIGNAL						
C-25-144B	25E10-10 25E01-03	2"	40 5	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: JUNCTION BOX						C-25-144C
									10 #14 >> VAL-24.0402B CONTROL						S-25-146B
									1 2/CS-#16 >> VAL-24.0402B SIGNAL						S-25-146B
									10 #14 >> VAL-24.0404B CONTROL						S-25-146B
									1 2/CS-#16 >> VAL-24.0404B SIGNAL						S-25-146B
									10 #14 >> VAL-24.0404A CONTROL						S-25-146B
									1 2/CS-#16 >> VAL-24.0404A SIGNAL						S-25-146B
									1 2/CS-#16 >> FIT-24.0404A SIGNAL						S-25-146B
									10 #14 >> VAL-24.0402A CONTROL						C-25-144A
									1 2/CS-#16 >> VAL-24.0402A SIGNAL						C-25-144A

1

				DESIGNED AB	<div><div>Digitally signed by Ashritha Banapuram Control Info: Carollo Engineers, Inc. Date: 2025.11.10 10:43:29-0900 </div><div><div>REGISTERED PROFESSIONAL ENGINEER ASHRITHA BANAPURAM No. 21815 ELECTRICAL STATE OF CALIFORNIA</div><div></div></div></div>	CITY OF ANTIOCH		VERIFY SCALES	JOB NO. 10024A.10
				DRAWN BPR		ANTIOCH BRACKISH WATER DESALINATION PROJECT		BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
				CHECKED JGB		ELECTRICAL		0  1"	25E05-02
<div>1</div>	11-10-20	AB	REVISED PER ADDENDUM NO.4	DATE SEPTEMBER 2020		WATER TREATMENT PLANT CONDUIT SCHEDULE - 2		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 279 OF 498

1	2	3	4	5	6	7	8	9	10	11	12	13
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User: svcPW

Model: Layout1

ColorTable: gshade.ctb

DesignScript: Carollo Std Pen_v0905.pen

PlotScale: 1:1

LAST SAVED BY: mpacheco

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<div>CONDUIT SCHEDULE AREA 2511/10/20</div> <div>BRACKISH WATER DESALINATION PROJECT</div> <div>WATER TREATMENT PLANT</div> <table><tr><th colspan="3">CONDUIT</th><th colspan="3">CONDUCTORS</th><th colspan="3">GROUND</th><th colspan="4"></th></tr><tr><th>NUMBER</th><th>DWG</th><th>SIZE</th><th>#</th><th>SIZE</th><th>TYPE</th><th>#</th><th>SIZE</th><th>TYPE</th><th colspan="2">DESCRIPTION</th><th colspan="2">CONNECTING SEGMENTS</th></tr><tr><td rowspan="6">C-25-162B</td><td rowspan="6">25E10-10</td><td rowspan="6">1.5"</td><td rowspan="6">20 5</td><td rowspan="6">#14 2/CS-#16</td><td rowspan="6">XHHW-2</td><td rowspan="6">1</td><td rowspan="6">#14</td><td rowspan="6">XHHW-2</td><td>FR: CONDUIT TEE</td><td colspan="2">C-25-163B</td></tr><tr><td>TO: CONDUIT TEE</td><td colspan="2"></td></tr><tr><td>10 #14 >> VAL-24.0602B CONTROL</td><td colspan="2">S-25-165B</td></tr><tr><td>2 2/CS-#16 >> VAL-24.0602B SIGNAL</td><td colspan="2">S-25-165B</td></tr><tr><td>1 2/CS-#16 >> FIT-24.0604B SIGNAL</td><td colspan="2">S-25-165B</td></tr><tr><td>10 #14 >> VAL-24.0604B CONTROL</td><td colspan="2">C-25-162A</td></tr><tr><td>2 2/CS-#16 >> VAL-24.0604B SIGNAL</td><td colspan="2">C-25-162A</td></tr><tr><td rowspan="3">C-25-163A</td><td rowspan="3">25E10-10</td><td rowspan="3">1"</td><td rowspan="3">10 2</td><td rowspan="3">#14 2/CS-#16</td><td rowspan="3">XHHW-2</td><td rowspan="3">1</td><td rowspan="3">#14</td><td rowspan="3">XHHW-2</td><td>FR: VAL-24.0604A CONDUIT TEE</td><td colspan="2">C-25-163B</td></tr><tr><td>TO: >> VAL-24.0604A CONTROL</td><td colspan="2"></td></tr><tr><td>2 2/CS-#16 >> VAL-24.0604A SIGNAL</td><td colspan="2"></td></tr><tr><td rowspan="7">C-25-163B</td><td rowspan="7">25E10-10</td><td rowspan="7">2"</td><td rowspan="7">30 7</td><td rowspan="7">#14 2/CS-#16</td><td rowspan="7">XHHW-2</td><td rowspan="7">1</td><td rowspan="7">#14</td><td rowspan="7">XHHW-2</td><td>FR: CONDUIT TEE</td><td colspan="2">C-25-162B</td></tr><tr><td>TO: CONDUIT TEE</td><td 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SIGNAL</td><td colspan="2"></td></tr><tr><td rowspan="8">C-25-164B</td><td rowspan="8">25E10-10</td><td rowspan="8">2.5"</td><td rowspan="8">40 9</td><td rowspan="8">#14 2/CS-#16</td><td rowspan="8">XHHW-2</td><td rowspan="8">1</td><td rowspan="8">#14</td><td rowspan="8">XHHW-2</td><td>FR: CONDUIT TEE</td><td colspan="2">S-25-167B</td></tr><tr><td>TO: CONDUIT TEE</td><td colspan="2"></td></tr><tr><td>10 #14 >> VAL-24.0602B CONTROL</td><td colspan="2">C-25-164A</td></tr><tr><td>2 2/CS-#16 >> VAL-24.0602B SIGNAL</td><td colspan="2">C-25-164A</td></tr><tr><td>1 2/CS-#16 >> FIT-24.0604B SIGNAL</td><td colspan="2">C-25-164A</td></tr><tr><td>10 #14 >> VAL-24.0604B CONTROL</td><td colspan="2">C-25-164A</td></tr><tr><td>2 2/CS-#16 >> VAL-24.0604B SIGNAL</td><td colspan="2">C-25-164A</td></tr><tr><td>10 #14 >> VAL-24.0604A CONTROL</td><td colspan="2">C-25-164A</td></tr><tr><td>2 2/CS-#16 >> VAL-24.0602A CONTROL</td><td colspan="2">C-25-164A</td></tr><tr><td>10 #14 >> VAL-24.0602A SIGNAL</td><td 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TEE	C-25-163B		TO: >> VAL-24.0604A CONTROL			2 2/CS-#16 >> VAL-24.0604A SIGNAL			C-25-163B	25E10-10	2"	30 7	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE	C-25-162B		TO: CONDUIT TEE			10 #14 >> VAL-24.0602B CONTROL	C-25-162B		2 2/CS-#16 >> VAL-24.0602B SIGNAL	C-25-162B		1 2/CS-#16 >> FIT-24.0604B SIGNAL	C-25-162B		10 #14 >> VAL-24.0604B CONTROL	C-25-162B		2 2/CS-#16 >> VAL-24.0604B SIGNAL	C-25-162B		10 #14 >> VAL-24.0604A CONTROL	C-25-163A		2 2/CS-#16 >> VAL-24.0604A SIGNAL	C-25-163A		C-25-164A	25E10-10	1"	10 2	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: VAL-24.0602A CONDUIT TEE	C-25-164B		TO: >> VAL-24.0602A CONTROL			2 2/CS-#16 >> VAL-24.0602A SIGNAL			C-25-164B	25E10-10	2.5"	40 9	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE	S-25-167B		TO: CONDUIT TEE			10 #14 >> VAL-24.0602B CONTROL	C-25-164A		2 2/CS-#16 >> VAL-24.0602B SIGNAL	C-25-164A		1 2/CS-#16 >> FIT-24.0604B SIGNAL	C-25-164A		10 #14 >> VAL-24.0604B CONTROL	C-25-164A		2 2/CS-#16 >> VAL-24.0604B SIGNAL	C-25-164A		10 #14 >> VAL-24.0604A CONTROL	C-25-164A		2 2/CS-#16 >> VAL-24.0602A CONTROL	C-25-164A		10 #14 >> VAL-24.0602A SIGNAL	C-25-164A		C-25-171A	25E10-10	1"	10 2	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: VAL-24.0702B CONDUIT TEE	C-25-172B		TO: >> VAL-24.0702B CONTROL			2 2/CS-#16 >> VAL-24.0702B SIGNAL			C-25-172A	25E10-10	1"	10 2	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: VAL-24.0704B CONDUIT TEE	C-25-172B		TO: >> VAL-24.0704B CONTROL			2 2/CS-#16 >> VAL-24.0704B SIGNAL			C-25-172B	25E10-10	1.5"	20 4	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE	C-25-173B		TO: CONDUIT TEE			10 #14 >> VAL-24.0702B CONTROL	C-25-171A		2 2/CS-#16 >> VAL-24.0702B SIGNAL	C-25-171A		10 #14 >> VAL-24.0704B CONTROL	C-25-172A		2 2/CS-#16 >> VAL-24.0704B SIGNAL	C-25-172A		C-25-173A	25E10-10	1"	10 2	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: VAL-24.0704A CONDUIT TEE	C-25-173B		TO: >> VAL-24.0704A CONTROL			2 2/CS-#16 >> VAL-24.0704A SIGNAL			C-25-173B	25E10-10	2"	30 6	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE	S-25-176B		TO: CONDUIT TEE			10 #14 >> VAL-24.0702B CONTROL	C-25-172B		2 2/CS-#16 >> VAL-24.0702B SIGNAL	C-25-172B		10 #14 >> VAL-24.0704B CONTROL	C-25-172B		2 2/CS-#16 >> VAL-24.0704B SIGNAL	C-25-173A		10 #14 >> VAL-24.0704A CONTROL	C-25-173A		2 2/CS-#16 >> VAL-24.0704A SIGNAL	C-25-173A		C-25-174A	25E10-10	1"	10 2	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: VAL-24.0702A CONDUIT TEE	C-25-174B		TO: >> VAL-24.0702A CONTROL			10 #14 >> VAL-24.0702A SIGNAL			2 2/CS-#16 >> VAL-24.0702A SIGNAL			<div>CONDUIT SCHEDULE AREA 2511/10/20</div> <div>BRACKISH WATER DESALINATION PROJECT</div> <div>WATER TREATMENT PLANT</div> <table><tr><th colspan="3">CONDUIT</th><th colspan="3">CONDUCTORS</th><th colspan="3">GROUND</th><th colspan="4"></th></tr><tr><th>NUMBER</th><th>DWG</th><th>SIZE</th><th>#</th><th>SIZE</th><th>TYPE</th><th>#</th><th>SIZE</th><th>TYPE</th><th colspan="2">DESCRIPTION</th><th colspan="2">CONNECTING SEGMENTS</th></tr><tr><td rowspan="6">C-25-174B</td><td rowspan="6">25E10-10 25E01-03</td><td 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rowspan="3">25E10-10</td><td rowspan="3">1"</td><td rowspan="3">10 2</td><td rowspan="3">#14 2/CS-#16</td><td rowspan="3">XHHW-2</td><td rowspan="3">1</td><td rowspan="3">#14</td><td rowspan="3">XHHW-2</td><td>FR: VAL-24.0804B CONDUIT TEE</td><td colspan="2">C-25-182B</td></tr><tr><td>TO: >> VAL-24.0804B CONTROL</td><td colspan="2"></td></tr><tr><td>2 2/CS-#16 >> VAL-24.0804B SIGNAL</td><td colspan="2"></td></tr><tr><td rowspan="3">C-25-182B</td><td rowspan="3">25E10-10</td><td rowspan="3">1.5"</td><td rowspan="3">20 4</td><td rowspan="3">#14 2/CS-#16</td><td rowspan="3">XHHW-2</td><td rowspan="3">1</td><td rowspan="3">#14</td><td rowspan="3">XHHW-2</td><td>FR: CONDUIT TEE</td><td colspan="2">C-25-183B</td></tr><tr><td>TO: CONDUIT TEE</td><td colspan="2"></td></tr><tr><td>10 #14 >> VAL-24.0802B CONTROL</td><td colspan="2">C-25-181A</td></tr><tr><td>2 2/CS-#16 >> VAL-24.0802B SIGNAL</td><td colspan="2">C-25-181A</td></tr><tr><td>10 #14 >> VAL-24.0804B CONTROL</td><td 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rowspan="11">40 9</td><td rowspan="11">#14 2/CS-#16</td><td rowspan="11">XHHW-2</td><td rowspan="11">1</td><td rowspan="11">#14</td><td rowspan="11">XHHW-2</td><td>FR: CONDUIT TEE</td><td colspan="2">C-25-184C</td></tr><tr><td>TO: JUNCTION BOX</td><td colspan="2"></td></tr><tr><td>10 #14 >> VAL-24.0802B CONTROL</td><td colspan="2">S-25-186B</td></tr><tr><td>2 2/CS-#16 >> VAL-24.0802B SIGNAL</td><td colspan="2">S-25-186B</td></tr><tr><td>10 #14 >> VAL-24.0804B CONTROL</td><td colspan="2">S-25-186B</td></tr><tr><td>2 2/CS-#16 >> VAL-24.0804B SIGNAL</td><td colspan="2">S-25-186B</td></tr><tr><td>10 #14 >> VAL-24.0804A CONTROL</td><td colspan="2">S-25-186B</td></tr><tr><td>2 2/CS-#16 >> VAL-24.0804A SIGNAL</td><td colspan="2">S-25-186B</td></tr><tr><td>1 2/CS-#16 >> FIT-24.0804A SIGNAL</td><td colspan="2">S-25-186B</td></tr><tr><td>10 #14 >> VAL-24.0802A CONTROL</td><td colspan="2">C-25-184A</td></tr><tr><td>2 2/CS-#16 >> VAL-24.0802A SIGNAL</td><td colspan="2">C-25-184A</td></tr></table>													CONDUIT			CONDUCTORS			GROUND							NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION		CONNECTING SEGMENTS		C-25-174B	25E10-10 25E01-03	2.5"	40 9	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE	C-25-174C		TO: JUNCTION BOX			10 #14 >> VAL-24.0702B CONTROL	S-25-176B		2 2/CS-#16 >> VAL-24.0702B SIGNAL	S-25-176B		10 #14 >> VAL-24.0704B CONTROL	S-25-176B		2 2/CS-#16 >> VAL-24.0704B SIGNAL	S-25-176B		C-25-174C	25E01-03 25E10-07	3"	80 19	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: JUNCTION BOX	S-25-157B		TO: PCM-25.0001			10 #14 >> VAL-24.0502B CONTROL	S-25-157B		2 2/CS-#16 >> VAL-24.0502B SIGNAL	S-25-157B		1 2/CS-#16 >> FIT-24.0504B SIGNAL	S-25-157B		10 #14 >> VAL-24.0504B CONTROL	S-25-157B		2 2/CS-#16 >> VAL-24.0504A SIGNAL	S-25-157B		10 #14 >> VAL-24.0502A CONTROL	S-25-157B		2 2/CS-#16 >> VAL-24.0502A SIGNAL	S-25-157B		10 #14 >> VAL-24.0504A SIGNAL	S-25-157B		2 2/CS-#16 >> VAL-24.0504A SIGNAL	S-25-157B		10 #14 >> VAL-24.0702A 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C-25-184B	25E10-10 25E01-03	2.5"	40 9	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE	C-25-184C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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LAST SAVED BY: mpacheco

CONDUIT SCHEDULE AREA 25										11/10/20
BRACKISH WATER DESALINATION PROJECT										
WATER TREATMENT PLANT										
CONDUIT			CONDUCTORS			GROUND				
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION	CONNECTING SEGMENTS
C-25-309A	25E10-08	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: LSH-21.0605 TO: CONDUIT TEE (THROUGH JB) 2 #14 >> LSH-21.0605 CONTROL	
C-25-310A	25E10-08	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: LSH-21.0606 TO: CONDUIT TEE (THROUGH JB) 2 #14 >> LSH-21.0606 CONTROL	C-25-302A
C-25-326A	25E01-02 25E01-03	0.75"	10	#14	XHHW-2	1	#14	XHHW-2	FR: VCP-21.0701 TO: PLANT A CONTROL PANEL 10 #14 >> VCP-21.0701 CONTROL	
C-25-401A	25E10-05	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: FSH-65.0201 TO: CONDUIT TEE 2 #14 >> FSH-65.0201 CONTROL	C-25-407B
C-25-406A	25E10-05	0.75"	8	#14	XHHW-2	1	#14	XHHW-2	FR: PMP-65.0201 TO: CONDUIT TEE 8 #14 >> PMP-65.0201 CONTROL	C-25-406B
C-25-406B	25E10-05	1"	18	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 2 #14 >> FSH-65.0201 CONTROL 8 #14 >> PMP-65.0202 CONTROL 8 #14 >> PMP-65.0201 CONTROL	S-25-403C C-25-407B C-25-407B C-25-406A
C-25-407A	25E10-05	0.75"	8	#14	XHHW-2	1	#14	XHHW-2	FR: PMP-65.0202 TO: CONDUIT TEE 8 #14 >> PMP-65.0202 CONTROL	C-25-407B
C-25-407B	25E10-05	0.75"	10	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 2 #14 >> FSH-65.0201 CONTROL 8 #14 >> PMP-65.0202 CONTROL	C-25-406B C-25-401A C-25-407A
C-25-416A	25E10-05	0.75"	8	#14	XHHW-2	1	#14	XHHW-2	FR: PMP-69.0101 TO: CONDUIT TEE 8 #14 >> PMP-69.0101 CONTROL	C-25-416B
C-25-416B	25E10-05	1"	8 1	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 1 2/CS-#16 >> WIT-69-0101 SIGNAL 8 #14 >> PMP-69.0101 CONTROL	C-25-417B S-25-411D C-25-416A
C-25-417A	25E10-05	0.75"	8	#14	XHHW-2	1	#14	XHHW-2	FR: PMP-69.0102 TO: CONDUIT TEE 8 #14 >> PMP-69.0102 CONTROL	C-25-417B
C-25-417B	25E10-05	1.5"	16 1	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: PCM-60.0000 1 2/CS-#16 >> WIT-69-0101 SIGNAL 8 #14 >> PMP-69.0101 CONTROL 8 #14 >> PMP-69.0102 CONTROL	C-25-416B C-25-416B C-25-417A
C-25-431A	25E10-05	0.75"	8	#14	XHHW-2	1	#14	XHHW-2	FR: PMP-61.1101 TO: CONDUIT TEE 8 #14 >> PMP-61.1101 CONTROL	C-25-432B
C-25-432A	25E10-05	0.75"	8	#14	XHHW-2	1	#14	XHHW-2	FR: PMP-61.1102 TO: CONDUIT TEE 8 #14 >> PMP-61.1102 CONTROL	C-25-432B
C-25-432B	25E10-05	1"	16	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 8 #14 >> PMP-61.1101 CONTROL 8 #14 >> PMP-61.1102 CONTROL	C-25-433B C-25-431A C-25-432A
C-25-433A	25E10-05	0.75"	8	#14	XHHW-2	1	#14	XHHW-2	FR: VCP-61.1110 TO: CONDUIT TEE 8 #14 >> VCP-61.1110 CONTROL	C-25-433B
C-25-433B	25E10-05	1.5"	24	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 8 #14 >> PMP-61.1101 CONTROL 8 #14 >> PMP-61.1102 CONTROL 8 #14 >> VCP-61.1110 CONTROL	C-25-434B C-25-432B C-25-432B C-25-433A
C-25-434A	25E10-05	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: SV-61.1108 TO: CONDUIT TEE 2 #14 >> SV-61.1108 CONTROL	C-25-434B



CONDUIT SCHEDULE AREA 25										11/10/20
BRACKISH WATER DESALINATION PROJECT										
WATER TREATMENT PLANT										
CONDUIT			CONDUCTORS			GROUND				
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION	CONNECTING SEGMENTS
C-25-434B	25E10-05	1.5"	26	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: PCM-60.0000 8 #14 >> PMP-61.1101 CONTROL 8 #14 >> PMP-61.1102 CONTROL 8 #14 >> VCP-61.1110 CONTROL 2 #14 >> SV-61.1108 CONTROL	C-25-433B C-25-433B C-25-433B C-25-434A
C-25-454A	25E10-05	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: FSH-66.0801 TO: CONDUIT TEE 2 #14 >> FSH-66.0801 CONTROL	C-25-455B
C-25-455A	25E10-05	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: LSH-66.0801A TO: CONDUIT TEE 2 #14 >> LSH-66.0801A CONTROL	C-25-455B
C-25-455B	25E10-05	0.75"	4	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: PCM-60.0000 2 #14 >> FSH-66.0801 CONTROL 2 #14 >> LSH-66.0801A CONTROL	C-25-454A C-25-455A
C-25-456A	25E10-05	0.75"	8	#14	XHHW-2	1	#14	XHHW-2	FR: PMP-66.0803 TO: CONDUIT TEE 8 #14 >> PMP-66.0803 CONTROL	C-25-456B
C-25-456B	25E10-05	1"	8 1	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 1 2/CS-#16 >> LIT-66.0801B SIGNAL 8 #14 >> PMP-66.0803 CONTROL	C-25-457B S-25-451B C-25-456A
C-25-457A	25E10-05	0.75"	8	#14	XHHW-2	1	#14	XHHW-2	FR: PMP-66.0802 TO: CONDUIT TEE 8 #14 >> PMP-66.0802 CONTROL	C-25-457B
C-25-457B	25E10-05	1.5"	16 1	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 1 2/CS-#16 >> LIT-66.0801B SIGNAL 8 #14 >> PMP-66.0803 CONTROL 8 #14 >> PMP-66.0802 CONTROL	C-25-458B C-25-456B C-25-456B C-25-457A
C-25-458A	25E10-05	0.75"	8	#14	XHHW-2	1	#14	XHHW-2	FR: PMP-66.0801 TO: CONDUIT TEE 8 #14 >> PMP-66.0801 CONTROL	C-25-458B
C-25-458B	25E10-05	1.5"	24 1	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 1 2/CS-#16 >> LIT-66.0801B SIGNAL 8 #14 >> PMP-66.0803 CONTROL 8 #14 >> PMP-66.0802 CONTROL 8 #14 >> PMP-66.0801 CONTROL	C-25-462B C-25-457B C-25-457B C-25-457B C-25-458A
C-25-460A	25E10-05	0.75"	10	#14	XHHW-2	1	#14	XHHW-2	FR: VAL-66.0801E TO: PCM-60.0000 10 #14 >> VAL-66.0801E CONTROL	
C-25-461A	25E10-05	0.75"	8	#14	XHHW-2	1	#14	XHHW-2	FR: PMP-66.0804 TO: CONDUIT TEE 8 #14 >> PMP-66.0804 CONTROL	C-25-461B
C-25-461B	25E10-05	1.5"	40	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: PCM-60.0000 8 #14 >> PMP-66.0803 CONTROL 8 #14 >> PMP-66.0802 CONTROL 8 #14 >> PMP-66.0801 CONTROL 8 #14 >> PMP-66.0805 CONTROL 8 #14 >> PMP-66.0804 CONTROL	C-25-461B C-25-461B C-25-461B C-25-461B C-25-461A
C-25-462A	25E10-05	0.75"	8	#14	XHHW-2	1	#14	XHHW-2	FR: PMP-66.0805 TO: CONDUIT TEE 8 #14 >> PMP-66.0805 CONTROL	C-25-462B
C-25-462B	25E10-05	1.5"	32 1	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 1 2/CS-#16 >> LIT-66.0801B SIGNAL 8 #14 >> PMP-66.0803 CONTROL 8 #14 >> PMP-66.0802 CONTROL 8 #14 >> PMP-66.0801 CONTROL 8 #14 >> PMP-66.0805 CONTROL	C-25-458B C-25-458B C-25-458B C-25-458B C-25-462A
C-25-465A	25E10-05	0.75"	10	#14	XHHW-2	1	#14	XHHW-2	FR: LCP-66.0806 TO: PCM-60.0000 10 #14 >> LCP-66.0806 CONTROL	



						DESIGNED AB
						DRAWN BPR
						CHECKED JGB
						DATE SEPTEMBER 2020
1 REV	11-10-20	AB BY	REVISED PER ADDENDUM NO.4 DESCRIPTION			

Digitally signed by Ashrita Banapouram
DN: cn=Ashrita Banapouram, o=Carollo Engineers, Inc.
Date: 2020.11.10 16:43:25-0800



CITY OF ANTIOCH				VERIFY SCALES	JOB NO. 10024A.10
ANTIOCH BRACKISH WATER DESALINATION PROJECT				BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	DRAWING NO. 25E05-05
ELECTRICAL				IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 282 OF 498
WATER TREATMENT PLANT CONDUIT SCHEDULE - 5					

Plot Date: 10-NOV-2020 3:39:04 PM

User: svcPW

Model: Layout1

ColorTable: gshade.ctb DesignScript: Carollo Std Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: mpacheco

CONDUIT SCHEDULE AREA 25										11/10/20
BRACKISH WATER DESALINATION PROJECT										
WATER TREATMENT PLANT										
CONDUIT			CONDUCTORS			GROUND				
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION	CONNECTING SEGMENTS
C-25-471A	25E10-05	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: FSH-66.0901 CONDUIT TEE TO: 2 #14 >> FSH-66.0901 CONTROL	C-25-473D
C-25-473A	25E10-05	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: FSH-66.0904 CONDUIT TEE TO: 2 #14 >> FSH-66.0904 CONTROL	C-25-473C
C-25-473B	25E10-05	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: LSH-66.0903 CONDUIT TEE TO: 2 #14 >> LSH-66.0903 CONTROL	C-25-473C
C-25-473C	25E10-05	0.75"	4	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE JUNCTION BOX TO: 2 #14 >> FSH-66.0904 CONTROL 2 #14 >> LSH-66.0903 CONTROL	C-25-473D C-25-473A C-25-473B
C-25-473D	25E10-05	1.5"	22	#14	XHHW-2	1	#14	XHHW-2	FR: JUNCTION BOX JUNCTION BOX TO: 2 #14 >> FSH-66.0901 CONTROL 2 #14 >> FSH-66.0904 CONTROL 2 #14 >> LSH-66.0903 CONTROL 8 #14 >> PMP-66.0901 CONTROL 8 #14 >> PMP-66.0902 CONTROL	S-25-474C C-25-471A C-25-473C C-25-476A C-25-477A
C-25-476A	25E10-05	0.75"	8	#14	XHHW-2	1	#14	XHHW-2	FR: PMP-66.0901 JUNCTION BOX TO: 8 #14 >> PMP-66.0901 CONTROL	C-25-473D
C-25-477A	25E10-05	0.75"	8	#14	XHHW-2	1	#14	XHHW-2	FR: PMP-66.0902 JUNCTION BOX TO: 8 #14 >> PMP-66.0902 CONTROL	C-25-473D
C-25-479A	25E10-05	0.75"	10	#14	XHHW-2	1	#14	XHHW-2	FR: VAL-66.0901F JUNCTION BOX TO: 10 #14 >> VAL-66.0901F CONTROL	S-25-474C
C-25-611A	25E10-02	0.75"	2 2	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: PMP-25.0101 JUNCTION BOX TO: 2 #14 >> TSH-25.0101 CONTROL 2 #12 >> MWH-25.0101 CONTROL	C-25-611E
C-25-611B	25E10-02	0.75"	10	#14	XHHW-2	1	#14	XHHW-2	FR: LCP-25.0101 JUNCTION BOX TO: 10 #14 >> PMP-25.0101 CONTROL	C-25-611E
C-25-611C	25E10-02	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: PSL-25.0101 JUNCTION BOX TO: 2 #14 >> PSL-25.0101 CONTROL	C-25-611E
C-25-611D	25E10-02	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: FSL-25.0101 JUNCTION BOX TO: 2 #14 >> FSL-25.0101 CONTROL	C-25-611E
C-25-611E	25E10-02 25E15-01	1"	2 16	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: JUNCTION BOX VFD-25.0101 TO: 2 #14 >> TSH-25.0101 CONTROL 2 #12 >> MWH-25.0101 CONTROL 10 #14 >> PMP-25.0101 CONTROL 2 #14 >> PSL-25.0101 CONTROL 2 #14 >> FSL-25.0101 CONTROL	C-25-611A C-25-611A C-25-611B C-25-611C C-25-611D
C-25-612A	25E10-02	1.5"	30	#14	XHHW-2	1	#14	XHHW-2	FR: CONTROL JUNCTION BOX CONDUIT TEE TO: 30 #14 >> RO TRAIN NO.1 CONTROLS	C-25-612B
C-25-612B	25E10-02 25E15-01	3"	120	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE PCM-25.0000 TO: 30 #14 >> RO TRAIN NO.4 CONTROLS 30 #14 >> RO TRAIN NO.3 CONTROLS 30 #14 >> RO TRAIN NO.2 CONTROLS 30 #14 >> RO TRAIN NO.1 CONTROLS	C-25-622B C-25-622B C-25-622B C-25-612A
C-25-616A	25E10-02	0.75"	2 2	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: PMP-25.0104 JUNCTION BOX TO: 2 #14 >> TSH-25.0104 CONTROL 2 #12 >> MWH-25.0104 CONTROL	C-25-616E
C-25-616B	25E10-02	0.75"	10	#14	XHHW-2	1	#14	XHHW-2	FR: LCP-25.0104 JUNCTION BOX TO: 10 #14 >> PMP-25.0104 CONTROL	C-25-616E

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CONDUIT SCHEDULE AREA 25										11/10/20
BRACKISH WATER DESALINATION PROJECT										
WATER TREATMENT PLANT										
CONDUIT			CONDUCTORS			GROUND				
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION	CONNECTING SEGMENTS
C-25-616C	25E10-02	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: PSL-25.0104 JUNCTION BOX TO: 2 #14 >> PSL-25.0104 CONTROL	C-25-616E
C-25-616D	25E10-02	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: FSL-25.0104 JUNCTION BOX TO: 2 #14 >> FSL-25.0104 CONTROL	C-25-616E
C-25-616E	25E10-02 25E15-01	1"	2 16	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: JUNCTION BOX VFD-25.0104 TO: 2 #14 >> TSH-25.0104 CONTROL 2 #12 >> MWH-25.0104 CONTROL 10 #14 >> PMP-25.0104 CONTROL 2 #14 >> PSL-25.0104 CONTROL 2 #14 >> FSL-25.0104 CONTROL	C-25-616A C-25-616A C-25-616B C-25-616C C-25-616D
C-25-618A	25E10-02	0.75"	10	#14	XHHW-2	1	#14	XHHW-2	FR: VAL-25.0101A CONDUIT TEE TO: 10 #14 >> VAL-25.0101A CONTROL	
C-25-619A	25E10-02	0.75"	10	#14	XHHW-2	1	#14	XHHW-2	FR: VAL-25.0101B CONDUIT TEE TO: 10 #14 >> VAL-25.0101B CONTROL	
C-25-619B	25E10-02	1.5"	20	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE CONDUIT TEE TO: 10 #14 >> VAL-25.0101A CONTROL 10 #14 >> VAL-25.0101B CONTROL	C-25-619C
C-25-619C	25E10-02 25E15-01	2"	80	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE PCM-25.0000 TO: 10 #14 >> VAL-25.0401A CONTROL 10 #14 >> VAL-25.0401B CONTROL 10 #14 >> VAL-25.0301A CONTROL 10 #14 >> VAL-25.0301B CONTROL 10 #14 >> VAL-25.0201A CONTROL 10 #14 >> VAL-25.0201B CONTROL 10 #14 >> VAL-25.0101A CONTROL 10 #14 >> VAL-25.0101B CONTROL	C-25-629C C-25-629C C-25-629C C-25-629C C-25-629C C-25-629C C-25-619B C-25-619B
C-25-621A	25E10-01	0.75"	2 2	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: PMP-25.0201 JUNCTION BOX TO: 2 #14 >> TSH-25.0201 CONTROL 2 #12 >> MWH-25.0201 CONTROL	C-25-621E
C-25-621B	25E10-01	0.75"	10	#14	XHHW-2	1	#14	XHHW-2	FR: LCP-25.0201 JUNCTION BOX TO: 10 #14 >> PMP-25.0201 CONTROL	C-25-621E
C-25-621C	25E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: PSL-25.0201 JUNCTION BOX TO: 2 #14 >> PSL-25.0201 CONTROL	C-25-621E
C-25-621D	25E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: FSL-25.0201 JUNCTION BOX TO: 2 #14 >> FSL-25.0201 CONTROL	C-25-621E
C-25-621E	25E10-01 25E10-02 25E15-01	1"	2 16	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: JUNCTION BOX VFD-25.0201 TO: 2 #14 >> TSH-25.0201 CONTROL 2 #12 >> MWH-25.0201 CONTROL 10 #14 >> PMP-25.0201 CONTROL 2 #14 >> PSL-25.0201 CONTROL 2 #14 >> FSL-25.0201 CONTROL	C-25-621A C-25-621A C-25-621B C-25-621C C-25-621D
C-25-622A	25E10-01	1.5"	30	#14	XHHW-2	1	#14	XHHW-2	FR: CONTROL JUNCTION BOX CONDUIT TEE TO: 30 #14 >> RO TRAIN NO.2 CONTROLS	C-25-622B
C-25-622B	25E10-01 25E10-02 25E15-01	2.5"	90	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE CONDUIT TEE TO: 30 #14 >> RO TRAIN NO.4 CONTROLS 30 #14 >> RO TRAIN NO.3 CONTROLS 30 #14 >> RO TRAIN NO.2 CONTROLS	C-25-612B C-25-632B C-25-632B C-25-622A
C-25-626A	25E10-01	0.75"	2 2	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: PMP-25.0204 JUNCTION BOX TO: 2 #14 >> TSH-25.0204 CONTROL 2 #12 >> MWH-25.0204 CONTROL	C-25-626E
C-25-626B	25E10-01	0.75"	10	#14	XHHW-2	1	#14	XHHW-2	FR: LCP-25.0204 JUNCTION BOX TO: 10 #14 >> PMP-25.0204 CONTROL	C-25-626E



						DESIGNED AB
						DRAWN BPR
						CHECKED JGB
						DATE SEPTEMBER 2020
1 REV	11-10-20 DATE	AB BY	REVISED PER ADDENDUM NO.4 DESCRIPTION			
1			2		3	

Digitally signed by Ashrita Banapurthi
DN: cn=Ashrita Banapurthi, o=Carollo Engineers, Inc.,
c=US, email=ashrita@carollo.com, serial=2020.11.10.1842242968



CITY OF ANTIOCH		
ANTIOCH BRACKISH WATER DESALINATION PROJECT		
ELECTRICAL		
WATER TREATMENT PLANT CONDUIT SCHEDULE - 6		

VERIFY SCALES	JOB NO. 10024A.10
BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	DRAWING NO. 25E05-06
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 283 OF 498

