



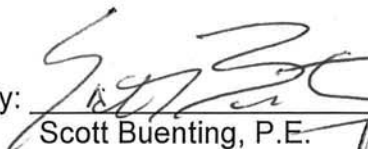
ADDENDUM NO. 6
TO THE
CONTRACT DOCUMENTS
FOR
BRACKISH WATER DESALINATION PROJECT
P.W. 694

ISSUED
November 20, 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 Buening, P.E.



ADDENDUM NO. 6

Brackish Water Desalination Project PW 694

Issued November 20, 2020

1. Addendum No. 4, Items 1.a and 1.b, Section 00400, Bid Forms:
 - a. Delete "Attachment M" from the list of forms to be submitted four (4) after Bid. Attachment M is to be submitted no later than 3 p.m. the day Bids are due.
2. Section 00200, Instructions to Bidders:
 - a. Modify the third sentence of Article 39.11 as follows:

"The Escrow Bid Documents shall be accompanied with the certification found in Section 00400, Bid Form, Attachment N Q, BID DOCUMENT CERTIFICATION, signed by an individual authorized by"
3. 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 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 (to be submitted no later than 3 p.m. the day Bids are due).
Attachment K	Certification of Off Plant Site Pipeline Subcontractor's Experience and Qualifications. (to be submitted no later than 3 p.m. the day Bids are due).
Attachment L	Certification of Marine Subcontractor's Experience and Qualifications (to be submitted no later than 3 p.m. the day Bids are due).
Attachment M	Certification of System Integrator Experience and