Plot Date: 10-NOV-2020 3:39:14 PM

User: svcPW

PlotScale: 1:1

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Std_Pen_v0905.pen

LAST SAVED BY: mpacheco

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<div><div><div>CONDUIT SCHEDULE AREA 25</div><div>BRACKISH WATER DESALINATION PROJECT</div><div>WATER TREATMENT PLANT</div><div><table><tr><th colspan="3">CONDUIT</th><th colspan="3">CONDUCTORS</th><th colspan="3">GROUND</th><th rowspan="2">DESCRIPTION</th><th rowspan="2">CONNECTING SEGMENTS</th></tr><tr><th>NUMBER</th><th>DWG</th><th>SIZE</th><th>#</th><th>SIZE</th><th>TYPE</th><th>#</th><th>SIZE</th><th>TYPE</th></tr><tr><td>C-25-626C</td><td>25E10-01</td><td>0.75"</td><td>2</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: PSL-25.0204 JUNCTION BOX TO: 2 #14 >> PSL-25.0204 CONTROL</td><td>C-25-626E</td></tr><tr><td>C-25-626D</td><td>25E10-01</td><td>0.75"</td><td>2</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: FSL-25.0204 JUNCTION BOX TO: 2 #14 >> FSL-25.0204 CONTROL</td><td>C-25-626E</td></tr><tr><td>C-25-626E</td><td>25E10-01 25E10-02 25E15-01</td><td>1"</td><td>2 16</td><td>#12 #14</td><td>XHHW-2 XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: JUNCTION BOX TO: VFD-25.0204 2 #14 >> TSH-25.0204 CONTROL 2 #12 >> MWH-25.0204 CONTROL 10 #14 >> PMP-25.0204 CONTROL 2 #14 >> PSL-25.0204 CONTROL 2 #14 >> FSL-25.0204 CONTROL</td><td>C-25-626A C-25-626A C-25-626B C-25-626C C-25-626D</td></tr><tr><td>C-25-628A</td><td>25E10-02</td><td>0.75"</td><td>10</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: VAL-25.0201A CONDUIT TEE TO: 10 #14 >> VAL-25.0201A CONTROL</td><td>C-25-629B</td></tr><tr><td>C-25-629A</td><td>25E10-02</td><td>0.75"</td><td>10</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: VAL-25.0201B CONDUIT TEE TO: 10 #14 >> VAL-25.0201B CONTROL</td><td></td></tr><tr><td>C-25-629B</td><td>25E10-02</td><td>1.5"</td><td>20</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONDUIT TEE TO: CONDUIT TEE 10 #14 >> VAL-25.0201A CONTROL 10 #14 >> VAL-25.0201B CONTROL</td><td>C-25-629B C-25-628A C-25-629B</td></tr><tr><td>C-25-629C</td><td>25E10-02</td><td>2"</td><td>60</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONDUIT TEE TO: CONDUIT TEE 10 #14 >> VAL-25.0401A CONTROL 10 #14 >> VAL-25.0401B CONTROL 10 #14 >> VAL-25.0301A CONTROL 10 #14 >> VAL-25.0301B CONTROL 10 #14 >> VAL-25.0201A CONTROL 10 #14 >> VAL-25.0201B CONTROL</td><td>C-25-619C C-25-639C C-25-639C C-25-639C C-25-639C C-25-629B C-25-629B</td></tr><tr><td>C-25-631A</td><td>25E10-01</td><td>0.75"</td><td>2 2</td><td>#12 #14</td><td>XHHW-2 XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: PMP-25.0301 JUNCTION BOX TO: 2 #14 >> TSH-25.0301 CONTROL 2 #12 >> MWH-25.0301 CONTROL</td><td>C-25-631E</td></tr><tr><td>C-25-631B</td><td>25E10-01</td><td>0.75"</td><td>10</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: LCP-25.0301 JUNCTION BOX TO: 10 #14 >> PMP-25.0301 CONTROL</td><td>C-25-631E</td></tr><tr><td>C-25-631C</td><td>25E10-01</td><td>0.75"</td><td>2</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: PSL-25.0301 JUNCTION BOX TO: 2 #14 >> PSL-25.0301 CONTROL</td><td>C-25-631E</td></tr><tr><td>C-25-631D</td><td>25E10-01</td><td>0.75"</td><td>2</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: FSL-25.0301 JUNCTION BOX TO: 2 #14 >> FSL-25.0301 CONTROL</td><td>C-25-631E</td></tr><tr><td>C-25-631E</td><td>25E10-01 25E10-02 25E15-01</td><td>1"</td><td>2 16</td><td>#12 #14</td><td>XHHW-2 XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: JUNCTION BOX TO: VFD-25.0301 2 #14 >> TSH-25.0301 CONTROL 2 #12 >> MWH-25.0301 CONTROL 10 #14 >> PMP-25.0301 CONTROL 2 #14 >> PSL-25.0301 CONTROL 2 #14 >> FSL-25.0301 CONTROL</td><td>C-25-631A C-25-631A C-25-631B C-25-631C C-25-631D</td></tr><tr><td>C-25-632A</td><td>25E10-01</td><td>1.5"</td><td>30</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONTROL JUNCTION BOX TO: RO TRAIN NO.3 CONTROLS 30 #14</td><td>C-25-632B</td></tr><tr><td>C-25-632B</td><td>25E10-01</td><td>2"</td><td>60</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONDUIT TEE TO: CONDUIT TEE 30 #14 >> RO TRAIN NO.4 CONTROLS 30 #14 >> RO TRAIN NO.3 CONTROLS</td><td>C-25-622B C-25-642A C-25-632A</td></tr><tr><td>C-25-636A</td><td>25E10-01</td><td>0.75"</td><td>2 2</td><td>#12 #14</td><td>XHHW-2 XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: PMP-25.0304 JUNCTION BOX TO: 2 #14 >> TSH-25.0304 CONTROL 2 #12 >> MWH-25.0304 CONTROL</td><td>C-25-636E</td></tr><tr><td>C-25-636B</td><td>25E10-01</td><td>0.75"</td><td>10</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: LCP-25.0304 JUNCTION BOX TO: 10 #14 >> PMP-25.0304 CONTROL</td><td>C-25-636E</td></tr></table></div></div></div>													CONDUIT			CONDUCTORS			GROUND			DESCRIPTION	CONNECTING SEGMENTS	NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	C-25-626C	25E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: PSL-25.0204 JUNCTION BOX TO: 2 #14 >> PSL-25.0204 CONTROL	C-25-626E	C-25-626D	25E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: FSL-25.0204 JUNCTION BOX TO: 2 #14 >> FSL-25.0204 CONTROL	C-25-626E	C-25-626E	25E10-01 25E10-02 25E15-01	1"	2 16	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: JUNCTION BOX TO: VFD-25.0204 2 #14 >> TSH-25.0204 CONTROL 2 #12 >> MWH-25.0204 CONTROL 10 #14 >> PMP-25.0204 CONTROL 2 #14 >> PSL-25.0204 CONTROL 2 #14 >> FSL-25.0204 CONTROL	C-25-626A C-25-626A C-25-626B C-25-626C C-25-626D	C-25-628A	25E10-02	0.75"	10	#14	XHHW-2	1	#14	XHHW-2	FR: VAL-25.0201A CONDUIT TEE TO: 10 #14 >> VAL-25.0201A CONTROL	C-25-629B	C-25-629A	25E10-02	0.75"	10	#14	XHHW-2	1	#14	XHHW-2	FR: VAL-25.0201B CONDUIT TEE TO: 10 #14 >> VAL-25.0201B CONTROL		C-25-629B	25E10-02	1.5"	20	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 10 #14 >> VAL-25.0201A CONTROL 10 #14 >> VAL-25.0201B CONTROL	C-25-629B C-25-628A C-25-629B	C-25-629C	25E10-02	2"	60	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 10 #14 >> VAL-25.0401A CONTROL 10 #14 >> VAL-25.0401B CONTROL 10 #14 >> VAL-25.0301A CONTROL 10 #14 >> VAL-25.0301B CONTROL 10 #14 >> VAL-25.0201A CONTROL 10 #14 >> VAL-25.0201B CONTROL	C-25-619C C-25-639C C-25-639C C-25-639C C-25-639C C-25-629B C-25-629B	C-25-631A	25E10-01	0.75"	2 2	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: PMP-25.0301 JUNCTION BOX TO: 2 #14 >> TSH-25.0301 CONTROL 2 #12 >> MWH-25.0301 CONTROL	C-25-631E	C-25-631B	25E10-01	0.75"	10	#14	XHHW-2	1	#14	XHHW-2	FR: LCP-25.0301 JUNCTION BOX TO: 10 #14 >> PMP-25.0301 CONTROL	C-25-631E	C-25-631C	25E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: PSL-25.0301 JUNCTION BOX TO: 2 #14 >> PSL-25.0301 CONTROL	C-25-631E	C-25-631D	25E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: FSL-25.0301 JUNCTION BOX TO: 2 #14 >> FSL-25.0301 CONTROL	C-25-631E	C-25-631E	25E10-01 25E10-02 25E15-01	1"	2 16	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: JUNCTION BOX TO: VFD-25.0301 2 #14 >> TSH-25.0301 CONTROL 2 #12 >> MWH-25.0301 CONTROL 10 #14 >> PMP-25.0301 CONTROL 2 #14 >> PSL-25.0301 CONTROL 2 #14 >> FSL-25.0301 CONTROL	C-25-631A C-25-631A C-25-631B C-25-631C C-25-631D	C-25-632A	25E10-01	1.5"	30	#14	XHHW-2	1	#14	XHHW-2	FR: CONTROL JUNCTION BOX TO: RO TRAIN NO.3 CONTROLS 30 #14	C-25-632B	C-25-632B	25E10-01	2"	60	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 30 #14 >> RO TRAIN NO.4 CONTROLS 30 #14 >> RO TRAIN NO.3 CONTROLS	C-25-622B C-25-642A C-25-632A	C-25-636A	25E10-01	0.75"	2 2	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: PMP-25.0304 JUNCTION BOX TO: 2 #14 >> TSH-25.0304 CONTROL 2 #12 >> MWH-25.0304 CONTROL	C-25-636E	C-25-636B	25E10-01	0.75"	10	#14	XHHW-2	1	#14	XHHW-2	FR: LCP-25.0304 JUNCTION BOX TO: 10 #14 >> PMP-25.0304 CONTROL	C-25-636E	<div><div><div>CONDUIT SCHEDULE AREA 25</div><div>BRACKISH WATER DESALINATION PROJECT</div><div>WATER TREATMENT PLANT</div><div><table><tr><th colspan="3">CONDUIT</th><th colspan="3">CONDUCTORS</th><th colspan="3">GROUND</th><th rowspan="2">DESCRIPTION</th><th rowspan="2">CONNECTING SEGMENTS</th></tr><tr><th>NUMBER</th><th>DWG</th><th>SIZE</th><th>#</th><th>SIZE</th><th>TYPE</th><th>#</th><th>SIZE</th><th>TYPE</th></tr><tr><td>C-25-636C</td><td>25E10-01</td><td>0.75"</td><td>2</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: PSL-25.0304 JUNCTION BOX TO: 2 #14 >> PSL-25.0304 CONTROL</td><td>C-25-636E</td></tr><tr><td>C-25-636D</td><td>25E10-01</td><td>0.75"</td><td>2</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: FSL-25.0304 JUNCTION BOX TO: 2 #14 >> FSL-25.0304 CONTROL</td><td>C-25-636E</td></tr><tr><td>C-25-636E</td><td>25E10-01 25E10-02 25E15-01</td><td>1"</td><td>2 16</td><td>#12 #14</td><td>XHHW-2 XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: JUNCTION BOX TO: VFD-25.0304 2 #14 >> TSH-25.0304 CONTROL 2 #12 >> MWH-25.0304 CONTROL 10 #14 >> PMP-25.0304 CONTROL 2 #14 >> PSL-25.0304 CONTROL 2 #14 >> FSL-25.0304 CONTROL</td><td>C-25-636A C-25-636A C-25-636B C-25-636C C-25-636D</td></tr><tr><td>C-25-638A</td><td>25E10-01</td><td>0.75"</td><td>10</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: VAL-25.0301A CONDUIT TEE TO: 10 #14 >> VAL-25.0301A CONTROL</td><td>C-25-639B</td></tr><tr><td>C-25-639A</td><td>25E10-01</td><td>0.75"</td><td>10</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: VAL-25.0301B CONDUIT TEE TO: 10 #14 >> VAL-25.0301B CONTROL</td><td>C-25-639B</td></tr><tr><td>C-25-639B</td><td>25E10-01</td><td>1.5"</td><td>20</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONDUIT TEE TO: CONDUIT TEE 10 #14 >> VAL-25.0301A CONTROL 10 #14 >> VAL-25.0301B CONTROL</td><td>C-25-639C C-25-638A C-25-639A</td></tr><tr><td>C-25-639C</td><td>25E10-01 25E10-02</td><td>1.5"</td><td>40</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONDUIT TEE TO: CONDUIT TEE 10 #14 >> VAL-25.0401A CONTROL 10 #14 >> VAL-25.0401B CONTROL 10 #14 >> VAL-25.0301A CONTROL 10 #14 >> VAL-25.0301B CONTROL</td><td>C-25-629C C-25-649B C-25-649B C-25-639B C-25-639B</td></tr><tr><td>C-25-641A</td><td>25E10-01</td><td>0.75"</td><td>2 2</td><td>#12 #14</td><td>XHHW-2 XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: PMP-25.0401 JUNCTION BOX TO: 2 #14 >> TSH-25.0401 CONTROL 2 #12 >> MWH-25.0401 CONTROL</td><td>C-25-641E</td></tr><tr><td>C-25-641B</td><td>25E10-01</td><td>0.75"</td><td>10</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: LCP-25.0401 JUNCTION BOX TO: 10 #14 >> PMP-25.0401 CONTROL</td><td>C-25-641E</td></tr><tr><td>C-25-641C</td><td>25E10-01</td><td>0.75"</td><td>2</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: PSL-25.0401 JUNCTION BOX TO: 2 #14 >> PSL-25.0401 CONTROL</td><td>C-25-641E</td></tr><tr><td>C-25-641D</td><td>25E10-01</td><td>0.75"</td><td>2</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: FSL-25.0401 JUNCTION BOX TO: 2 #14 >> FSL-25.0401 CONTROL</td><td>C-25-641E</td></tr><tr><td>C-25-641E</td><td>25E10-01 25E10-02 25E15-01</td><td>1"</td><td>2 16</td><td>#12 #14</td><td>XHHW-2 XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: JUNCTION BOX TO: VFD-25.0401 2 #14 >> TSH-25.0401 CONTROL 2 #12 >> MWH-25.0401 CONTROL 10 #14 >> PMP-25.0401 CONTROL 2 #14 >> PSL-25.0401 CONTROL 2 #14 >> FSL-25.0401 CONTROL</td><td>C-25-641A C-25-641A C-25-641B C-25-641C C-25-641D</td></tr><tr><td>C-25-642A</td><td>25E10-01</td><td>1.5"</td><td>30</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONTROL JUNCTION BOX TO: CONDUIT TEE 30 #14 >> RO TRAIN NO.4 CONTROLS</td><td>C-25-632B</td></tr><tr><td>C-25-646A</td><td>25E10-01</td><td>0.75"</td><td>2 2</td><td>#12 #14</td><td>XHHW-2 XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: PMP-25.0404 JUNCTION BOX TO: 2 #14 >> TSH-25.0404 CONTROL 2 #12 >> MWH-25.0404 CONTROL</td><td>C-25-646E</td></tr><tr><td>C-25-646B</td><td>25E10-01</td><td>0.75"</td><td>10</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: LCP-25.0404 JUNCTION BOX TO: 10 #14 >> PMP-25.0404 CONTROL</td><td>C-25-646E</td></tr><tr><td>C-25-646C</td><td>25E10-01</td><td>0.75"</td><td>2</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: PSL-25.0404 JUNCTION BOX TO: 2 #14 >> PSL-25.0404 CONTROL</td><td>C-25-646E</td></tr><tr><td>C-25-646D</td><td>25E10-01</td><td>0.75"</td><td>2</td><td>#14</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: FSL-25.0404 JUNCTION BOX TO: 2 #14 >> FSL-25.0404 CONTROL</td><td>C-25-646E</td></tr></table></div></div></div>	CONDUIT			CONDUCTORS			GROUND			DESCRIPTION	CONNECTING SEGMENTS	NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	C-25-636C	25E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: PSL-25.0304 JUNCTION BOX TO: 2 #14 >> PSL-25.0304 CONTROL	C-25-636E	C-25-636D	25E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: FSL-25.0304 JUNCTION BOX TO: 2 #14 >> FSL-25.0304 CONTROL	C-25-636E	C-25-636E	25E10-01 25E10-02 25E15-01	1"	2 16	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: JUNCTION BOX TO: VFD-25.0304 2 #14 >> TSH-25.0304 CONTROL 2 #12 >> MWH-25.0304 CONTROL 10 #14 >> PMP-25.0304 CONTROL 2 #14 >> PSL-25.0304 CONTROL 2 #14 >> FSL-25.0304 CONTROL	C-25-636A C-25-636A C-25-636B C-25-636C C-25-636D	C-25-638A	25E10-01	0.75"	10	#14	XHHW-2	1	#14	XHHW-2	FR: VAL-25.0301A CONDUIT TEE TO: 10 #14 >> VAL-25.0301A CONTROL	C-25-639B	C-25-639A	25E10-01	0.75"	10	#14	XHHW-2	1	#14	XHHW-2	FR: VAL-25.0301B CONDUIT TEE TO: 10 #14 >> VAL-25.0301B CONTROL	C-25-639B	C-25-639B	25E10-01	1.5"	20	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 10 #14 >> VAL-25.0301A CONTROL 10 #14 >> VAL-25.0301B CONTROL	C-25-639C C-25-638A C-25-639A	C-25-639C	25E10-01 25E10-02	1.5"	40	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 10 #14 >> VAL-25.0401A CONTROL 10 #14 >> VAL-25.0401B CONTROL 10 #14 >> VAL-25.0301A CONTROL 10 #14 >> VAL-25.0301B CONTROL	C-25-629C C-25-649B C-25-649B C-25-639B C-25-639B	C-25-641A	25E10-01	0.75"	2 2	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: PMP-25.0401 JUNCTION BOX TO: 2 #14 >> TSH-25.0401 CONTROL 2 #12 >> MWH-25.0401 CONTROL	C-25-641E	C-25-641B	25E10-01	0.75"	10	#14	XHHW-2	1	#14	XHHW-2	FR: LCP-25.0401 JUNCTION BOX TO: 10 #14 >> PMP-25.0401 CONTROL	C-25-641E	C-25-641C	25E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: PSL-25.0401 JUNCTION BOX TO: 2 #14 >> PSL-25.0401 CONTROL	C-25-641E	C-25-641D	25E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: FSL-25.0401 JUNCTION BOX TO: 2 #14 >> FSL-25.0401 CONTROL	C-25-641E	C-25-641E	25E10-01 25E10-02 25E15-01	1"	2 16	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: JUNCTION BOX TO: VFD-25.0401 2 #14 >> TSH-25.0401 CONTROL 2 #12 >> MWH-25.0401 CONTROL 10 #14 >> PMP-25.0401 CONTROL 2 #14 >> PSL-25.0401 CONTROL 2 #14 >> FSL-25.0401 CONTROL	C-25-641A C-25-641A C-25-641B C-25-641C C-25-641D	C-25-642A	25E10-01	1.5"	30	#14	XHHW-2	1	#14	XHHW-2	FR: CONTROL JUNCTION BOX TO: CONDUIT TEE 30 #14 >> RO TRAIN NO.4 CONTROLS	C-25-632B	C-25-646A	25E10-01	0.75"	2 2	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: PMP-25.0404 JUNCTION BOX TO: 2 #14 >> TSH-25.0404 CONTROL 2 #12 >> MWH-25.0404 CONTROL	C-25-646E	C-25-646B	25E10-01	0.75"	10	#14	XHHW-2	1	#14	XHHW-2	FR: LCP-25.0404 JUNCTION BOX TO: 10 #14 >> PMP-25.0404 CONTROL	C-25-646E	C-25-646C	25E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: PSL-25.0404 JUNCTION BOX TO: 2 #14 >> PSL-25.0404 CONTROL	C-25-646E	C-25-646D	25E10-01	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: FSL-25.0404 JUNCTION BOX TO: 2 #14 >> FSL-25.0404 CONTROL	C-25-646E
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Plot Date: 10-NOV-2020 3:39:16 PM

User: svcPW

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo Std Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: mpacheco

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<div><div><div>CONDUIT SCHEDULE AREA 25</div><div>BRACKISH WATER DESALINATION PROJECT</div><div>WATER TREATMENT PLANT</div><div><div><div><div>CONDUIT</div><div>CONDUCTORS</div><div>GROUND</div></div><div><div>NUMBER</div><div>DWG</div><div>SIZE</div><div>#</div><div>SIZE</div><div>TYPE</div><div>#</div><div>SIZE</div><div>TYPE</div><div>DESCRIPTION</div><div>CONNECTING SEGMENTS</div></div></div><div><div><div>C-25-646E</div><div>25E10-01 25E10-02 25E15-01</div><div>1"</div><div>2 16</div><div>#12 #14</div><div>XHHW-2 XHHW-2</div><div>1</div><div>#12</div><div>XHHW-2</div><div>FR: TO:</div><div>2 #14 2 #12 10 #14 2 #14 2 #14</div><div>JUNCTION BOX VFD-25.0404 >> TSH-25.0404 CONTROL >> MWH-25.0404 CONTROL >> PMP-25.0404 CONTROL >> PSL-25.0404 CONTROL >> FSL-25.0404 CONTROL</div><div>C-25-646A C-25-646A C-25-646B C-25-646C C-25-646D</div></div><div><div><div>C-25-648A</div><div>25E10-01</div><div>0.75"</div><div>10</div><div>#14</div><div>XHHW-2</div><div>1</div><div>#14</div><div>XHHW-2</div><div>FR: TO:</div><div>10 #14</div><div>VAL-25.0401A CONDUIT TEE >> VAL-25.0401A CONTROL</div><div>C-25-649B</div></div><div><div><div>C-25-649A</div><div>25E10-01</div><div>0.75"</div><div>10</div><div>#14</div><div>XHHW-2</div><div>1</div><div>#14</div><div>XHHW-2</div><div>FR: TO:</div><div>10 #14</div><div>VAL-25.0401B CONDUIT TEE >> VAL-25.0401B CONTROL</div><div>C-25-649B</div></div><div><div><div>C-25-649B</div><div>25E10-01</div><div>1.5"</div><div>20</div><div>#14</div><div>XHHW-2</div><div>1</div><div>#14</div><div>XHHW-2</div><div>FR: TO:</div><div>10 #14 10 #14 10 #14</div><div>CONDUIT TEE CONDUIT TEE >> VAL-25.0401A CONTROL >> VAL-25.0401B CONTROL</div><div>C-25-639C C-25-648A C-25-649A</div></div><div><div><div>C-25-666A</div><div>25E15-03 25E15-01</div><div>0.75"</div><div>10</div><div>#14</div><div>XHHW-2</div><div>1</div><div>#14</div><div>XHHW-2</div><div>FR: TO:</div><div>10 #14</div><div>ARC-25.0005 PCM-25.0000 >> ARC-25.0005 CONTROL</div><div></div></div><div><div><div>C-25-691A</div><div>25E15-03 25E15-02</div><div>0.75"</div><div>10</div><div>#14</div><div>XHHW-2</div><div>1</div><div>#14</div><div>XHHW-2</div><div>FR: TO:</div><div>10 #14</div><div>AHU-79.3101 PCM-25.0000 >> AHU-79.3101 CONTROL</div><div></div></div><div><div><div>C-25-691B</div><div>25E15-03 25E15-02</div><div>0.75"</div><div>4</div><div>#14</div><div>XHHW-2</div><div>1</div><div>#14</div><div>XHHW-2</div><div>FR: TO:</div><div>2 #14 2 #14 2 #14</div><div>CONDUIT TEE AHU-79.3101 >> T-79.3101 CONTROL >> XS-79.3101 CONTROL</div><div>C-25-691C C-25-691D</div></div><div><div><div>C-25-691C</div><div>25E15-02</div><div>0.75"</div><div>2</div><div>#14</div><div>XHHW-2</div><div>1</div><div>#14</div><div>XHHW-2</div><div>FR: TO:</div><div>2 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CONTROL</div><div>P-25-699C</div></div><div><div><div>C-25-696A</div><div>25E10-03</div><div>0.75"</div><div>10</div><div>#14</div><div>XHHW-2</div><div>1</div><div>#14</div><div>XHHW-2</div><div>FR: TO:</div><div>10 #14</div><div>LCP-79.3106 JUNCTION BOX >> LCP-79.3106 CONTROL</div><div>P-25-698C</div></div><div><div><div>C-25-696B</div><div>25E10-03</div><div>0.75"</div><div>2</div><div>#14</div><div>XHHW-2</div><div>1</div><div>#14</div><div>XHHW-2</div><div>FR: TO:</div><div>2 #14</div><div>T-79.3106 JUNCTION BOX >> T-79.3106 CONTROL</div><div>P-25-698C</div></div><div><div><div>C-25-696C</div><div>25E10-03</div><div>0.75"</div><div>2</div><div>#14</div><div>XHHW-2</div><div>1</div><div>#14</div><div>XHHW-2</div><div>FR: TO:</div><div>2 #14</div><div>XS-79.3106 JUNCTION BOX >> XS-79.3106 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<div><div><div>CONDUIT SCHEDULE AREA 25</div><div>BRACKISH WATER DESALINATION PROJECT</div><div>WATER TREATMENT PLANT</div><div><div><div><div>CONDUIT</div><div>CONDUCTORS</div><div>GROUND</div></div><div><div>NUMBER</div><div>DWG</div><div>SIZE</div><div>#</div><div>SIZE</div><div>TYPE</div><div>#</div><div>SIZE</div><div>TYPE</div><div>DESCRIPTION</div><div>CONNECTING SEGMENTS</div></div></div><div><div><div>C-25-699B</div><div>25E10-03</div><div>0.75"</div><div>2</div><div>#14</div><div>XHHW-2</div><div>1</div><div>#14</div><div>XHHW-2</div><div>FR: TO:</div><div>2 #14</div><div>T-79.3109 JUNCTION BOX >> T-79.3109 CONTROL</div><div>P-25-699C</div></div><div><div><div>C-25-700A</div><div>25E10-01</div><div>0.75"</div><div>10</div><div>#14</div><div>XHHW-2</div><div>1</div><div>#14</div><div>XHHW-2</div><div>FR: TO:</div><div>10 #14</div><div>LCP-79.3110 JUNCTION BOX >> LCP-79.3110 CONTROL</div><div>P-25-700C</div></div><div><div><div>C-25-700B</div><div>25E10-01</div><div>0.75"</div><div>2</div><div>#14</div><div>XHHW-2</div><div>1</div><div>#14</div><div>XHHW-2</div><div>FR: TO:</div><div>2 #14</div><div>T-79.3110 JUNCTION BOX >> T-79.3110 CONTROL</div><div>P-25-700C</div></div><div><div><div>C-25-750A</div><div>25E10-02</div><div>0.75"</div><div>10</div><div>#14</div><div>XHHW-2</div><div>1</div><div>#14</div><div>XHHW-2</div><div>FR: TO:</div><div>10 #14</div><div>VAL-25.0903E CONDUIT TEE >> VAL-25.0903E CONTROL</div><div>C-25-753B</div></div><div><div><div>C-25-751A</div><div>25E10-02</div><div>0.75"</div><div>10</div><div>#14</div><div>XHHW-2</div><div>1</div><div>#14</div><div>XHHW-2</div><div>FR: TO:</div><div>10 #14</div><div>VAL-25.0007A CONDUIT TEE >> VAL-25.0007A CONTROL</div><div>C-25-751B</div></div><div><div><div>C-25-751B</div><div>25E10-02</div><div>1.5"</div><div>40</div><div>#14</div><div>XHHW-2</div><div>1</div><div>#14</div><div>XHHW-2</div><div>FR: TO:</div><div>10 #14 10 #14 10 #14 10 #14</div><div>CONDUIT TEE CONDUIT TEE >> VAL-25.0903E CONTROL >> VAL-25.0903A CONTROL >> VAL-25.0008A CONTROL >> VAL-25.0007A CONTROL</div><div>C-25-751C C-25-752C C-25-752C C-25-752C C-25-751A</div></div><div><div><div>C-25-751C</div><div>25E10-02</div><div>2"</div><div>2 50 5</div><div>#12 #14 2/CS-#16</div><div>XHHW-2 XHHW-2</div><div>1</div><div>#12</div><div>XHHW-2</div><div>FR: TO:</div><div>2 #12 1 2/CS-#16 1 2/CS-#16 1 2/CS-#16 1 2/CS-#16 10 #14 1 2/CS-#16 10 #14 10 #14 10 #14</div><div>CONDUIT TEE PCM-25.0000 >> FIT-71.5001 POWER >> FIT-71.5001 SIGNAL >> PIT-71.5001 SIGNAL >> PIT-71.5005 SIGNAL >> PIT-71.5006 SIGNAL >> VAL-71.5002 CONTROL >> PIT-71.5007 SIGNAL >> VAL-25.0903E CONTROL >> VAL-25.0903A CONTROL >> VAL-25.0008A CONTROL >> VAL-25.0007A CONTROL</div><div>S-25-772D S-25-772D S-25-772D S-25-772D S-25-772D S-25-772D S-25-772D S-25-751B C-25-751B C-25-751B C-25-751B C-25-751B</div></div><div><div><div>C-25-752A</div><div>25E10-02</div><div>0.75"</div><div>10</div><div>#14</div><div>XHHW-2</div><div>1</div><div>#14</div><div>XHHW-2</div><div>FR: TO:</div><div>10 #14</div><div>VAL-25.0008A CONDUIT TEE >> VAL-25.0008A CONTROL</div><div>C-25-752B</div></div><div><div><div>C-25-752B</div><div>25E10-02</div><div>1.5"</div><div>30</div><div>#14</div><div>XHHW-2</div><div>1</div><div>#14</div><div>XHHW-2</div><div>FR: TO:</div><div>10 #14 10 #14 10 #14</div><div>CONDUIT TEE CONDUIT TEE >> VAL-25.0903E CONTROL >> VAL-25.0903A CONTROL >> VAL-25.0008A CONTROL</div><div>C-25-753B C-25-753B C-25-752A</div></div><div><div><div>C-25-753A</div><div>25E10-02</div><div>0.75"</div><div>10</div><div>#14</div><div>XHHW-2</div><div>1</div><div>#14</div><div>XHHW-2</div><div>FR: TO:</div><div>10 #14</div><div>VAL-25.0903A CONDUIT TEE >> VAL-25.0903A CONTROL</div><div>C-25-753B</div></div><div><div><div>C-25-753B</div><div>25E10-02</div><div>1.5"</div><div>20</div><div>#14</div><div>XHHW-2</div><div>1</div><div>#14</div><div>XHHW-2</div><div>FR: TO:</div><div>10 #14 10 #14</div><div>CONDUIT TEE CONDUIT TEE >> VAL-25.0903E CONTROL >> VAL-25.0903A CONTROL</div><div>C-25-752B C-25-750A C-25-753A</div></div><div><div><div>C-25-756A</div><div>25E10-02</div><div>1"</div><div>15</div><div>#14</div><div>XHHW-2</div><div>1</div><div>#14</div><div>XHHW-2</div><div>FR: TO:</div><div>15 #14</div><div>VCP-25.0013 CONDUIT TEE >> VCP-25.0013 CONTROL</div><div>C-25-757B</div></div><div><div><div>C-25-757A</div><div>25E10-02</div><div>1"</div><div>15</div><div>#14</div><div>XHHW-2</div><div>1</div><div>#14</div><div>XHHW-2</div><div>FR: TO:</div><div>15 #14</div><div>VCP-25.0014 CONDUIT TEE >> VCP-25.0014 CONTROL</div><div>C-25-757B</div></div><div><div><div>C-25-757B</div><div>25E10-02</div><div>1.5"</div><div>30</div><div>#14</div><div>XHHW-2</div><div>1</div><div>#14</div><div>XHHW-2</div><div>FR: TO:</div><div>15 #14 15 #14</div><div>CONDUIT TEE CONDUIT TEE >> VCP-25.0013 CONTROL >> VCP-25.0014 CONTROL</div><div>C-25-767D C-25-756A C-25-757A</div></div><div><div><div>C-25-758A</div><div>25E10-02 25E15-01</div><div>0.75"</div><div>2</div><div>#14</div><div>XHHW-2</div><div>1</div><div>#14</div><div>XHHW-2</div><div>FR: TO:</div><div>2 #14</div><div>LE-25.0019 PCM-25.0000 >> LE-25.0019 CONTROL</div><div></div></div><div><div><div>C-25-761A</div><div>25E10-02</div><div>0.75"</div><div>10</div><div>#14</div><div>XHHW-2</div><div>1</div><div>#14</div><div>XHHW-2</div><div>FR: TO:</div><div>10 #14</div><div>LCP-25.0903 JUNCTION BOX >> LCP-25.0903 CONTROL</div><div>C-25-761C</div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div></div>												
<div><div><div>CONDUIT SCHEDULE AREA 25</div><div>BRACKISH WATER DESALINATION PROJECT</div><div>WATER TREATMENT PLANT</div><div><div><div><div>CONDUIT</div><div>CONDUCTORS</div><div>GROUND</div></div><div><div>NUMBER</div><div>DWG</div><div>SIZE</div><div>#</div><div>SIZE</div><div>TYPE</div><div>#</div><div>SIZE</div><div>TYPE</div><div>DESCRIPTION</div><div>CONNECTING SEGMENTS</div></div></div><div><div><div>C-25-646E</div><div>25E10-01 25E10-02 25E15-01</div><div>1"</div><div>2 16</div><div>#12 #14</div><div>XHHW-2 XHHW-2</div><div>1</div><div>#12</div><div>XHHW-2</div><div>FR: TO:</div><div>2 #14 2 #12 10 #14 2 #14 2 #14</div><div>JUNCTION BOX VFD-25.0404 >> TSH-25.0404 CONTROL >> MWH-25.0404 CONTROL >> PMP-25.0404 CONTROL >> PSL-25.0404 CONTROL >> FSL-25.0404 CONTROL</div><div>C-25-646A C-25-646A C-25-646B C-25-646C C-25-646D</div></div><div><div><div>C-25-648A</div><div>25E10-01</div><div>0.75"</div><div>10</div><div>#14</div><div>XHHW-2</div><div>1</div><div>#14</div><div>XHHW-2</div><div>FR: TO:</div><div>10 #14</div><div>VAL-25.0401A CONDUIT TEE >> VAL-25.0401A CONTROL</div><div>C-25-649B</div></div><div><div><div>C-25-649A</div><div>25E10-01</div><div>0.75"</div><div>10</div><div>#14</div><div>XHHW-2</div><div>1</div><div>#14</div><div>XHHW-2</div><div>FR: TO:</div><div>10 #14</div><div>VAL-25.0401B CONDUIT TEE >> VAL-25.0401B CONTROL</div><div>C-25-649B</div></div></div></div></div></div></div></div>												

Plot Date: 10-NOV-2020 3:39:18 PM
User: svcPW
Model: Layout1
ColorTable: gshade.ctb
DesignScript: Carollo_Std_Pen_v0905.pen
PlotScale: 1:1
LAST SAVED BY: mpacheco

	2	3	4	5	6	7	8	9	10	11	12	13
CONDUIT SCHEDULE AREA 25 BRACKISH WATER DESALINATION PROJECT WATER TREATMENT PLANT												
11/10/20												
CONDUIT			CONDUCTORS			GROUND						
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION	CONNECTING SEGMENTS		
C-25-761B	25E10-02	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: PSH-25.0903 TO: JUNCTION BOX 2 #14 >> PSH-25.0903 CONTROL	C-25-761C		
C-25-761C	25E10-02	1"	2 14	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: JUNCTION BOX TO: CONDUIT TEE 10 #14 >> LCP-25.0903 CONTROL 2 #14 >> PSH-25.0903 CONTROL 2 #12 >> MWH-25.0903 POWER 2 #14 >> TSH-25.0903 CONTROL	C-25-766C C-25-761A C-25-761B P-25-761A P-25-761A		
C-25-761D	25E10-02	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: FSH-25.0017 TO: CONDUIT TEE 2 #14 >> FSH-25.0017 SIGNAL	S-25-761E		
C-25-766A	25E10-02	0.75"	10	#14	XHHW-2	1	#14	XHHW-2	FR: LCP-25.0011 TO: JUNCTION BOX 10 #14 >> LCP-25.0011 CONTROL	C-25-766B		
C-25-766B	25E10-02	1"	2 12	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: JUNCTION BOX TO: CONDUIT TEE 10 #14 >> LCP-25.0011 CONTROL 2 #12 >> MWH-25.0011 POWER 2 #14 >> TSH-25.0011 CONTROL	C-25-766C C-25-766A P-25-766A P-25-766A		
C-25-766C	25E10-02 25E15-01	1.5"	4 26	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE TO: MCC-C1 10 #14 >> LCP-25.0903 CONTROL 2 #14 >> PSH-25.0903 CONTROL 2 #12 >> MWH-25.0903 POWER 2 #14 >> TSH-25.0903 CONTROL 10 #14 >> LCP-25.0011 CONTROL 2 #12 >> MWH-25.0011 POWER 2 #14 >> TSH-25.0011 CONTROL	C-25-761C C-25-761C C-25-761C C-25-761C C-25-766B C-25-766B C-25-766B		
C-25-767A	25E10-02	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: FSL-25.0011 TO: CONDUIT TEE 2 #14 >> FSL-25.0011 CONTROL	C-25-767C		
C-25-767B	25E10-02	0.75"	2	#14	XHHW-2	1	#14	XHHW-2	FR: PSL-25.0011 TO: CONDUIT TEE 2 #14 >> PSL-25.0011 CONTROL	C-25-767C		
C-25-767C	25E10-02	0.75"	4	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 2 #14 >> FSL-25.0011 CONTROL 2 #14 >> PSL-25.0011 CONTROL	C-25-767D C-25-767A C-25-767B		
C-25-767D	25E10-02 25E15-01	1.5"	34	#14	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: PCM-25.0000 15 #14 >> VCP-25.0013 CONTROL 15 #14 >> VCP-25.0014 CONTROL 2 #14 >> FSL-25.0011 CONTROL 2 #14 >> PSL-25.0011 CONTROL	C-25-757B C-25-757B C-25-767C C-25-767C		
C-25-772A	25E10-02	0.75"	10	#14	XHHW-2	1	#14	XHHW-2	FR: VAL-71.5002 TO: CONDUIT TEE 10 #14 >> VAL-71.5002 CONTROL	S-25-772B		
C-25-772C	25E10-02	0.75"	10	#14	XHHW-2	1	#14	XHHW-2	FR: VAL-71.5002 TO: LCP-71.5002 10 #14 >> VAL-71.5002 CONTROL			
C-25-811A	25E10-02 25E10-03	2"	1	MFR	CABLE	1	#14	XHHW-2	FR: SWGR-C1 TO: MAIN PANEL 1 MFR >> XFMR DIFFERENTIAL CONTROL			
C-25-816A	25E10-02 25E10-03	2"	1	PULL	ROPE				FR: SWGR-C2 TO: MAIN PANEL 1 PULL >> SPARE			
L-25-115A	25E10-10	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: FIT-24.0104B TO: CONDUIT TEE 2 #12 >> FIT-24.0104B POWER	L-25-115B		
L-25-115B	25E10-10	1"	10	#12	XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE TO: JUNCTION BOX 2 #12 >> FIT-24.0704A POWER 2 #12 >> FIT-24.0504B POWER 2 #12 >> AIT-24.0001 POWER 2 #12 >> FIT-24.0304A POWER 2 #12 >> FIT-24.0104B POWER	L-25-125C L-25-136B L-25-136B L-25-136B L-25-136B L-25-115A		

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CONDUIT SCHEDULE AREA 25 BRACKISH WATER DESALINATION PROJECT WATER TREATMENT PLANT												
11/10/20												
CONDUIT			CONDUCTORS			GROUND						
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION	CONNECTING SEGMENTS		
L-25-125A	25E10-10	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: FIT-24.0204B TO: CONDUIT TEE 2 #12 >> FIT-24.0204B POWER	L-25-125B		
L-25-125B	25E10-10	1"	10	#12	XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE TO: JUNCTION BOX 2 #12 >> FIT-24.0804A POWER 2 #12 >> FIT-24.0604B POWER 2 #12 >> AIT-24.0002 POWER 2 #12 >> FIT-24.0404A POWER 2 #12 >> FIT-24.0204B POWER	L-25-125C L-25-146B L-25-146B L-25-146B L-25-146B L-25-125A		
L-25-125C	25E01-03 25E10-07	1.5"	20	#12	XHHW-2	1	#12	XHHW-2	FR: JUNCTION BOX TO: PCM-25.00001 2 #12 >> FIT-24.0704A POWER 2 #12 >> FIT-24.0504B POWER 2 #12 >> AIT-24.0001 POWER 2 #12 >> FIT-24.0304A POWER 2 #12 >> FIT-24.0104B POWER 2 #12 >> FIT-24.0804A POWER 2 #12 >> FIT-24.0604B POWER 2 #12 >> AIT-24.0002 POWER 2 #12 >> FIT-24.0404A POWER 2 #12 >> FIT-24.0204B POWER	L-25-115B L-25-115B L-25-115B L-25-115B L-25-115B L-25-125B L-25-125B L-25-125B L-25-125B L-25-125B		
L-25-136A	25E10-10	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: FIT-24.0304A TO: CONDUIT TEE 2 #12 >> FIT-24.0304A POWER	L-25-136B		
L-25-136B	25E10-10	0.75"	8	#12	XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 2 #12 >> FIT-24.0704A POWER 2 #12 >> FIT-24.0504B POWER 2 #12 >> AIT-24.0001 POWER 2 #12 >> FIT-24.0304A POWER	L-25-115B L-25-157B L-25-157B L-25-157B L-25-136A		
L-25-146A	25E10-10	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: FIT-24.0404A TO: CONDUIT TEE 2 #12 >> FIT-24.0404A POWER	L-25-146B		
L-25-146B	25E10-10	0.75"	8	#12	XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 2 #12 >> FIT-24.0804A POWER 2 #12 >> FIT-24.0604B POWER 2 #12 >> AIT-24.0002 POWER 2 #12 >> FIT-24.0404A POWER	L-25-125B L-25-167B L-25-167B L-25-167B L-25-146A		
L-25-155A	25E10-10	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: FIT-24.0504B TO: CONDUIT TEE 2 #12 >> FIT-24.0504B POWER	L-25-155B		
L-25-155B	25E10-10	0.75"	4	#12	XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 2 #12 >> FIT-24.0704A POWER 2 #12 >> FIT-24.0504B POWER	L-25-157B L-25-176A L-25-155A		
L-25-157A	25E10-10	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: AIT-24.0001 TO: CONDUIT TEE 2 #12 >> AIT-24.0001 POWER	L-25-157B		
L-25-157B	25E10-10	0.75"	6	#12	XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 2 #12 >> FIT-24.0704A POWER 2 #12 >> FIT-24.0504B POWER 2 #12 >> AIT-24.0001 POWER	L-25-136B L-25-155B L-25-155B L-25-157A		
L-25-165A	25E10-10	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: FIT-24.0604B TO: CONDUIT TEE 2 #12 >> FIT-24.0604B POWER	L-25-165B		
L-25-165B	25E10-10	0.75"	4	#12	XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 2 #12 >> FIT-24.0804A POWER 2 #12 >> FIT-24.0604B POWER	L-25-167B L-25-186A L-25-165A		
L-25-167A	25E10-10	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: AIT-24.0002 TO: CONDUIT TEE 2 #12 >> AIT-24.0002 POWER	L-25-167B		

CONDUIT SCHEDULE AREA 25											11/10/20
BRACKISH WATER DESALINATION PROJECT											
WATER TREATMENT PLANT											
CONDUIT			CONDUCTORS			GROUND					
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION	CONNECTING SEGMENTS	
L-25-125A	25E10-10	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 FIT-24.0204B CONDUIT TEE >> FIT-24.0204B POWER	L-25-125B	
L-25-125B	25E10-10	1"	10	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 >> FIT-24.0804A POWER L-25-146B 2 #12 >> FIT-24.0604B POWER L-25-146B 2 #12 >> AIT-24.0002 POWER L-25-146B 2 #12 >> FIT-24.0404A POWER L-25-146B 2 #12 >> FIT-24.0204B POWER L-25-125A	L-25-125C	
L-25-125C	25E01-03 25E10-07	1.5"	20	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 >> FIT-24.0704A POWER L-25-115B 2 #12 >> FIT-24.0504B POWER L-25-115B 2 #12 >> AIT-24.0001 POWER L-25-115B 2 #12 >> FIT-24.0304A POWER L-25-115B 2 #12 >> FIT-24.0104B POWER L-25-115B 2 #12 >> FIT-24.0804A POWER L-25-125B 2 #12 >> FIT-24.0604B POWER L-25-125B 2 #12 >> AIT-24.0002 POWER L-25-125B 2 #12 >> FIT-24.0404A POWER L-25-125B 2 #12 >> FIT-24.0204B POWER L-25-125B		
L-25-136A	25E10-10	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 FIT-24.0304A CONDUIT TEE >> FIT-24.0304A POWER	L-25-136B	
L-25-136B	25E10-10	0.75"	8	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 >> FIT-24.0704A POWER L-25-157B 2 #12 >> FIT-24.0504B POWER L-25-157B 2 #12 >> AIT-24.0001 POWER L-25-157B 2 #12 >> FIT-24.0304A POWER L-25-136A	L-25-115B	
L-25-146A	25E10-10	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 FIT-24.0404A CONDUIT TEE >> FIT-24.0404A POWER	L-25-146B	
L-25-146B	25E10-10	0.75"	8	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 >> FIT-24.0804A POWER L-25-167B 2 #12 >> FIT-24.0604B POWER L-25-167B 2 #12 >> AIT-24.0002 POWER L-25-167B 2 #12 >> FIT-24.0404A POWER L-25-146A	L-25-125B	
L-25-155A	25E10-10	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 FIT-24.0504B CONDUIT TEE >> FIT-24.0504B POWER	L-25-155B	
L-25-155B	25E10-10	0.75"	4	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 >> FIT-24.0704A POWER L-25-176A 2 #12 >> FIT-24.0504B POWER L-25-155A	L-25-157B	
L-25-157A	25E10-10	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 AIT-24.0001 CONDUIT TEE >> AIT-24.0001 POWER	L-25-157B	
L-25-157B	25E10-10	0.75"	6	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 >> FIT-24.0704A POWER L-25-155B 2 #12 >> FIT-24.0504B POWER L-25-155B 2 #12 >> AIT-24.0001 POWER L-25-157A	L-25-136B	
L-25-165A	25E10-10	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 FIT-24.0604B CONDUIT TEE >> FIT-24.0604B POWER	L-25-165B	
L-25-165B	25E10-10	0.75"	4	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 >> FIT-24.0804A POWER L-25-186A 2 #12 >> FIT-24.0604B POWER L-25-165A	L-25-167B	
L-25-167A	25E10-10	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 AIT-24.0002 CONDUIT TEE >> AIT-24.0002 POWER	L-25-167B	



				DESIGNED AB	<div><div>Digitally signed by Ashrita Banapuram Contact Info: Carollo Engineers, Inc. Date: 2020.11.10 16:45:40 -0800</div><div></div></div>	<div><div>REGISTERED PROFESSIONAL ENGINEER ASHRITA BANAPURAM No. 21815 ELECTRICAL STATE OF CALIFORNIA</div></div>	<div></div>	<div></div>	CITY OF ANTIOCH			VERIFY SCALES	JOB 10024
				DRAWN BPR					ANTIOCH BRACKISH WATER DESALINATION PROJECT			BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.
				CHECKED JGB					ELECTRICAL			0	25E05-09
<div><div>1</div><div>REV</div></div>	11-10-20	AB	REVISED PER ADDENDUM NO.4	DATE SEPTEMBER 2020					WATER TREATMENT PLANT CONDUIT SCHEDULE - 9			IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 286 OF 498

1

2

3

4

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CONDUIT SCHEDULE AREA 25

11/10/20

BRACKISH WATER DESALINATION PROJECT

WATER TREATMENT PLANT

CONDUIT			CONDUCTORS			GROUND					
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE		DESCRIPTION	CONNECTING SEGMENTS
L-25-167B	25E10-10	0.75"	6	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 2 #12 2 #12	CONDUIT TEE CONDUIT TEE >> FIT-24.0804A POWER >> FIT-24.0604B POWER >> AIT-24.0002 POWER	L-25-146B L-25-165B L-25-165B L-25-167A
L-25-176A	25E10-10	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	FIT-24.0704A CONDUIT TEE >> FIT-24.0704A POWER	L-25-155B
L-25-186A	25E10-10	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	FIT-24.0804A CONDUIT TEE >> FIT-24.0804A POWER	L-25-165B
L-25-191A	25E10-11	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	AIT-24.0003 JUNCTION BOX >> AIT-24.0003 POWER	L-25-192B
L-25-192A	25E10-11	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	AIT-24.0004 JUNCTION BOX >> AIT-24.0004 POWER	L-25-192B
L-25-192B	25E10-11	0.75"	6	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 2 #12 2 #12	JUNCTION BOX PULLBOX >> AIT-24.0003 POWER >> AIT-24.0004 POWER >> AIT-26.0401F POWER	L-25-322C L-25-191A L-25-192A L-25-193A
L-25-193A	25E10-11	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	AIT-26.0401F JUNCTION BOX >> AIT-26.0401F POWER	L-25-192B
L-25-194A	25E10-11	0.75"	2	#6	XHHW-2	1	#6	XHHW-2	FR: TO: 2 #6	PMP-24.0002 DISCONNECT >> PMP-24.0002 POWER	
L-25-194B	25E10-11 25E01-03	1"	2	#6	XHHW-2	1	#6	XHHW-2	FR: TO: 2 #6	DISCONNECT PULLBOX >> PMP-24.0002 POWER	L-25-301C
L-25-201A	25E10-06 25E10-07	1"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	FIT-25.0001A PCM-25.0001 >> FIT-25.0001A POWER	
L-25-202A	25E10-06 25E10-07	1"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	FIT-25.0002A PCM-25.0001 >> FIT-25.0002A POWER	
L-25-203A	25E10-06 25E10-07	1"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	FIT-25.0003A PCM-25.0001 >> FIT-25.0003A POWER	
L-25-204A	25E10-06 25E10-07	1"	1	PULL	ROPE				FR: TO: 1 PULL	FUTURE FIT PCM-25.0001 >> SPARE	
L-25-211A	25E10-06	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	FIT-25.0001B PCM-25.0001 >> FIT-25.0001B POWER	
L-25-213A	25E10-06 25E10-07	1"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	AIT-25.0006B PCM-25.0001 >> AIT-25.0006B POWER	
L-25-214A	25E01-02 25E10-06 25E10-07	1"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	AIT-25.0006A PCM-25.0001 >> AIT-25.0006A POWER	
L-25-225A	25E10-07	0.75"	4	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 2 #12	HEAT TRACING PANEL MPC-F1 >> NAOH HEAT TRACE PANEL >> NAHSO3 HEAT TRACE PANEL	
L-25-226A	25E10-07	0.75"	2 2	#10 #12	XHHW-2 XHHW-2	1	#10	XHHW-2	FR: TO: 2 #12 2 #10	PCM-25.0001 MPC-F1 >> PCM-25.0001 POWER >> PCM-25.0001 HVAC POWER	
L-25-301A	25E01-02	1"	2	#4	XHHW-2	1	#4	XHHW-2	FR: TO: 2 #4	PMP-21.0602 DISCONNECT >> PMP-21.0602 POWER	

7			8			9			10			11		
CONDUIT SCHEDULE AREA 25												11/10/20		
BRACKISH WATER DESALINATION PROJECT														
WATER TREATMENT PLANT														
CONDUIT			CONDUCTORS			GROUND								
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION				CONNECTING SEGMENTS	
L-25-301B	25E01-02	1"	2	#4	XHHW-2	1	#4	XHHW-2	FR: TO:	DISCONNECT PULLBOX >> PMP-21.0602 POWER			L-25-301C	
									2	#4				
L-25-301C	25E01-02 25E01-03 25E10-07	1.5"	2	#4 #6	XHHW-2 XHHW-2	1	#4	XHHW-2	FR: TO:	PULLBOX MPC-F1 >> PMP-24.0002 POWER >> PMP-21.0602 POWER			L-25-194B L-25-301B	
									2	#6 #4				
L-25-305A	25E10-08	0.75"	2	#10	XHHW-2	1	#10	XHHW-2	FR: TO:	AIT-21.0605 CONDUIT TEE >> AIT-21.0605 POWER			L-25-306B	
									2	#10				
L-25-306A	25E10-08	0.75"	2	#10	XHHW-2	1	#10	XHHW-2	FR: TO:	FIT-24.0602 CONDUIT TEE >> FIT-24.0602 POWER			L-25-306B	
									2	#10				
L-25-306B	25E10-08	0.75"	4	#10	XHHW-2	1	#10	XHHW-2	FR: TO:	CONDUIT TEE CONDUIT TEE >> AIT-21.0605 POWER >> FIT-24.0602 POWER			L-25-307B L-25-305A L-25-306A	
									2	#10 #10				
L-25-307A	25E10-08	0.75"	2	#10	XHHW-2	1	#10	XHHW-2	FR: TO:	FIT-24.0601 CONDUIT TEE >> FIT-24.0601 POWER			L-25-307B	
									2	#10				
L-25-307B	25E10-08	0.75"	6	#10	XHHW-2	1	#10	XHHW-2	FR: TO:	CONDUIT TEE JUNCTION BOX >> AIT-21.0605 POWER >> FIT-24.0602 POWER >> FIT-24.0601 POWER			L-25-311B L-25-306B L-25-306B L-25-307A	
									2	#10 #10 #10				
L-25-308A	25E10-08	0.75"	2	#10	XHHW-2	1	#10	XHHW-2	FR: TO:	FIT-21.0603 JUNCTION BOX >> FIT-21.0603 POWER			L-25-311B	
									2	#10				
L-25-311B	25E10-08 25E15-01	2"	8	#10	XHHW-2	1	#10	XHHW-2	FR: TO:	JUNCTION BOX PCM-25.0000 >> AIT-21.0605 POWER >> FIT-24.0602 POWER >> FIT-24.0601 POWER >> FIT-21.0603 POWER			L-25-307B L-25-307B L-25-307B L-25-308A	
									2	#10 #10 #10 #10				
L-25-321A	25E01-02	0.75"	2	#10	XHHW-2	1	#10	XHHW-2	FR: TO:	AIT-21.0603 CONDUIT TEE >> AIT-21.0603 POWER			L-25-322B	
									2	#10				
L-25-322A	25E01-02	0.75"	2	#10	XHHW-2	1	#10	XHHW-2	FR: TO:	AIT-21.0604 CONDUIT TEE >> AIT-21.0604 POWER			L-25-322B	
									2	#10				
L-25-322B	25E01-02 25E01-03	0.75"	4	#10	XHHW-2	1	#10	XHHW-2	FR: TO:	CONDUIT TEE PULLBOX >> AIT-21.0603 POWER >> AIT-21.0604 POWER			L-25-322C L-25-321A L-25-322A	
									2	#10 #10				
L-25-322C	25E01-02 25E01-03 25E10-07	1"	4 6	#10 #12	XHHW-2 XHHW-2	1	#10	XHHW-2	FR: TO:	PULLBOX PLC-25.0001 >> AIT-24.0003 POWER >> AIT-24.0004 POWER >> AIT-26.0401F POWER >> AIT-21.0603 POWER >> AIT-21.0604 POWER			L-25-192B L-25-192B L-25-192B L-25-322B L-25-322B	
									2	#12 #12 #12 #10 #10				
L-25-402A	25E10-05	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO:	FIT-65.0201 PCM-60.0000 >> FIT-65.0201 POWER				
									2	#12				
L-25-406A	25E10-05	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO:	PMP-65.0201 CONDUIT TEE >> PMP-65.0201 POWER			L-25-407B	
									2	#12				
L-25-407A	25E10-05	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO:	PMP-65.0202 CONDUIT TEE >> PMP-65.0202 POWER			L-25-407B	
									2	#12				
L-25-407B	25E10-05	0.75"	4	#12	XHHW-2	1	#12	XHHW-2	FR: TO:	CONDUIT TEE MPC-CHEM >> PMP-65.0201 POWER >> PMP-65.0202 POWER			L-25-406A L-25-407A	
									2	#12 #12				



				DESIGNED AB	<div>Digitally signed by Ashrita Banapuram Contact Info: Carollo Engineers, Inc. Date: 2025.11.10 10:16:00-0800</div> <div></div>	<div></div>	<div></div>	<div></div>	CITY OF ANTIOCH	VERIFY SCALES	JOB NO. 10024A.10
			DRAWN BPR	ANTIOCH BRACKISH WATER DESALINATION PROJECT					BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO.	
			CHECKED JGB	ELECTRICAL					0 1"	25E05-10	
<div><div>1</div><div>REV</div></div>	11-10-20	AB	REVISED PER ADDENDUM NO.4	DATE SEPTEMBER 2020					WATER TREATMENT PLANT CONDUIT SCHEDULE - 10	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 287 OF 498
	DATE	BY	DESCRIPTION								

Plot Date: 10-NOV-2020 3:39:09 PM
User: svcPW
Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo Std Pen_v0905.pen PlotScale: 1:1
LAST SAVED BY: mpacheco

1	2	3	4	5	6	7	8	9	10	11	12	13																																																																																																																																																																																																																																																							
<div>CONDUIT SCHEDULE AREA 25 BRACKISH WATER DESALINATION PROJECT WATER TREATMENT PLANT 11/10/20</div> <table><thead><tr><th colspan="3">CONDUIT</th><th colspan="3">CONDUCTORS</th><th colspan="3">GROUND</th><th colspan="4"></th></tr><tr><th>NUMBER</th><th>DWG</th><th>SIZE</th><th>#</th><th>SIZE</th><th>TYPE</th><th>#</th><th>SIZE</th><th>TYPE</th><th colspan="4">DESCRIPTION</th></tr></thead><tbody><tr><td>L-25-477A</td><td>25E10-05</td><td>0.75"</td><td>2</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12</td><td>PMP-66.0902 CONDUIT TEE >> PMP-66.0902 POWER</td><td>L-25-477B</td><td></td></tr><tr><td>L-25-477B</td><td>25E10-05</td><td>0.75"</td><td>4</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12 2 #12</td><td>CONDUIT TEE MPC-CHEM >> PMP-66.0901 POWER >> PMP-66.0902 POWER</td><td>L-25-476A L-25-477A</td><td></td></tr><tr><td>L-25-478A</td><td>25E10-05</td><td>0.75"</td><td>2</td><td>#10</td><td>XHHW-2</td><td>1</td><td>#10</td><td>XHHW-2</td><td>FR: TO: 2 #10</td><td>HEAT TRACING PANEL CONDUIT TEE >> HEAT TRACING PANEL POWER</td><td>L-25-478B</td><td></td></tr><tr><td>L-25-478B</td><td>25E10-05</td><td>0.75"</td><td>2 2</td><td>#10 #12</td><td>XHHW-2 XHHW-2</td><td>1</td><td>#10</td><td>XHHW-2</td><td>FR: TO: 2 #10 2 #12</td><td>CONDUIT TEE MPC-CHEM >> HEAT TRACING PANEL POWER >> VAL-66.0901F POWER</td><td>L-25-478A L-25-479B</td><td></td></tr><tr><td>L-25-479A</td><td>25E10-05</td><td>0.75"</td><td>2</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12</td><td>VAL-66.0901F DISCONNECT >> VAL-66.0901F POWER</td><td></td><td></td></tr><tr><td>L-25-479B</td><td>25E10-05</td><td>0.75"</td><td>2</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12</td><td>DISCONNECT CONDUIT TEE >> VAL-66.0901F POWER</td><td>L-25-478B</td><td></td></tr><tr><td>L-25-492A</td><td>25E10-05</td><td>0.75"</td><td>2 2</td><td>#10 #12</td><td>XHHW-2 XHHW-2</td><td>1</td><td>#10</td><td>XHHW-2</td><td>FR: TO: 2 #10 2 #12</td><td>PCM-60.0000 MPC-CHEM >> PCM-60.0000 POWER >> HVAC POWER</td><td></td><td></td></tr><tr><td>L-25-501A</td><td>25E10-05</td><td>0.75"</td><td>2</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12</td><td>CATHODIC RECTIFIER PANEL MPC-CHEM >> CATHODIC RECTIFIER POWER</td><td></td><td></td></tr><tr><td>L-25-614A</td><td>25E10-01</td><td>0.75"</td><td>2</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12</td><td>LV POWER JUNCTION BOX CONDUIT TEE >> RO TRAIN NO.1 120V POWER</td><td>L-25-614B</td><td></td></tr><tr><td>L-25-614B</td><td>25E10-01 25E10-02 25E15-01</td><td>0.75"</td><td>8</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12 2 #12 2 #12 2 #12</td><td>CONDUIT TEE PCM-25.0000 >> RO TRAIN NO.1 120V POWER >> RO TRAIN NO.2 120V POWER >> RO TRAIN NO.3 120V POWER >> RO TRAIN NO.4 120V POWER</td><td>L-25-614A L-25-624B L-25-624B L-25-624B</td><td></td></tr><tr><td>L-25-624A</td><td>25E10-01</td><td>0.75"</td><td>2</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12</td><td>LV POWER JUNCTION BOX CONDUIT TEE >> RO TRAIN NO.2 120V POWER</td><td>L-25-624B</td><td></td></tr><tr><td>L-25-624B</td><td>25E10-01</td><td>0.75"</td><td>6</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12 2 #12 2 #12</td><td>CONDUIT TEE CONDUIT TEE >> RO TRAIN NO.2 120V POWER >> RO TRAIN NO.3 120V POWER >> RO TRAIN NO.4 120V POWER</td><td>L-25-614B L-25-624A L-25-634B L-25-634B</td><td></td></tr><tr><td>L-25-634A</td><td>25E10-01</td><td>0.75"</td><td>2</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12</td><td>LV POWER JUNCTION BOX CONDUIT TEE >> RO TRAIN NO.3 120V POWER</td><td>L-25-634B</td><td></td></tr><tr><td>L-25-634B</td><td>25E10-01</td><td>0.75"</td><td>4</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12 2 #12</td><td>CONDUIT TEE CONDUIT TEE >> RO TRAIN NO.3 120V POWER >> RO TRAIN NO.4 120V POWER</td><td>L-25-624B L-25-634A L-25-644A</td><td></td></tr><tr><td>L-25-644A</td><td>25E10-01</td><td>0.75"</td><td>2</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12</td><td>LV POWER JUNCTION BOX CONDUIT TEE >> RO TRAIN NO.4 120V POWER</td><td>L-25-634B</td><td></td></tr><tr><td>L-25-661A</td><td>25E10-02</td><td>0.75"</td><td>2</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12</td><td>AIT-25.0005A CONDUIT TEE >> AIT-25.0005A POWER</td><td>L-25-661B</td><td></td></tr><tr><td>L-25-661B</td><td>25E10-02 25E15-01</td><td>1"</td><td>10</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12 2 #12 2 #12 2 #12 2 #12 2 #12</td><td>CONDUIT TEE PCM-25.0000 >> AIT-25.0005E POWER >> AIT-25.0005D POWER >> AIT-25.0005C POWER >> AIT-25.0005B POWER >> AIT-25.0005A POWER</td><td>L-25-662B L-25-662B L-25-662B L-25-662B L-25-661A</td><td></td></tr></tbody></table> <div>1</div>													CONDUIT			CONDUCTORS			GROUND							NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION				L-25-477A	25E10-05	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	PMP-66.0902 CONDUIT TEE >> PMP-66.0902 POWER	L-25-477B		L-25-477B	25E10-05	0.75"	4	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 2 #12	CONDUIT TEE MPC-CHEM >> PMP-66.0901 POWER >> PMP-66.0902 POWER	L-25-476A L-25-477A		L-25-478A	25E10-05	0.75"	2	#10	XHHW-2	1	#10	XHHW-2	FR: TO: 2 #10	HEAT TRACING PANEL CONDUIT TEE >> HEAT TRACING PANEL POWER	L-25-478B		L-25-478B	25E10-05	0.75"	2 2	#10 #12	XHHW-2 XHHW-2	1	#10	XHHW-2	FR: TO: 2 #10 2 #12	CONDUIT TEE MPC-CHEM >> HEAT TRACING PANEL POWER >> VAL-66.0901F POWER	L-25-478A L-25-479B		L-25-479A	25E10-05	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	VAL-66.0901F DISCONNECT >> VAL-66.0901F POWER			L-25-479B	25E10-05	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	DISCONNECT CONDUIT TEE >> VAL-66.0901F POWER	L-25-478B		L-25-492A	25E10-05	0.75"	2 2	#10 #12	XHHW-2 XHHW-2	1	#10	XHHW-2	FR: TO: 2 #10 2 #12	PCM-60.0000 MPC-CHEM >> PCM-60.0000 POWER >> HVAC POWER			L-25-501A	25E10-05	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	CATHODIC RECTIFIER PANEL MPC-CHEM >> CATHODIC RECTIFIER POWER			L-25-614A	25E10-01	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	LV POWER JUNCTION BOX CONDUIT TEE >> RO TRAIN NO.1 120V POWER	L-25-614B		L-25-614B	25E10-01 25E10-02 25E15-01	0.75"	8	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 2 #12 2 #12 2 #12	CONDUIT TEE PCM-25.0000 >> RO TRAIN NO.1 120V POWER >> RO TRAIN NO.2 120V POWER >> RO TRAIN NO.3 120V POWER >> RO TRAIN NO.4 120V POWER	L-25-614A L-25-624B L-25-624B L-25-624B		L-25-624A	25E10-01	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	LV POWER JUNCTION BOX CONDUIT TEE >> RO TRAIN NO.2 120V POWER	L-25-624B		L-25-624B	25E10-01	0.75"	6	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 2 #12 2 #12	CONDUIT TEE CONDUIT TEE >> RO TRAIN NO.2 120V POWER >> RO TRAIN NO.3 120V POWER >> RO TRAIN NO.4 120V POWER	L-25-614B L-25-624A L-25-634B L-25-634B		L-25-634A	25E10-01	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	LV POWER JUNCTION BOX CONDUIT TEE >> RO TRAIN NO.3 120V POWER	L-25-634B		L-25-634B	25E10-01	0.75"	4	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 2 #12	CONDUIT TEE CONDUIT TEE >> RO TRAIN NO.3 120V POWER >> RO TRAIN NO.4 120V POWER	L-25-624B L-25-634A L-25-644A		L-25-644A	25E10-01	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	LV POWER JUNCTION BOX CONDUIT TEE >> RO TRAIN NO.4 120V POWER	L-25-634B		L-25-661A	25E10-02	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	AIT-25.0005A CONDUIT TEE >> AIT-25.0005A POWER	L-25-661B		L-25-661B	25E10-02 25E15-01	1"	10	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 2 #12 2 #12 2 #12 2 #12 2 #12	CONDUIT TEE PCM-25.0000 >> AIT-25.0005E POWER >> AIT-25.0005D POWER >> 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<div>CONDUIT SCHEDULE AREA 25 BRACKISH WATER DESALINATION PROJECT WATER TREATMENT PLANT 11/10/20</div> <table><thead><tr><th colspan="3">CONDUIT</th><th colspan="3">CONDUCTORS</th><th colspan="3">GROUND</th><th colspan="4"></th></tr><tr><th>NUMBER</th><th>DWG</th><th>SIZE</th><th>#</th><th>SIZE</th><th>TYPE</th><th>#</th><th>SIZE</th><th>TYPE</th><th colspan="4">DESCRIPTION</th></tr></thead><tbody><tr><td>L-25-662A</td><td>25E10-02</td><td>0.75"</td><td>2</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12</td><td>AIT-25.0005B CONDUIT TEE >> AIT-25.0005B POWER</td><td>L-25-662B</td><td></td></tr><tr><td>L-25-662B</td><td>25E10-02</td><td>0.75"</td><td>8</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12 2 #12 2 #12 2 #12</td><td>CONDUIT TEE CONDUIT TEE >> AIT-25.0005E POWER >> AIT-25.0005D POWER >> AIT-25.0005C POWER >> AIT-25.0005B POWER</td><td>L-25-661B L-25-663B L-25-663B L-25-663B L-25-662A</td><td></td></tr><tr><td>L-25-663A</td><td>25E10-02</td><td>0.75"</td><td>2</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12</td><td>AIT-25.0005C CONDUIT TEE >> AIT-25.0005C POWER</td><td>L-25-663B</td><td></td></tr><tr><td>L-25-663B</td><td>25E10-02</td><td>0.75"</td><td>6</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12 2 #12 2 #12</td><td>CONDUIT TEE CONDUIT TEE >> AIT-25.0005E POWER >> AIT-25.0005D POWER >> AIT-25.0005C POWER</td><td>L-25-662B L-25-664B L-25-664B L-25-663A</td><td></td></tr><tr><td>L-25-664A</td><td>25E10-02</td><td>0.75"</td><td>2</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12</td><td>AIT-25.0005D CONDUIT TEE >> AIT-25.0005D POWER</td><td>L-25-664B</td><td></td></tr><tr><td>L-25-664B</td><td>25E10-02</td><td>0.75"</td><td>4</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12 2 #12</td><td>CONDUIT TEE CONDUIT TEE >> AIT-25.0005E POWER >> AIT-25.0005D POWER</td><td>L-25-663B L-25-665A L-25-664A</td><td></td></tr><tr><td>L-25-665A</td><td>25E10-02</td><td>0.75"</td><td>2</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12</td><td>AIT-25.0005E CONDUIT TEE >> AIT-25.0005E POWER</td><td>L-25-664B</td><td></td></tr><tr><td>L-25-666A</td><td>25E15-03</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>ARC-25.0005 DISCONNECT >> ARC-25.0005 POWER</td><td></td><td></td></tr><tr><td>L-25-666B</td><td>25E15-03 25E15-02</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>DISCONNECT LP-RO >> ARC-25.0005 POWER</td><td></td><td></td></tr><tr><td>L-25-711A</td><td>25E10-01</td><td>0.75"</td><td>2</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12</td><td>FIT-26.0301A JUNCTION BOX >> FIT-26.0301A POWER</td><td>L-25-718B</td><td></td></tr><tr><td>L-25-712A</td><td>25E10-01</td><td>0.75"</td><td>2</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12</td><td>FIT-26.0301B JUNCTION BOX >> FIT-26.0301B POWER</td><td>L-25-718B</td><td></td></tr><tr><td>L-25-713A</td><td>25E10-01</td><td>0.75"</td><td>2</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12</td><td>AIT-26.0301A JUNCTION BOX >> AIT-26.0301A POWER</td><td>L-25-718B</td><td></td></tr><tr><td>L-25-714A</td><td>25E10-01</td><td>0.75"</td><td>2</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12</td><td>AIT-25.0904B JUNCTION BOX >> AIT-25.0904B POWER</td><td>L-25-718B</td><td></td></tr><tr><td>L-25-716A</td><td>25E10-01</td><td>0.75"</td><td>2</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12</td><td>AIT-25.0904D JUNCTION BOX >> AIT-25.0904D POWER</td><td>L-25-718B</td><td></td></tr><tr><td>L-25-717A</td><td>25E10-01</td><td>0.75"</td><td>2</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12</td><td>AIT-25.0904A JUNCTION BOX >> AIT-25.0904A POWER</td><td>L-25-718B</td><td></td></tr><tr><td>L-25-718A</td><td>25E10-01</td><td>0.75"</td><td>2</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12</td><td>AIT-25.0904C JUNCTION BOX >> AIT-25.0904C POWER</td><td>L-25-718B</td><td></td></tr><tr><td>L-25-718B</td><td>25E10-01 25E10-02 25E15-01</td><td>1"</td><td>14</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12 2 #12 2 #12 2 #12 2 #12 2 #12 2 #12 2 #12</td><td>JUNCTION BOX PCM-25.0000 >> FIT-26.0301A POWER >> FIT-26.0301B POWER >> AIT-26.0301A POWER >> AIT-25.0904B POWER >> AIT-25.0904D POWER >> AIT-25.0904A POWER >> AIT-25.0904C POWER</td><td>L-25-711A L-25-712A L-25-713A L-25-714A L-25-716A L-25-717A L-25-718A</td><td></td></tr><tr><td>L-25-761A</td><td>25E10-02</td><td>0.75"</td><td>2</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 2 #12</td><td>FIT-25.0903 CONDUIT TEE >> FIT-25.0903 POWER</td><td>L-25-768C</td><td></td></tr></tbody></table>													CONDUIT			CONDUCTORS			GROUND							NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION				L-25-662A	25E10-02	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	AIT-25.0005B CONDUIT TEE >> AIT-25.0005B POWER	L-25-662B		L-25-662B	25E10-02	0.75"	8	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 2 #12 2 #12 2 #12	CONDUIT TEE CONDUIT TEE >> AIT-25.0005E POWER >> AIT-25.0005D POWER >> AIT-25.0005C POWER >> AIT-25.0005B POWER	L-25-661B L-25-663B L-25-663B L-25-663B L-25-662A		L-25-663A	25E10-02	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	AIT-25.0005C CONDUIT TEE >> AIT-25.0005C POWER	L-25-663B		L-25-663B	25E10-02	0.75"	6	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 2 #12 2 #12	CONDUIT TEE CONDUIT TEE >> AIT-25.0005E POWER >> AIT-25.0005D POWER >> AIT-25.0005C POWER	L-25-662B L-25-664B L-25-664B L-25-663A		L-25-664A	25E10-02	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	AIT-25.0005D CONDUIT TEE >> AIT-25.0005D POWER	L-25-664B		L-25-664B	25E10-02	0.75"	4	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 2 #12	CONDUIT TEE CONDUIT TEE >> AIT-25.0005E POWER >> AIT-25.0005D POWER	L-25-663B L-25-665A L-25-664A		L-25-665A	25E10-02	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	AIT-25.0005E CONDUIT TEE >> AIT-25.0005E POWER	L-25-664B		L-25-666A	25E15-03	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	ARC-25.0005 DISCONNECT >> ARC-25.0005 POWER			L-25-666B	25E15-03 25E15-02	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT LP-RO >> ARC-25.0005 POWER			L-25-711A	25E10-01	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	FIT-26.0301A JUNCTION BOX >> FIT-26.0301A POWER	L-25-718B		L-25-712A	25E10-01	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	FIT-26.0301B JUNCTION BOX >> FIT-26.0301B POWER	L-25-718B		L-25-713A	25E10-01	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	AIT-26.0301A JUNCTION BOX >> AIT-26.0301A POWER	L-25-718B		L-25-714A	25E10-01	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	AIT-25.0904B JUNCTION BOX >> AIT-25.0904B POWER	L-25-718B		L-25-716A	25E10-01	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	AIT-25.0904D JUNCTION BOX >> AIT-25.0904D POWER	L-25-718B		L-25-717A	25E10-01	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	AIT-25.0904A JUNCTION BOX >> AIT-25.0904A POWER	L-25-718B		L-25-718A	25E10-01	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	AIT-25.0904C JUNCTION BOX >> AIT-25.0904C POWER	L-25-718B		L-25-718B	25E10-01 25E10-02 25E15-01	1"	14	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 2 #12 2 #12 2 #12 2 #12 2 #12 2 #12 2 #12	JUNCTION BOX PCM-25.0000 >> FIT-26.0301A POWER >> FIT-26.0301B POWER >> AIT-26.0301A POWER >> AIT-25.0904B POWER >> AIT-25.0904D POWER >> AIT-25.0904A POWER >> AIT-25.0904C POWER	L-25-711A L-25-712A L-25-713A L-25-714A L-25-716A L-25-717A L-25-718A		L-25-761A	25E10-02	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	FIT-25.0903 CONDUIT TEE >> FIT-25.0903 POWER	L-25-768C	
CONDUIT			CONDUCTORS			GROUND																																																																																																																																																																																																																																																																										
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION																																																																																																																																																																																																																																																																							
L-25-662A	25E10-02	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	AIT-25.0005B CONDUIT TEE >> AIT-25.0005B POWER	L-25-662B																																																																																																																																																																																																																																																																					
L-25-662B	25E10-02	0.75"	8	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 2 #12 2 #12 2 #12	CONDUIT TEE CONDUIT TEE >> AIT-25.0005E POWER >> AIT-25.0005D POWER >> AIT-25.0005C POWER >> AIT-25.0005B POWER	L-25-661B L-25-663B L-25-663B L-25-663B L-25-662A																																																																																																																																																																																																																																																																					
L-25-663A	25E10-02	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	AIT-25.0005C CONDUIT TEE >> AIT-25.0005C POWER	L-25-663B																																																																																																																																																																																																																																																																					
L-25-663B	25E10-02	0.75"	6	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 2 #12 2 #12	CONDUIT TEE CONDUIT TEE >> AIT-25.0005E POWER >> AIT-25.0005D POWER >> AIT-25.0005C POWER	L-25-662B L-25-664B L-25-664B L-25-663A																																																																																																																																																																																																																																																																					
L-25-664A	25E10-02	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	AIT-25.0005D CONDUIT TEE >> AIT-25.0005D POWER	L-25-664B																																																																																																																																																																																																																																																																					
L-25-664B	25E10-02	0.75"	4	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 2 #12	CONDUIT TEE CONDUIT TEE >> AIT-25.0005E POWER >> AIT-25.0005D POWER	L-25-663B L-25-665A L-25-664A																																																																																																																																																																																																																																																																					
L-25-665A	25E10-02	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	AIT-25.0005E CONDUIT TEE >> AIT-25.0005E POWER	L-25-664B																																																																																																																																																																																																																																																																					
L-25-666A	25E15-03	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	ARC-25.0005 DISCONNECT >> ARC-25.0005 POWER																																																																																																																																																																																																																																																																						
L-25-666B	25E15-03 25E15-02	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT LP-RO >> ARC-25.0005 POWER																																																																																																																																																																																																																																																																						
L-25-711A	25E10-01	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	FIT-26.0301A JUNCTION BOX >> FIT-26.0301A POWER	L-25-718B																																																																																																																																																																																																																																																																					
L-25-712A	25E10-01	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	FIT-26.0301B JUNCTION BOX >> FIT-26.0301B POWER	L-25-718B																																																																																																																																																																																																																																																																					
L-25-713A	25E10-01	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	AIT-26.0301A JUNCTION BOX >> AIT-26.0301A POWER	L-25-718B																																																																																																																																																																																																																																																																					
L-25-714A	25E10-01	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	AIT-25.0904B JUNCTION BOX >> AIT-25.0904B POWER	L-25-718B																																																																																																																																																																																																																																																																					
L-25-716A	25E10-01	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	AIT-25.0904D JUNCTION BOX >> AIT-25.0904D POWER	L-25-718B																																																																																																																																																																																																																																																																					
L-25-717A	25E10-01	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	AIT-25.0904A JUNCTION BOX >> AIT-25.0904A POWER	L-25-718B																																																																																																																																																																																																																																																																					
L-25-718A	25E10-01	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	AIT-25.0904C JUNCTION BOX >> AIT-25.0904C POWER	L-25-718B																																																																																																																																																																																																																																																																					
L-25-718B	25E10-01 25E10-02 25E15-01	1"	14	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12 2 #12 2 #12 2 #12 2 #12 2 #12 2 #12 2 #12	JUNCTION BOX PCM-25.0000 >> FIT-26.0301A POWER >> FIT-26.0301B POWER >> AIT-26.0301A POWER >> AIT-25.0904B POWER >> AIT-25.0904D POWER >> AIT-25.0904A POWER >> AIT-25.0904C POWER	L-25-711A L-25-712A L-25-713A L-25-714A L-25-716A L-25-717A L-25-718A																																																																																																																																																																																																																																																																					
L-25-761A	25E10-02	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 2 #12	FIT-25.0903 CONDUIT TEE >> FIT-25.0903 POWER	L-25-768C																																																																																																																																																																																																																																																																					

				DESIGNED AB	<div>Digitally signed by Ashrita Banapouram Contact Info: Carollo Engineers, Inc. Date: 2020.11.19 18:40:59-0800 </div>	<div>REGISTERED PROFESSIONAL ENGINEER ASHRITA BANAPOURAM No. 21815 ELECTRICAL STATE OF CALIFORNIA</div>			CITY OF ANTIOCH				VERIFY SCALES	JOB NO. 10024A.10	G
				DRAWN BPR					ANTIOCH BRACKISH WATER DESALINATION PROJECT				BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 25E05-12	
				CHECKED JGB					ELECTRICAL				0  1"	SHEET NO. 289 OF 498	
				DATE SEPTEMBER 2020					WATER TREATMENT PLANT CONDUIT SCHEDULE - 12				IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY		
	11-10-20	AB	REVISED PER ADDENDUM NO.4												
REV	DATE	BY	DESCRIPTION												

1	2	3	4	5									
CONDUIT SCHEDULE AREA 25												11/10/20	
BRACKISH WATER DESALINATION PROJECT													
WATER TREATMENT PLANT													
CONDUIT			CONDUCTORS			GROUND							
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION				CONNECTING SEGMENTS
L-25-767A	25E10-02	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: FSL-25.0011 TO: CONDUIT TEE				L-25-768B
									2 #12	>> FSL-25.0011 POWER			
L-25-768A	25E10-02	0.75"	2	#12	XHHW-2	1	#12	XHHW-2	FR: FIT-25.0018 TO: CONDUIT TEE				L-25-768B
									2 #12	>> FIT-25.0018 POWER			
L-25-768B	25E10-02	0.75"	4	#12	XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE				L-25-768C
									2 #12	>> FSL-25.0011 POWER			L-25-767A
									2 #12	>> FIT-25.0018 POWER			L-25-768A
L-25-768C	25E10-02 25E15-01	0.75"	6	#12	XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE TO: PCM-25.0000				
									2 #12	>> FIT-25.0903 POWER			L-25-761A
									2 #12	>> FSL-25.0011 POWER			L-25-768B
									2 #12	>> FIT-25.0018 POWER			L-25-768B
L-25-793A	25E15-02	0.75"	2 2	#10 #12	XHHW-2 XHHW-2	1	#10	XHHW-2	FR: PCM-25.0000 TO: LP-RO				
									2 #10	>> PCM-25.0000 HVAC POWER			
									2 #12	>> PCM-25.0000 POWER			
L-25-801A	25E01-02 25E10-07	2"	3	#8	XHHW-2	1	#8	XHHW-2	FR: MAIN PANEL TO: MPC-F1 (THROUGH JUNCTION BOX)				
									3 #8	>> BATTERY UNIT POWER			
L-25-866A	25E01-03 25E10-07	2"	3	#8	XHHW-2	1	#8	XHHW-2	FR: SWGR-C1 TO: MPC-F1				
									3 #8	>> BATTERY UNIT POWER			
N-25-201C	25E10-07	1"	1		CAT6	1	#14	XHHW-2	FR: VFD-25.0001 TO: PCM-25.0001				
									1 CAT6	>> VFD-25.0001 NETWORK			
N-25-202C	25E10-07	1"	1		CAT6	1	#14	XHHW-2	FR: VFD-25.0002 TO: PCM-25.0001				
									1 CAT6	>> VFD-25.0002 NETWORK			
N-25-203C	25E10-07	1"	1		CAT6	1	#14	XHHW-2	FR: VFD-25.0003 TO: PCM-25.0001				
									1 CAT6	>> VFD-25.0003 NETWORK			
N-25-204C	25E10-07	1"	1	PULL	ROPE				FR: VFD-25.0004 (FUTURE) TO: PCM-25.0001				
									1 PULL	>> SPARE			
N-25-491A	25E15-01 25E10-	2"	1		12/FO-LT	1	#14	XHHW-2	FR: PCM-60.0000 TO: PCM-25.0000				
									1 12/FO-LT	>> PCM-60.0000 NETWORK			
N-25-823A	25E01-03	2"	1		CAT6	1	#14	XHHW-2	FR: GEN-C1 TO: SWGR-C1				
									1 CAT6	>> GEN-C1 NETWORK			
N-25-826A	25E01-03	2"	1		CAT6	1	#14	XHHW-2	FR: GEN-C2 TO: SWGR-C1				
									1 CAT6	>> GEN-C2 NETWORK			
N-25-833A	25E01-03	2"	1	PULL	ROPE				FR: GEN-C3 TO: SWGR-C2				
									1 PULL	>> SPARE			
N-25-836A	25E01-03	2"	1	PULL	ROPE				FR: GEN-C4 TO: SWGR-C2				
									1 PULL	>> SPARE			
N-25-853A	25E01-03	2"	1		12/FO-LT	1	#14	XHHW-2	FR: SWGR-C1 TO: MH-4				N-25-867A
									1 12/FO-LT	>> SWGR-C1 NETWORK			
N-25-863A	25E01-03	2"	1	PULL	ROPE				FR: SWGR-C2 (FUTURE) TO: MH-4				
									1 PULL	>> SPARE			
N-25-864A	25E01-03	2"	1	PULL	ROPE				FR: SWGR-C2 (FUTURE) TO: MH-4				
									1 PULL	>> SPARE			
N-25-866A	25E01-03	2"	1		12/FO-LT	1	#14	XHHW-2	FR: PCM-25.0001 TO: MH-4				N-25-867A
									1 12/FO-LT	>> PCM-25.0001 NETWORK			

[illegible]

				DESIGNED AB	<div>Digitally signed by Ashrita Banarajan Contact Info: Carollo Engineers, Inc. Date: 2025.11.10 16:45:50 UTC</div> <div></div>	<div></div>	<div></div>	<div></div>	CITY OF ANTIOCH	<div>VERIFY SCALES</div> <div>BAR IS ONE INCH ON ORIGINAL DRAWING</div> <div>0  1"</div> <div>IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY</div>	JOB NO. 10024A.10
			DRAWN BPR	DRAWING NO.							
			CHECKED JGB	25E05-13							
<div>1 REV</div>	11-10-20 DATE	AB BY	REVISED PER ADDENDUM NO.4 DESCRIPTION	DATE SEPTEMBER 2020					ANTIOCH BRACKISH WATER DESALINATION PROJECT		SHEET NO. 290 OF 498
									ELECTRICAL		
									WATER TREATMENT PLANT CONDUIT SCHEDULE - 13		

Plot Date: 10-NOV-2020 4:09:45 PM
User: svcPW
Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo Std Pen_v0905.pen PlotScale: 1:1
LAST SAVED BY: mpacheco

1	2	3	4	5	6	7	8	9	10	11	12	13																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
<div>CONDUIT SCHEDULE AREA 2511/10/20</div> <div>BRACKISH WATER DESALINATION PROJECT</div> <div>WATER TREATMENT PLANT</div> <table><tr><th colspan="3">CONDUIT</th><th colspan="3">CONDUCTORS</th><th colspan="3">GROUND</th><th colspan="4"></th></tr><tr><th>NUMBER</th><th>DWG</th><th>SIZE</th><th>#</th><th>SIZE</th><th>TYPE</th><th>#</th><th>SIZE</th><th>TYPE</th><th colspan="4">DESCRIPTION</th><th>CONNECTING SEGMENTS</th></tr><tr><td>P-25-154B</td><td>25E10-10</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td colspan="4">DISCONNECT CONDUIT TEE >> VAL-24.0502A POWER</td><td>P-25-154C</td></tr><tr><td>P-25-154C</td><td>25E10-10</td><td>1"</td><td>12</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12 3 #12 3 #12 3 #12</td><td colspan="4">CONDUIT TEE DP-A >> VAL-24.0502B POWER >> VAL-24.0504B POWER >> VAL-24.0504A POWER >> VAL-24.0502A POWER</td><td>P-25-153C P-25-153C P-25-153C P-25-154B</td></tr><tr><td>P-25-161A</td><td>25E10-10</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td colspan="4">VAL-24.0602B DISCONNECT >> VAL-24.0602B POWER</td><td></td></tr><tr><td>P-25-161B</td><td>25E10-10</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td colspan="4">DISCONNECT CONDUIT TEE >> VAL-24.0602B POWER</td><td>P-25-162C</td></tr><tr><td>P-25-162A</td><td>25E10-10</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td colspan="4">VAL-24.0604B DISCONNECT >> VAL-24.0604B POWER</td><td></td></tr><tr><td>P-25-162B</td><td>25E10-10</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td colspan="4">DISCONNECT CONDUIT TEE >> VAL-24.0604B 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P-25-164B</td></tr><tr><td>P-25-171A</td><td>25E10-10</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td colspan="4">VAL-24.0702B DISCONNECT >> VAL-24.0702B POWER</td><td></td></tr><tr><td>P-25-171B</td><td>25E10-10</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td colspan="4">DISCONNECT CONDUIT TEE >> VAL-24.0702B POWER</td><td>P-25-172C</td></tr><tr><td>P-25-172A</td><td>25E10-10</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td colspan="4">VAL-24.0704B DISCONNECT >> VAL-24.0704B POWER</td><td></td></tr><tr><td>P-25-172B</td><td>25E10-10</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td colspan="4">DISCONNECT CONDUIT TEE >> VAL-24.0704B 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CONDUIT TEE >> VAL-24.0602B POWER				P-25-162C	P-25-162A	25E10-10	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	VAL-24.0604B DISCONNECT >> VAL-24.0604B POWER					P-25-162B	25E10-10	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT CONDUIT TEE >> VAL-24.0604B POWER				P-25-162C	P-25-162C	25E10-10	0.75"	6	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12 3 #12	CONDUIT TEE CONDUIT TEE >> VAL-24.0604B POWER >> VAL-24.0604B POWER				P-25-163C P-25-161B P-25-162B	P-25-163A	25E10-10	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	VAL-24.0604A DISCONNECT >> VAL-24.0604A POWER					P-25-163B	25E10-10	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT CONDUIT TEE >> VAL-24.0604A POWER				P-25-163C	P-25-163C	25E10-10	1"	9	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12 3 #12 3 #12	CONDUIT TEE CONDUIT TEE >> VAL-24.0602B POWER >> VAL-24.0604B POWER >> VAL-24.0604A POWER				P-25-164C P-25-162C P-25-162C P-25-163B	P-25-164A	25E10-10	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	VAL-24.0602A DISCONNECT >> VAL-24.0602A POWER					P-25-164B	25E10-10	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT CONDUIT TEE >> VAL-24.0602A POWER				P-25-164C	P-25-164C	25E10-10	1"	12	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12 3 #12 3 #12 3 #12	CONDUIT TEE DP-A >> VAL-24.0602B POWER >> VAL-24.0604B POWER >> VAL-24.0604A POWER >> VAL-24.0602A POWER				P-25-163C P-25-163C P-25-163C P-25-164B	P-25-171A	25E10-10	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	VAL-24.0702B DISCONNECT >> VAL-24.0702B POWER					P-25-171B	25E10-10	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT CONDUIT TEE >> VAL-24.0702B POWER				P-25-172C	P-25-172A	25E10-10	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	VAL-24.0704B DISCONNECT >> VAL-24.0704B POWER					P-25-172B	25E10-10	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT CONDUIT TEE >> VAL-24.0704B POWER				P-25-172C	P-25-172C	25E10-10	0.75"	6	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12 3 #12	CONDUIT TEE CONDUIT TEE >> VAL-24.0704B POWER >> VAL-24.0704B 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colspan="4">CONDUIT TEE DP-A >> VAL-24.0802B POWER >> VAL-24.0804B POWER >> VAL-24.0804A POWER >> VAL-24.0802A POWER</td><td>P-25-183C P-25-183C P-25-183C P-25-184B</td></tr></table>													CONDUIT			CONDUCTORS			GROUND							NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION				CONNECTING SEGMENTS	P-25-173A	25E10-10	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	VAL-24.0704A DISCONNECT >> VAL-24.0704A POWER					P-25-173B	25E10-10	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT CONDUIT TEE >> VAL-24.0704A POWER				P-25-173C	P-25-173C	25E10-10	1"	9	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12 3 #12 3 #12	CONDUIT TEE CONDUIT TEE >> VAL-24.0702B POWER >> VAL-24.0704B POWER >> VAL-24.0704A POWER				P-25-174C P-25-172C P-25-172C P-25-173B	P-25-174A	25E10-10	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	VAL-24.0702A DISCONNECT >> VAL-24.0702A POWER					P-25-174B	25E10-10	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT CONDUIT TEE >> VAL-24.0702A POWER				P-25-174C	P-25-174C	25E10-10	1"	12	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12 3 #12 3 #12 3 #12	CONDUIT TEE DP-A >> VAL-24.0702B POWER >> VAL-24.0704B POWER >> VAL-24.0704A POWER >> VAL-24.0702A POWER				P-25-173C P-25-173C P-25-173C P-25-174B	P-25-181A	25E10-10	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	VAL-24.0802B DISCONNECT >> VAL-24.0802B POWER					P-25-181B	25E10-10	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT CONDUIT TEE >> VAL-24.0802B POWER				P-25-182C	P-25-182A	25E10-10	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	VAL-24.0804B DISCONNECT >> VAL-24.0804B POWER					P-25-182B	25E10-10	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT CONDUIT TEE >> VAL-24.0804B POWER				P-25-182C	P-25-182C	25E10-10	0.75"	6	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12 3 #12	CONDUIT TEE CONDUIT TEE >> VAL-24.0802B POWER >> VAL-24.0804B POWER				P-25-183C P-25-181B P-25-182B	P-25-183A	25E10-10	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	VAL-24.0804A DISCONNECT >> VAL-24.0804A POWER					P-25-183B	25E10-10	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT CONDUIT TEE >> VAL-24.0804A POWER				P-25-183C	P-25-183C	25E10-10	1"	9	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12 3 #12 3 #12	CONDUIT TEE CONDUIT TEE >> VAL-24.0802B POWER >> VAL-24.0804B POWER >> VAL-24.0804A POWER				P-25-184C P-25-182C P-25-182C P-25-183B	P-25-184A	25E10-10	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	VAL-24.0802A DISCONNECT >> VAL-24.0802A POWER					P-25-184B	25E10-10	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT CONDUIT TEE >> VAL-24.0802A POWER				P-25-184C	P-25-184C	25E10-10	1"	12	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12 3 #12 3 #12 3 #12	CONDUIT TEE DP-A >> VAL-24.0802B POWER >> VAL-24.0804B POWER >> VAL-24.0804A POWER >> VAL-24.0802A POWER				P-25-183C P-25-183C P-25-183C P-25-184B
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P-25-154B	25E10-10	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT CONDUIT TEE >> VAL-24.0502A POWER				P-25-154C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
P-25-154C	25E10-10	1"	12	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12 3 #12 3 #12 3 #12	CONDUIT TEE DP-A >> VAL-24.0502B POWER >> VAL-24.0504B POWER >> VAL-24.0504A POWER >> VAL-24.0502A POWER				P-25-153C P-25-153C P-25-153C P-25-154B																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
P-25-161A	25E10-10	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	VAL-24.0602B DISCONNECT >> VAL-24.0602B POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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User: svcPW

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo Std Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: mpacheco

CONDUIT SCHEDULE AREA 25										11/10/20
BRACKISH WATER DESALINATION PROJECT										
WATER TREATMENT PLANT										
CONDUIT			CONDUCTORS			GROUND				
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION	CONNECTING SEGMENTS
P-25-201A	25E10-06	3.5"	1 2 2	3/C-#4/0:VFD #12 #14	VFD XHHW-2 XHHW-2		#3	INTEGRAL	FR: PMP-25.0001 JUNCTION BOX TO: 1 3/C-#4/0:VFD >> PMP-25.0001 POWER 2 #12 >> MWH-25.0001 POWER 2 #14 >> TSH-25.0001 CONTROL	
P-25-201B	25E10-06 25E10-07	3"	1	3/C-#4/0:VFD	VFD		#3	INTEGRAL	FR: JUNCTION BOX TO: VFD-25.0001 1 3/C-#4/0:VFD >> PMP-25.0001 POWER	
P-25-201C	25E10-07	2.5"	3	350	XHHW-2	1	#4	XHHW-2	FR: VFD-25.0001 SWBD-F1 TO: 3 350 >> VFD-25.0001 POWER	
P-25-201D	25E10-07	2.5"	1	PULL	ROPE		#4		FR: VFD-25.0001 SWBD-F1 TO: 1 PULL >> SPARE	
P-25-202A	25E10-06	3.5"	1 2 2	3/C-#4/0:VFD #12 #14	VFD XHHW-2 XHHW-2		#3	INTEGRAL	FR: PMP-25.0002 JUNCTION BOX TO: 1 3/C-#4/0:VFD >> PMP-25.0002 POWER 2 #12 >> MWH-25.0002 POWER 2 #14 >> TSH-25.0002 CONTROL	
P-25-202B	25E10-06 25E10-07	3"	1	3/C-#4/0:VFD	VFD		#3	INTEGRAL	FR: JUNCTION BOX TO: 1 3/C-#4/0:VFD >> PMP-25.0002 POWER	
P-25-202C	25E10-07	2.5"	3	350	XHHW-2	1	#4	XHHW-2	FR: VFD-25.0002 SWBD-F1 TO: 3 350 >> VFD-25.0002 POWER	
P-25-202D	25E10-07	2.5"	1	PULL	ROPE		#4		FR: VFD-25.0002 SWBD-F1 TO: 1 PULL >> SPARE	
P-25-203A	25E10-06	3.5"	1 2 2	3/C-#4/0:VFD #12 #14	VFD XHHW-2 XHHW-2		#3	INTEGRAL	FR: PMP-25.0003 JUNCTION BOX TO: 1 3/C-#4/0:VFD >> PMP-25.0003 POWER 2 #12 >> MWH-25.0003 POWER 2 #14 >> TSH-25.0003 CONTROL	
P-25-203B	25E10-06 25E10-07	3"	1	3/C-#4/0:VFD	VFD		#3	INTEGRAL	FR: JUNCTION BOX TO: 1 3/C-#4/0:VFD >> PMP-25.0003 POWER	
P-25-203C	25E10-07	2.5"	3	350	XHHW-2	1	#4	XHHW-2	FR: VFD-25.0003 SWBD-F1 TO: 3 350 >> VFD-25.0003 POWER	
P-25-203D	25E10-07	2.5"	1	PULL	ROPE		#4		FR: VFD-25.0003 SWBD-F1 TO: 1 PULL >> SPARE	
P-25-204B	25E10-06 25E10-07	3"	1	PULL	ROPE		#3		FR: CLEARWELL TO: VFD-25.0004 (FUTURE) 1 PULL >> SPARE	
P-25-204C	25E10-07	2.5"	1	PULL	ROPE		#4		FR: VFD-25.0004 (FUTURE) TO: SWBD-F1 1 PULL >> SPARE	
P-25-204D	25E10-07	2.5"	1	PULL	ROPE		#4		FR: VFD-25.0004 (FUTURE) TO: SWBD-F1 1 PULL >> SPARE	
P-25-210A	25E01-02	1"	3	#12	XHHW-2	1	#12	XHHW-2	FR: G-25.0004A DISCONNECT TO: 3 #12 >> G-25.0004A POWER	
P-25-210B	25E01-02	1"	3	#12	XHHW-2	1	#12	XHHW-2	FR: DISCONNECT CONDUIT TEE TO: 3 #12 >> G-25.0004A POWER	P-25-214C
P-25-211A	25E10-06	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: VAL-25.0001F DISCONNECT TO: 3 #12 >> VAL-25.0001F POWER	
P-25-211B	25E10-06 25E10-07	1"	3	#12	XHHW-2	1	#12	XHHW-2	FR: DISCONNECT SWBD-F1 TO: 3 #12 >> VAL-25.0001F POWER	

CONDUIT SCHEDULE AREA 25										11/10/20
BRACKISH WATER DESALINATION PROJECT										
WATER TREATMENT PLANT										
CONDUIT			CONDUCTORS			GROUND				
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION	CONNECTING SEGMENTS
P-25-212A	25E10-06	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: G-25.0004B DISCONNECT TO: 3 #12 >> G-25.0004B POWER	
P-25-212B	25E10-06	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: DISCONNECT CONDUIT TEE TO: 3 #12 >> G-25.0004B POWER	P-25-213C
P-25-213A	25E10-06	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: G-25.0004F DISCONNECT TO: 3 #12 >> G-25.0004F POWER	
P-25-213B	25E10-06	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: DISCONNECT CONDUIT TEE TO: 3 #12 >> G-25.0004F POWER	P-25-213C
P-25-213C	25E10-06 25E10-07	1"	6	#12	XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE SWBD-F1 TO: 3 #12 >> G-25.0004B POWER 3 #12 >> G-25.0004F POWER	P-25-212B P-25-213B
P-25-214A	25E01-02	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: G-25.0004E DISCONNECT TO: 3 #12 >> G-25.0004E POWER	
P-25-214B	25E01-02	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: DISCONNECT CONDUIT TEE TO: 3 #12 >> G-25.0004E POWER	P-25-214C
P-25-214C	25E01-02 25E10-06 25E10-07	0.75"	6	#12	XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE SWBD-F1 TO: 3 #12 >> G-25.0004A POWER 3 #12 >> G-25.0004E POWER	P-25-210B P-25-214B
P-25-215A	25E01-02	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: G-25.0004D DISCONNECT TO: 3 #12 >> G-25.0004D POWER	
P-25-215B	25E01-02 25E10-06 25E10-07	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: DISCONNECT SWBD-F1 TO: 3 #12 >> G-25.0004D POWER	
P-25-216A	25E10-06	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: G-25.0004C DISCONNECT TO: 3 #12 >> G-25.0004C POWER	
P-25-216B	25E10-06 25E10-07	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: DISCONNECT SWBD-F1 TO: 3 #12 >> G-25.0004C POWER	
P-25-219A	25E10-06 25E10-07	1"	3	#12	XHHW-2	1	#12	XHHW-2	FR: PMP-25.0020A LCP-25.0020A TO: 3 #12 >> PMP-25.0020A POWER	
P-25-219B	25E10-07	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: LCP-25.0020A SWBD-F1 TO: 3 #12 >> PMP-25.0020A POWER	
P-25-220A	25E10-06 25E10-07	1"	3	#12	XHHW-2	1	#12	XHHW-2	FR: PMP-25.0020 LCP-25.0020 TO: 3 #12 >> PMP-25.0020 POWER	
P-25-220B	25E10-07	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: LCP-25.0020 SWBD-F1 TO: 3 #12 >> PMP-25.0020 POWER	
P-25-221A	25E10-07	4"	3	750	XHHW-2	1	#4/0	XHHW-2	FR: SWBD-F1 XFMR-F1 TO: 3 750 >> SWBD-F1 POWER	
P-25-221B	25E10-07	4"	3	750	XHHW-2	1	#4/0	XHHW-2	FR: SWBD-F1 XFMR-F1 TO: 3 750 >> SWBD-F1 POWER	
P-25-221C	25E10-07	4"	3	750	XHHW-2	1	#4/0	XHHW-2	FR: SWBD-F1 XFMR-F1 TO: 3 750 >> SWBD-F1 POWER	
P-25-221D	25E10-07	4"	3	750	XHHW-2	1	#4/0	XHHW-2	FR: SWBD-F1 XFMR-F1 TO: 3 750 >> SWBD-F1 POWER	

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						DESIGNED AB	
						DRAWN BPR	
						CHECKED JGB	
						DATE SEPTEMBER 2020	
1 REV	11-10-20 DATE	AB BY	REVISED PER ADDENDUM NO.4 DESCRIPTION				



CITY OF ANTIOCH				VERIFY SCALES	JOB NO. 10024A.10
ANTIOCH BRACKISH WATER DESALINATION PROJECT				BAR IS ONE INCH ON ORIGINAL DRAWING 0 1"	DRAWING NO. 25E05-16
ELECTRICAL				IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 293 OF 498
WATER TREATMENT PLANT CONDUIT SCHEDULE - 16					

Plot Date: 10-NOV-2020 4:09:42 PM

User: svcPW

Model: Layout1

ColorTable: gshade.ctb DesignScript: Carollo Std Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: mpacheco

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<div>CONDUIT SCHEDULE AREA 2511/10/20</div> <div>BRACKISH WATER DESALINATION PROJECT</div> <div>WATER TREATMENT PLANT</div> <table><tr><th colspan="3">CONDUIT</th><th colspan="3">CONDUCTORS</th><th colspan="3">GROUND</th><th rowspan="2">DESCRIPTION</th><th rowspan="2">CONNECTING SEGMENTS</th></tr><tr><th>NUMBER</th><th>DWG</th><th>SIZE</th><th>#</th><th>SIZE</th><th>TYPE</th><th>#</th><th>SIZE</th><th>TYPE</th></tr><tr><td>P-25-225A</td><td>25E10-07</td><td>1.5"</td><td>3</td><td>#3</td><td>XHHW-2</td><td>1</td><td>#8</td><td>XHHW-2</td><td>FR: MPC-F1 TO: SWBD-F1 3 #3 >> MPC-F1 POWER</td><td></td></tr><tr><td>P-25-301A</td><td>25E10-08</td><td>2"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: VAL-21.0601A TO: DISCONNECT 3 #12 >> VAL-21.0601A POWER</td><td></td></tr><tr><td>P-25-301B</td><td>25E10-08 25E01-01</td><td>2"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: DISCONNECT TO: HH-1 3 #12 >> VAL-21.0601A POWER</td><td>P-25-302C</td></tr><tr><td>P-25-302A</td><td>25E10-08</td><td>2"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: VAL-21.0601B TO: DISCONNECT 3 #12 >> VAL-21.0601B POWER</td><td></td></tr><tr><td>P-25-302B</td><td>25E10-08 25E01-01</td><td>2"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: DISCONNECT TO: HH-1 3 #12 >> VAL-21.0601B POWER</td><td>P-25-302C</td></tr><tr><td>P-25-302C</td><td>25E01-01 25E10-08</td><td>2"</td><td>6</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: PULLBOX TO: MCC-C1 3 #12 >> VAL-21.0601A POWER 3 #12 >> VAL-21.0601B POWER</td><td>P-25-301B P-25-302B</td></tr><tr><td>P-25-306A</td><td>25E10-08</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: VAL-21.0602E TO: DISCONNECT 3 #12 >> VAL-21.0602E POWER</td><td></td></tr><tr><td>P-25-306B</td><td>25E10-08</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: DISCONNECT TO: CONDUIT TEE 3 #12 >> VAL-21.0602E POWER</td><td>P-25-307C</td></tr><tr><td>P-25-307A</td><td>25E10-08</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: VAL-21.0602F TO: DISCONNECT 3 #12 >> VAL-21.0602F POWER</td><td></td></tr><tr><td>P-25-307B</td><td>25E10-08</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: DISCONNECT TO: CONDUIT TEE 3 #12 >> VAL-21.0602F POWER</td><td>P-25-307C</td></tr><tr><td>P-25-307C</td><td>25E10-08</td><td>2"</td><td>6</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: CONDUIT TEE TO: DP-RO 3 #12 >> VAL-21.0602E POWER 3 #12 >> VAL-21.0602F POWER</td><td>P-25-306B P-25-307B</td></tr><tr><td>P-25-326A</td><td>25E01-02</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: MIX-21.0701 TO: VCP-21.0701 3 #12 >> MIX-21.0701 POWER</td><td></td></tr><tr><td>P-25-326B</td><td>25E01-02 25E01-03</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: VCP-21.0701 TO: MCC-A 3 #12 >> VCP-21.0701 POWER</td><td></td></tr><tr><td>P-25-491A</td><td>25E10-05 25E15-01</td><td>2"</td><td>3</td><td>#1</td><td>XHHW-2</td><td>1</td><td>#6</td><td>XHHW-2</td><td>FR: MPC-CHEM TO: MCC-C1 3 #1 >> MPC-CHEM POWER</td><td></td></tr><tr><td>P-25-493A</td><td>25E10-05 25E15-01</td><td>2.5"</td><td>6</td><td>#2/0</td><td>XHHW-2</td><td>1</td><td>#6</td><td>XHHW-2</td><td>FR: JUNCTION BOX TO: DP-RO 3 #2/0 >> TWH-25.0001 POWER 3 #2/0 >> TWH-25.0002 POWER</td><td>P-25-493B P-25-493C</td></tr><tr><td>P-25-493B</td><td>25E10-05</td><td>2"</td><td>3</td><td>#3/0</td><td>XHHW-2</td><td>1</td><td>#6</td><td>XHHW-2</td><td>FR: TWH-25.0001 TO: DISCONNECT 3 #3/0 >> TWH-25.0001 POWER</td><td>P-25-493A</td></tr><tr><td>P-25-493C</td><td>25E10-05</td><td>2"</td><td>3</td><td>#3/0</td><td>XHHW-2</td><td>1</td><td>#6</td><td>XHHW-2</td><td>FR: DISCONNECT TO: JUNCTION BOX 3 #3/0 >> TWH-25.0001 POWER</td><td>P-25-493A</td></tr><tr><td>P-25-493D</td><td>25E10-05</td><td>2"</td><td>3</td><td>#3/0</td><td>XHHW-2</td><td>1</td><td>#6</td><td>XHHW-2</td><td>FR: TWH-25.0002 TO: DISCONNECT 3 #3/0 >> TWH-25.0002 POWER</td><td></td></tr><tr><td>P-25-493E</td><td>25E10-05</td><td>2"</td><td>3</td><td>#3/0</td><td>XHHW-2</td><td>1</td><td>#6</td><td>XHHW-2</td><td>FR: DISCONNECT TO: JUNCTION BOX 3 #3/0 >> TWH-25.0002 POWER</td><td></td></tr><tr><td>P-25-496A</td><td>25E10-05</td><td>2"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: VCP-61.1110 TO: DP-RO 3 #12 >> VCP-61.1110 POWER</td><td></td></tr></table>													CONDUIT			CONDUCTORS			GROUND			DESCRIPTION	CONNECTING SEGMENTS	NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	P-25-225A	25E10-07	1.5"	3	#3	XHHW-2	1	#8	XHHW-2	FR: MPC-F1 TO: SWBD-F1 3 #3 >> MPC-F1 POWER		P-25-301A	25E10-08	2"	3	#12	XHHW-2	1	#12	XHHW-2	FR: VAL-21.0601A TO: DISCONNECT 3 #12 >> VAL-21.0601A POWER		P-25-301B	25E10-08 25E01-01	2"	3	#12	XHHW-2	1	#12	XHHW-2	FR: DISCONNECT TO: HH-1 3 #12 >> VAL-21.0601A POWER	P-25-302C	P-25-302A	25E10-08	2"	3	#12	XHHW-2	1	#12	XHHW-2	FR: VAL-21.0601B TO: DISCONNECT 3 #12 >> VAL-21.0601B POWER		P-25-302B	25E10-08 25E01-01	2"	3	#12	XHHW-2	1	#12	XHHW-2	FR: DISCONNECT TO: HH-1 3 #12 >> VAL-21.0601B POWER	P-25-302C	P-25-302C	25E01-01 25E10-08	2"	6	#12	XHHW-2	1	#12	XHHW-2	FR: PULLBOX TO: MCC-C1 3 #12 >> VAL-21.0601A POWER 3 #12 >> VAL-21.0601B POWER	P-25-301B P-25-302B	P-25-306A	25E10-08	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: VAL-21.0602E TO: DISCONNECT 3 #12 >> VAL-21.0602E POWER		P-25-306B	25E10-08	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: DISCONNECT TO: CONDUIT TEE 3 #12 >> VAL-21.0602E POWER	P-25-307C	P-25-307A	25E10-08	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: VAL-21.0602F TO: DISCONNECT 3 #12 >> VAL-21.0602F POWER		P-25-307B	25E10-08	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: DISCONNECT TO: CONDUIT TEE 3 #12 >> VAL-21.0602F POWER	P-25-307C	P-25-307C	25E10-08	2"	6	#12	XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE TO: DP-RO 3 #12 >> VAL-21.0602E POWER 3 #12 >> VAL-21.0602F POWER	P-25-306B P-25-307B	P-25-326A	25E01-02	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: MIX-21.0701 TO: VCP-21.0701 3 #12 >> MIX-21.0701 POWER		P-25-326B	25E01-02 25E01-03	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: VCP-21.0701 TO: MCC-A 3 #12 >> VCP-21.0701 POWER		P-25-491A	25E10-05 25E15-01	2"	3	#1	XHHW-2	1	#6	XHHW-2	FR: MPC-CHEM TO: MCC-C1 3 #1 >> MPC-CHEM POWER		P-25-493A	25E10-05 25E15-01	2.5"	6	#2/0	XHHW-2	1	#6	XHHW-2	FR: JUNCTION BOX TO: DP-RO 3 #2/0 >> TWH-25.0001 POWER 3 #2/0 >> TWH-25.0002 POWER	P-25-493B P-25-493C	P-25-493B	25E10-05	2"	3	#3/0	XHHW-2	1	#6	XHHW-2	FR: TWH-25.0001 TO: DISCONNECT 3 #3/0 >> TWH-25.0001 POWER	P-25-493A	P-25-493C	25E10-05	2"	3	#3/0	XHHW-2	1	#6	XHHW-2	FR: DISCONNECT TO: JUNCTION BOX 3 #3/0 >> TWH-25.0001 POWER	P-25-493A	P-25-493D	25E10-05	2"	3	#3/0	XHHW-2	1	#6	XHHW-2	FR: TWH-25.0002 TO: DISCONNECT 3 #3/0 >> TWH-25.0002 POWER		P-25-493E	25E10-05	2"	3	#3/0	XHHW-2	1	#6	XHHW-2	FR: DISCONNECT TO: JUNCTION BOX 3 #3/0 >> TWH-25.0002 POWER		P-25-496A	25E10-05	2"	3	#12	XHHW-2	1	#12	XHHW-2	FR: VCP-61.1110 TO: DP-RO 3 #12 >> VCP-61.1110 POWER		<div>CONDUIT SCHEDULE AREA 2511/10/20</div> <div>BRACKISH WATER DESALINATION PROJECT</div> <div>WATER TREATMENT PLANT</div> <table><tr><th colspan="3">CONDUIT</th><th colspan="3">CONDUCTORS</th><th colspan="3">GROUND</th><th rowspan="2">DESCRIPTION</th><th rowspan="2">CONNECTING SEGMENTS</th></tr><tr><th>NUMBER</th><th>DWG</th><th>SIZE</th><th>#</th><th>SIZE</th><th>TYPE</th><th>#</th><th>SIZE</th><th>TYPE</th></tr><tr><td>P-25-611A</td><td>25E10-01 25E15-01</td><td>5"</td><td>1</td><td>3/C-500:VFD</td><td>VFD</td><td></td><td>500</td><td>INTEGRAL</td><td>FR: PMP-25.0101 TO: VFD-25.0101 1 3/C-500:VFD >> PMP-25.0101 POWER</td><td></td></tr><tr><td>P-25-611B</td><td>25E10-01 25E15-01</td><td>5"</td><td>1</td><td>3/C-500:VFD</td><td>VFD</td><td></td><td>500</td><td>INTEGRAL</td><td>FR: PMP-25.0101 TO: VFD-25.0101 1 3/C-500:VFD >> PMP-25.0101 POWER</td><td></td></tr><tr><td>P-25-612A</td><td>25E15-02</td><td>3"</td><td>3</td><td>350</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: VFD-25.0101 TO: SWGR-RO1 3 350 >> VFD-25.0101 POWER</td><td></td></tr><tr><td>P-25-612B</td><td>25E15-02</td><td>3"</td><td>3</td><td>350</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: VFD-25.0101 TO: SWGR-RO1 3 350 >> VFD-25.0101 POWER</td><td></td></tr><tr><td>P-25-612C</td><td>25E15-02</td><td>3"</td><td>3</td><td>350</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: VFD-25.0101 TO: SWGR-RO1 3 350 >> VFD-25.0101 POWER</td><td></td></tr><tr><td>P-25-614A</td><td>25E10-01</td><td>0.75"</td><td>3</td><td>#10</td><td>XHHW-2</td><td>1</td><td>#10</td><td>XHHW-2</td><td>FR: POWER JUNCTION BOX TO: CONDUIT TEE 3 #10 >> RO TRAIN NO.1 POWER</td><td>P-25-614B</td></tr><tr><td>P-25-614B</td><td>25E10-01 25E10-02 25E15-01</td><td>1.5"</td><td>12</td><td>#10</td><td>XHHW-2</td><td>1</td><td>#10</td><td>XHHW-2</td><td>FR: CONDUIT TEE TO: DP-RO 3 #10 >> RO TRAIN NO.1 POWER 3 #10 >> RO TRAIN NO.2 POWER 3 #10 >> RO TRAIN NO.3 POWER 3 #10 >> RO TRAIN NO.4 POWER</td><td>P-25-614A P-25-624B P-25-624B P-25-624B</td></tr><tr><td>P-25-616A</td><td>25E10-02 25E15-01</td><td>3"</td><td>1</td><td>3/C-#3/0:VFD</td><td>VFD</td><td></td><td>#3/0</td><td>INTEGRAL</td><td>FR: PMP-25.0104 TO: VFD-25.0104 1 3/C-#3/0:VFD >> PMP-25.0104 POWER</td><td></td></tr><tr><td>P-25-616B</td><td>25E10-02 25E15-01</td><td>3"</td><td>1</td><td>3/C-#3/0:VFD</td><td>VFD</td><td></td><td>#3/0</td><td>INTEGRAL</td><td>FR: PMP-25.0104 TO: VFD-25.0104 1 3/C-#3/0:VFD >> PMP-25.0104 POWER</td><td></td></tr><tr><td>P-25-617A</td><td>25E15-02</td><td>2.5"</td><td>3</td><td>250</td><td>XHHW-2</td><td>1</td><td>#2</td><td>XHHW-2</td><td>FR: VFD-25.0104 TO: SWGR-RO1 3 250 >> VFD-25.0104 POWER</td><td></td></tr><tr><td>P-25-617B</td><td>25E15-02</td><td>2.5"</td><td>3</td><td>250</td><td>XHHW-2</td><td>1</td><td>#2</td><td>XHHW-2</td><td>FR: VFD-25.0104 TO: SWGR-RO1 3 250 >> VFD-25.0104 POWER</td><td></td></tr><tr><td>P-25-618A</td><td>25E10-02</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: VAL-25.0101A TO: DISCONNECT 3 #12 >> VAL-25.0101A POWER</td><td></td></tr><tr><td>P-25-618B</td><td>25E10-02</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: DISCONNECT TO: CONDUIT TEE 3 #12 >> VAL-25.0101A POWER</td><td>P-25-619C</td></tr><tr><td>P-25-619A</td><td>25E10-02</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: VAL-25.0101B TO: DISCONNECT 3 #12 >> VAL-25.0101B POWER</td><td></td></tr><tr><td>P-25-619B</td><td>25E10-02</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: DISCONNECT TO: CONDUIT TEE 3 #12 >> VAL-25.0101B POWER</td><td>P-25-619C</td></tr><tr><td>P-25-619C</td><td>25E10-02</td><td>0.75"</td><td>6</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: CONDUIT TEE TO: CONDUIT TEE 3 #12 >> VAL-25.0101B POWER 3 #12 >> VAL-25.0101B POWER</td><td>P-25-619D P-25-618B P-25-619B</td></tr><tr><td>P-25-619D</td><td>25E10-02 25E15-01</td><td>1"</td><td>12</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: CONDUIT TEE TO: DP-RO 3 #12 >> VAL-25.0201A POWER 3 #12 >> VAL-25.0201B POWER 3 #12 >> VAL-25.0101A POWER 3 #12 >> VAL-25.0101B POWER</td><td>P-25-629C P-25-629C P-25-619C P-25-619C</td></tr><tr><td>P-25-621A</td><td>25E10-01 25E10-02 25E15-01</td><td>5"</td><td>1</td><td>3/C-500:VFD</td><td>VFD</td><td></td><td>500</td><td>INTEGRAL</td><td>FR: PMP-25.0201 TO: VFD-25.0201 1 3/C-500:VFD >> PMP-25.0201 POWER</td><td></td></tr><tr><td>P-25-621B</td><td>25E10-01 25E10-02 25E15-01</td><td>5"</td><td>1</td><td>3/C-500:VFD</td><td>VFD</td><td></td><td>500</td><td>INTEGRAL</td><td>FR: PMP-25.0201 TO: VFD-25.0201 1 3/C-500:VFD >> PMP-25.0201 POWER</td><td></td></tr></table>	CONDUIT			CONDUCTORS			GROUND			DESCRIPTION	CONNECTING SEGMENTS	NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	P-25-611A	25E10-01 25E15-01	5"	1	3/C-500:VFD	VFD		500	INTEGRAL	FR: PMP-25.0101 TO: VFD-25.0101 1 3/C-500:VFD >> PMP-25.0101 POWER		P-25-611B	25E10-01 25E15-01	5"	1	3/C-500:VFD	VFD		500	INTEGRAL	FR: PMP-25.0101 TO: VFD-25.0101 1 3/C-500:VFD >> PMP-25.0101 POWER		P-25-612A	25E15-02	3"	3	350	XHHW-2	1	#2/0	XHHW-2	FR: VFD-25.0101 TO: SWGR-RO1 3 350 >> VFD-25.0101 POWER		P-25-612B	25E15-02	3"	3	350	XHHW-2	1	#2/0	XHHW-2	FR: VFD-25.0101 TO: SWGR-RO1 3 350 >> VFD-25.0101 POWER		P-25-612C	25E15-02	3"	3	350	XHHW-2	1	#2/0	XHHW-2	FR: VFD-25.0101 TO: SWGR-RO1 3 350 >> VFD-25.0101 POWER		P-25-614A	25E10-01	0.75"	3	#10	XHHW-2	1	#10	XHHW-2	FR: POWER JUNCTION BOX TO: CONDUIT TEE 3 #10 >> RO TRAIN NO.1 POWER	P-25-614B	P-25-614B	25E10-01 25E10-02 25E15-01	1.5"	12	#10	XHHW-2	1	#10	XHHW-2	FR: CONDUIT TEE TO: DP-RO 3 #10 >> RO TRAIN NO.1 POWER 3 #10 >> RO TRAIN NO.2 POWER 3 #10 >> RO TRAIN NO.3 POWER 3 #10 >> RO TRAIN NO.4 POWER	P-25-614A P-25-624B P-25-624B P-25-624B	P-25-616A	25E10-02 25E15-01	3"	1	3/C-#3/0:VFD	VFD		#3/0	INTEGRAL	FR: PMP-25.0104 TO: VFD-25.0104 1 3/C-#3/0:VFD >> PMP-25.0104 POWER		P-25-616B	25E10-02 25E15-01	3"	1	3/C-#3/0:VFD	VFD		#3/0	INTEGRAL	FR: PMP-25.0104 TO: VFD-25.0104 1 3/C-#3/0:VFD >> PMP-25.0104 POWER		P-25-617A	25E15-02	2.5"	3	250	XHHW-2	1	#2	XHHW-2	FR: VFD-25.0104 TO: SWGR-RO1 3 250 >> VFD-25.0104 POWER		P-25-617B	25E15-02	2.5"	3	250	XHHW-2	1	#2	XHHW-2	FR: VFD-25.0104 TO: SWGR-RO1 3 250 >> VFD-25.0104 POWER		P-25-618A	25E10-02	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: VAL-25.0101A TO: DISCONNECT 3 #12 >> VAL-25.0101A POWER		P-25-618B	25E10-02	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: DISCONNECT TO: CONDUIT TEE 3 #12 >> VAL-25.0101A POWER	P-25-619C	P-25-619A	25E10-02	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: VAL-25.0101B TO: DISCONNECT 3 #12 >> VAL-25.0101B POWER		P-25-619B	25E10-02	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: DISCONNECT TO: CONDUIT TEE 3 #12 >> VAL-25.0101B POWER	P-25-619C	P-25-619C	25E10-02	0.75"	6	#12	XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 3 #12 >> VAL-25.0101B POWER 3 #12 >> VAL-25.0101B POWER	P-25-619D P-25-618B P-25-619B	P-25-619D	25E10-02 25E15-01	1"	12	#12	XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE TO: DP-RO 3 #12 >> VAL-25.0201A POWER 3 #12 >> VAL-25.0201B POWER 3 #12 >> VAL-25.0101A POWER 3 #12 >> VAL-25.0101B POWER	P-25-629C P-25-629C P-25-619C P-25-619C	P-25-621A	25E10-01 25E10-02 25E15-01	5"	1	3/C-500:VFD	VFD		500	INTEGRAL	FR: PMP-25.0201 TO: VFD-25.0201 1 3/C-500:VFD >> PMP-25.0201 POWER		P-25-621B	25E10-01 25E10-02 25E15-01	5"	1	3/C-500:VFD	VFD		500	INTEGRAL	FR: PMP-25.0201 TO: VFD-25.0201 1 3/C-500:VFD >> PMP-25.0201 POWER	
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P-25-225A	25E10-07	1.5"	3	#3	XHHW-2	1	#8	XHHW-2	FR: MPC-F1 TO: SWBD-F1 3 #3 >> MPC-F1 POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
P-25-301A	25E10-08	2"	3	#12	XHHW-2	1	#12	XHHW-2	FR: VAL-21.0601A TO: DISCONNECT 3 #12 >> VAL-21.0601A POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
P-25-301B	25E10-08 25E01-01	2"	3	#12	XHHW-2	1	#12	XHHW-2	FR: DISCONNECT TO: HH-1 3 #12 >> VAL-21.0601A POWER	P-25-302C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
P-25-302A	25E10-08	2"	3	#12	XHHW-2	1	#12	XHHW-2	FR: VAL-21.0601B TO: DISCONNECT 3 #12 >> VAL-21.0601B POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
P-25-302B	25E10-08 25E01-01	2"	3	#12	XHHW-2	1	#12	XHHW-2	FR: DISCONNECT TO: HH-1 3 #12 >> VAL-21.0601B POWER	P-25-302C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
P-25-302C	25E01-01 25E10-08	2"	6	#12	XHHW-2	1	#12	XHHW-2	FR: PULLBOX TO: MCC-C1 3 #12 >> VAL-21.0601A POWER 3 #12 >> VAL-21.0601B POWER	P-25-301B P-25-302B																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
P-25-306A	25E10-08	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: VAL-21.0602E TO: DISCONNECT 3 #12 >> VAL-21.0602E POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
P-25-306B	25E10-08	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: DISCONNECT TO: CONDUIT TEE 3 #12 >> VAL-21.0602E POWER	P-25-307C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
P-25-307A	25E10-08	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: VAL-21.0602F TO: DISCONNECT 3 #12 >> VAL-21.0602F POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
P-25-307B	25E10-08	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: DISCONNECT TO: CONDUIT TEE 3 #12 >> VAL-21.0602F POWER	P-25-307C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
P-25-307C	25E10-08	2"	6	#12	XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE TO: DP-RO 3 #12 >> VAL-21.0602E POWER 3 #12 >> VAL-21.0602F POWER	P-25-306B P-25-307B																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
P-25-326A	25E01-02	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: MIX-21.0701 TO: VCP-21.0701 3 #12 >> MIX-21.0701 POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
P-25-326B	25E01-02 25E01-03	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: VCP-21.0701 TO: MCC-A 3 #12 >> VCP-21.0701 POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
P-25-491A	25E10-05 25E15-01	2"	3	#1	XHHW-2	1	#6	XHHW-2	FR: MPC-CHEM TO: MCC-C1 3 #1 >> MPC-CHEM POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
P-25-493A	25E10-05 25E15-01	2.5"	6	#2/0	XHHW-2	1	#6	XHHW-2	FR: JUNCTION BOX TO: DP-RO 3 #2/0 >> TWH-25.0001 POWER 3 #2/0 >> TWH-25.0002 POWER	P-25-493B P-25-493C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
P-25-493B	25E10-05	2"	3	#3/0	XHHW-2	1	#6	XHHW-2	FR: TWH-25.0001 TO: DISCONNECT 3 #3/0 >> TWH-25.0001 POWER	P-25-493A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
P-25-493C	25E10-05	2"	3	#3/0	XHHW-2	1	#6	XHHW-2	FR: DISCONNECT TO: JUNCTION BOX 3 #3/0 >> TWH-25.0001 POWER	P-25-493A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
P-25-493D	25E10-05	2"	3	#3/0	XHHW-2	1	#6	XHHW-2	FR: TWH-25.0002 TO: DISCONNECT 3 #3/0 >> TWH-25.0002 POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
P-25-493E	25E10-05	2"	3	#3/0	XHHW-2	1	#6	XHHW-2	FR: DISCONNECT TO: JUNCTION BOX 3 #3/0 >> TWH-25.0002 POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
P-25-496A	25E10-05	2"	3	#12	XHHW-2	1	#12	XHHW-2	FR: VCP-61.1110 TO: DP-RO 3 #12 >> VCP-61.1110 POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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P-25-611A	25E10-01 25E15-01	5"	1	3/C-500:VFD	VFD		500	INTEGRAL	FR: PMP-25.0101 TO: VFD-25.0101 1 3/C-500:VFD >> PMP-25.0101 POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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P-25-612A	25E15-02	3"	3	350	XHHW-2	1	#2/0	XHHW-2	FR: VFD-25.0101 TO: SWGR-RO1 3 350 >> VFD-25.0101 POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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P-25-614A	25E10-01	0.75"	3	#10	XHHW-2	1	#10	XHHW-2	FR: POWER JUNCTION BOX TO: CONDUIT TEE 3 #10 >> RO TRAIN NO.1 POWER	P-25-614B																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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P-25-617A	25E15-02	2.5"	3	250	XHHW-2	1	#2	XHHW-2	FR: VFD-25.0104 TO: SWGR-RO1 3 250 >> VFD-25.0104 POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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P-25-618A	25E10-02	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: VAL-25.0101A TO: DISCONNECT 3 #12 >> VAL-25.0101A POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
P-25-618B	25E10-02	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: DISCONNECT TO: CONDUIT TEE 3 #12 >> VAL-25.0101A POWER	P-25-619C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
P-25-619A	25E10-02	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: VAL-25.0101B TO: DISCONNECT 3 #12 >> VAL-25.0101B POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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P-25-619D	25E10-02 25E15-01	1"	12	#12	XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE TO: DP-RO 3 #12 >> VAL-25.0201A POWER 3 #12 >> VAL-25.0201B POWER 3 #12 >> VAL-25.0101A POWER 3 #12 >> VAL-25.0101B POWER	P-25-629C P-25-629C P-25-619C P-25-619C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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<div><div><div>CONDUIT SCHEDULE AREA 25 BRACKISH WATER DESALINATION PROJECT WATER TREATMENT PLANT</div><div>11/10/20</div><table><tr><th colspan="3">CONDUIT</th><th colspan="3">CONDUCTORS</th><th colspan="3">GROUND</th><th rowspan="2"></th><th rowspan="2">CONNECTING SEGMENTS</th></tr><tr><th>NUMBER</th><th>DWG</th><th>SIZE</th><th>#</th><th>SIZE</th><th>TYPE</th><th>#</th><th>SIZE</th><th>TYPE</th></tr><tr><td>P-25-647A</td><td>25E15-02</td><td>2.5"</td><td>3</td><td>250</td><td>XHHW-2</td><td>1</td><td>#2</td><td>XHHW-2</td><td>FR: TO: 3 250</td><td>VFD-25.0404 SWGR-RO2 >> VFD-25.0404 POWER</td></tr><tr><td>P-25-647B</td><td>25E15-02</td><td>2.5"</td><td>3</td><td>250</td><td>XHHW-2</td><td>1</td><td>#2</td><td>XHHW-2</td><td>FR: TO: 3 250</td><td>VFD-25.0404 SWGR-RO2 >> VFD-25.0404 POWER</td></tr><tr><td>P-25-648A</td><td>25E10-01</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>VAL-25.0401A DISCONNECT >> VAL-25.0401A POWER</td></tr><tr><td>P-25-648B</td><td>25E10-01</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>DISCONNECT CONDUIT TEE >> VAL-25.0401A POWER</td><td>P-25-649C</td></tr><tr><td>P-25-649A</td><td>25E10-01</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>VAL-25.0401B DISCONNECT >> VAL-25.0401B POWER</td></tr><tr><td>P-25-649B</td><td>25E10-01</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>DISCONNECT CONDUIT TEE >> VAL-25.0401B POWER</td><td>P-25-649C</td></tr><tr><td>P-25-649C</td><td>25E10-01</td><td>0.75"</td><td>6</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12 3 #12</td><td>CONDUIT TEE CONDUIT TEE >> VAL-25.0401A POWER >> VAL-25.0401B POWER</td><td>P-25-639D P-25-648B P-25-649B</td></tr><tr><td>P-25-651A</td><td>25E15-02</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#4/0</td><td>XHHW-2</td><td>FR: TO: 3 750</td><td>MCC-C1 SWGR-RO1 >> MCC-C1 POWER</td></tr><tr><td>P-25-651B</td><td>25E15-02</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#4/0</td><td>XHHW-2</td><td>FR: TO: 3 750</td><td>MCC-C1 SWGR-RO1 >> MCC-C1 POWER</td></tr><tr><td>P-25-651C</td><td>25E15-02</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#4/0</td><td>XHHW-2</td><td>FR: TO: 3 750</td><td>MCC-C1 SWGR-RO1 >> MCC-C1 POWER</td></tr><tr><td>P-25-651D</td><td>25E15-02</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#4/0</td><td>XHHW-2</td><td>FR: TO: 3 750</td><td>MCC-C1 SWGR-RO1 >> MCC-C1 POWER</td></tr><tr><td>P-25-691A</td><td>25E15-03 25E15-02</td><td>0.75"</td><td>3</td><td>#8</td><td>XHHW-2</td><td>1</td><td>#10</td><td>XHHW-2</td><td>FR: TO: 3 #8</td><td>AHU-79.3101 MCC-C1 >> AHU-79.3101 POWER</td></tr><tr><td>P-25-692A</td><td>25E10-02 25E15-02</td><td>2"</td><td>3</td><td>#2/0</td><td>XHHW-2</td><td>1</td><td>#6</td><td>XHHW-2</td><td>FR: TO: 3 #2/0</td><td>CDU-79.3102 MCC-C1 >> CDU-79.3102 POWER</td></tr><tr><td>P-25-694A</td><td>25E10-02 25E15-02</td><td>2"</td><td>1</td><td>PULL</td><td>ROPE</td><td></td><td></td><td></td><td>FR: TO: 1 PULL</td><td>CDU-79.3104 (FUTURE) MCC-C1 >> SPARE</td></tr><tr><td>P-25-695A</td><td>25E10-03</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>EF-79.3105 DISCONNECT >> EF-79.3105 POWER</td></tr><tr><td>P-25-695B</td><td>25E10-03</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>DISCONNECT JUNCTION BOX >> EF-79.3105 POWER</td><td>P-25-699C</td></tr><tr><td>P-25-696A</td><td>25E10-03</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>SF-79.3106 DISCONNECT >> SF-79.3106 POWER</td></tr><tr><td>P-25-696B</td><td>25E10-03</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>DISCONNECT JUNCTION BOX >> SF-79.3106 POWER</td><td>P-25-698C</td></tr><tr><td>P-25-697A</td><td>25E10-01</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>EF-79.3107 DISCONNECT >> EF-79.3107 POWER</td></tr><tr><td>P-25-697B</td><td>25E10-01</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>DISCONNECT JUNCTION BOX >> EF-79.3107 POWER</td><td>P-25-700C</td></tr></table></div></div>													CONDUIT			CONDUCTORS			GROUND				CONNECTING SEGMENTS	NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	P-25-647A	25E15-02	2.5"	3	250	XHHW-2	1	#2	XHHW-2	FR: TO: 3 250	VFD-25.0404 SWGR-RO2 >> VFD-25.0404 POWER	P-25-647B	25E15-02	2.5"	3	250	XHHW-2	1	#2	XHHW-2	FR: TO: 3 250	VFD-25.0404 SWGR-RO2 >> VFD-25.0404 POWER	P-25-648A	25E10-01	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	VAL-25.0401A DISCONNECT >> VAL-25.0401A POWER	P-25-648B	25E10-01	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT CONDUIT TEE >> VAL-25.0401A POWER	P-25-649C	P-25-649A	25E10-01	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	VAL-25.0401B DISCONNECT >> VAL-25.0401B POWER	P-25-649B	25E10-01	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT CONDUIT TEE >> VAL-25.0401B POWER	P-25-649C	P-25-649C	25E10-01	0.75"	6	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12 3 #12	CONDUIT TEE CONDUIT TEE >> VAL-25.0401A POWER >> VAL-25.0401B POWER	P-25-639D P-25-648B P-25-649B	P-25-651A	25E15-02	4"	3	750	XHHW-2	1	#4/0	XHHW-2	FR: TO: 3 750	MCC-C1 SWGR-RO1 >> MCC-C1 POWER	P-25-651B	25E15-02	4"	3	750	XHHW-2	1	#4/0	XHHW-2	FR: TO: 3 750	MCC-C1 SWGR-RO1 >> MCC-C1 POWER	P-25-651C	25E15-02	4"	3	750	XHHW-2	1	#4/0	XHHW-2	FR: TO: 3 750	MCC-C1 SWGR-RO1 >> MCC-C1 POWER	P-25-651D	25E15-02	4"	3	750	XHHW-2	1	#4/0	XHHW-2	FR: TO: 3 750	MCC-C1 SWGR-RO1 >> MCC-C1 POWER	P-25-691A	25E15-03 25E15-02	0.75"	3	#8	XHHW-2	1	#10	XHHW-2	FR: TO: 3 #8	AHU-79.3101 MCC-C1 >> AHU-79.3101 POWER	P-25-692A	25E10-02 25E15-02	2"	3	#2/0	XHHW-2	1	#6	XHHW-2	FR: TO: 3 #2/0	CDU-79.3102 MCC-C1 >> CDU-79.3102 POWER	P-25-694A	25E10-02 25E15-02	2"	1	PULL	ROPE				FR: TO: 1 PULL	CDU-79.3104 (FUTURE) MCC-C1 >> SPARE	P-25-695A	25E10-03	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	EF-79.3105 DISCONNECT >> EF-79.3105 POWER	P-25-695B	25E10-03	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT JUNCTION BOX >> EF-79.3105 POWER	P-25-699C	P-25-696A	25E10-03	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	SF-79.3106 DISCONNECT >> SF-79.3106 POWER	P-25-696B	25E10-03	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT JUNCTION BOX >> SF-79.3106 POWER	P-25-698C	P-25-697A	25E10-01	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	EF-79.3107 DISCONNECT >> EF-79.3107 POWER	P-25-697B	25E10-01	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT JUNCTION BOX >> EF-79.3107 POWER	P-25-700C
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P-25-647A	25E15-02	2.5"	3	250	XHHW-2	1	#2	XHHW-2	FR: TO: 3 250	VFD-25.0404 SWGR-RO2 >> VFD-25.0404 POWER																																																																																																																																																																																																																																																								
P-25-647B	25E15-02	2.5"	3	250	XHHW-2	1	#2	XHHW-2	FR: TO: 3 250	VFD-25.0404 SWGR-RO2 >> VFD-25.0404 POWER																																																																																																																																																																																																																																																								
P-25-648A	25E10-01	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	VAL-25.0401A DISCONNECT >> VAL-25.0401A POWER																																																																																																																																																																																																																																																								
P-25-648B	25E10-01	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT CONDUIT TEE >> VAL-25.0401A POWER	P-25-649C																																																																																																																																																																																																																																																							
P-25-649A	25E10-01	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	VAL-25.0401B DISCONNECT >> VAL-25.0401B POWER																																																																																																																																																																																																																																																								
P-25-649B	25E10-01	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT CONDUIT TEE >> VAL-25.0401B POWER	P-25-649C																																																																																																																																																																																																																																																							
P-25-649C	25E10-01	0.75"	6	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12 3 #12	CONDUIT TEE CONDUIT TEE >> VAL-25.0401A POWER >> VAL-25.0401B POWER	P-25-639D P-25-648B P-25-649B																																																																																																																																																																																																																																																							
P-25-651A	25E15-02	4"	3	750	XHHW-2	1	#4/0	XHHW-2	FR: TO: 3 750	MCC-C1 SWGR-RO1 >> MCC-C1 POWER																																																																																																																																																																																																																																																								
P-25-651B	25E15-02	4"	3	750	XHHW-2	1	#4/0	XHHW-2	FR: TO: 3 750	MCC-C1 SWGR-RO1 >> MCC-C1 POWER																																																																																																																																																																																																																																																								
P-25-651C	25E15-02	4"	3	750	XHHW-2	1	#4/0	XHHW-2	FR: TO: 3 750	MCC-C1 SWGR-RO1 >> MCC-C1 POWER																																																																																																																																																																																																																																																								
P-25-651D	25E15-02	4"	3	750	XHHW-2	1	#4/0	XHHW-2	FR: TO: 3 750	MCC-C1 SWGR-RO1 >> MCC-C1 POWER																																																																																																																																																																																																																																																								
P-25-691A	25E15-03 25E15-02	0.75"	3	#8	XHHW-2	1	#10	XHHW-2	FR: TO: 3 #8	AHU-79.3101 MCC-C1 >> AHU-79.3101 POWER																																																																																																																																																																																																																																																								
P-25-692A	25E10-02 25E15-02	2"	3	#2/0	XHHW-2	1	#6	XHHW-2	FR: TO: 3 #2/0	CDU-79.3102 MCC-C1 >> CDU-79.3102 POWER																																																																																																																																																																																																																																																								
P-25-694A	25E10-02 25E15-02	2"	1	PULL	ROPE				FR: TO: 1 PULL	CDU-79.3104 (FUTURE) MCC-C1 >> SPARE																																																																																																																																																																																																																																																								
P-25-695A	25E10-03	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	EF-79.3105 DISCONNECT >> EF-79.3105 POWER																																																																																																																																																																																																																																																								
P-25-695B	25E10-03	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT JUNCTION BOX >> EF-79.3105 POWER	P-25-699C																																																																																																																																																																																																																																																							
P-25-696A	25E10-03	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	SF-79.3106 DISCONNECT >> SF-79.3106 POWER																																																																																																																																																																																																																																																								
P-25-696B	25E10-03	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT JUNCTION BOX >> SF-79.3106 POWER	P-25-698C																																																																																																																																																																																																																																																							
P-25-697A	25E10-01	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	EF-79.3107 DISCONNECT >> EF-79.3107 POWER																																																																																																																																																																																																																																																								
P-25-697B	25E10-01	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT JUNCTION BOX >> EF-79.3107 POWER	P-25-700C																																																																																																																																																																																																																																																							
<div><div><div>CONDUIT SCHEDULE AREA 25 BRACKISH WATER DESALINATION PROJECT WATER TREATMENT PLANT</div><div>11/10/20</div><table><tr><th colspan="3">CONDUIT</th><th colspan="3">CONDUCTORS</th><th colspan="3">GROUND</th><th rowspan="2"></th><th rowspan="2">CONNECTING SEGMENTS</th></tr><tr><th>NUMBER</th><th>DWG</th><th>SIZE</th><th>#</th><th>SIZE</th><th>TYPE</th><th>#</th><th>SIZE</th><th>TYPE</th></tr><tr><td>P-25-698A</td><td>25E10-03</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>SF-79.3108 DISCONNECT >> SF-79.3108 POWER</td></tr><tr><td>P-25-698B</td><td>25E10-03</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>DISCONNECT JUNCTION BOX >> SF-79.3108 POWER</td><td>P-25-698C</td></tr><tr><td>P-25-698C</td><td>25E10-03 25E10-04 25E15-01</td><td>1.5"</td><td>6 28</td><td>#12 #14</td><td>XHHW-2 XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12 10 #14 2 #14 2 #14 3 #12 10 #14 2 #14 2 #14</td><td>JUNCTION BOX MCC-C1 >> EF-79.3106 POWER >> LCP-79.3106 CONTROL >> T-79.3106 CONTROL >> XS-79.3106 CONTROL >> EF-79.3108 POWER >> LCP-79.3108 CONTROL >> T-79.3108 CONTROL >> XS-79.3108 CONTROL</td><td>P-25-696B C-25-696A C-25-696B C-25-696C P-25-698B C-25-698A C-25-698B C-25-698C</td></tr><tr><td>P-25-699A</td><td>25E10-03</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>EF-79.3109 DISCONNECT >> EF-79.3109 POWER</td></tr><tr><td>P-25-699B</td><td>25E10-03</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>DISCONNECT JUNCTION BOX >> EF-79.3109 POWER</td><td>P-25-699C</td></tr><tr><td>P-25-699C</td><td>25E10-03 25E10-04 25E15-01</td><td>1.5"</td><td>6 22</td><td>#12 #14</td><td>XHHW-2 XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12 10 #14 3 #12 10 #14 2 #14</td><td>JUNCTION BOX MCC-C1 >> EF-79.3105 POWER >> LCP-79.3105 CONTROL >> EF-79.3109 POWER >> LCP-79.3109 CONTROL >> T-79.3109 CONTROL</td><td>P-25-695B C-25-695A P-25-699B C-25-699A C-25-699B</td></tr><tr><td>P-25-700A</td><td>25E10-01</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>EF-79.3110 DISCONNECT >> EF-79.3110 POWER</td></tr><tr><td>P-25-700B</td><td>25E10-01</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>DISCONNECT JUNCTION BOX >> EF-79.3110 POWER</td><td>P-25-700C</td></tr><tr><td>P-25-700C</td><td>25E10-01 25E10-02 25E15-01</td><td>1.5"</td><td>6 22</td><td>#12 #14</td><td>XHHW-2 XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12 10 #14 3 #12 10 #14 2 #14</td><td>JUNCTION BOX MCC-C1 >> EF-79.3107 POWER >> LCP-79.3107 CONTROL >> EF-79.3110 POWER >> LCP-79.3110 CONTROL >> T-79.3110 CONTROL</td><td>P-25-697B C-25-697A P-25-700B C-25-700A C-25-700B</td></tr><tr><td>P-25-706A</td><td>25E10-01</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>VAL-26.0301A DISCONNECT >> VAL-26.0301A POWER</td></tr><tr><td>P-25-706B</td><td>25E10-01</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>DISCONNECT CONDUIT TEE >> VAL-26.0301A POWER</td><td>P-25-707C</td></tr><tr><td>P-25-707A</td><td>25E10-01</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>VAL-26.0301B DISCONNECT >> VAL-26.0301B POWER</td></tr><tr><td>P-25-707B</td><td>25E10-01</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>DISCONNECT CONDUIT TEE >> VAL-26.0301B POWER</td><td>P-25-707C</td></tr><tr><td>P-25-707C</td><td>25E10-01 25E10-02 25E15-01</td><td>0.75"</td><td>6</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12 3 #12</td><td>CONDUIT TEE MCC-C1 >> VAL-26.0301A POWER >> VAL-26.0301B POWER</td><td>P-25-706B P-25-707B</td></tr><tr><td>P-25-750A</td><td>25E10-02</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>VAL-25.0903E DISCONNECT >> VAL-25.0903E POWER</td></tr><tr><td>P-25-750B</td><td>25E10-02</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>DISCONNECT CONDUIT TEE >> VAL-25.0903E POWER</td><td>P-25-753C</td></tr></table></div></div>													CONDUIT			CONDUCTORS			GROUND				CONNECTING SEGMENTS	NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	P-25-698A	25E10-03	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	SF-79.3108 DISCONNECT >> SF-79.3108 POWER	P-25-698B	25E10-03	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT JUNCTION BOX >> SF-79.3108 POWER	P-25-698C	P-25-698C	25E10-03 25E10-04 25E15-01	1.5"	6 28	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12 10 #14 2 #14 2 #14 3 #12 10 #14 2 #14 2 #14	JUNCTION BOX MCC-C1 >> EF-79.3106 POWER >> LCP-79.3106 CONTROL >> T-79.3106 CONTROL >> XS-79.3106 CONTROL >> EF-79.3108 POWER >> LCP-79.3108 CONTROL >> T-79.3108 CONTROL >> XS-79.3108 CONTROL	P-25-696B C-25-696A C-25-696B C-25-696C P-25-698B C-25-698A C-25-698B C-25-698C	P-25-699A	25E10-03	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	EF-79.3109 DISCONNECT >> EF-79.3109 POWER	P-25-699B	25E10-03	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT JUNCTION BOX >> EF-79.3109 POWER	P-25-699C	P-25-699C	25E10-03 25E10-04 25E15-01	1.5"	6 22	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12 10 #14 3 #12 10 #14 2 #14	JUNCTION BOX MCC-C1 >> EF-79.3105 POWER >> LCP-79.3105 CONTROL >> EF-79.3109 POWER >> LCP-79.3109 CONTROL >> T-79.3109 CONTROL	P-25-695B C-25-695A P-25-699B C-25-699A C-25-699B	P-25-700A	25E10-01	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	EF-79.3110 DISCONNECT >> EF-79.3110 POWER	P-25-700B	25E10-01	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT JUNCTION BOX >> EF-79.3110 POWER	P-25-700C	P-25-700C	25E10-01 25E10-02 25E15-01	1.5"	6 22	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12 10 #14 3 #12 10 #14 2 #14	JUNCTION BOX MCC-C1 >> EF-79.3107 POWER >> LCP-79.3107 CONTROL >> EF-79.3110 POWER >> LCP-79.3110 CONTROL >> T-79.3110 CONTROL	P-25-697B C-25-697A P-25-700B C-25-700A C-25-700B	P-25-706A	25E10-01	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	VAL-26.0301A DISCONNECT >> VAL-26.0301A POWER	P-25-706B	25E10-01	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT CONDUIT TEE >> VAL-26.0301A POWER	P-25-707C	P-25-707A	25E10-01	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	VAL-26.0301B DISCONNECT >> VAL-26.0301B POWER	P-25-707B	25E10-01	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT CONDUIT TEE >> VAL-26.0301B POWER	P-25-707C	P-25-707C	25E10-01 25E10-02 25E15-01	0.75"	6	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12 3 #12	CONDUIT TEE MCC-C1 >> VAL-26.0301A POWER >> VAL-26.0301B POWER	P-25-706B P-25-707B	P-25-750A	25E10-02	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	VAL-25.0903E DISCONNECT >> VAL-25.0903E POWER	P-25-750B	25E10-02	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT CONDUIT TEE >> VAL-25.0903E POWER	P-25-753C																																								
CONDUIT			CONDUCTORS			GROUND				CONNECTING SEGMENTS																																																																																																																																																																																																																																																								
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE																																																																																																																																																																																																																																																										
P-25-698A	25E10-03	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	SF-79.3108 DISCONNECT >> SF-79.3108 POWER																																																																																																																																																																																																																																																								
P-25-698B	25E10-03	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT JUNCTION BOX >> SF-79.3108 POWER	P-25-698C																																																																																																																																																																																																																																																							
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P-25-699A	25E10-03	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	EF-79.3109 DISCONNECT >> EF-79.3109 POWER																																																																																																																																																																																																																																																								
P-25-699B	25E10-03	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT JUNCTION BOX >> EF-79.3109 POWER	P-25-699C																																																																																																																																																																																																																																																							
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P-25-700A	25E10-01	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	EF-79.3110 DISCONNECT >> EF-79.3110 POWER																																																																																																																																																																																																																																																								
P-25-700B	25E10-01	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT JUNCTION BOX >> EF-79.3110 POWER	P-25-700C																																																																																																																																																																																																																																																							
P-25-700C	25E10-01 25E10-02 25E15-01	1.5"	6 22	#12 #14	XHHW-2 XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12 10 #14 3 #12 10 #14 2 #14	JUNCTION BOX MCC-C1 >> EF-79.3107 POWER >> LCP-79.3107 CONTROL >> EF-79.3110 POWER >> LCP-79.3110 CONTROL >> T-79.3110 CONTROL	P-25-697B C-25-697A P-25-700B C-25-700A C-25-700B																																																																																																																																																																																																																																																							
P-25-706A	25E10-01	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	VAL-26.0301A DISCONNECT >> VAL-26.0301A POWER																																																																																																																																																																																																																																																								
P-25-706B	25E10-01	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT CONDUIT TEE >> VAL-26.0301A POWER	P-25-707C																																																																																																																																																																																																																																																							
P-25-707A	25E10-01	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	VAL-26.0301B DISCONNECT >> VAL-26.0301B POWER																																																																																																																																																																																																																																																								
P-25-707B	25E10-01	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT CONDUIT TEE >> VAL-26.0301B POWER	P-25-707C																																																																																																																																																																																																																																																							
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<div><div><div>CONDUIT SCHEDULE AREA 25</div><div>BRACKISH WATER DESALINATION PROJECT</div><div>WATER TREATMENT PLANT</div><table><tr><th colspan="3">CONDUIT</th><th colspan="3">CONDUCTORS</th><th colspan="3">GROUND</th><th colspan="4"></th></tr><tr><th>NUMBER</th><th>DWG</th><th>SIZE</th><th>#</th><th>SIZE</th><th>TYPE</th><th>#</th><th>SIZE</th><th>TYPE</th><th colspan="2">DESCRIPTION</th><th colspan="2">CONNECTING SEGMENTS</th></tr><tr><td>P-25-750C</td><td>25E10-02</td><td>1"</td><td>9</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12 3 #12 3 #12</td><td>CONDUIT TEE CONDUIT TEE >> VAL-25.0007A POWER >> VAL-25.0008A POWER >> VAL-25.0903A POWER</td><td>P-25-753C P-25-752C P-25-752C P-25-753B</td></tr><tr><td>P-25-751A</td><td>25E10-02</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>VAL-25.0007A DISCONNECT >> VAL-25.0007A POWER</td><td></td></tr><tr><td>P-25-751B</td><td>25E10-02</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>DISCONNECT CONDUIT TEE >> VAL-25.0007A POWER</td><td>P-25-752C</td></tr><tr><td>P-25-752A</td><td>25E10-02</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>VAL-25.0008A DISCONNECT >> VAL-25.0008A POWER</td><td></td></tr><tr><td>P-25-752B</td><td>25E10-02</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>DISCONNECT CONDUIT TEE >> VAL-25.0008A POWER</td><td>P-25-752C</td></tr><tr><td>P-25-752C</td><td>25E10-02</td><td>0.75"</td><td>6</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12 3 #12</td><td>CONDUIT TEE CONDUIT TEE >> VAL-25.0007A POWER >> VAL-25.0008A POWER</td><td>P-25-750C P-25-751B P-25-752B</td></tr><tr><td>P-25-753A</td><td>25E10-02</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>VAL-25.0903A DISCONNECT >> VAL-25.0903A POWER</td><td></td></tr><tr><td>P-25-753B</td><td>25E10-02</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>DISCONNECT CONDUIT TEE >> VAL-25.0903A POWER</td><td>P-25-750C</td></tr><tr><td>P-25-753C</td><td>25E10-02 25E15-01</td><td>1"</td><td>12</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12 3 #12 3 #12 3 #12</td><td>CONDUIT TEE DP-RO >> VAL-25.0007A POWER >> VAL-25.0008A POWER >> VAL-25.0903A POWER >> VAL-25.0903E POWER</td><td>P-25-750C P-25-750C P-25-750C P-25-750B</td></tr><tr><td>P-25-756A</td><td>25E10-02</td><td>3"</td><td>3</td><td>500</td><td>XHHW-2</td><td>1</td><td>#1/0</td><td>XHHW-2</td><td>FR: TO: 3 500</td><td>HTR-25.0013 VCP-25.0013 >> HTR-25.0013 POWER</td><td></td></tr><tr><td>P-25-756B</td><td>25E10-02 25E15-01</td><td>3"</td><td>3</td><td>500</td><td>XHHW-2</td><td>1</td><td>#1/0</td><td>XHHW-2</td><td>FR: TO: 3 500</td><td>VCP-25.0013 MCC-C1 >> VCP-25.0013 POWER</td><td></td></tr><tr><td>P-25-757A</td><td>25E10-02</td><td>3"</td><td>3</td><td>500</td><td>XHHW-2</td><td>1</td><td>#1/0</td><td>XHHW-2</td><td>FR: TO: 3 500</td><td>HTR-25.0014 VCP-25.0014 >> HTR-25.0014 POWER</td><td></td></tr><tr><td>P-25-757B</td><td>25E10-02 25E15-01</td><td>3"</td><td>3</td><td>500</td><td>XHHW-2</td><td>1</td><td>#1/0</td><td>XHHW-2</td><td>FR: TO: 3 500</td><td>VCP-25.0014 MCC-C1 >> VCP-25.0014 POWER</td><td></td></tr><tr><td>P-25-761A</td><td>25E10-02</td><td>1.5"</td><td>3 2 2</td><td>#4 #12 #14</td><td>XHHW-2 XHHW-2 XHHW-2</td><td>1</td><td>#6</td><td>XHHW-2</td><td>FR: TO: 3 #4 2 #12 2 #14</td><td>PMP-25.0903 JUNCTION BOX >> PMP-25.0903 POWER >> MWH-25.0903 POWER >> TSH-25.0903 CONTROL</td><td>C-25-761C</td></tr><tr><td>P-25-761B</td><td>25E10-02 25E15-01</td><td>1.5"</td><td>3</td><td>#4</td><td>XHHW-2</td><td>1</td><td>#6</td><td>XHHW-2</td><td>FR: TO: 3 #4</td><td>JUNCTION BOX MCC-C1 >> PMP-25.0903 POWER</td><td></td></tr><tr><td>P-25-762A</td><td>25E10-02</td><td>2"</td><td>3</td><td>#2/0</td><td>XHHW-2</td><td>1</td><td>#6</td><td>XHHW-2</td><td>FR: TO: 3 #2/0</td><td>TWH-25.0003 DISCONNECT >> TWH-25.0003 POWER</td><td></td></tr><tr><td>P-25-762B</td><td>25E10-02 25E15-01</td><td>2"</td><td>3</td><td>#2/0</td><td>XHHW-2</td><td>1</td><td>#6</td><td>XHHW-2</td><td>FR: TO: 3 #2/0</td><td>DISCONNECT DP-RO >> TWH-25.0003 POWER</td><td></td></tr><tr><td>P-25-766A</td><td>25E10-02</td><td>2"</td><td>3 2 2</td><td>#3/0 #12 #14</td><td>XHHW-2 XHHW-2 XHHW-2</td><td>1</td><td>#3</td><td>XHHW-2</td><td>FR: TO: 3 #3/0 2 #12 2 #14</td><td>PMP-25.0011 JUNCTION BOX >> PMP-25.0011 POWER >> MWH-25.0011 POWER >> TSH-25.0011 CONTROL</td><td>C-25-766B</td></tr></table></div><div><div>1</div></div></div>													CONDUIT			CONDUCTORS			GROUND							NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION		CONNECTING SEGMENTS		P-25-750C	25E10-02	1"	9	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12 3 #12 3 #12	CONDUIT TEE CONDUIT TEE >> VAL-25.0007A POWER >> VAL-25.0008A POWER >> VAL-25.0903A POWER	P-25-753C P-25-752C P-25-752C P-25-753B	P-25-751A	25E10-02	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	VAL-25.0007A DISCONNECT >> VAL-25.0007A POWER		P-25-751B	25E10-02	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT CONDUIT TEE >> VAL-25.0007A POWER	P-25-752C	P-25-752A	25E10-02	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	VAL-25.0008A DISCONNECT >> VAL-25.0008A POWER		P-25-752B	25E10-02	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT CONDUIT TEE >> VAL-25.0008A POWER	P-25-752C	P-25-752C	25E10-02	0.75"	6	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12 3 #12	CONDUIT TEE CONDUIT TEE >> VAL-25.0007A POWER >> VAL-25.0008A POWER	P-25-750C P-25-751B P-25-752B	P-25-753A	25E10-02	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	VAL-25.0903A DISCONNECT >> VAL-25.0903A POWER		P-25-753B	25E10-02	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT CONDUIT TEE >> VAL-25.0903A POWER	P-25-750C	P-25-753C	25E10-02 25E15-01	1"	12	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12 3 #12 3 #12 3 #12	CONDUIT TEE DP-RO >> VAL-25.0007A POWER >> VAL-25.0008A POWER >> VAL-25.0903A POWER >> VAL-25.0903E POWER	P-25-750C P-25-750C P-25-750C P-25-750B	P-25-756A	25E10-02	3"	3	500	XHHW-2	1	#1/0	XHHW-2	FR: TO: 3 500	HTR-25.0013 VCP-25.0013 >> HTR-25.0013 POWER		P-25-756B	25E10-02 25E15-01	3"	3	500	XHHW-2	1	#1/0	XHHW-2	FR: TO: 3 500	VCP-25.0013 MCC-C1 >> VCP-25.0013 POWER		P-25-757A	25E10-02	3"	3	500	XHHW-2	1	#1/0	XHHW-2	FR: TO: 3 500	HTR-25.0014 VCP-25.0014 >> HTR-25.0014 POWER		P-25-757B	25E10-02 25E15-01	3"	3	500	XHHW-2	1	#1/0	XHHW-2	FR: TO: 3 500	VCP-25.0014 MCC-C1 >> VCP-25.0014 POWER		P-25-761A	25E10-02	1.5"	3 2 2	#4 #12 #14	XHHW-2 XHHW-2 XHHW-2	1	#6	XHHW-2	FR: TO: 3 #4 2 #12 2 #14	PMP-25.0903 JUNCTION BOX >> PMP-25.0903 POWER >> MWH-25.0903 POWER >> TSH-25.0903 CONTROL	C-25-761C	P-25-761B	25E10-02 25E15-01	1.5"	3	#4	XHHW-2	1	#6	XHHW-2	FR: TO: 3 #4	JUNCTION BOX MCC-C1 >> PMP-25.0903 POWER		P-25-762A	25E10-02	2"	3	#2/0	XHHW-2	1	#6	XHHW-2	FR: TO: 3 #2/0	TWH-25.0003 DISCONNECT >> TWH-25.0003 POWER		P-25-762B	25E10-02 25E15-01	2"	3	#2/0	XHHW-2	1	#6	XHHW-2	FR: TO: 3 #2/0	DISCONNECT DP-RO >> TWH-25.0003 POWER		P-25-766A	25E10-02	2"	3 2 2	#3/0 #12 #14	XHHW-2 XHHW-2 XHHW-2	1	#3	XHHW-2	FR: TO: 3 #3/0 2 #12 2 #14	PMP-25.0011 JUNCTION BOX >> PMP-25.0011 POWER >> MWH-25.0011 POWER >> TSH-25.0011 CONTROL	C-25-766B	<div><div><div>CONDUIT SCHEDULE AREA 25</div><div>BRACKISH WATER DESALINATION PROJECT</div><div>WATER TREATMENT PLANT</div><table><tr><th colspan="3">CONDUIT</th><th colspan="3">CONDUCTORS</th><th colspan="3">GROUND</th><th colspan="4"></th></tr><tr><th>NUMBER</th><th>DWG</th><th>SIZE</th><th>#</th><th>SIZE</th><th>TYPE</th><th>#</th><th>SIZE</th><th>TYPE</th><th colspan="2">DESCRIPTION</th><th colspan="2">CONNECTING SEGMENTS</th></tr><tr><td>P-25-766B</td><td>25E10-02 25E15-01</td><td>2"</td><td>3</td><td>#3/0</td><td>XHHW-2</td><td>1</td><td>#3</td><td>XHHW-2</td><td>FR: TO: 3 #3/0</td><td>JUNCTION BOX MCC-C1 >> PMP-25.0011 POWER</td><td></td></tr><tr><td>P-25-772A</td><td>25E10-02</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>VAL-71.5002 DISCONNECT >> VAL-71.5002 POWER</td><td></td></tr><tr><td>P-25-772B</td><td>25E10-02 25E10-04 25E15-01</td><td>0.75"</td><td>3</td><td>#12</td><td>XHHW-2</td><td>1</td><td>#12</td><td>XHHW-2</td><td>FR: TO: 3 #12</td><td>DISCONNECT MCC-C1 >> VAL-71.5002 POWER</td><td></td></tr><tr><td>P-25-792A</td><td>25E15-02</td><td>3"</td><td>3</td><td>350</td><td>XHHW-2</td><td>1</td><td>#1</td><td>XHHW-2</td><td>FR: TO: 3 350</td><td>DP-RO SWGR-RO2 >> DP-RO POWER</td><td></td></tr><tr><td>P-25-792B</td><td>25E15-02</td><td>3"</td><td>3</td><td>350</td><td>XHHW-2</td><td>1</td><td>#1</td><td>XHHW-2</td><td>FR: TO: 3 350</td><td>DP-RO SWGR-RO2 >> DP-RO POWER</td><td></td></tr><tr><td>P-25-801A</td><td>25E10-02</td><td>4"</td><td>3</td><td>#1:25KV</td><td>25KV-EPR</td><td>1</td><td>#1</td><td>XHHW-2</td><td>FR: TO: 3 #1:25KV</td><td>PLANT A SUBSTATION XFMR MAIN PANEL (THROUGH MH-2) >> PLANT A SUBSTATION XFMR POWER</td><td></td></tr><tr><td>P-25-806A</td><td>25E10-02</td><td>4"</td><td>3</td><td>#1:25KV</td><td>25KV-EPR</td><td>1</td><td>#1</td><td>XHHW-2</td><td>FR: TO: 3 #1:25KV</td><td>PLANT B SUBSTATION XFMR MAIN PANEL (THROUGH MH-1) >> PLANT A SUBSTATION XFMR POWER</td><td></td></tr><tr><td>P-25-811A</td><td>25E10-02 25E10-03</td><td>5"</td><td>3</td><td>#2/0:25KV</td><td>25KV-EPR</td><td>1</td><td>#1</td><td>XHHW-2</td><td>FR: TO: 3 #2/0:25KV</td><td>XFMR-C1 MAIN PANEL (THROUGH MH-2) >> XFMR-C1 POWER</td><td></td></tr><tr><td>P-25-816A</td><td>25E10-02 25E10-03</td><td>4"</td><td>1</td><td>PULL</td><td>ROPE</td><td></td><td></td><td></td><td>FR: TO: 1 PULL</td><td>XFMR-C2 (FUTURE) MAIN PANEL (THROUGH MH-2) >> SPARE</td><td></td></tr><tr><td>P-25-821A</td><td>25E01-03</td><td>4"</td><td>3</td><td>#3/0:15KV</td><td>15KV-EPR</td><td>1</td><td>#2</td><td>XHHW-2</td><td>FR: TO: 3 #3/0:15KV</td><td>SWGR-C1 XFMR-C1 >> SWGR-C1 POWER</td><td></td></tr><tr><td>P-25-823A</td><td>25E01-03</td><td>4"</td><td>3</td><td>#2:15KV</td><td>15KV-EPR</td><td>1</td><td>#2</td><td>XHHW-2</td><td>FR: TO: 3 #2:15KV</td><td>GEN-C1 SWGR-C1 >> GEN-C1 POWER</td><td></td></tr><tr><td>P-25-826A</td><td>25E01-03</td><td>4"</td><td>3</td><td>#2:15KV</td><td>15KV-EPR</td><td>1</td><td>#2</td><td>XHHW-2</td><td>FR: TO: 3 #2:15KV</td><td>GEN-C2 SWGR-C1 >> GEN-C2 POWER</td><td></td></tr><tr><td>P-25-831A</td><td>25E01-03</td><td>4"</td><td>1</td><td>PULL</td><td>ROPE</td><td></td><td></td><td></td><td>FR: TO: 1 PULL</td><td>SWGR-C2 (FUTURE) XFMR-C2 (FUTURE) >> SPARE</td><td></td></tr><tr><td>P-25-833A</td><td>25E01-03</td><td>4"</td><td>1</td><td>PULL</td><td>ROPE</td><td></td><td></td><td></td><td>FR: TO: 1 PULL</td><td>GEN-C3 SWGR-C2 >> SPARE</td><td></td></tr><tr><td>P-25-836A</td><td>25E01-03</td><td>4"</td><td>1</td><td>PULL</td><td>ROPE</td><td></td><td></td><td></td><td>FR: TO: 1 PULL</td><td>GEN-C4 SWGR-C2 >> SPARE</td><td></td></tr><tr><td>P-25-851A</td><td>25E01-03 25E01-05</td><td>4"</td><td>3</td><td>#1/0:15KV</td><td>15KV-EPR</td><td>1</td><td>#2</td><td>XHHW-2</td><td>FR: TO: 3 #1/0:15KV</td><td>XFMR-RO1 SWGR-C1 >> XFMR-RO1 POWER</td><td></td></tr><tr><td>P-25-856A</td><td>25E01-03 25E01-05</td><td>4"</td><td>3</td><td>#1/0:15KV</td><td>15KV-EPR</td><td>1</td><td>#2</td><td>XHHW-2</td><td>FR: TO: 3 #1/0:15KV</td><td>XFMR-RO2 SWGR-C1 >> XFMR-RO1 POWER</td><td></td></tr><tr><td>P-25-861A</td><td>25E01-03 25E01-05</td><td>4"</td><td>1</td><td>PULL</td><td>ROPE</td><td></td><td></td><td></td><td>FR: TO: 1 PULL</td><td>XFMR-RO3 SWGR-C2 >> SPARE</td><td></td></tr><tr><td>P-25-866A</td><td>25E01-03 25E10-07</td><td>4"</td><td>3</td><td>#2:15KV</td><td>15KV-EPR</td><td>1</td><td>#2</td><td>XHHW-2</td><td>FR: TO: 3 #2:15KV</td><td>XFMR-F1 SWGR-C1 >> SPARE</td><td></td></tr><tr><td>P-25-871A</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: TO: 3 750</td><td>SWGR-RO1 XFMR-RO1 >> SWGR-RO1 POWER</td><td></td></tr><tr><td>P-25-871B</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: TO: 3 750</td><td>SWGR-RO1 XFMR-RO1 >> SWGR-RO1 POWER</td><td></td></tr></table></div></div>												CONDUIT			CONDUCTORS			GROUND							NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION		CONNECTING SEGMENTS		P-25-766B	25E10-02 25E15-01	2"	3	#3/0	XHHW-2	1	#3	XHHW-2	FR: TO: 3 #3/0	JUNCTION BOX MCC-C1 >> PMP-25.0011 POWER		P-25-772A	25E10-02	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	VAL-71.5002 DISCONNECT >> VAL-71.5002 POWER		P-25-772B	25E10-02 25E10-04 25E15-01	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT MCC-C1 >> VAL-71.5002 POWER		P-25-792A	25E15-02	3"	3	350	XHHW-2	1	#1	XHHW-2	FR: TO: 3 350	DP-RO SWGR-RO2 >> DP-RO POWER		P-25-792B	25E15-02	3"	3	350	XHHW-2	1	#1	XHHW-2	FR: TO: 3 350	DP-RO SWGR-RO2 >> DP-RO POWER		P-25-801A	25E10-02	4"	3	#1:25KV	25KV-EPR	1	#1	XHHW-2	FR: TO: 3 #1:25KV	PLANT A SUBSTATION XFMR MAIN PANEL (THROUGH MH-2) >> PLANT A SUBSTATION XFMR POWER		P-25-806A	25E10-02	4"	3	#1:25KV	25KV-EPR	1	#1	XHHW-2	FR: TO: 3 #1:25KV	PLANT B SUBSTATION XFMR MAIN PANEL (THROUGH MH-1) >> PLANT A SUBSTATION XFMR POWER		P-25-811A	25E10-02 25E10-03	5"	3	#2/0:25KV	25KV-EPR	1	#1	XHHW-2	FR: TO: 3 #2/0:25KV	XFMR-C1 MAIN PANEL (THROUGH MH-2) >> XFMR-C1 POWER		P-25-816A	25E10-02 25E10-03	4"	1	PULL	ROPE				FR: TO: 1 PULL	XFMR-C2 (FUTURE) MAIN PANEL (THROUGH MH-2) >> SPARE		P-25-821A	25E01-03	4"	3	#3/0:15KV	15KV-EPR	1	#2	XHHW-2	FR: TO: 3 #3/0:15KV	SWGR-C1 XFMR-C1 >> SWGR-C1 POWER		P-25-823A	25E01-03	4"	3	#2:15KV	15KV-EPR	1	#2	XHHW-2	FR: TO: 3 #2:15KV	GEN-C1 SWGR-C1 >> GEN-C1 POWER		P-25-826A	25E01-03	4"	3	#2:15KV	15KV-EPR	1	#2	XHHW-2	FR: TO: 3 #2:15KV	GEN-C2 SWGR-C1 >> GEN-C2 POWER		P-25-831A	25E01-03	4"	1	PULL	ROPE				FR: TO: 1 PULL	SWGR-C2 (FUTURE) XFMR-C2 (FUTURE) >> SPARE		P-25-833A	25E01-03	4"	1	PULL	ROPE				FR: TO: 1 PULL	GEN-C3 SWGR-C2 >> SPARE		P-25-836A	25E01-03	4"	1	PULL	ROPE				FR: TO: 1 PULL	GEN-C4 SWGR-C2 >> SPARE		P-25-851A	25E01-03 25E01-05	4"	3	#1/0:15KV	15KV-EPR	1	#2	XHHW-2	FR: TO: 3 #1/0:15KV	XFMR-RO1 SWGR-C1 >> XFMR-RO1 POWER		P-25-856A	25E01-03 25E01-05	4"	3	#1/0:15KV	15KV-EPR	1	#2	XHHW-2	FR: TO: 3 #1/0:15KV	XFMR-RO2 SWGR-C1 >> XFMR-RO1 POWER		P-25-861A	25E01-03 25E01-05	4"	1	PULL	ROPE				FR: TO: 1 PULL	XFMR-RO3 SWGR-C2 >> SPARE		P-25-866A	25E01-03 25E10-07	4"	3	#2:15KV	15KV-EPR	1	#2	XHHW-2	FR: TO: 3 #2:15KV	XFMR-F1 SWGR-C1 >> SPARE		P-25-871A	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: TO: 3 750	SWGR-RO1 XFMR-RO1 >> SWGR-RO1 POWER		P-25-871B	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: TO: 3 750	SWGR-RO1 XFMR-RO1 >> SWGR-RO1 POWER	
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P-25-762A	25E10-02	2"	3	#2/0	XHHW-2	1	#6	XHHW-2	FR: TO: 3 #2/0	TWH-25.0003 DISCONNECT >> TWH-25.0003 POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
P-25-762B	25E10-02 25E15-01	2"	3	#2/0	XHHW-2	1	#6	XHHW-2	FR: TO: 3 #2/0	DISCONNECT DP-RO >> TWH-25.0003 POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
P-25-766A	25E10-02	2"	3 2 2	#3/0 #12 #14	XHHW-2 XHHW-2 XHHW-2	1	#3	XHHW-2	FR: TO: 3 #3/0 2 #12 2 #14	PMP-25.0011 JUNCTION BOX >> PMP-25.0011 POWER >> MWH-25.0011 POWER >> TSH-25.0011 CONTROL	C-25-766B																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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P-25-766B	25E10-02 25E15-01	2"	3	#3/0	XHHW-2	1	#3	XHHW-2	FR: TO: 3 #3/0	JUNCTION BOX MCC-C1 >> PMP-25.0011 POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
P-25-772A	25E10-02	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	VAL-71.5002 DISCONNECT >> VAL-71.5002 POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
P-25-772B	25E10-02 25E10-04 25E15-01	0.75"	3	#12	XHHW-2	1	#12	XHHW-2	FR: TO: 3 #12	DISCONNECT MCC-C1 >> VAL-71.5002 POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
P-25-792A	25E15-02	3"	3	350	XHHW-2	1	#1	XHHW-2	FR: TO: 3 350	DP-RO SWGR-RO2 >> DP-RO POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
P-25-792B	25E15-02	3"	3	350	XHHW-2	1	#1	XHHW-2	FR: TO: 3 350	DP-RO SWGR-RO2 >> DP-RO POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
P-25-801A	25E10-02	4"	3	#1:25KV	25KV-EPR	1	#1	XHHW-2	FR: TO: 3 #1:25KV	PLANT A SUBSTATION XFMR MAIN PANEL (THROUGH MH-2) >> PLANT A SUBSTATION XFMR POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
P-25-806A	25E10-02	4"	3	#1:25KV	25KV-EPR	1	#1	XHHW-2	FR: TO: 3 #1:25KV	PLANT B SUBSTATION XFMR MAIN PANEL (THROUGH MH-1) >> PLANT A SUBSTATION XFMR POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
P-25-811A	25E10-02 25E10-03	5"	3	#2/0:25KV	25KV-EPR	1	#1	XHHW-2	FR: TO: 3 #2/0:25KV	XFMR-C1 MAIN PANEL (THROUGH MH-2) >> XFMR-C1 POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
P-25-816A	25E10-02 25E10-03	4"	1	PULL	ROPE				FR: TO: 1 PULL	XFMR-C2 (FUTURE) MAIN PANEL (THROUGH MH-2) >> SPARE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
P-25-821A	25E01-03	4"	3	#3/0:15KV	15KV-EPR	1	#2	XHHW-2	FR: TO: 3 #3/0:15KV	SWGR-C1 XFMR-C1 >> SWGR-C1 POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
P-25-823A	25E01-03	4"	3	#2:15KV	15KV-EPR	1	#2	XHHW-2	FR: TO: 3 #2:15KV	GEN-C1 SWGR-C1 >> GEN-C1 POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
P-25-826A	25E01-03	4"	3	#2:15KV	15KV-EPR	1	#2	XHHW-2	FR: TO: 3 #2:15KV	GEN-C2 SWGR-C1 >> GEN-C2 POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
P-25-831A	25E01-03	4"	1	PULL	ROPE				FR: TO: 1 PULL	SWGR-C2 (FUTURE) XFMR-C2 (FUTURE) >> SPARE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
P-25-833A	25E01-03	4"	1	PULL	ROPE				FR: TO: 1 PULL	GEN-C3 SWGR-C2 >> SPARE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
P-25-836A	25E01-03	4"	1	PULL	ROPE				FR: TO: 1 PULL	GEN-C4 SWGR-C2 >> SPARE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
P-25-851A	25E01-03 25E01-05	4"	3	#1/0:15KV	15KV-EPR	1	#2	XHHW-2	FR: TO: 3 #1/0:15KV	XFMR-RO1 SWGR-C1 >> XFMR-RO1 POWER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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P-25-866A	25E01-03 25E10-07	4"	3	#2:15KV	15KV-EPR	1	#2	XHHW-2	FR: TO: 3 #2:15KV	XFMR-F1 SWGR-C1 >> SPARE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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<div><div><div>CONDUIT SCHEDULE AREA 25</div><div>BRACKISH WATER DESALINATION PROJECT</div><div>WATER TREATMENT PLANT</div></div><div>11/10/20</div></div> <table><tr><th colspan="3">CONDUIT</th><th colspan="3">CONDUCTORS</th><th colspan="3">GROUND</th><th rowspan="2">DESCRIPTION</th><th rowspan="2">CONNECTING SEGMENTS</th></tr><tr><th>NUMBER</th><th>DWG</th><th>SIZE</th><th>#</th><th>SIZE</th><th>TYPE</th><th>#</th><th>SIZE</th><th>TYPE</th></tr><tr><td>P-25-871C</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER</td><td></td></tr><tr><td>P-25-871D</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER</td><td></td></tr><tr><td>P-25-871E</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER</td><td></td></tr><tr><td>P-25-871F</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER</td><td></td></tr><tr><td>P-25-871G</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER</td><td></td></tr><tr><td>P-25-871H</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER</td><td></td></tr><tr><td>P-25-871I</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER</td><td></td></tr><tr><td>P-25-871J</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER</td><td></td></tr><tr><td>P-25-871K</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER</td><td></td></tr><tr><td>P-25-871L</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER</td><td></td></tr><tr><td>P-25-871M</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER</td><td></td></tr><tr><td>P-25-871N</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER</td><td></td></tr><tr><td>P-25-871O</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER</td><td></td></tr><tr><td>P-25-871P</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER</td><td></td></tr><tr><td>P-25-871Q</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER</td><td></td></tr><tr><td>P-25-871R</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER</td><td></td></tr><tr><td>P-25-871S</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER</td><td></td></tr><tr><td>P-25-871T</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER</td><td></td></tr><tr><td>P-25-871U</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER</td><td></td></tr><tr><td>P-25-871V</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER</td><td></td></tr><tr><td>P-25-871W</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 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750 >> SWGR-RO1 POWER		P-25-871K	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER		P-25-871L	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER		P-25-871M	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER		P-25-871N	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER		P-25-871O	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER		P-25-871P	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER		P-25-871Q	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER		P-25-871R	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER		P-25-871S	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER		P-25-871T	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER		P-25-871U	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER		P-25-871V	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER		P-25-871W	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER		<div><div><div>CONDUIT SCHEDULE AREA 25</div><div>BRACKISH WATER DESALINATION PROJECT</div><div>WATER TREATMENT PLANT</div></div><div>11/10/20</div></div> <table><tr><th colspan="3">CONDUIT</th><th colspan="3">CONDUCTORS</th><th colspan="3">GROUND</th><th rowspan="2">DESCRIPTION</th><th rowspan="2">CONNECTING SEGMENTS</th></tr><tr><th>NUMBER</th><th>DWG</th><th>SIZE</th><th>#</th><th>SIZE</th><th>TYPE</th><th>#</th><th>SIZE</th><th>TYPE</th></tr><tr><td>P-25-871X</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER</td><td></td></tr><tr><td>P-25-871Y</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER</td><td></td></tr><tr><td>P-25-871Z</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: SWGR-RO1 TO: XFMR-RO1 3 750 >> SWGR-RO1 POWER</td><td></td></tr><tr><td>P-25-873A</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: SWGR-RO2 TO: XFMR-RO2 3 750 >> SWGR-RO2 POWER</td><td></td></tr><tr><td>P-25-873B</td><td>25E01-05 25E15-01</td><td>4"</td><td>3</td><td>750</td><td>XHHW-2</td><td>1</td><td>#2/0</td><td>XHHW-2</td><td>FR: SWGR-RO2 TO: XFMR-RO2 3 750 >> SWGR-RO2 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POWER		P-25-873B	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO2 TO: XFMR-RO2 3 750 >> SWGR-RO2 POWER		P-25-873C	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO2 TO: XFMR-RO2 3 750 >> SWGR-RO2 POWER		P-25-873D	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO2 TO: XFMR-RO2 3 750 >> SWGR-RO2 POWER		P-25-873E	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO2 TO: XFMR-RO2 3 750 >> SWGR-RO2 POWER		P-25-873F	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO2 TO: XFMR-RO2 3 750 >> SWGR-RO2 POWER		P-25-873G	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO2 TO: XFMR-RO2 3 750 >> SWGR-RO2 POWER		P-25-873H	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO2 TO: XFMR-RO2 3 750 >> SWGR-RO2 POWER		P-25-873I	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO2 TO: XFMR-RO2 3 750 >> SWGR-RO2 POWER		P-25-873J	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO2 TO: XFMR-RO2 3 750 >> SWGR-RO2 POWER		P-25-873K	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO2 TO: XFMR-RO2 3 750 >> SWGR-RO2 POWER		P-25-873L	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO2 TO: XFMR-RO2 3 750 >> SWGR-RO2 POWER		P-25-873M	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO2 TO: XFMR-RO2 3 750 >> SWGR-RO2 POWER		P-25-873N	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO2 TO: XFMR-RO2 3 750 >> SWGR-RO2 POWER		P-25-873O	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO2 TO: XFMR-RO2 3 750 >> SWGR-RO2 POWER		P-25-873P	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO2 TO: XFMR-RO2 3 750 >> SWGR-RO2 POWER		P-25-873Q	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO2 TO: XFMR-RO2 3 750 >> SWGR-RO2 POWER		P-25-873R	25E01-05 25E15-01	4"	3	750	XHHW-2	1	#2/0	XHHW-2	FR: SWGR-RO2 TO: XFMR-RO2 3 750 >> SWGR-RO2 POWER	
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<div>CONDUIT SCHEDULE AREA 25 BRACKISH WATER DESALINATION PROJECT WATER TREATMENT PLANT</div> <div>11/10/20</div> <table><tr><th colspan="3">CONDUIT</th><th colspan="3">CONDUCTORS</th><th colspan="3">GROUND</th><th rowspan="2">DESCRIPTION</th><th rowspan="2">CONNECTING SEGMENTS</th></tr><tr><th>NUMBER</th><th>DWG</th><th>SIZE</th><th>#</th><th>SIZE</th><th>TYPE</th><th>#</th><th>SIZE</th><th>TYPE</th></tr><tr><td>S-25-202A</td><td>25E10-06</td><td>0.75"</td><td>1</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: PIT-25.0002 CONDUIT TEE TO: 1 2/CS-#16 >> PIT-25.0002 SIGNAL</td><td>S-25-202C</td></tr><tr><td>S-25-202B</td><td>25E10-06</td><td>0.75"</td><td>1</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: FIT-25.0002A CONDUIT TEE TO: 1 2/CS-#16 >> FIT-25.0002A SIGNAL</td><td>S-25-202C</td></tr><tr><td>S-25-202C</td><td>25E10-06 25E10-07</td><td>1"</td><td>2</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONDUIT TEE PCM-25.0001 TO: 1 2/CS-#16 >> PIT-25.0002 SIGNAL 1 2/CS-#16 >> FIT-25.0002A SIGNAL</td><td>S-25-202A S-25-202B</td></tr><tr><td>S-25-203A</td><td>25E10-06</td><td>0.75"</td><td>1</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: PIT-25.0003 CONDUIT TEE TO: 1 2/CS-#16 >> PIT-25.0003 SIGNAL</td><td>S-25-203C</td></tr><tr><td>S-25-203B</td><td>25E10-06</td><td>0.75"</td><td>1</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: FIT-25.0003A CONDUIT TEE TO: 1 2/CS-#16 >> FIT-25.0003A SIGNAL</td><td>S-25-203C</td></tr><tr><td>S-25-203C</td><td>25E10-06 25E10-07</td><td>1"</td><td>2</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONDUIT TEE PCM-25.0001 TO: 1 2/CS-#16 >> PIT-25.0003 SIGNAL 1 2/CS-#16 >> FIT-25.0003A SIGNAL</td><td>S-25-203A S-25-203B</td></tr><tr><td>S-25-204C</td><td>25E10-06 25E10-07</td><td>1"</td><td>1</td><td>PULL</td><td>ROPE</td><td></td><td></td><td></td><td>FR: FUTURE PUMP PCM-25.0001 TO: 1 PULL >> SPARE</td><td></td></tr><tr><td>S-25-210A</td><td>25E10-06 25E10-07</td><td>1"</td><td>1</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: LIT-25.0001 PCM-25.0001 TO: 1 2/CS-#16 >> LIT-25.0001 SIGNAL</td><td></td></tr><tr><td>S-25-211A</td><td>25E10-06 25E10-07</td><td>1"</td><td>1</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: FIT-25.0001B CONDUIT TEE TO: 1 2/CS-#16 >> FIT-25.0001B SIGNAL</td><td>C-25-211B</td></tr><tr><td>S-25-213A</td><td>25E10-06 25E10-07</td><td>0.75"</td><td>1</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: AIT-25.0006B JUNCTION BOX TO: 1 2/CS-#16 >> AIT-25.0006B SIGNAL</td><td>C-25-213B</td></tr><tr><td>S-25-214A</td><td>25E01-02</td><td>0.75"</td><td>1</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: AIT-25.0006A JUNCTION BOX TO: 1 2/CS-#16 >> AIT-25.0006A SIGNAL</td><td>C-25-214B</td></tr><tr><td>S-25-301A</td><td>25E10-08</td><td>0.75"</td><td>1</td><td>MFR</td><td>CABLE</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: AE-21.0605 AIT-21.0605 TO: 1 MFR >> AE-21.0605 SIGNAL</td><td></td></tr><tr><td>S-25-301B</td><td>25E10-08</td><td>0.75"</td><td>1</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: AIT-21.0605 CONDUIT TEE TO: 1 2/CS-#16 >> AIT-21.0605 SIGNAL</td><td>S-25-301C</td></tr><tr><td>S-25-301C</td><td>25E10-08</td><td>1"</td><td>10</td><td>#14 2/CS-#16</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONDUIT TEE CONDUIT TEE TO: 1 2/CS-#16 >> AIT-21.0605 SIGNAL 10 #14 >> VAL-21.0602E CONTROL</td><td>C-25-306C S-25-301B C-25-306A</td></tr><tr><td>S-25-303A</td><td>25E01-01</td><td>0.75"</td><td>1</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: PIT-21.0602 PULLBOX TO: 1 2/CS-#16 >> PIT-21.0602 SIGNAL</td><td>S-25-303B</td></tr><tr><td>S-25-303B</td><td>25E01-01 25E15-01</td><td>2"</td><td>20</td><td>#14 2/CS-#16</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: PULLBOX PCM-25.0000 TO: 10 #14 >> VAL-21.0601A CONTROL 10 #14 >> VAL-21.0601B CONTROL 1 2/CS-#16 >> PIT-21.0602 SIGNAL</td><td>C-25-302C C-25-302C S-25-303A</td></tr><tr><td>S-25-303C</td><td>25E01-01</td><td>1"</td><td>1</td><td>MFR</td><td>CABLE</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: PE-21.0602 PIT-21.0602 TO: 1 MFR >> PE-21.0602 SIGNAL</td><td></td></tr><tr><td>S-25-306B</td><td>25E10-08</td><td>0.75"</td><td>1</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: FIT-21.0602 CONDUIT TEE TO: 1 2/CS-#16 >> FIT-21.0602 SIGNAL</td><td>C-25-306C</td></tr><tr><td>S-25-307C</td><td>25E10-08</td><td>0.75"</td><td>1</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: FIT-21.0601 CONDUIT TEE TO: 1 2/CS-#16 >> FIT-21.0601 SIGNAL</td><td>C-25-307D</td></tr></table>													CONDUIT			CONDUCTORS			GROUND			DESCRIPTION	CONNECTING SEGMENTS	NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	S-25-202A	25E10-06	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: PIT-25.0002 CONDUIT TEE TO: 1 2/CS-#16 >> PIT-25.0002 SIGNAL	S-25-202C	S-25-202B	25E10-06	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: FIT-25.0002A CONDUIT TEE TO: 1 2/CS-#16 >> FIT-25.0002A SIGNAL	S-25-202C	S-25-202C	25E10-06 25E10-07	1"	2	2/CS-#16		1	#14	XHHW-2	FR: CONDUIT TEE PCM-25.0001 TO: 1 2/CS-#16 >> PIT-25.0002 SIGNAL 1 2/CS-#16 >> FIT-25.0002A SIGNAL	S-25-202A S-25-202B	S-25-203A	25E10-06	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: PIT-25.0003 CONDUIT TEE TO: 1 2/CS-#16 >> PIT-25.0003 SIGNAL	S-25-203C	S-25-203B	25E10-06	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: FIT-25.0003A CONDUIT TEE TO: 1 2/CS-#16 >> FIT-25.0003A SIGNAL	S-25-203C	S-25-203C	25E10-06 25E10-07	1"	2	2/CS-#16		1	#14	XHHW-2	FR: CONDUIT TEE PCM-25.0001 TO: 1 2/CS-#16 >> PIT-25.0003 SIGNAL 1 2/CS-#16 >> FIT-25.0003A SIGNAL	S-25-203A S-25-203B	S-25-204C	25E10-06 25E10-07	1"	1	PULL	ROPE				FR: FUTURE PUMP PCM-25.0001 TO: 1 PULL >> SPARE		S-25-210A	25E10-06 25E10-07	1"	1	2/CS-#16		1	#14	XHHW-2	FR: LIT-25.0001 PCM-25.0001 TO: 1 2/CS-#16 >> LIT-25.0001 SIGNAL		S-25-211A	25E10-06 25E10-07	1"	1	2/CS-#16		1	#14	XHHW-2	FR: FIT-25.0001B CONDUIT TEE TO: 1 2/CS-#16 >> FIT-25.0001B SIGNAL	C-25-211B	S-25-213A	25E10-06 25E10-07	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: AIT-25.0006B JUNCTION BOX TO: 1 2/CS-#16 >> AIT-25.0006B SIGNAL	C-25-213B	S-25-214A	25E01-02	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: AIT-25.0006A JUNCTION BOX TO: 1 2/CS-#16 >> AIT-25.0006A SIGNAL	C-25-214B	S-25-301A	25E10-08	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: AE-21.0605 AIT-21.0605 TO: 1 MFR >> AE-21.0605 SIGNAL		S-25-301B	25E10-08	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: AIT-21.0605 CONDUIT TEE TO: 1 2/CS-#16 >> AIT-21.0605 SIGNAL	S-25-301C	S-25-301C	25E10-08	1"	10	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE CONDUIT TEE TO: 1 2/CS-#16 >> AIT-21.0605 SIGNAL 10 #14 >> VAL-21.0602E CONTROL	C-25-306C S-25-301B C-25-306A	S-25-303A	25E01-01	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: PIT-21.0602 PULLBOX TO: 1 2/CS-#16 >> PIT-21.0602 SIGNAL	S-25-303B	S-25-303B	25E01-01 25E15-01	2"	20	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: PULLBOX PCM-25.0000 TO: 10 #14 >> VAL-21.0601A CONTROL 10 #14 >> VAL-21.0601B CONTROL 1 2/CS-#16 >> PIT-21.0602 SIGNAL	C-25-302C C-25-302C S-25-303A	S-25-303C	25E01-01	1"	1	MFR	CABLE	1	#14	XHHW-2	FR: PE-21.0602 PIT-21.0602 TO: 1 MFR >> PE-21.0602 SIGNAL		S-25-306B	25E10-08	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: FIT-21.0602 CONDUIT TEE TO: 1 2/CS-#16 >> FIT-21.0602 SIGNAL	C-25-306C	S-25-307C	25E10-08	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: FIT-21.0601 CONDUIT TEE TO: 1 2/CS-#16 >> FIT-21.0601 SIGNAL	C-25-307D	<div>CONDUIT SCHEDULE AREA 25 BRACKISH WATER DESALINATION PROJECT WATER TREATMENT PLANT</div> <div>11/10/20</div> <table><tr><th colspan="3">CONDUIT</th><th colspan="3">CONDUCTORS</th><th colspan="3">GROUND</th><th rowspan="2">DESCRIPTION</th><th rowspan="2">CONNECTING SEGMENTS</th></tr><tr><th>NUMBER</th><th>DWG</th><th>SIZE</th><th>#</th><th>SIZE</th><th>TYPE</th><th>#</th><th>SIZE</th><th>TYPE</th></tr><tr><td>S-25-308A</td><td>25E10-08</td><td>0.75"</td><td>6</td><td>#14 2/CS-#16</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONDUIT TEE JUNCTION BOX TO: 6 #14 >> LSH-21.0608 CONTROL 1 2/CS-#16 >> FIT-21.0603 SIGNAL</td><td>S-25-311B C-25-308A S-25-308B</td></tr><tr><td>S-25-308B</td><td>25E10-08</td><td>0.75"</td><td>1</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: FIT-21.0603 CONDUIT TEE TO: 1 2/CS-#16 >> FIT-21.0603 SIGNAL</td><td>S-25-308A</td></tr><tr><td>S-25-311B</td><td>25E01-02 25E15-01</td><td>2"</td><td>26</td><td>#14 2/CS-#16</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: JUNCTION BOX PCM-25.0000 TO: 1 2/CS-#16 >> AIT-21.0605 SIGNAL 10 #14 >> VAL-21.0602E CONTROL 1 2/CS-#16 >> FIT-21.0602 SIGNAL 10 #14 >> VAL-21.0602F CONTROL 1 2/CS-#16 >> FIT-21.0601 SIGNAL 6 #14 >> LSH-21.0608 CONTROL 1 2/CS-#16 >> FIT-21.0603 SIGNAL</td><td>C-25-307D C-25-307D C-25-307D C-25-307D C-25-308A S-25-308A</td></tr><tr><td>S-25-321A</td><td>25E01-02</td><td>0.75"</td><td>1</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: AIT-21.0603 CONDUIT TEE TO: 1 2/CS-#16 >> AIT-21.0603 SIGNAL</td><td>S-25-322B</td></tr><tr><td>S-25-322A</td><td>25E01-02</td><td>0.75"</td><td>1</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: AIT-21.0604 CONDUIT TEE TO: 1 2/CS-#16 >> AIT-21.0604 SIGNAL</td><td>S-25-322B</td></tr><tr><td>S-25-322B</td><td>25E01-02 25E01-03 25E10-07</td><td>0.75"</td><td>2</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONDUIT TEE PLC-25.0001 (THROUGH PULLBOX) TO: 1 2/CS-#16 >> AIT-21.0603 SIGNAL 1 2/CS-#16 >> AIT-21.0604 SIGNAL</td><td>S-25-321A S-25-322A</td></tr><tr><td>S-25-402A</td><td>25E10-05</td><td>0.75"</td><td>1</td><td></td><td>RS-485</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: FIT-65.0201 CONDUIT TEE TO: 1 RS-485 >> FIT-65.0201 SIGNAL</td><td></td></tr><tr><td>S-25-403A</td><td>25E10-05</td><td>0.75"</td><td>1</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: WIT-65.0201 CONDUIT TEE TO: 1 2/CS-#16 >> WIT-65.0201 SIGNAL</td><td>S-25-403C</td></tr><tr><td>S-25-403B</td><td>25E10-05</td><td>0.75"</td><td>1</td><td>MFR</td><td>CABLE</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: WE-65.0201 WIT-65.0201 TO: 1 MFR >> WE-65.0201 SIGNAL</td><td></td></tr><tr><td>S-25-403C</td><td>25E10-05</td><td>1.5"</td><td>18</td><td>#14 2/CS-#16</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONDUIT TEE PCM-60.0000 TO: 2 #14 >> FSH-65.0201 CONTROL 8 #14 >> PMP-65.0202 CONTROL 8 #14 >> PMP-65.0201 CONTROL 1 2/CS-#16 >> WIT-65.0201 SIGNAL</td><td>C-25-406B C-25-406B C-25-406B S-25-403A</td></tr><tr><td>S-25-411A</td><td>25E10-05</td><td>0.75"</td><td>1</td><td>MFR</td><td>CABLE</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: WE1-69.0101 CONDUIT TEE TO: 1 MFR >> WE1-69.0101 SIGNAL</td><td>S-25-411C</td></tr><tr><td>S-25-411B</td><td>25E10-05</td><td>0.75"</td><td>1</td><td>MFR</td><td>CABLE</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: WE2-69.0101 CONDUIT TEE TO: 1 MFR >> WE2-69.0101 SIGNAL</td><td>S-25-411C</td></tr><tr><td>S-25-411C</td><td>25E10-05</td><td>0.75"</td><td>2</td><td>MFR</td><td>CABLE</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONDUIT TEE WIT-69-0101 TO: 1 MFR >> WE1-69.0101 SIGNAL 1 MFR >> WE2-69.0101 SIGNAL</td><td>S-25-411A S-25-411B</td></tr><tr><td>S-25-411D</td><td>25E10-05</td><td>0.75"</td><td>1</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: WIT-69-0101 CONDUIT TEE TO: 1 2/CS-#16 >> WIT-69-0101 SIGNAL</td><td>C-25-416B</td></tr><tr><td>S-25-412A</td><td>25E10-05</td><td>0.75"</td><td>1</td><td></td><td>RS-485</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: FIT-69.0101 PCM-60.0000 TO: 1 RS-485 >> FIT-69.0101 SIGNAL</td><td></td></tr><tr><td>S-25-431A</td><td>25E10-05</td><td>0.75"</td><td>1</td><td></td><td>RS-485</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: FT-61.1103 PCM-60.0000 TO: 1 RS-485 >> FT-61.1103 SIGNAL</td><td></td></tr><tr><td>S-25-451A</td><td>25E10-05</td><td>0.75"</td><td>1</td><td>MFR</td><td>CABLE</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: LE-66.0801B LIT-66.0801B TO: 1 MFR >> LE-66.0801B SIGNAL</td><td></td></tr><tr><td>S-25-451B</td><td>25E10-05</td><td>0.75"</td><td>1</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: LIT-66.0801B CONDUIT TEE TO: 1 2/CS-#16 >> LIT-66.0801B SIGNAL</td><td>C-25-456B</td></tr></table>													CONDUIT			CONDUCTORS			GROUND			DESCRIPTION	CONNECTING SEGMENTS	NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	S-25-308A	25E10-08	0.75"	6	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE JUNCTION BOX TO: 6 #14 >> LSH-21.0608 CONTROL 1 2/CS-#16 >> FIT-21.0603 SIGNAL	S-25-311B C-25-308A S-25-308B	S-25-308B	25E10-08	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: FIT-21.0603 CONDUIT TEE TO: 1 2/CS-#16 >> FIT-21.0603 SIGNAL	S-25-308A	S-25-311B	25E01-02 25E15-01	2"	26	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: JUNCTION BOX PCM-25.0000 TO: 1 2/CS-#16 >> AIT-21.0605 SIGNAL 10 #14 >> VAL-21.0602E CONTROL 1 2/CS-#16 >> FIT-21.0602 SIGNAL 10 #14 >> VAL-21.0602F CONTROL 1 2/CS-#16 >> FIT-21.0601 SIGNAL 6 #14 >> LSH-21.0608 CONTROL 1 2/CS-#16 >> FIT-21.0603 SIGNAL	C-25-307D C-25-307D C-25-307D C-25-307D C-25-308A S-25-308A	S-25-321A	25E01-02	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: AIT-21.0603 CONDUIT TEE TO: 1 2/CS-#16 >> AIT-21.0603 SIGNAL	S-25-322B	S-25-322A	25E01-02	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: AIT-21.0604 CONDUIT TEE TO: 1 2/CS-#16 >> AIT-21.0604 SIGNAL	S-25-322B	S-25-322B	25E01-02 25E01-03 25E10-07	0.75"	2	2/CS-#16		1	#14	XHHW-2	FR: CONDUIT TEE PLC-25.0001 (THROUGH PULLBOX) TO: 1 2/CS-#16 >> AIT-21.0603 SIGNAL 1 2/CS-#16 >> AIT-21.0604 SIGNAL	S-25-321A S-25-322A	S-25-402A	25E10-05	0.75"	1		RS-485	1	#14	XHHW-2	FR: FIT-65.0201 CONDUIT TEE TO: 1 RS-485 >> FIT-65.0201 SIGNAL		S-25-403A	25E10-05	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: WIT-65.0201 CONDUIT TEE TO: 1 2/CS-#16 >> WIT-65.0201 SIGNAL	S-25-403C	S-25-403B	25E10-05	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: WE-65.0201 WIT-65.0201 TO: 1 MFR >> WE-65.0201 SIGNAL		S-25-403C	25E10-05	1.5"	18	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE PCM-60.0000 TO: 2 #14 >> FSH-65.0201 CONTROL 8 #14 >> PMP-65.0202 CONTROL 8 #14 >> PMP-65.0201 CONTROL 1 2/CS-#16 >> WIT-65.0201 SIGNAL	C-25-406B C-25-406B C-25-406B S-25-403A	S-25-411A	25E10-05	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: WE1-69.0101 CONDUIT TEE TO: 1 MFR >> WE1-69.0101 SIGNAL	S-25-411C	S-25-411B	25E10-05	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: WE2-69.0101 CONDUIT TEE TO: 1 MFR >> WE2-69.0101 SIGNAL	S-25-411C	S-25-411C	25E10-05	0.75"	2	MFR	CABLE	1	#14	XHHW-2	FR: CONDUIT TEE WIT-69-0101 TO: 1 MFR >> WE1-69.0101 SIGNAL 1 MFR >> WE2-69.0101 SIGNAL	S-25-411A S-25-411B	S-25-411D	25E10-05	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: WIT-69-0101 CONDUIT TEE TO: 1 2/CS-#16 >> WIT-69-0101 SIGNAL	C-25-416B	S-25-412A	25E10-05	0.75"	1		RS-485	1	#14	XHHW-2	FR: FIT-69.0101 PCM-60.0000 TO: 1 RS-485 >> FIT-69.0101 SIGNAL		S-25-431A	25E10-05	0.75"	1		RS-485	1	#14	XHHW-2	FR: FT-61.1103 PCM-60.0000 TO: 1 RS-485 >> FT-61.1103 SIGNAL		S-25-451A	25E10-05	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: LE-66.0801B LIT-66.0801B TO: 1 MFR >> LE-66.0801B SIGNAL		S-25-451B	25E10-05	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: LIT-66.0801B CONDUIT TEE TO: 1 2/CS-#16 >> LIT-66.0801B SIGNAL	C-25-456B
CONDUIT			CONDUCTORS			GROUND			DESCRIPTION	CONNECTING SEGMENTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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S-25-202A	25E10-06	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: PIT-25.0002 CONDUIT TEE TO: 1 2/CS-#16 >> PIT-25.0002 SIGNAL	S-25-202C																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
S-25-202B	25E10-06	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: FIT-25.0002A CONDUIT TEE TO: 1 2/CS-#16 >> FIT-25.0002A SIGNAL	S-25-202C																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
S-25-202C	25E10-06 25E10-07	1"	2	2/CS-#16		1	#14	XHHW-2	FR: CONDUIT TEE PCM-25.0001 TO: 1 2/CS-#16 >> PIT-25.0002 SIGNAL 1 2/CS-#16 >> FIT-25.0002A SIGNAL	S-25-202A S-25-202B																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
S-25-203A	25E10-06	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: PIT-25.0003 CONDUIT TEE TO: 1 2/CS-#16 >> PIT-25.0003 SIGNAL	S-25-203C																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
S-25-203B	25E10-06	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: FIT-25.0003A CONDUIT TEE TO: 1 2/CS-#16 >> FIT-25.0003A SIGNAL	S-25-203C																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
S-25-203C	25E10-06 25E10-07	1"	2	2/CS-#16		1	#14	XHHW-2	FR: CONDUIT TEE PCM-25.0001 TO: 1 2/CS-#16 >> PIT-25.0003 SIGNAL 1 2/CS-#16 >> FIT-25.0003A SIGNAL	S-25-203A S-25-203B																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
S-25-204C	25E10-06 25E10-07	1"	1	PULL	ROPE				FR: FUTURE PUMP PCM-25.0001 TO: 1 PULL >> SPARE																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
S-25-210A	25E10-06 25E10-07	1"	1	2/CS-#16		1	#14	XHHW-2	FR: LIT-25.0001 PCM-25.0001 TO: 1 2/CS-#16 >> LIT-25.0001 SIGNAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
S-25-211A	25E10-06 25E10-07	1"	1	2/CS-#16		1	#14	XHHW-2	FR: FIT-25.0001B CONDUIT TEE TO: 1 2/CS-#16 >> FIT-25.0001B SIGNAL	C-25-211B																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
S-25-213A	25E10-06 25E10-07	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: AIT-25.0006B JUNCTION BOX TO: 1 2/CS-#16 >> AIT-25.0006B SIGNAL	C-25-213B																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
S-25-214A	25E01-02	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: AIT-25.0006A JUNCTION BOX TO: 1 2/CS-#16 >> AIT-25.0006A SIGNAL	C-25-214B																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
S-25-301A	25E10-08	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: AE-21.0605 AIT-21.0605 TO: 1 MFR >> AE-21.0605 SIGNAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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S-25-303A	25E01-01	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: PIT-21.0602 PULLBOX TO: 1 2/CS-#16 >> PIT-21.0602 SIGNAL	S-25-303B																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
S-25-303B	25E01-01 25E15-01	2"	20	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: PULLBOX PCM-25.0000 TO: 10 #14 >> VAL-21.0601A CONTROL 10 #14 >> VAL-21.0601B CONTROL 1 2/CS-#16 >> PIT-21.0602 SIGNAL	C-25-302C C-25-302C S-25-303A																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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S-25-307C	25E10-08	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: FIT-21.0601 CONDUIT TEE TO: 1 2/CS-#16 >> FIT-21.0601 SIGNAL	C-25-307D																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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S-25-308A	25E10-08	0.75"	6	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE JUNCTION BOX TO: 6 #14 >> LSH-21.0608 CONTROL 1 2/CS-#16 >> FIT-21.0603 SIGNAL	S-25-311B C-25-308A S-25-308B																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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S-25-311B	25E01-02 25E15-01	2"	26	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: JUNCTION BOX PCM-25.0000 TO: 1 2/CS-#16 >> AIT-21.0605 SIGNAL 10 #14 >> VAL-21.0602E CONTROL 1 2/CS-#16 >> FIT-21.0602 SIGNAL 10 #14 >> VAL-21.0602F CONTROL 1 2/CS-#16 >> FIT-21.0601 SIGNAL 6 #14 >> LSH-21.0608 CONTROL 1 2/CS-#16 >> FIT-21.0603 SIGNAL	C-25-307D C-25-307D C-25-307D C-25-307D C-25-308A S-25-308A																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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S-25-322B	25E01-02 25E01-03 25E10-07	0.75"	2	2/CS-#16		1	#14	XHHW-2	FR: CONDUIT TEE PLC-25.0001 (THROUGH PULLBOX) TO: 1 2/CS-#16 >> AIT-21.0603 SIGNAL 1 2/CS-#16 >> AIT-21.0604 SIGNAL	S-25-321A S-25-322A																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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S-25-403C	25E10-05	1.5"	18	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE PCM-60.0000 TO: 2 #14 >> FSH-65.0201 CONTROL 8 #14 >> PMP-65.0202 CONTROL 8 #14 >> PMP-65.0201 CONTROL 1 2/CS-#16 >> WIT-65.0201 SIGNAL	C-25-406B C-25-406B C-25-406B S-25-403A																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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S-25-411D	25E10-05	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: WIT-69-0101 CONDUIT TEE TO: 1 2/CS-#16 >> WIT-69-0101 SIGNAL	C-25-416B																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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S-25-451A	25E10-05	0.75"	1	MFR	CABLE	1	#14	XHHW-2	FR: LE-66.0801B LIT-66.0801B TO: 1 MFR >> LE-66.0801B SIGNAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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<div><div><div><div>DESIGNED AB</div><div>DRAWN BPR</div><div>CHECKED JGB</div><div>DATE SEPTEMBER 2020</div></div><div><div>Digitally signed by Ashrita Banapouram DN: cn=Ashrita Banapouram, o=Carollo Engineers, Inc., c=US, email=ashrita@carollo.com, serial=10024A1025E0523</div><div><div>REGISTERED PROFESSIONAL ENGINEER ASHRITA BANAPOURAM No. 21815 ELECTRICAL STATE OF CALIFORNIA</div><div><div>carollo</div><div>ANTIOCH CALIFORNIA OPPORTUNITY LIVES-HERE</div></div></div><div><div>CITY OF ANTIOCH ANTIOCH BRACKISH WATER DESALINATION PROJECT ELECTRICAL WATER TREATMENT PLANT CONDUIT SCHEDULE - 23</div><div>VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY</div><div>JOB NO. 10024A.10 DRAWING NO. 25E05-23 SHEET NO. 300 OF 498</div></div></div></div></div>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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<div><div>CONDUIT SCHEDULE AREA 25</div><div>BRACKISH WATER DESALINATION PROJECT</div><div>WATER TREATMENT PLANT</div><div>11/10/20</div><table><tr><th colspan="3">CONDUIT</th><th colspan="3">CONDUCTORS</th><th colspan="3">GROUND</th><th rowspan="2">DESCRIPTION</th><th rowspan="2">CONNECTING SEGMENTS</th></tr><tr><th>NUMBER</th><th>DWG</th><th>SIZE</th><th>#</th><th>SIZE</th><th>TYPE</th><th>#</th><th>SIZE</th><th>TYPE</th></tr><tr><td>S-25-452A</td><td>25E10-05</td><td>0.75"</td><td>1</td><td></td><td>RS-485</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: FIT-66.0802 CONDUIT TEE RS-485 TO: 1 >> FIT-66.0802 SIGNAL</td><td>S-25-453B</td></tr><tr><td>S-25-453A</td><td>25E10-05</td><td>0.75"</td><td>1</td><td></td><td>RS-485</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: FIT-66.0801 CONDUIT TEE RS-485 TO: 1 >> FIT-66.0801 SIGNAL</td><td>S-25-453B</td></tr><tr><td>S-25-453B</td><td>25E10-05</td><td>0.75"</td><td>2</td><td></td><td>RS-485</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONDUIT TEE CONDUIT TEE RS-485 TO: 1 >> FIT-66.0802 SIGNAL 1 RS-485 >> FIT-66.0801 SIGNAL</td><td>S-25-452A S-25-453A</td></tr><tr><td>S-25-459A</td><td>25E10-05</td><td>0.75"</td><td>1</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: LCP-66.0801 CONDUIT TEE 2/CS-#16 TO: 1 >> LI-66.0801B SIGNAL</td><td>S-25-474B</td></tr><tr><td>S-25-463A</td><td>25E10-05</td><td>0.75"</td><td>1</td><td></td><td>RS-485</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: FIT-66.0804 CONDUIT TEE RS-485 TO: 1 >> FIT-66.0804 SIGNAL</td><td>S-25-463B</td></tr><tr><td>S-25-463B</td><td>25E10-05</td><td>1"</td><td>3</td><td></td><td>RS-485</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONDUIT TEE PCM-60.0000 TO: 1 RS-485 >> FIT-66.0802 SIGNAL 1 RS-485 >> FIT-66.0801 SIGNAL 1 RS-485 >> FIT-66.0804 SIGNAL</td><td>S-25-453C S-25-453C S-25-463A</td></tr><tr><td>S-25-472A</td><td>25E10-05</td><td>0.75"</td><td>1</td><td></td><td>RS-485</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: FIT-66.0901 PCM-60.0000 RS-485 TO: 1 >> FIT-66.0901 SIGNAL</td><td></td></tr><tr><td>S-25-474A</td><td>25E10-05</td><td>0.75"</td><td>1</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: LCP-66.0901 CONDUIT TEE 2/CS-#16 TO: 1 >> LI-66.0901 SIGNAL</td><td>S-25-474B</td></tr><tr><td>S-25-474B</td><td>25E10-05</td><td>0.75"</td><td>2</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONDUIT TEE JUNCTION BOX TO: 1 2/CS-#16 >> LI-66.0801B SIGNAL 1 2/CS-#16 >> LI-66.0901 SIGNAL</td><td>S-25-459A S-25-474A</td></tr><tr><td>S-25-474C</td><td>25E10-05</td><td>1.5"</td><td>16 2</td><td>#14 2/CS-#16</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: JUNCTION BOX CONDUIT TEE TO: 10 #14 >> VAL-66.0901F CONTROL 2 #14 >> FSH-66.0901 CONTROL 2 #14 >> FSH-66.0904 CONTROL 2 #14 >> LSH-66.0903 CONTROL 1 2/CS-#16 >> LI-66.0801B SIGNAL 1 2/CS-#16 >> LI-66.0901 SIGNAL</td><td>S-25-475B C-25-479A C-25-473D C-25-473D C-25-473D C-25-473D</td></tr><tr><td>S-25-475A</td><td>25E10-05</td><td>0.75"</td><td>1</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: LIT-66.0901 CONDUIT TEE 2/CS-#16 TO: 1 >> LIT-66.0901 SIGNAL</td><td>S-25-475B</td></tr><tr><td>S-25-475B</td><td>25E10-05</td><td>1.5"</td><td>16 3</td><td>#14 2/CS-#16</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONDUIT TEE PCM-60.0000 TO: 10 #14 >> VAL-66.0901F CONTROL 2 #14 >> FSH-66.0901 CONTROL 2 #14 >> FSH-66.0904 CONTROL 2 #14 >> LSH-66.0903 CONTROL 1 2/CS-#16 >> LI-66.0801B SIGNAL 1 2/CS-#16 >> LI-66.0901 SIGNAL 1 2/CS-#16 >> LIT-66.0901 SIGNAL</td><td>S-25-474C S-25-474C S-25-474C S-25-474C S-25-474C S-25-474C S-25-475A</td></tr><tr><td>S-25-611A</td><td>25E10-01 25E10-02 25E15-01</td><td>1.5"</td><td>8</td><td>3/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: PMP-25.0101 VFD-25.0101 TO: 8 3/CS-#16 >> TSH-25.0101 SIGNAL</td><td></td></tr><tr><td>S-25-611B</td><td>25E15-01</td><td>1.5"</td><td>14 2</td><td>#14 2/CS-#16</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: VFD-25.0101 CONDUIT TEE TO: 2 2/CS-#16 >> VFD-25.0101 SIGNAL 14 #14 >> VFD-25.0101 CONTROL</td><td>S-25-611C</td></tr><tr><td>S-25-611C</td><td>25E15-01</td><td>2.5"</td><td>56 8</td><td>#14 2/CS-#16</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONDUIT TEE PCM-25.0000 TO: 2 2/CS-#16 >> VFD-25.0101 SIGNAL 14 #14 >> VFD-25.0101 CONTROL 2 2/CS-#16 >> VFD-25.0401 SIGNAL 14 #14 >> VFD-25.0401 SIGNAL 2 2/CS-#16 >> VFD-25.0301 SIGNAL 14 #14 >> VFD-25.0301 SIGNAL 2 2/CS-#16 >> VFD-25.0201 SIGNAL 14 #14 >> VFD-25.0201 CONTROL</td><td>S-25-611B S-25-611B S-25-621C S-25-621C S-25-621C S-25-621C S-25-621C</td></tr></table></div>													CONDUIT			CONDUCTORS			GROUND			DESCRIPTION	CONNECTING SEGMENTS	NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	S-25-452A	25E10-05	0.75"	1		RS-485	1	#14	XHHW-2	FR: FIT-66.0802 CONDUIT TEE RS-485 TO: 1 >> FIT-66.0802 SIGNAL	S-25-453B	S-25-453A	25E10-05	0.75"	1		RS-485	1	#14	XHHW-2	FR: FIT-66.0801 CONDUIT TEE RS-485 TO: 1 >> FIT-66.0801 SIGNAL	S-25-453B	S-25-453B	25E10-05	0.75"	2		RS-485	1	#14	XHHW-2	FR: CONDUIT TEE CONDUIT TEE RS-485 TO: 1 >> FIT-66.0802 SIGNAL 1 RS-485 >> FIT-66.0801 SIGNAL	S-25-452A S-25-453A	S-25-459A	25E10-05	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: LCP-66.0801 CONDUIT TEE 2/CS-#16 TO: 1 >> LI-66.0801B SIGNAL	S-25-474B	S-25-463A	25E10-05	0.75"	1		RS-485	1	#14	XHHW-2	FR: FIT-66.0804 CONDUIT TEE RS-485 TO: 1 >> FIT-66.0804 SIGNAL	S-25-463B	S-25-463B	25E10-05	1"	3		RS-485	1	#14	XHHW-2	FR: CONDUIT TEE PCM-60.0000 TO: 1 RS-485 >> FIT-66.0802 SIGNAL 1 RS-485 >> FIT-66.0801 SIGNAL 1 RS-485 >> FIT-66.0804 SIGNAL	S-25-453C S-25-453C S-25-463A	S-25-472A	25E10-05	0.75"	1		RS-485	1	#14	XHHW-2	FR: FIT-66.0901 PCM-60.0000 RS-485 TO: 1 >> FIT-66.0901 SIGNAL		S-25-474A	25E10-05	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: LCP-66.0901 CONDUIT TEE 2/CS-#16 TO: 1 >> LI-66.0901 SIGNAL	S-25-474B	S-25-474B	25E10-05	0.75"	2	2/CS-#16		1	#14	XHHW-2	FR: CONDUIT TEE JUNCTION BOX TO: 1 2/CS-#16 >> LI-66.0801B SIGNAL 1 2/CS-#16 >> LI-66.0901 SIGNAL	S-25-459A S-25-474A	S-25-474C	25E10-05	1.5"	16 2	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: JUNCTION BOX CONDUIT TEE TO: 10 #14 >> VAL-66.0901F CONTROL 2 #14 >> FSH-66.0901 CONTROL 2 #14 >> FSH-66.0904 CONTROL 2 #14 >> LSH-66.0903 CONTROL 1 2/CS-#16 >> LI-66.0801B SIGNAL 1 2/CS-#16 >> LI-66.0901 SIGNAL	S-25-475B C-25-479A C-25-473D C-25-473D C-25-473D C-25-473D	S-25-475A	25E10-05	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: LIT-66.0901 CONDUIT TEE 2/CS-#16 TO: 1 >> LIT-66.0901 SIGNAL	S-25-475B	S-25-475B	25E10-05	1.5"	16 3	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE PCM-60.0000 TO: 10 #14 >> VAL-66.0901F CONTROL 2 #14 >> FSH-66.0901 CONTROL 2 #14 >> FSH-66.0904 CONTROL 2 #14 >> LSH-66.0903 CONTROL 1 2/CS-#16 >> LI-66.0801B SIGNAL 1 2/CS-#16 >> LI-66.0901 SIGNAL 1 2/CS-#16 >> LIT-66.0901 SIGNAL	S-25-474C S-25-474C S-25-474C S-25-474C S-25-474C S-25-474C S-25-475A	S-25-611A	25E10-01 25E10-02 25E15-01	1.5"	8	3/CS-#16		1	#14	XHHW-2	FR: PMP-25.0101 VFD-25.0101 TO: 8 3/CS-#16 >> TSH-25.0101 SIGNAL		S-25-611B	25E15-01	1.5"	14 2	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: VFD-25.0101 CONDUIT TEE TO: 2 2/CS-#16 >> VFD-25.0101 SIGNAL 14 #14 >> VFD-25.0101 CONTROL	S-25-611C	S-25-611C	25E15-01	2.5"	56 8	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE PCM-25.0000 TO: 2 2/CS-#16 >> VFD-25.0101 SIGNAL 14 #14 >> VFD-25.0101 CONTROL 2 2/CS-#16 >> VFD-25.0401 SIGNAL 14 #14 >> VFD-25.0401 SIGNAL 2 2/CS-#16 >> VFD-25.0301 SIGNAL 14 #14 >> VFD-25.0301 SIGNAL 2 2/CS-#16 >> VFD-25.0201 SIGNAL 14 #14 >> VFD-25.0201 CONTROL	S-25-611B S-25-611B S-25-621C S-25-621C S-25-621C S-25-621C S-25-621C
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S-25-611C	25E15-01	2.5"	56 8	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE PCM-25.0000 TO: 2 2/CS-#16 >> VFD-25.0101 SIGNAL 14 #14 >> VFD-25.0101 CONTROL 2 2/CS-#16 >> VFD-25.0401 SIGNAL 14 #14 >> VFD-25.0401 SIGNAL 2 2/CS-#16 >> VFD-25.0301 SIGNAL 14 #14 >> VFD-25.0301 SIGNAL 2 2/CS-#16 >> VFD-25.0201 SIGNAL 14 #14 >> VFD-25.0201 CONTROL	S-25-611B S-25-611B S-25-621C S-25-621C S-25-621C S-25-621C S-25-621C																																																																																																																																																																																											
<div><div>CONDUIT SCHEDULE AREA 25</div><div>BRACKISH WATER DESALINATION PROJECT</div><div>WATER TREATMENT PLANT</div><div>11/10/20</div><table><tr><th colspan="3">CONDUIT</th><th colspan="3">CONDUCTORS</th><th colspan="3">GROUND</th><th rowspan="2">DESCRIPTION</th><th rowspan="2">CONNECTING SEGMENTS</th></tr><tr><th>NUMBER</th><th>DWG</th><th>SIZE</th><th>#</th><th>SIZE</th><th>TYPE</th><th>#</th><th>SIZE</th><th>TYPE</th></tr><tr><td>S-25-613A</td><td>25E10-02</td><td>2"</td><td>13</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: SIGNAL JUNCTION BOX CONDUIT TEE TO: 13 2/CS-#16 >> RO TRAIN NO.1 SIGNALS</td><td>S-25-613B</td></tr><tr><td>S-25-613B</td><td>25E10-02 25E15-01</td><td>4"</td><td>52</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONDUIT TEE PCM-25.0000 TO: 13 2/CS-#16 >> RO TRAIN NO.4 SIGNALS 13 2/CS-#16 >> RO TRAIN NO.3 SIGNALS 13 2/CS-#16 >> RO TRAIN NO.2 SIGNALS 13 2/CS-#16 >> RO TRAIN NO.1 SIGNALS</td><td>S-25-623B S-25-623B S-25-623B S-25-613A</td></tr><tr><td>S-25-616A</td><td>25E15-02</td><td>1.5"</td><td>14 2</td><td>#14 2/CS-#16</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: VFD-25.0104 CONDUIT TEE TO: 2 2/CS-#16 >> VFD-25.0104 SIGNAL 14 #14 >> VFD-25.0104 CONTROL</td><td>S-25-626B</td></tr><tr><td>S-25-621A</td><td>25E10-01 25E10-02 25E15-01</td><td>1.5"</td><td>8</td><td>3/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: PMP-25.0201 VFD-25.0201 TO: 8 3/CS-#16 >> TSH-25.0201 SIGNAL</td><td></td></tr><tr><td>S-25-621B</td><td>25E15-02</td><td>1.5"</td><td>14 2</td><td>#14 2/CS-#16</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: VFD-25.0201 CONDUIT TEE TO: 2 2/CS-#16 >> VFD-25.0201 SIGNAL 14 #14 >> VFD-25.0201 CONTROL</td><td>S-25-621C</td></tr><tr><td>S-25-621C</td><td>25E15-02</td><td>2"</td><td>42 6</td><td>#14 2/CS-#16</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONDUIT TEE CONDUIT TEE TO: 2 2/CS-#16 >> VFD-25.0401 SIGNAL 14 #14 >> VFD-25.0401 CONTROL 2 2/CS-#16 >> VFD-25.0301 SIGNAL 14 #14 >> VFD-25.0301 CONTROL 2 2/CS-#16 >> VFD-25.0201 SIGNAL 14 #14 >> VFD-25.0201 CONTROL</td><td>S-25-611C S-25-631C S-25-631C S-25-631C S-25-631C S-25-621B S-25-621B</td></tr><tr><td>S-25-623A</td><td>25E10-01</td><td>2"</td><td>13</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: SIGNAL JUNCTION BOX CONDUIT TEE TO: 13 2/CS-#16 >> RO TRAIN NO.2 SIGNALS</td><td>S-25-623B</td></tr><tr><td>S-25-623B</td><td>25E10-01 25E10-02</td><td>3.5"</td><td>39</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONDUIT TEE CONDUIT TEE TO: 13 2/CS-#16 >> RO TRAIN NO.4 SIGNALS 13 2/CS-#16 >> RO TRAIN NO.3 SIGNALS 13 2/CS-#16 >> RO TRAIN NO.2 SIGNALS</td><td>S-25-613B S-25-633B S-25-633B S-25-623A</td></tr><tr><td>S-25-626A</td><td>25E15-02</td><td>1.5"</td><td>14 2</td><td>#14 2/CS-#16</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: VFD-25.0204 CONDUIT TEE TO: 2 2/CS-#16 >> VFD-25.0204 SIGNAL 14 #14 >> VFD-25.0204 CONTROL</td><td>S-25-626B</td></tr><tr><td>S-25-626B</td><td>25E15-02</td><td>1.5"</td><td>28 4</td><td>#14 2/CS-#16</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONDUIT TEE CONDUIT TEE TO: 2 2/CS-#16 >> VFD-25.0104 SIGNAL 14 #14 >> VFD-25.0104 CONTROL 2 2/CS-#16 >> VFD-25.0204 SIGNAL 14 #14 >> VFD-25.0204 CONTROL</td><td>S-25-636B S-25-616A S-25-616A S-25-626A S-25-626A</td></tr><tr><td>S-25-631A</td><td>25E10-01 25E10-02 25E15-01</td><td>1.5"</td><td>8</td><td>3/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: PMP-25.0301 VFD-25.0301 TO: 8 3/CS-#16 >> TSH-25.0301 SIGNAL</td><td></td></tr><tr><td>S-25-631B</td><td>25E15-02</td><td>1.5"</td><td>14 2</td><td>#14 2/CS-#16</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: VFD-25.0301 CONDUIT TEE TO: 2 2/CS-#16 >> VFD-25.0301 SIGNAL 14 #14 >> VFD-25.0301 CONTROL</td><td>S-25-631C</td></tr><tr><td>S-25-631C</td><td>25E15-02</td><td>1.5"</td><td>28 4</td><td>#14 2/CS-#16</td><td>XHHW-2</td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONDUIT TEE CONDUIT TEE TO: 2 2/CS-#16 >> VFD-25.0401 SIGNAL 14 #14 >> VFD-25.0401 CONTROL 2 2/CS-#16 >> VFD-25.0301 SIGNAL 14 #14 >> VFD-25.0301 CONTROL</td><td>S-25-621C S-25-641B S-25-641B S-25-631B S-25-631B</td></tr><tr><td>S-25-633A</td><td>25E10-01</td><td>2"</td><td>13</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: SIGNAL JUNCTION BOX CONDUIT TEE TO: 13 2/CS-#16 >> RO TRAIN NO.3 SIGNALS</td><td>S-25-633B</td></tr><tr><td>S-25-633B</td><td>25E10-01</td><td>3"</td><td>26</td><td>2/CS-#16</td><td></td><td>1</td><td>#14</td><td>XHHW-2</td><td>FR: CONDUIT TEE CONDUIT TEE TO: 13 2/CS-#16 >> RO TRAIN NO.4 SIGNALS 13 2/CS-#16 >> RO TRAIN NO.3 SIGNALS</td><td>S-25-623B S-25-643A S-25-633A</td></tr></table></div>													CONDUIT			CONDUCTORS			GROUND			DESCRIPTION	CONNECTING SEGMENTS	NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	S-25-613A	25E10-02	2"	13	2/CS-#16		1	#14	XHHW-2	FR: SIGNAL JUNCTION BOX CONDUIT TEE TO: 13 2/CS-#16 >> RO TRAIN NO.1 SIGNALS	S-25-613B	S-25-613B	25E10-02 25E15-01	4"	52	2/CS-#16		1	#14	XHHW-2	FR: CONDUIT TEE PCM-25.0000 TO: 13 2/CS-#16 >> RO TRAIN NO.4 SIGNALS 13 2/CS-#16 >> RO TRAIN NO.3 SIGNALS 13 2/CS-#16 >> RO TRAIN NO.2 SIGNALS 13 2/CS-#16 >> RO TRAIN NO.1 SIGNALS	S-25-623B S-25-623B S-25-623B S-25-613A	S-25-616A	25E15-02	1.5"	14 2	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: VFD-25.0104 CONDUIT TEE TO: 2 2/CS-#16 >> VFD-25.0104 SIGNAL 14 #14 >> VFD-25.0104 CONTROL	S-25-626B	S-25-621A	25E10-01 25E10-02 25E15-01	1.5"	8	3/CS-#16		1	#14	XHHW-2	FR: PMP-25.0201 VFD-25.0201 TO: 8 3/CS-#16 >> TSH-25.0201 SIGNAL		S-25-621B	25E15-02	1.5"	14 2	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: VFD-25.0201 CONDUIT TEE TO: 2 2/CS-#16 >> VFD-25.0201 SIGNAL 14 #14 >> VFD-25.0201 CONTROL	S-25-621C	S-25-621C	25E15-02	2"	42 6	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE CONDUIT TEE TO: 2 2/CS-#16 >> VFD-25.0401 SIGNAL 14 #14 >> VFD-25.0401 CONTROL 2 2/CS-#16 >> VFD-25.0301 SIGNAL 14 #14 >> VFD-25.0301 CONTROL 2 2/CS-#16 >> VFD-25.0201 SIGNAL 14 #14 >> VFD-25.0201 CONTROL	S-25-611C S-25-631C S-25-631C S-25-631C S-25-631C S-25-621B S-25-621B	S-25-623A	25E10-01	2"	13	2/CS-#16		1	#14	XHHW-2	FR: SIGNAL JUNCTION BOX CONDUIT TEE TO: 13 2/CS-#16 >> RO TRAIN NO.2 SIGNALS	S-25-623B	S-25-623B	25E10-01 25E10-02	3.5"	39	2/CS-#16		1	#14	XHHW-2	FR: CONDUIT TEE CONDUIT TEE TO: 13 2/CS-#16 >> RO TRAIN NO.4 SIGNALS 13 2/CS-#16 >> RO TRAIN NO.3 SIGNALS 13 2/CS-#16 >> RO TRAIN NO.2 SIGNALS	S-25-613B S-25-633B S-25-633B S-25-623A	S-25-626A	25E15-02	1.5"	14 2	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: VFD-25.0204 CONDUIT TEE TO: 2 2/CS-#16 >> VFD-25.0204 SIGNAL 14 #14 >> VFD-25.0204 CONTROL	S-25-626B	S-25-626B	25E15-02	1.5"	28 4	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE CONDUIT TEE TO: 2 2/CS-#16 >> VFD-25.0104 SIGNAL 14 #14 >> VFD-25.0104 CONTROL 2 2/CS-#16 >> VFD-25.0204 SIGNAL 14 #14 >> VFD-25.0204 CONTROL	S-25-636B S-25-616A S-25-616A S-25-626A S-25-626A	S-25-631A	25E10-01 25E10-02 25E15-01	1.5"	8	3/CS-#16		1	#14	XHHW-2	FR: PMP-25.0301 VFD-25.0301 TO: 8 3/CS-#16 >> TSH-25.0301 SIGNAL		S-25-631B	25E15-02	1.5"	14 2	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: VFD-25.0301 CONDUIT TEE TO: 2 2/CS-#16 >> VFD-25.0301 SIGNAL 14 #14 >> VFD-25.0301 CONTROL	S-25-631C	S-25-631C	25E15-02	1.5"	28 4	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE CONDUIT TEE TO: 2 2/CS-#16 >> VFD-25.0401 SIGNAL 14 #14 >> VFD-25.0401 CONTROL 2 2/CS-#16 >> VFD-25.0301 SIGNAL 14 #14 >> VFD-25.0301 CONTROL	S-25-621C S-25-641B S-25-641B S-25-631B S-25-631B	S-25-633A	25E10-01	2"	13	2/CS-#16		1	#14	XHHW-2	FR: SIGNAL JUNCTION BOX CONDUIT TEE TO: 13 2/CS-#16 >> RO TRAIN NO.3 SIGNALS	S-25-633B	S-25-633B	25E10-01	3"	26	2/CS-#16		1	#14	XHHW-2	FR: CONDUIT TEE CONDUIT TEE TO: 13 2/CS-#16 >> RO TRAIN NO.4 SIGNALS 13 2/CS-#16 >> RO TRAIN NO.3 SIGNALS	S-25-623B S-25-643A S-25-633A
CONDUIT			CONDUCTORS			GROUND			DESCRIPTION	CONNECTING SEGMENTS																																																																																																																																																																																											
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE																																																																																																																																																																																													
S-25-613A	25E10-02	2"	13	2/CS-#16		1	#14	XHHW-2	FR: SIGNAL JUNCTION BOX CONDUIT TEE TO: 13 2/CS-#16 >> RO TRAIN NO.1 SIGNALS	S-25-613B																																																																																																																																																																																											
S-25-613B	25E10-02 25E15-01	4"	52	2/CS-#16		1	#14	XHHW-2	FR: CONDUIT TEE PCM-25.0000 TO: 13 2/CS-#16 >> RO TRAIN NO.4 SIGNALS 13 2/CS-#16 >> RO TRAIN NO.3 SIGNALS 13 2/CS-#16 >> RO TRAIN NO.2 SIGNALS 13 2/CS-#16 >> RO TRAIN NO.1 SIGNALS	S-25-623B S-25-623B S-25-623B S-25-613A																																																																																																																																																																																											
S-25-616A	25E15-02	1.5"	14 2	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: VFD-25.0104 CONDUIT TEE TO: 2 2/CS-#16 >> VFD-25.0104 SIGNAL 14 #14 >> VFD-25.0104 CONTROL	S-25-626B																																																																																																																																																																																											
S-25-621A	25E10-01 25E10-02 25E15-01	1.5"	8	3/CS-#16		1	#14	XHHW-2	FR: PMP-25.0201 VFD-25.0201 TO: 8 3/CS-#16 >> TSH-25.0201 SIGNAL																																																																																																																																																																																												
S-25-621B	25E15-02	1.5"	14 2	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: VFD-25.0201 CONDUIT TEE TO: 2 2/CS-#16 >> VFD-25.0201 SIGNAL 14 #14 >> VFD-25.0201 CONTROL	S-25-621C																																																																																																																																																																																											
S-25-621C	25E15-02	2"	42 6	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE CONDUIT TEE TO: 2 2/CS-#16 >> VFD-25.0401 SIGNAL 14 #14 >> VFD-25.0401 CONTROL 2 2/CS-#16 >> VFD-25.0301 SIGNAL 14 #14 >> VFD-25.0301 CONTROL 2 2/CS-#16 >> VFD-25.0201 SIGNAL 14 #14 >> VFD-25.0201 CONTROL	S-25-611C S-25-631C S-25-631C S-25-631C S-25-631C S-25-621B S-25-621B																																																																																																																																																																																											
S-25-623A	25E10-01	2"	13	2/CS-#16		1	#14	XHHW-2	FR: SIGNAL JUNCTION BOX CONDUIT TEE TO: 13 2/CS-#16 >> RO TRAIN NO.2 SIGNALS	S-25-623B																																																																																																																																																																																											
S-25-623B	25E10-01 25E10-02	3.5"	39	2/CS-#16		1	#14	XHHW-2	FR: CONDUIT TEE CONDUIT TEE TO: 13 2/CS-#16 >> RO TRAIN NO.4 SIGNALS 13 2/CS-#16 >> RO TRAIN NO.3 SIGNALS 13 2/CS-#16 >> RO TRAIN NO.2 SIGNALS	S-25-613B S-25-633B S-25-633B S-25-623A																																																																																																																																																																																											
S-25-626A	25E15-02	1.5"	14 2	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: VFD-25.0204 CONDUIT TEE TO: 2 2/CS-#16 >> VFD-25.0204 SIGNAL 14 #14 >> VFD-25.0204 CONTROL	S-25-626B																																																																																																																																																																																											
S-25-626B	25E15-02	1.5"	28 4	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE CONDUIT TEE TO: 2 2/CS-#16 >> VFD-25.0104 SIGNAL 14 #14 >> VFD-25.0104 CONTROL 2 2/CS-#16 >> VFD-25.0204 SIGNAL 14 #14 >> VFD-25.0204 CONTROL	S-25-636B S-25-616A S-25-616A S-25-626A S-25-626A																																																																																																																																																																																											
S-25-631A	25E10-01 25E10-02 25E15-01	1.5"	8	3/CS-#16		1	#14	XHHW-2	FR: PMP-25.0301 VFD-25.0301 TO: 8 3/CS-#16 >> TSH-25.0301 SIGNAL																																																																																																																																																																																												
S-25-631B	25E15-02	1.5"	14 2	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: VFD-25.0301 CONDUIT TEE TO: 2 2/CS-#16 >> VFD-25.0301 SIGNAL 14 #14 >> VFD-25.0301 CONTROL	S-25-631C																																																																																																																																																																																											
S-25-631C	25E15-02	1.5"	28 4	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE CONDUIT TEE TO: 2 2/CS-#16 >> VFD-25.0401 SIGNAL 14 #14 >> VFD-25.0401 CONTROL 2 2/CS-#16 >> VFD-25.0301 SIGNAL 14 #14 >> VFD-25.0301 CONTROL	S-25-621C S-25-641B S-25-641B S-25-631B S-25-631B																																																																																																																																																																																											
S-25-633A	25E10-01	2"	13	2/CS-#16		1	#14	XHHW-2	FR: SIGNAL JUNCTION BOX CONDUIT TEE TO: 13 2/CS-#16 >> RO TRAIN NO.3 SIGNALS	S-25-633B																																																																																																																																																																																											
S-25-633B	25E10-01	3"	26	2/CS-#16		1	#14	XHHW-2	FR: CONDUIT TEE CONDUIT TEE TO: 13 2/CS-#16 >> RO TRAIN NO.4 SIGNALS 13 2/CS-#16 >> RO TRAIN NO.3 SIGNALS	S-25-623B S-25-643A S-25-633A																																																																																																																																																																																											
<div><div><div>1</div></div><div><div>DESIGNED AB</div><div>DRAWN BPR</div><div>CHECKED JGB</div><div>DATE SEPTEMBER 2020</div></div><div><div>Digitally signed by Ashrita Banapuram Contact Info: Carollo Engineers, Inc. Date: 2020.11.16 16:47:24 -0800</div><div><div>REGISTERED PROFESSIONAL ENGINEER ASHRITA BANAPURAM No. 21815 ELECTRICAL STATE OF CALIFORNIA</div><div><div>carollo</div><div>ANTIOCH CALIFORNIA OPPORTUNITY LIVES-HERE</div></div></div></div></div>																																																																																																																																																																																																					
<div><div>CITY OF ANTIOCH</div><div>ANTIOCH BRACKISH WATER DESALINATION PROJECT</div><div>ELECTRICAL</div><div>WATER TREATMENT PLANT CONDUIT SCHEDULE - 24</div><div>VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY</div><div>JOB NO. 10024A.10 DRAWING NO. 25E05-24 SHEET NO. 301 OF 498</div></div>																																																																																																																																																																																																					
1	2	3	4	5	6	7	8	9	10	11	12	13																																																																																																																																																																																									

Plot Date: 10-NOV-2020 4:42:04 PM

User: svcPW

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo Std Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: mpacheco

CONDUIT SCHEDULE AREA 25

BRACKISH WATER DESALINATION PROJECT

WATER TREATMENT PLANT

CONDUIT

NUMBER

DWG

SIZE

#

SIZE

TYPE

#

SIZE

TYPE

DESCRIPTION

CONNECTING SEGMENTS

S-25-636A

25E15-02

1.5"

14
2

#14
2/CS-#16

XHHW-2

1

#14

XHHW-2

FR: VFD-25.0304
TO: CONDUIT TEE
2 2/CS-#16
14 #14
>> VFD-25.0304 SIGNAL
>> VFD-25.0304 CONTROL

S-25-636B

S-25-636B

25E15-02

2"

42
6

#14
2/CS-#16

XHHW-2

1

#14

XHHW-2

FR: CONDUIT TEE
TO: CONDUIT TEE
2 2/CS-#16
14 #14
2 2/CS-#16
14 #14
2 2/CS-#16
14 #14
>> VFD-25.0104 SIGNAL
>> VFD-25.0104 CONTROL
>> VFD-25.0204 SIGNAL
>> VFD-25.0204 CONTROL
>> VFD-25.0304 SIGNAL
>> VFD-25.0304 CONTROL

S-25-646B
S-25-626B
S-25-626B
S-25-626B
S-25-626B
S-25-636A
S-25-636A

S-25-641A

25E10-01
25E10-02
25E15-01

1.5"

8

3/CS-#16

1

#14

XHHW-2

FR: PMP-25.0401
TO: VFD-25.0401
8 3/CS-#16
>> TSH-25.0401 SIGNAL

S-25-641B

25E15-02

1.5"

14
2

#14
2/CS-#16

XHHW-2

1

#14

XHHW-2

FR: VFD-25.0401
TO: CONDUIT TEE
2 2/CS-#16
14 #14
>> VFD-25.0401 SIGNAL
>> VFD-25.0401 CONTROL

S-25-631C

S-25-643A

25E10-01

2"

13

2/CS-#16

1

#14

XHHW-2

FR: SIGNAL JUNCTION BOX
TO: CONDUIT TEE
13 2/CS-#16
>> RO TRAIN NO.4 SIGNALS

S-25-633B

S-25-646A

25E15-02

1.5"

14
2

#14
2/CS-#16

XHHW-2

1

#14

XHHW-2

FR: VFD-25.0404
TO: CONDUIT TEE
2 2/CS-#16
14 #14
>> VFD-25.0404 SIGNAL
>> VFD-25.0404 CONTROL

S-25-646B

S-25-646B

25E15-02

2.5"

56
8

#14
2/CS-#16

XHHW-2

1

#14

XHHW-2

FR: CONDUIT TEE
TO: PCM-25.0000
2 2/CS-#16
14 #14
2 2/CS-#16
14 #14
2 2/CS-#16
14 #14
2 2/CS-#16
14 #14
2 2/CS-#16
14 #14
>> VFD-25.0104 SIGNAL
>> VFD-25.0104 CONTROL
>> VFD-25.0204 SIGNAL
>> VFD-25.0204 CONTROL
>> VFD-25.0304 SIGNAL
>> VFD-25.0304 CONTROL
>> VFD-25.0404 SIGNAL
>> VFD-25.0404 CONTROL

S-25-636B
S-25-636B
S-25-636B
S-25-636B
S-25-636B
S-25-636B
S-25-646A
S-25-646A

S-25-661A

25E10-02

0.75"

1

2/CS-#16

1

#14

XHHW-2

FR: AIT-25.0005A
TO: CONDUIT TEE
1 2/CS-#16
>> AIT-25.0005A SIGNAL

S-25-661B

S-25-661B

25E10-02
25E15-01

1.5"

5

2/CS-#16

1

#14

XHHW-2

FR: CONDUIT TEE
TO: PCM-25.0000
1 2/CS-#16
1 2/CS-#16
1 2/CS-#16
1 2/CS-#16
1 2/CS-#16
>> AIT-25.0005E SIGNAL
>> AIT-25.0005D SIGNAL
>> AIT-25.0005C SIGNAL
>> AIT-25.0005B SIGNAL
>> AIT-25.0005A SIGNAL

S-25-662B
S-25-662B
S-25-662B
S-25-662B
S-25-661A

S-25-662A

25E10-02

0.75"

1

2/CS-#16

1

#14

XHHW-2

FR: AIT-25.0005B
TO: CONDUIT TEE
1 2/CS-#16
>> AIT-25.0005B SIGNAL

S-25-662B

S-25-662B

25E10-02

1"

4

2/CS-#16

1

#14

XHHW-2

FR: CONDUIT TEE
TO: CONDUIT TEE
1 2/CS-#16
1 2/CS-#16
1 2/CS-#16
1 2/CS-#16
>> AIT-25.0005E SIGNAL
>> AIT-25.0005D SIGNAL
>> AIT-25.0005C SIGNAL
>> AIT-25.0005B SIGNAL

S-25-661B
S-25-663B
S-25-663B
S-25-663B
S-25-662A

S-25-663A

25E10-02

0.75"

1

2/CS-#16

1

#14

XHHW-2

FR: AIT-25.0005C
TO: CONDUIT TEE
1 2/CS-#16
>> AIT-25.0005C SIGNAL

S-25-663B

S-25-663B

25E10-02

1"

3

2/CS-#16

1

#14

XHHW-2

FR: CONDUIT TEE
TO: CONDUIT TEE
1 2/CS-#16
1 2/CS-#16
1 2/CS-#16
>> AIT-25.0005E SIGNAL
>> AIT-25.0005D SIGNAL
>> AIT-25.0005C SIGNAL

S-25-662B
S-25-664B
S-25-664B
S-25-663A

S-25-664A

25E10-02

0.75"

1

2/CS-#16

1

#14

XHHW-2

FR: AIT-25.0005D
TO: CONDUIT TEE
1 2/CS-#16
>> AIT-25.0005D SIGNAL

S-25-664B

CONDUIT SCHEDULE AREA 25

BRACKISH WATER DESALINATION PROJECT

WATER TREATMENT PLANT

CONDUIT

NUMBER

DWG

SIZE

#

SIZE

TYPE

#

SIZE

TYPE

DESCRIPTION

CONNECTING SEGMENTS

S-25-664B

25E10-02

0.75"

2

2/CS-#16

1

#14

XHHW-2

FR: CONDUIT TEE
TO: CONDUIT TEE
1 2/CS-#16
>> AIT-25.0005E SIGNAL
>> AIT-25.0005D SIGNAL

S-25-663B
S-25-665A
S-25-664A

S-25-665A

25E10-02

0.75"

1

2/CS-#16

1

#14

XHHW-2

FR: AIT-25.0005E
TO: CONDUIT TEE
1 2/CS-#16
>> AIT-25.0005E SIGNAL

S-25-664B

S-25-666A

25E10-04
25E15-01

2"

2
2

#14
2/CS-#16

XHHW-2

1

#14

XHHW-2

FR: CONDUIT TEE
TO: PCM-25.0000
1 2/CS-#16
1 2/CS-#16
2 #14
>> PIT-25.0006A SIGNAL
>> PIT-25.0007A SIGNAL
>> LSH-25.0909 SIGNAL

S-25-666B
S-25-666B
S-25-667A

S-25-666B

25E10-04

0.75"

2

2/CS-#16

1

#14

XHHW-2

FR: INSTRUMENT ENCLOSRE
TO: CONDUIT TEE
1 2/CS-#16
1 2/CS-#16
>> PIT-25.0006A SIGNAL
>> PIT-25.0007A SIGNAL

S-25-666A

S-25-667A

25E10-04

0.75"

2

#14

XHHW-2

1

#14

XHHW-2

FR: LSH-25.0909
TO: CONDUIT TEE
2 #14
>> LSH-25.0909 SIGNAL

S-25-666A

S-25-706A

25E10-01

1"

10
2

#14
2/CS-#16

XHHW-2

1

#14

XHHW-2

FR: VAL-26.0301A
TO: JUNCTION BOX
2 2/CS-#16
10 #14
>> VAL-26.0301A SIGNAL
>> VAL-26.0301A CONTROL

S-25-713C

S-25-707A

25E10-01

1"

10
2

#14
2/CS-#16

XHHW-2

1

#14

XHHW-2

FR: VAL-26.0301B
TO: JUNCTION BOX
2 2/CS-#16
10 #14
>> VAL-26.0301B SIGNAL
>> VAL-26.0301B CONTROL

S-25-713C

S-25-711A

25E10-01

1"

1
2

MFR
2/CS-#16

CABLE

1

#14

XHHW-2

FR: FIT-26.0301A
TO: JUNCTION BOX
1 2/CS-#16
1 MFR
1 2/CS-#16
>> FIT-26.0301A SIGNAL
>> FE-26.0301A SIGNAL
>> FI-26.0301A SIGNAL

S-25-718B
S-25-711B
S-25-711C

S-25-711B

25E10-01

0.75"

1

MFR

CABLE

1

#14

XHHW-2

FR: FE-26.0301A
TO: JUNCTION BOX
1 MFR
>> FE-26.0301A SIGNAL

S-25-711A

S-25-711C

25E10-01

0.75"

1

2/CS-#16

1

#14

XHHW-2

FR: FI-26.0301A
TO: JUNCTION BOX
1 2/CS-#16
>> FI-26.0301A SIGNAL

S-25-711A

S-25-712A

25E10-01

0.75"

2

2/CS-#16

1

#14

XHHW-2

FR: FIT-26.0301B
TO: JUNCTION BOX
1 2/CS-#16
1 2/CS-#16
>> FIT-26.0301B SIGNAL
>> FI-26.0301A SIGNAL

S-25-718B
S-25-712C

S-25-712B

25E10-01

0.75"

1

MFR

CABLE

1

#14

XHHW-2

FR: FE-26.0301B
TO: FIT-26.0301B
1 MFR
>> FE-26.0301A SIGNAL

S-25-712C

25E10-01

0.75"

1

2/CS-#16

1

#14

XHHW-2

FR: FI-26.0301A
TO: JUNCTION BOX
1 2/CS-#16
>> FI-26.0301A SIGNAL

S-25-712A

S-25-713A

25E10-01

0.75"

2

2/CS-#16

1

#14

XHHW-2

FR: AIT-26.0301A
TO: JUNCTION BOX
1 2/CS-#16
1 2/CS-#16
>> AIT-26.0301A SIGNAL
>> AI-26.0301A SIGNAL

S-25-718B
S-25-713B

S-25-713B

25E10-01

0.75"

1

2/CS-#16

1

#14

XHHW-2

FR: AI-26.0301A
TO: JUNCTION BOX
1 2/CS-#16
>> AI-26.0301A SIGNAL

S-25-713A

S-25-713C

25E10-01

2"

20
1
7

#14
MFR
2/CS-#16

XHHW-2
CABLE

1

#14

XHHW-2

FR: JUNCTION BOX
TO: JUNCTION BOX
1 MFR
1 2/CS-#16
1 2/CS-#16
1 2/CS-#16
1 2/CS-#16
2 2/CS-#16
10 #14
>> FE-26.0301A SIGNAL
>> FI-26.0301A SIGNAL
>> FI-26.0301A SIGNAL
>> AI-26.0301A SIGNAL
>> VAL-26.0301A SIGNAL
>> VAL-26.0301A CONTROL
>> VAL-26.0301B SIGNAL
>> VAL-26.0301B CONTROL

S-25-711B
S-25-711C
S-25-712C
S-25-713B
S-25-706A
S-25-706A
S-25-707A
S-25-707A

1

Plot Date: 10-NOV-2020 4:42:13 PM

User: svcPW

Model: Layout1

ColorTable: gshade.ctb

DesignScript: Carollo Std Pen_v0905.pen

PlotScale: 1:1

LAST SAVED BY: mpacheco

11/10/20

CONDUIT SCHEDULE AREA 25

BRACKISH WATER DESALINATION PROJECT

WATER TREATMENT PLANT

CONDUIT			CONDUCTORS			GROUND						
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION	CONNECTING SEGMENTS		
S-25-714A	25E10-01	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: AIT-25.0904B TO: JUNCTION BOX 1 2/CS-#16 >> AIT-25.0904B SIGNAL	S-25-718B		
S-25-715A	25E10-01	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: PIT-25.0904 TO: JUNCTION BOX 1 2/CS-#16 >> PIT-25.0904 SIGNAL	S-25-718B		
S-25-716A	25E10-01	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: AIT-25.0904D TO: JUNCTION BOX 1 2/CS-#16 >> AIT-25.0904D SIGNAL	S-25-718B		
S-25-716B	25E10-01	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: TIT-25.0904D TO: JUNCTION BOX 1 2/CS-#16 >> TIT-25.0904D SIGNAL	S-25-718B		
S-25-717A	25E10-01	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: AIT-25.0904A TO: JUNCTION BOX 1 2/CS-#16 >> AIT-25.0904A SIGNAL	S-25-718B		
S-25-718A	25E10-01	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: AIT-25.0904C TO: JUNCTION BOX 1 2/CS-#16 >> AIT-25.0904C SIGNAL	S-25-718B		
S-25-718B	25E10-01 25E10-02 25E15-01	1.5"	9	2/CS-#16		1	#14	XHHW-2	FR: JUNCTION BOX TO: PCM-25.0000 1 2/CS-#16 >> FIT-26.0301A SIGNAL 1 2/CS-#16 >> FIT-26.0301B SIGNAL 1 2/CS-#16 >> AIT-26.0301A SIGNAL 1 2/CS-#16 >> AIT-25.0904B SIGNAL 1 2/CS-#16 >> PIT-25.0904 SIGNAL 1 2/CS-#16 >> AIT-25.0904D SIGNAL 1 2/CS-#16 >> TIT-25.0904D SIGNAL 1 2/CS-#16 >> AIT-25.0904A SIGNAL 1 2/CS-#16 >> AIT-25.0904C SIGNAL	S-25-711A S-25-712A S-25-713A S-25-714A S-25-715A S-25-716A S-25-716B S-25-717A S-25-718A		
S-25-756A	25E10-02	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: TIT-25.0009 TO: CONDUIT TEE 1 2/CS-#16 >> TIT-25.0009 SIGNAL	S-25-756B		
S-25-756B	25E10-02	1.5"	2 7	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 1 2/CS-#16 >> FIT-25.0903 SIGNAL 1 2/CS-#16 >> LIT-25.0903 SIGNAL 2 #14 >> FSH-25.0017 SIGNAL 1 2/CS-#16 >> TIT-25.0010 SIGNAL 1 2/CS-#16 >> LIT-25.0010 SIGNAL 1 2/CS-#16 >> FIT-25.0018 SIGNAL 1 2/CS-#16 >> PIT-25.0017 SIGNAL 1 2/CS-#16 >> TIT-25.0009 SIGNAL	S-25-756D S-25-768D S-25-768D S-25-768D S-25-768D S-25-768D S-25-768D S-25-768D S-25-756A		
S-25-756C	25E10-02	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: LIT-25.0009 TO: CONDUIT TEE 1 2/CS-#16 >> LIT-25.0009 SIGNAL	S-25-756D		
S-25-756D	25E10-03 25E10-04 25E15-01	1.5"	2 8	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: PCM-25.0000 1 2/CS-#16 >> FIT-25.0903 SIGNAL 1 2/CS-#16 >> LIT-25.0903 SIGNAL 2 #14 >> FSH-25.0017 SIGNAL 1 2/CS-#16 >> TIT-25.0010 SIGNAL 1 2/CS-#16 >> LIT-25.0010 SIGNAL 1 2/CS-#16 >> FIT-25.0018 SIGNAL 1 2/CS-#16 >> PIT-25.0017 SIGNAL 1 2/CS-#16 >> TIT-25.0009 SIGNAL 1 2/CS-#16 >> LIT-25.0009 SIGNAL	S-25-756B S-25-756B S-25-756B S-25-756B S-25-756B S-25-756B S-25-756B S-25-756B S-25-756C		
S-25-757A	25E10-02	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: TIT-25.0010 TO: CONDUIT TEE 1 2/CS-#16 >> TIT-25.0010 SIGNAL	S-25-757B		
S-25-757B	25E10-02	1"	2 3	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 1 2/CS-#16 >> FIT-25.0903 SIGNAL 1 2/CS-#16 >> LIT-25.0903 SIGNAL 2 #14 >> FSH-25.0017 SIGNAL 1 2/CS-#16 >> TIT-25.0010 SIGNAL	S-25-757D S-25-761E S-25-761E S-25-761E S-25-757A		
S-25-757C	25E10-02	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: LIT-25.0010 TO: CONDUIT TEE 1 2/CS-#16 >> LIT-25.0010 SIGNAL	S-25-757D		

11/10/20

CONDUIT SCHEDULE AREA 25

BRACKISH WATER DESALINATION PROJECT

WATER TREATMENT PLANT

CONDUIT			CONDUCTORS			GROUND						
NUMBER	DWG	SIZE	#	SIZE	TYPE	#	SIZE	TYPE	DESCRIPTION	CONNECTING SEGMENTS		
S-25-757D	25E10-02	1.5"	2 4	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 1 2/CS-#16 >> FIT-25.0903 SIGNAL 1 2/CS-#16 >> LIT-25.0903 SIGNAL 2 #14 >> FSH-25.0017 SIGNAL 1 2/CS-#16 >> TIT-25.0010 SIGNAL 1 2/CS-#16 >> LIT-25.0010 SIGNAL	S-25-768D S-25-757B S-25-757B S-25-757B S-25-757B S-25-757C		
S-25-761A	25E10-02	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: FIT-25.0903 TO: CONDUIT TEE 1 2/CS-#16 >> FIT-25.0903 SIGNAL	S-25-761C		
S-25-761B	25E10-02	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: LIT-25.0903 TO: CONDUIT TEE 1 2/CS-#16 >> LIT-25.0903 SIGNAL	S-25-761C		
S-25-761C	25E10-02	0.75"	2	2/CS-#16		1	#14	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 1 2/CS-#16 >> FIT-25.0903 SIGNAL 1 2/CS-#16 >> LIT-25.0903 SIGNAL	S-25-761E S-25-761A S-25-761B		
S-25-761E	25E10-02	1"	2 2	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 1 2/CS-#16 >> FIT-25.0903 SIGNAL 1 2/CS-#16 >> LIT-25.0903 SIGNAL 2 #14 >> FSH-25.0017 SIGNAL	S-25-757B S-25-761C S-25-761C C-25-761D		
S-25-768A	25E10-02	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: FIT-25.0018 TO: CONDUIT TEE 1 2/CS-#16 >> FIT-25.0018 SIGNAL	S-25-768C		
S-25-768B	25E10-02	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: PIT-25.0017 TO: CONDUIT TEE 1 2/CS-#16 >> PIT-25.0017 SIGNAL	S-25-768C		
S-25-768C	25E10-02	0.75"	2	2/CS-#16		1	#14	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 1 2/CS-#16 >> FIT-25.0018 SIGNAL 1 2/CS-#16 >> PIT-25.0017 SIGNAL	S-25-768D S-25-768A S-25-768B		
S-25-768D	25E10-02	1.5"	2 6	#14 2/CS-#16	XHHW-2	1	#14	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 1 2/CS-#16 >> FIT-25.0903 SIGNAL 1 2/CS-#16 >> LIT-25.0903 SIGNAL 2 #14 >> FSH-25.0017 SIGNAL 1 2/CS-#16 >> TIT-25.0010 SIGNAL 1 2/CS-#16 >> LIT-25.0010 SIGNAL 1 2/CS-#16 >> FIT-25.0018 SIGNAL 1 2/CS-#16 >> PIT-25.0017 SIGNAL	S-25-756B S-25-757D S-25-757D S-25-757D S-25-757D S-25-757D S-25-768C S-25-768C		
S-25-771A	25E10-02	0.75"	2 1	#12 2/CS-#16	XHHW-2	1	#12	XHHW-2	FR: FIT-71.5001 TO: CONDUIT TEE 2 #12 >> FIT-71.5001 POWER 1 2/CS-#16 >> FIT-71.5001 SIGNAL	S-25-771C		
S-25-771B	25E10-02	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: PIT-71.5001 TO: CONDUIT TEE 1 2/CS-#16 >> PIT-71.5001 SIGNAL	S-25-771C		
S-25-771C	25E10-02	1"	2 2	#12 2/CS-#16	XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 2 #12 >> FIT-71.5001 POWER 1 2/CS-#16 >> FIT-71.5001 SIGNAL 1 2/CS-#16 >> PIT-71.5001 SIGNAL	S-25-771E S-25-771A S-25-771A S-25-771B		
S-25-771D	25E10-02	0.75"	1	2/CS-#16		1	#2.5KV	XHHW-2	FR: PIT-71.5005 TO: CONDUIT TEE 1 2/CS-#16 >> PIT-71.5005 SIGNAL	S-25-771E		
S-25-771E	25E10-02	1"	2 3	#12 2/CS-#16	XHHW-2	1	#12	XHHW-2	FR: CONDUIT TEE TO: CONDUIT TEE 2 #12 >> FIT-71.5001 POWER 1 2/CS-#16 >> FIT-71.5001 SIGNAL 1 2/CS-#16 >> PIT-71.5001 SIGNAL 1 2/CS-#16 >> PIT-71.5005 SIGNAL	S-25-771G S-25-771C S-25-771C S-25-771C S-25-771D		
S-25-771F	25E10-02	0.75"	1	2/CS-#16		1	#14	XHHW-2	FR: PIT-71.5006 TO: CONDUIT TEE 1 2/CS-#16 >> PIT-71.5006 SIGNAL	S-25-771G		

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Plot Date: 10-NOV-2020 4:42:10 PM

User: svcPW

Model: Layout1

ColorTable: gshade.ctb DesignScript: Carollo Std Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: mpacheco

A

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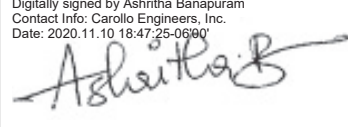
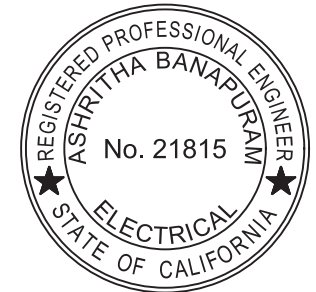


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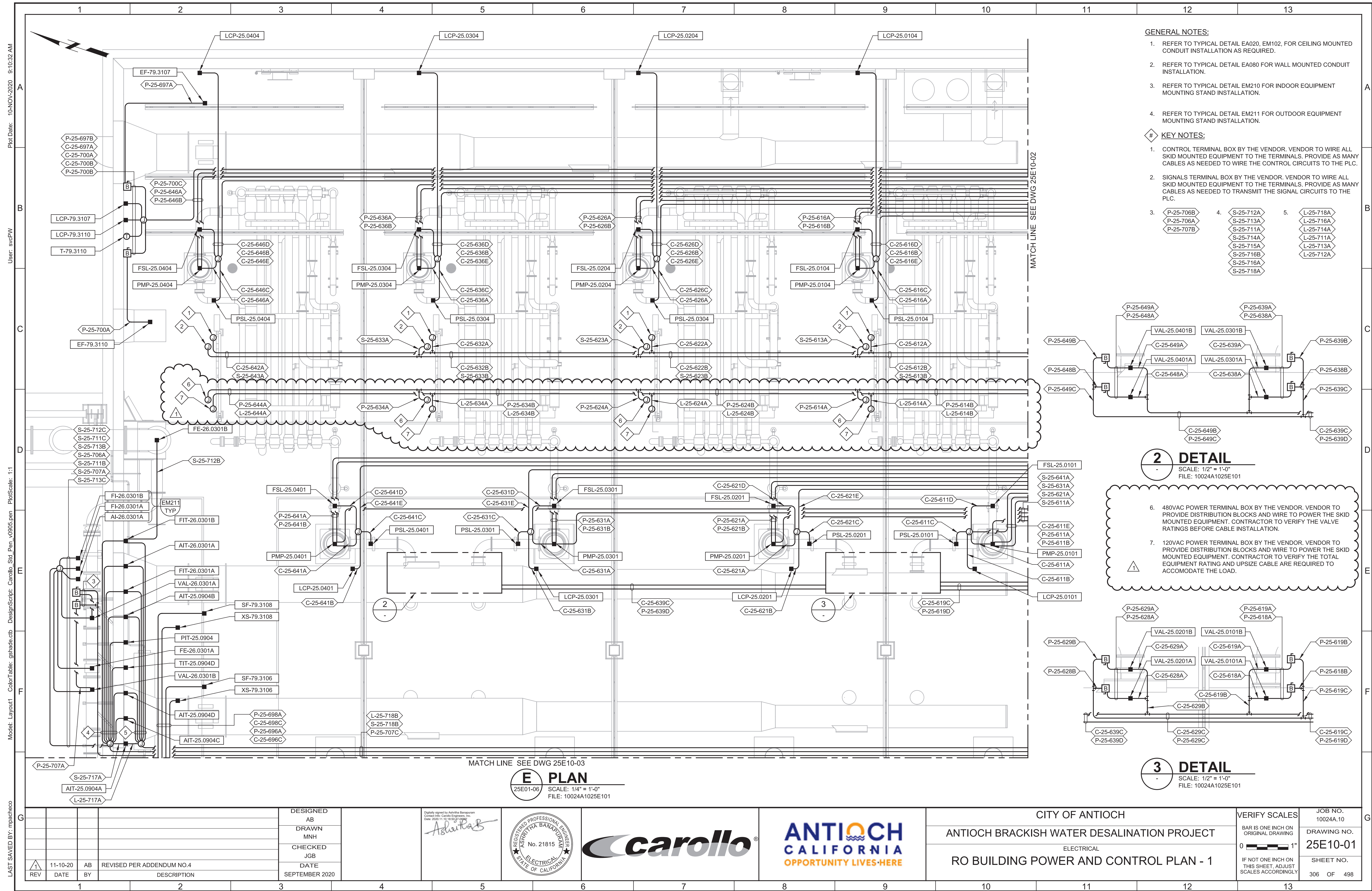
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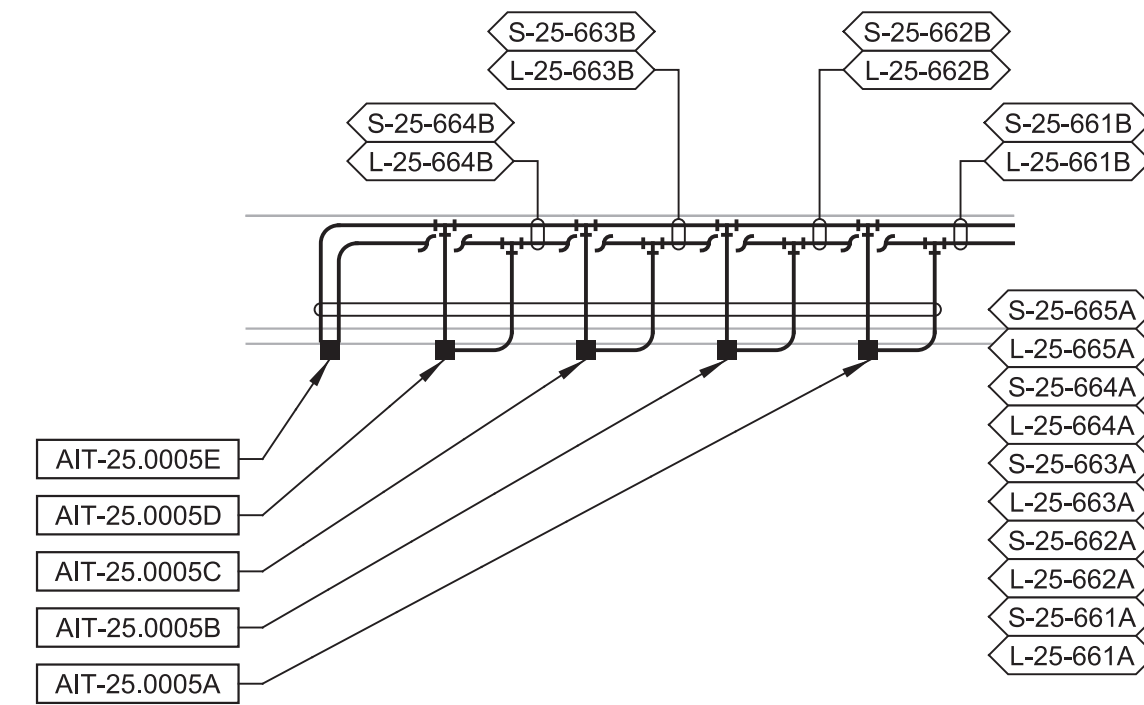
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PROJECT NO. 10024A10

FILE NAME: 10024A1025E0528.dgn





1. FULL CONDUIT ROUTING NOT SHOWN FOR DRAWING CLARITY. CONDUITS CONTINUE INTO ELECTRICAL ROOM. REFER DRAWING 25E15-01 FOR CONTINUATION.
2. CONDUITS CONTINUE ON DRAWING 25E15-03.

4 **DETAIL**
SCALE: 1/2" = 1'-0"
FILE: 10024A1025E101

F PLAN
25E01-06 SCALE: 1/4" = 1'-0"
FILE: 10024A1025E101

				DESIGNED AB
				DRAWN MNH
				CHECKED JGB
1 REV	11-10-20	AB	REVISED PER ADDENDUM NO.4	DATE SEPTEMBER 2020
	DATE	BY	DESCRIPTION	

DESIGNED
AB
DRAWN
MNH
CHECKED
JGB
DATE
SEPTEMBER 20

Digitally signed by Ashritha Banapuram
Contact Info: Carollo Engineers, Inc.
Date: 2020.11.10 18:50:23-0600



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OPPORTUNITY LIVES HERE

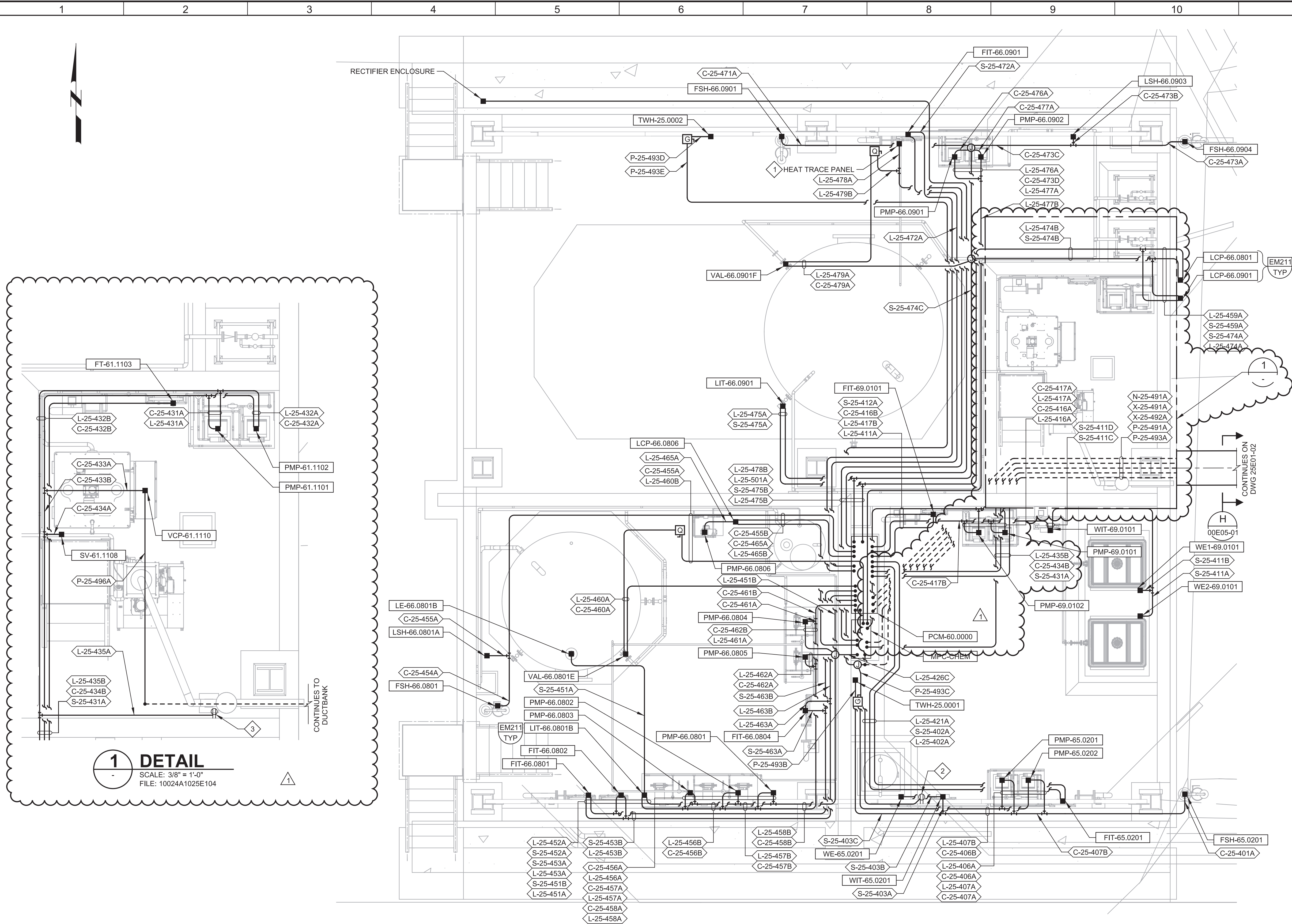
CITY OF ANTIOCH

ANTIOCH BRACKISH WATER DESALINATION PROJECT

ELECTRICAL

RO BUILDING POWER AND CONTROL PLAN - 2

JOB NO. 10024A.10
DRAWING NO. 25E10-02
SHEET NO. 307 OF 498



GENERAL NOTES:

1. REFER TO TYPICAL DETAIL EA030 FOR CEILING MOUNTED CONDUIT INSTALLATION AS REQUIRED.
2. REFER TO TYPICAL DETAIL EM163 FOR CONDUIT PENETRATIONS AS REQUIRED.
3. REFER TO TYPICAL DETAIL EM210 & EM211 FOR EQUIPMENT MOUNTING STAND INSTALLATION AS REQUIRED.

KEY NOTES:

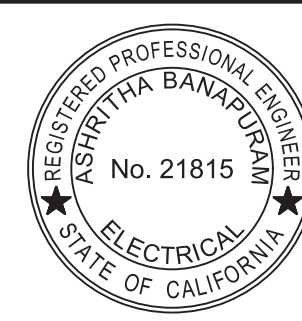
1. COORDINATE THE EXACT LOCATION OF THE HEAT TRACING CONTROL PANEL WITH THE MANUFACTURER. EXTEND CONDUITS AND CABLES AS NECESSARY, AS INDICATED BY HEAT TRACING MANUFACTURER.
2. PROVIDE A 30 AMPERE, 5-20R RECEPTACLE FOR THE SODIUM BISULFATE BLANKET HEATERS.
3. PROVIDE A 5-20R RECEPTACLE FOR THE VACUUM SYSTEM.

J PLAN
25E01-02 SCALE: 1/4" = 1'-0"
FILE: 10024A1025E104

				DESIGNED AB
				DRAWN SGS
				CHECKED JGB
1	11-10-20	AB	REVISED PER ADDENDUM NO.4	DATE SEPTEMBER 2020
REV	DATE	BY	DESCRIPTION	

DESIGNED
AB
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SGS
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DATE
SEPTEMBER 2020

Digitally signed by Ashritha Banapuram
Contact Info: Carollo Engineers, Inc.
Date: 2020.11.10 18:51:00-0600



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CALIFORNIA
OPPORTUNITY LIVES HERE

CITY OF ANTIOCH


ANTIOCH BRACKISH WATER DESALINATION PROJECT

ELECTRICAL

RO CHEMICAL FACILITY
POWER AND CONTROL PLAN

VERIFY SCALES

BAR IS ONE INCH ON ORIGINAL DRAWING

0  1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
10024A.10

DRAWING NO.
25E10-05

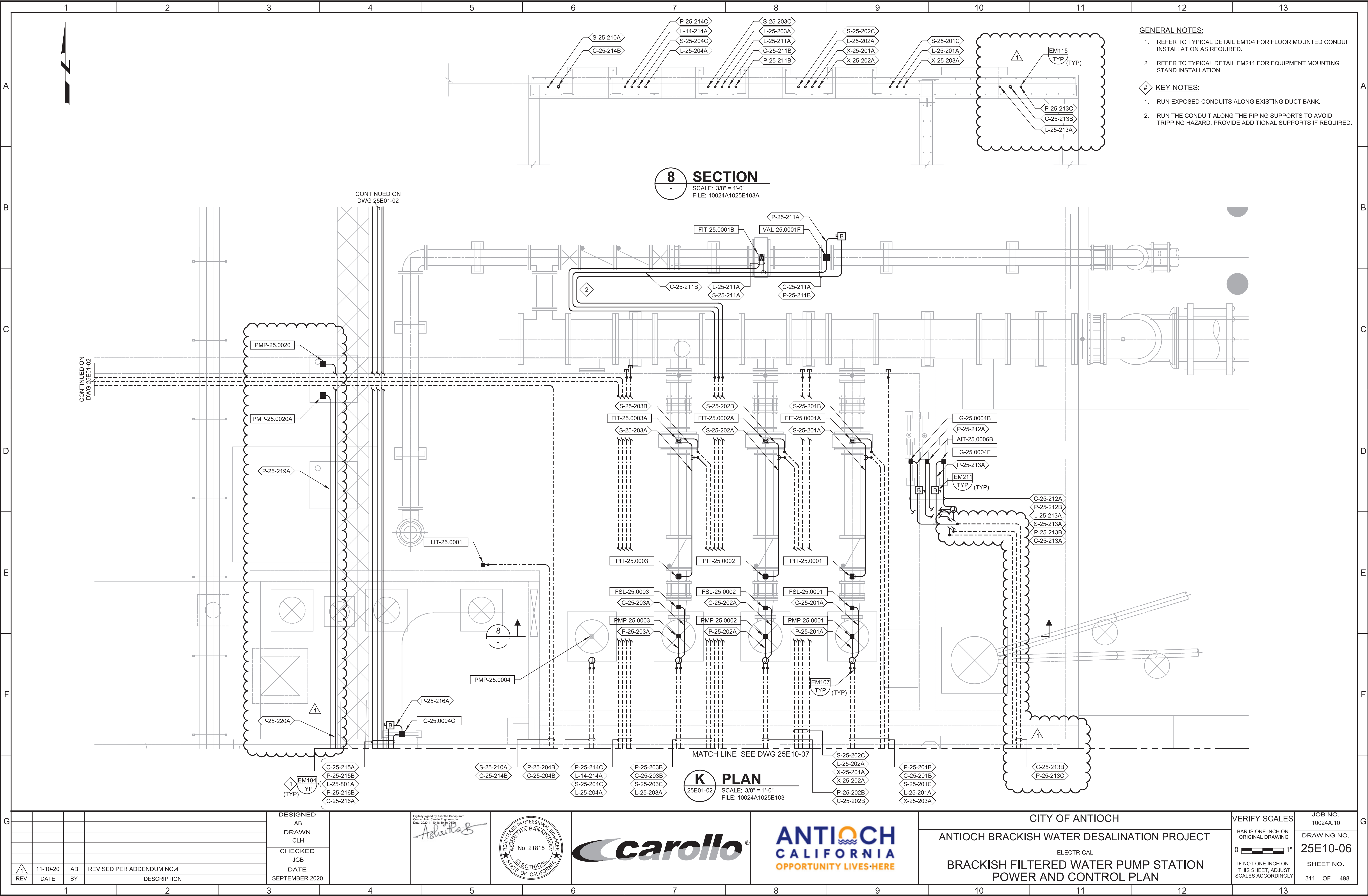
SHEET NO.
310 OF 498

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LAST SAVED BY: mpacheco

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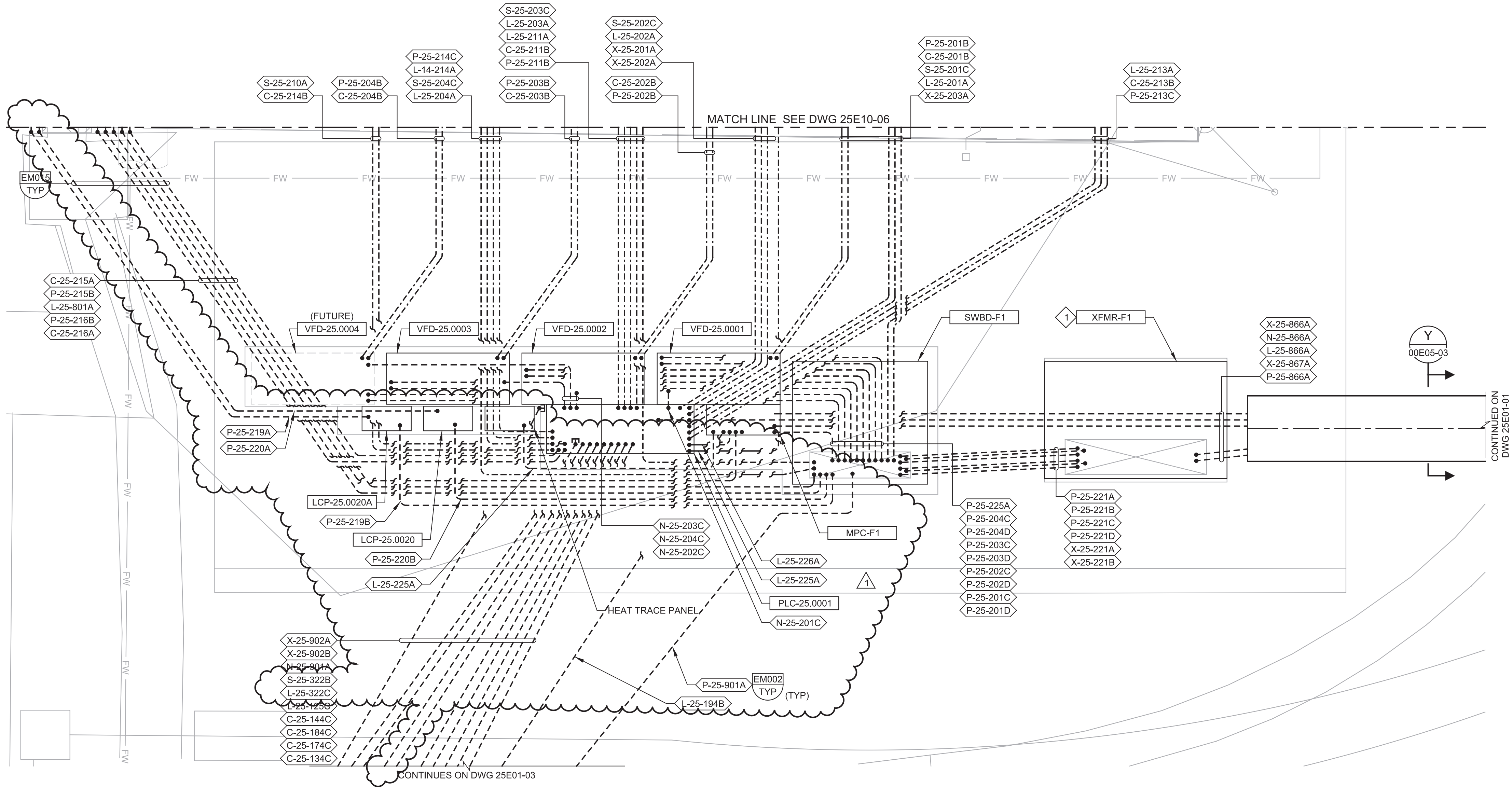
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GENERAL NOTES:

1. REFER TO TYPICAL DETAIL EM115, EM116, AND EM117 FOR EMBEDDED CONDUIT IN SLAB.
2. REFER TO TYPICAL DETAIL EM211 FOR EQUIPMENT MOUNTING STAND INSTALLATION.

KEY NOTES:

1. PROVIDE SUPPORTS IN THE TRANSFORMER FOR THE CABLES. CLAMP THE CABLES TO THE SUPPORT.



L PLAN
25E01-02 SCALE: 3/8" = 1'-0"
FILE: 10024A1025E105

REV	DATE	BY	DESCRIPTION
1	11-10-20	AB	REVISED PER ADDENDUM NO.4

DESIGNED	AB
DRAWN	JRS
CHECKED	JGB
DATE	SEPTEMBER 2020

Digitally signed by Ashrita Banapuram
Contact info: Carollo Engineers, Inc.
Date: 2020.11.10 16:49:50-0800

Ashrita Banapuram



CITY OF ANTIOCH
ANTIOCH BRACKISH WATER DESALINATION PROJECT
ELECTRICAL
BRACKISH FILTERED WATER PUMP STATION
ELECTRICAL PAD POWER AND CONTROL PLAN

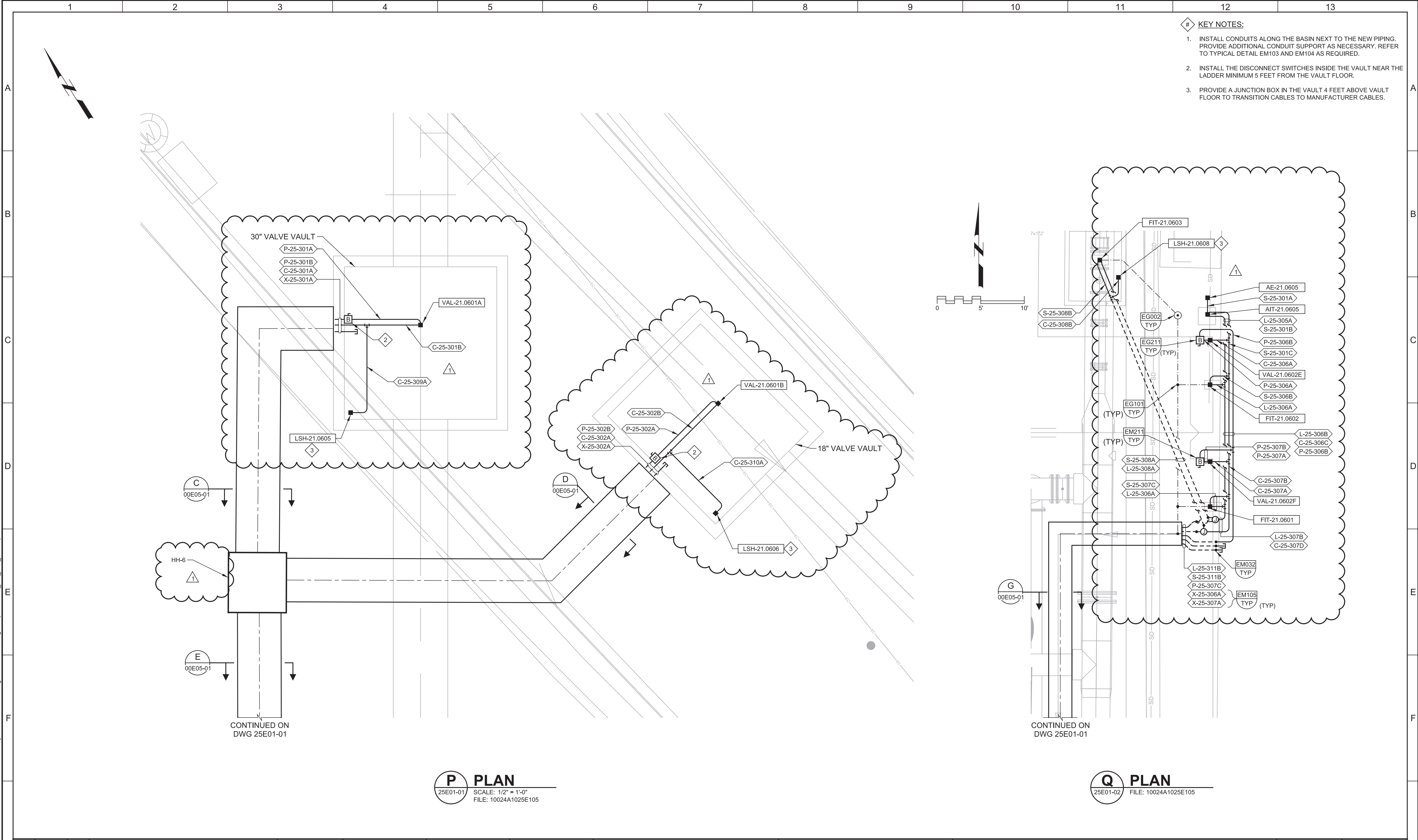
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	

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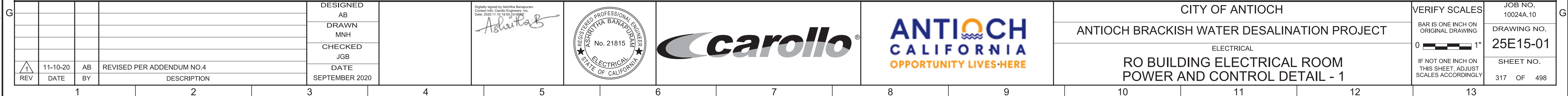
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LAST SAVED BY: mpacheco



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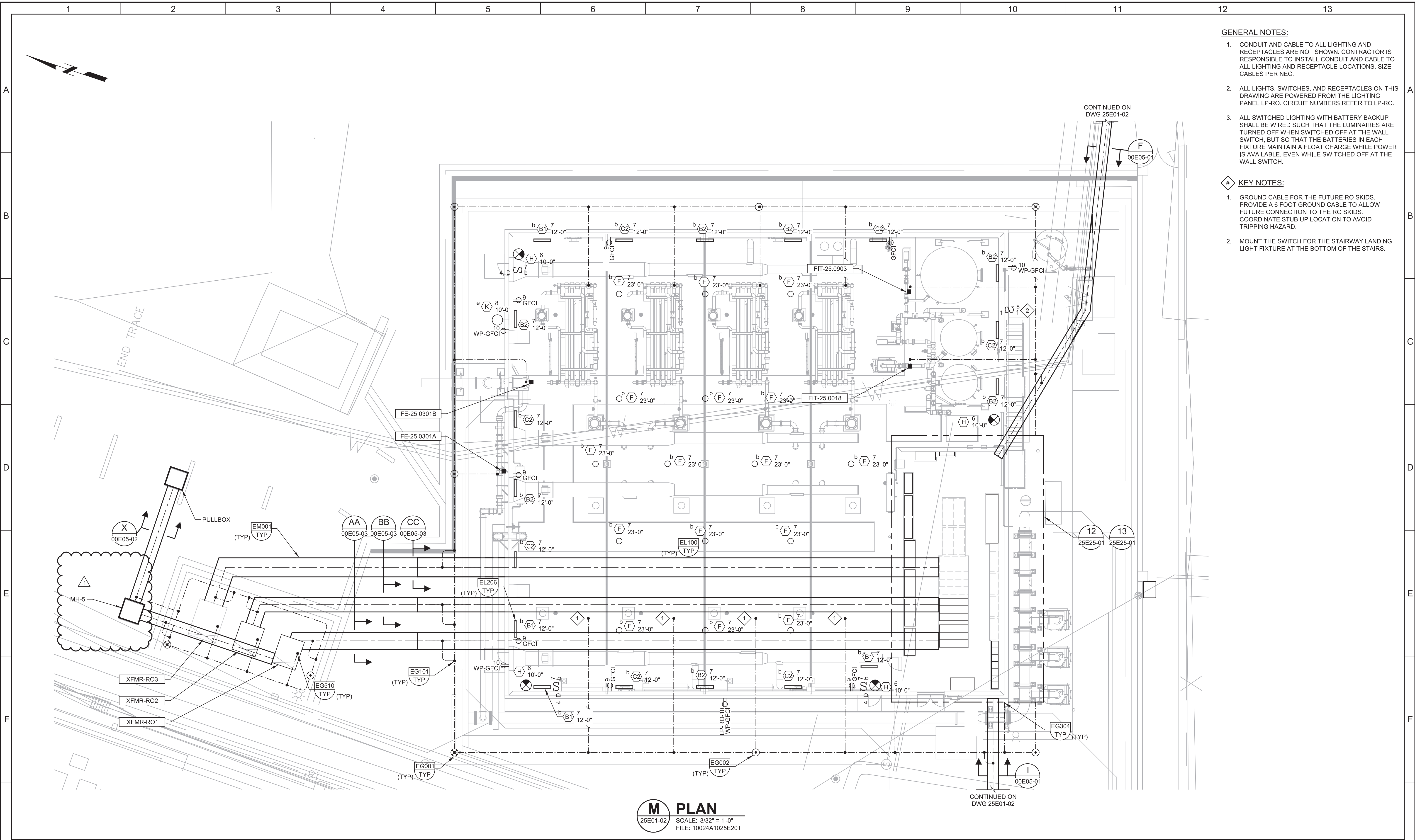


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User: svcPW

Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo Std Pen_v0905.pen PlotScale: 1:1

LAST SAVED BY: mpacheco



GENERAL NOTES:

1. CONDUIT AND CABLE TO ALL LIGHTING AND RECEPTACLES ARE NOT SHOWN. CONTRACTOR IS RESPONSIBLE TO INSTALL CONDUIT AND CABLE TO ALL LIGHTING AND RECEPTACLE LOCATIONS. SIZE CABLES PER NEC.
2. ALL LIGHTS, SWITCHES, AND RECEPTACLES ON THIS DRAWING ARE POWERED FROM THE LIGHTING PANEL LP-RO. CIRCUIT NUMBERS REFER TO LP-RO.
3. ALL SWITCHED LIGHTING WITH BATTERY BACKUP SHALL BE WIRED SUCH THAT THE LUMINAIRES ARE TURNED OFF WHEN SWITCHED OFF AT THE WALL SWITCH, BUT SO THAT THE BATTERIES IN EACH FIXTURE MAINTAIN A FLOAT CHARGE WHILE POWER IS AVAILABLE, EVEN WHILE SWITCHED OFF AT THE WALL SWITCH.

KEY NOTES:

1. GROUND CABLE FOR THE FUTURE RO SKIDS. PROVIDE A 6 FOOT GROUND CABLE TO ALLOW FUTURE CONNECTION TO THE RO SKIDS. COORDINATE STUB UP LOCATION TO AVOID TRIPPING HAZARD.
2. MOUNT THE SWITCH FOR THE STAIRWAY LANDING LIGHT FIXTURE AT THE BOTTOM OF THE STAIRS.

M PLAN
25E01-02
SCALE: 3/32" = 1'-0"
FILE: 10024A1025E201

Digitally signed by Ashwini Banapuram
Correct info: Carollo Engineers, Inc.
Date: 2020.11.19 16:45:23 -0800

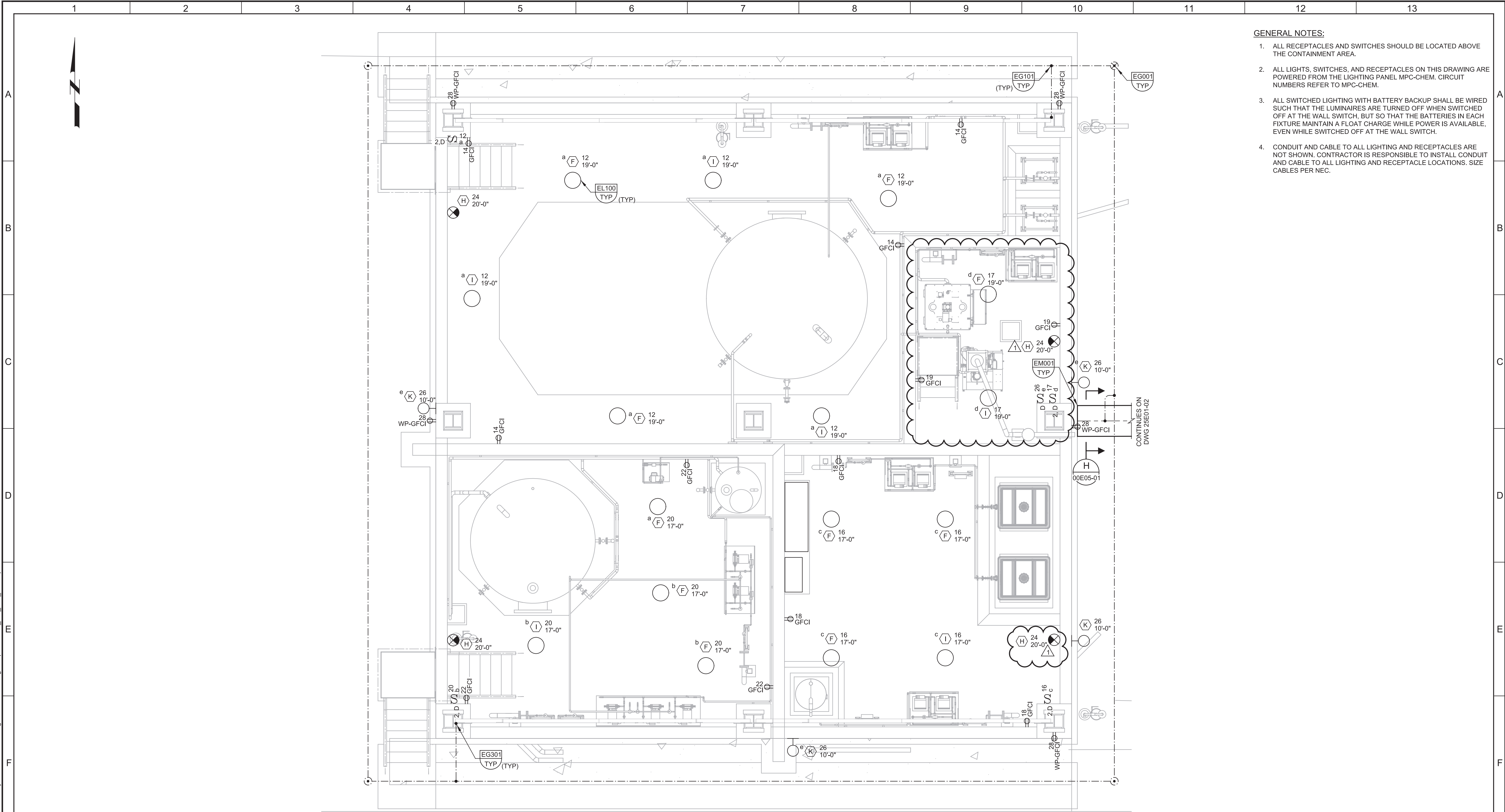
Ashwini



CITY OF ANTIOCH
ANTIOCH BRACKISH WATER DESALINATION PROJECT
ELECTRICAL
RO BUILDING OVERALL
LIGHTING AND GROUNDING PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO.
10024A.10
DRAWING NO.
25E20-01
SHEET NO.
321 OF 498



GENERAL NOTES:

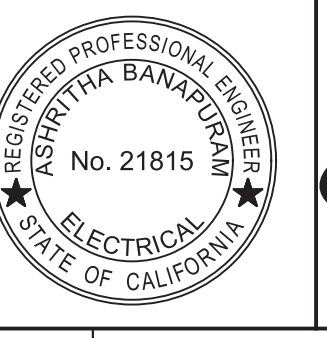
1. ALL RECEPTACLES AND SWITCHES SHOULD BE LOCATED ABOVE THE CONTAINMENT AREA.
2. ALL LIGHTS, SWITCHES, AND RECEPTACLES ON THIS DRAWING ARE POWERED FROM THE LIGHTING PANEL MPC-CHEM. CIRCUIT NUMBERS REFER TO MPC-CHEM.
3. ALL SWITCHED LIGHTING WITH BATTERY BACKUP SHALL BE WIRED SUCH THAT THE LUMINAIRES ARE TURNED OFF WHEN SWITCHED OFF AT THE WALL SWITCH, BUT SO THAT THE BATTERIES IN EACH FIXTURE MAINTAIN A FLOAT CHARGE WHILE POWER IS AVAILABLE, EVEN WHILE SWITCHED OFF AT THE WALL SWITCH.
4. CONDUIT AND CABLE TO ALL LIGHTING AND RECEPTACLES ARE NOT SHOWN. CONTRACTOR IS RESPONSIBLE TO INSTALL CONDUIT AND CABLE TO ALL LIGHTING AND RECEPTACLE LOCATIONS. SIZE CABLES PER NEC.

N PLAN
25E01-02 SCALE: 1/4" = 1'-0"
FILE: 10024A1025E104

1	11-10-20	AB	REVISED PER ADDENDUM NO. 4
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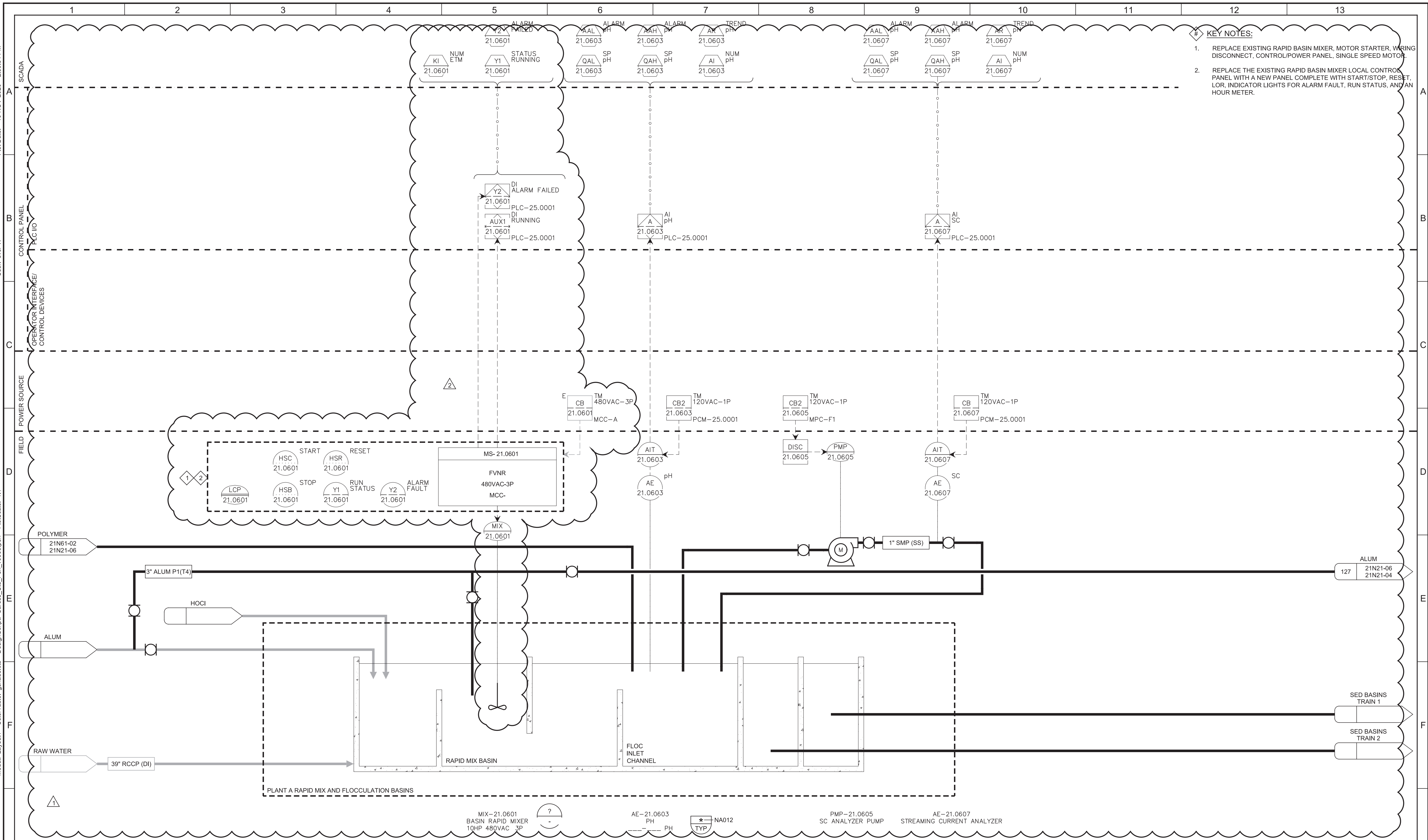
DESIGNED	AB
DRAWN	JRS
CHECKED	JGB
DATE	SEPTEMBER 2020

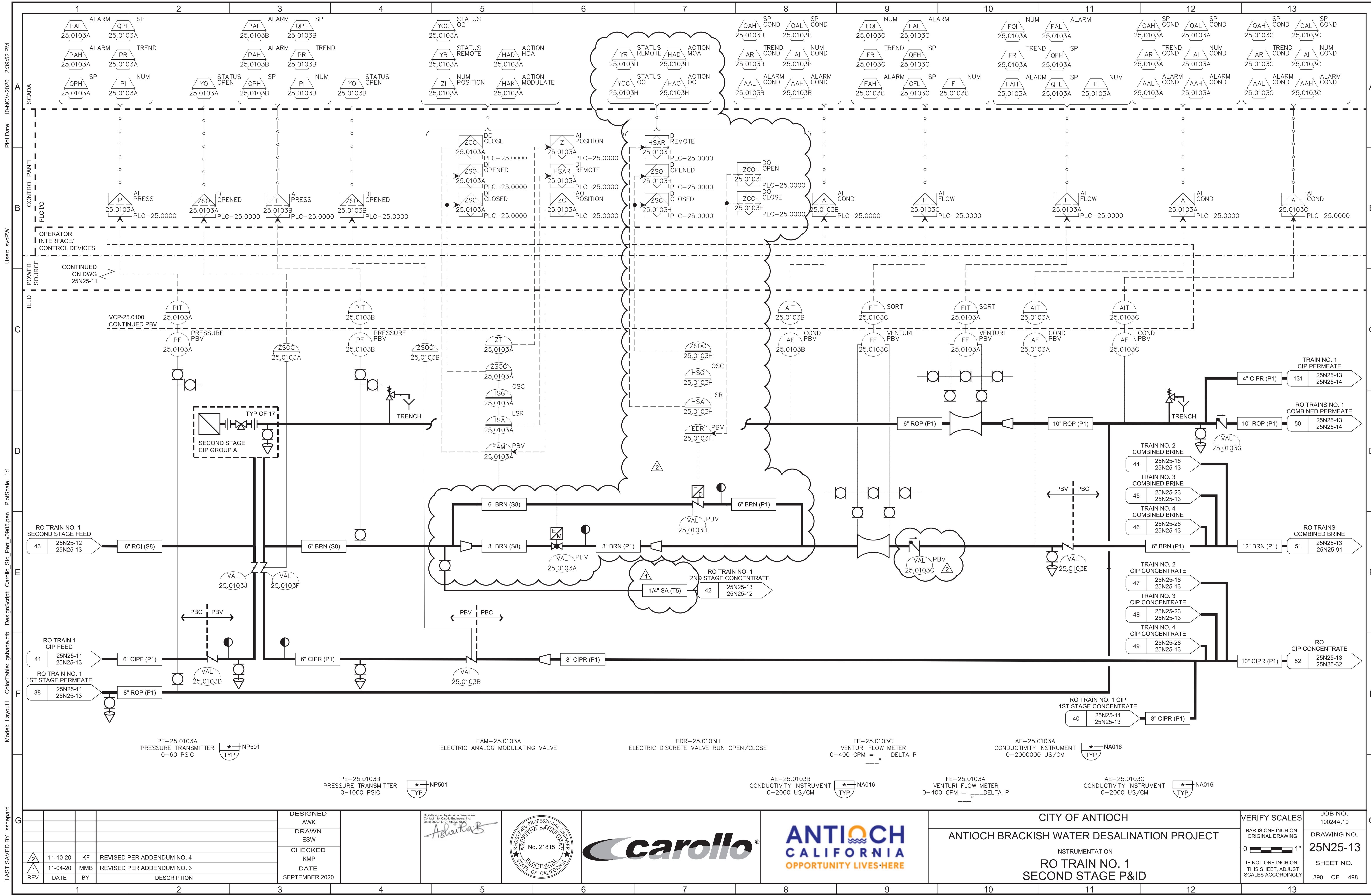
Digitally signed by Ashutosh Banerjee
Contact Info: Carollo Engineers, Inc.
Date: 2020.11.10 16:53:39 -0800
Ashutosh

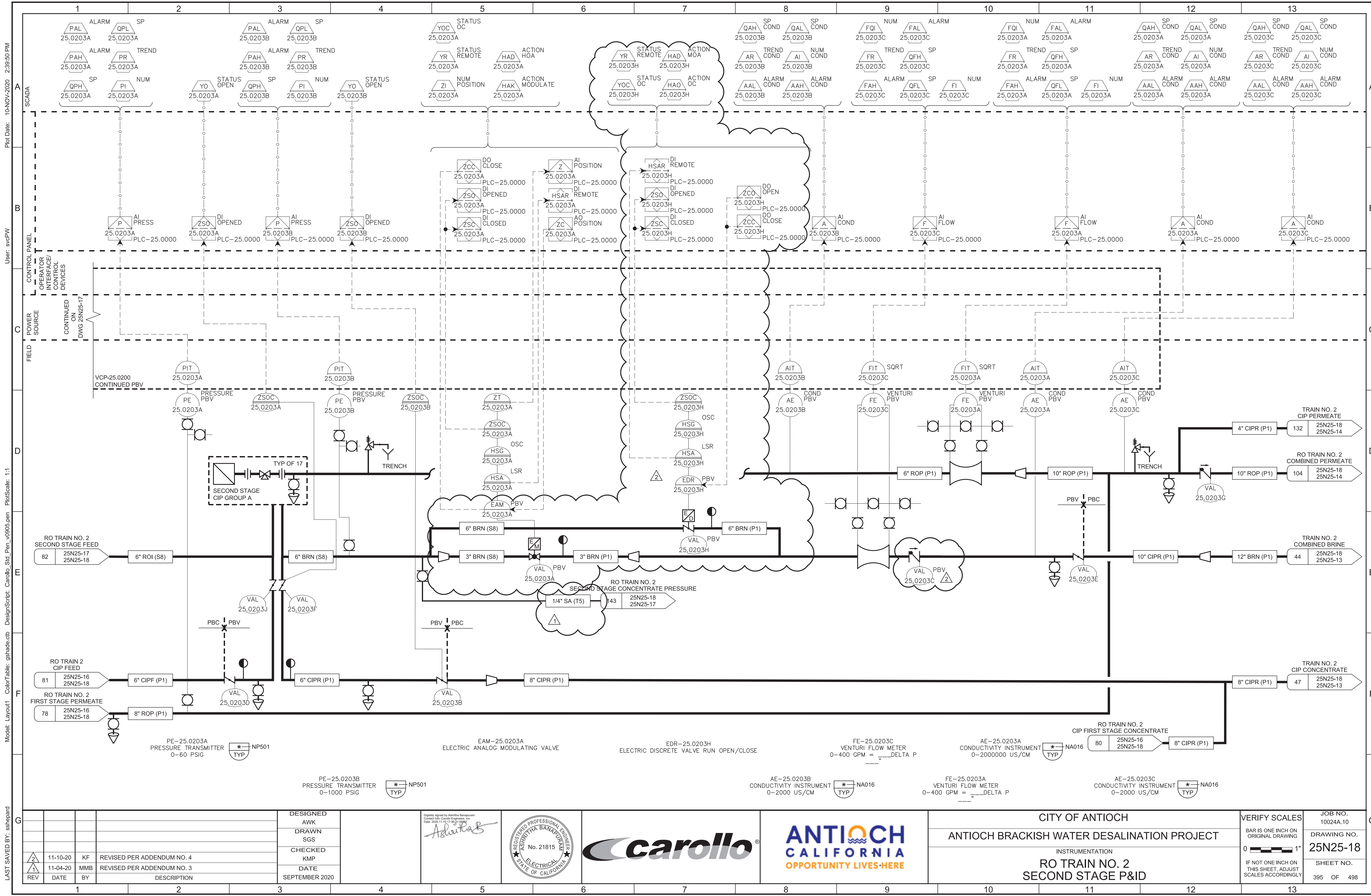


CITY OF ANTIOCH
ANTIOCH BRACKISH WATER DESALINATION PROJECT
ELECTRICAL
RO CHEMICAL FACILITY
LIGHTING & GROUNDING PLAN

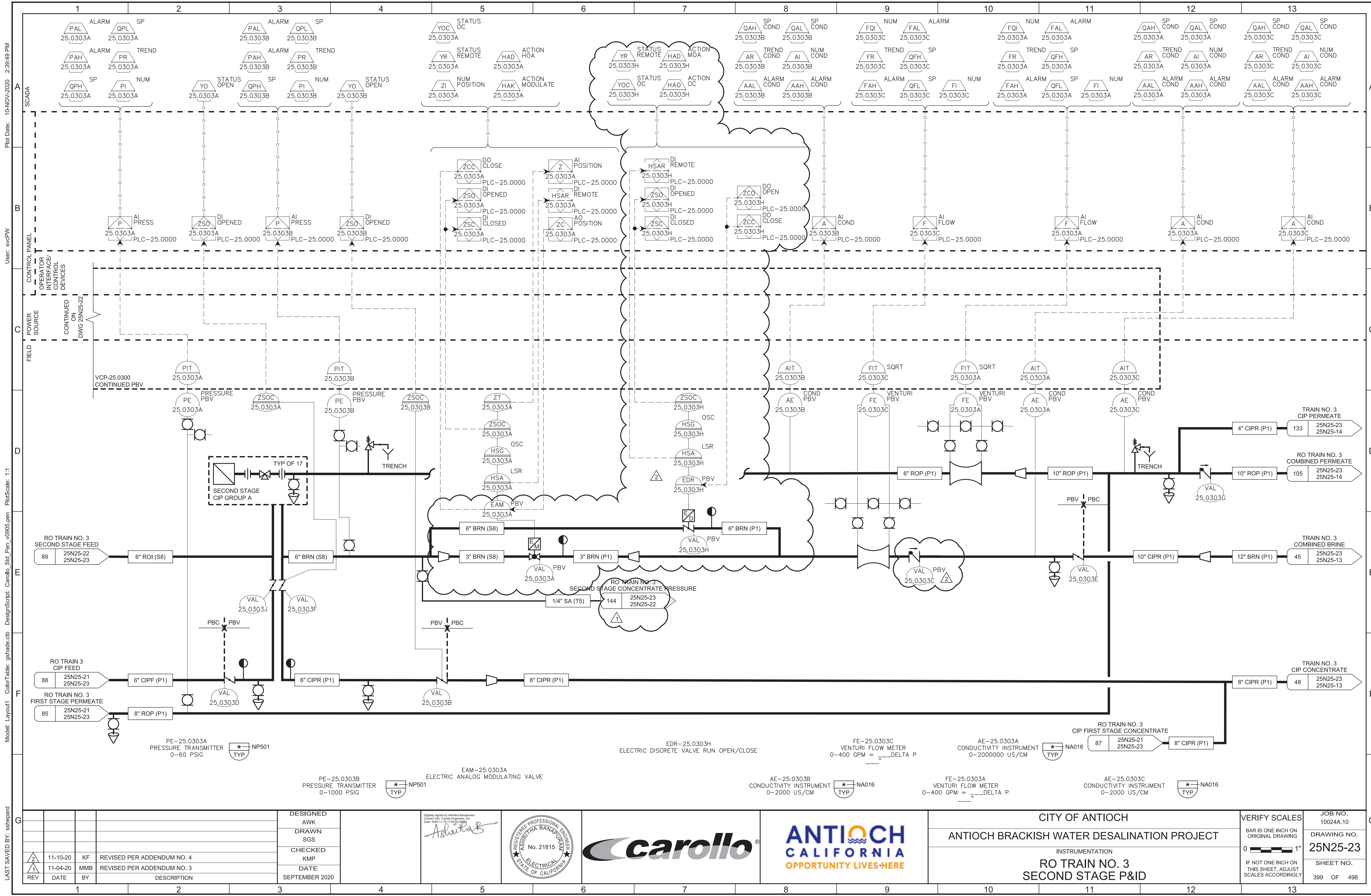
VERIFY SCALES	JOB NO. 10024A.10
BAR IS ONE INCH ON ORIGINAL DRAWING	DRAWING NO. 25E20-05
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY	SHEET NO. 322 OF 498

[illegible]





Plot Date: 10-NOV-2020 2:39:50 PM
User: svcFW
Model: Layout1
ColorTable: gshade.ctb
DesignScript: Carollo_Sld_Fen_v0905.pen
PlotScale: 1:1
LAST SAVED BY: sshepard



Plot Date: 10-NOV-2020 2:39:49 PM
User: svcFW
Model: Layout1 ColorTable: gshade.ctb DesignScript: Carollo_Sld_Fen_v0905.pen PlotScale: 1:1
LAST SAVED BY: sshiepard

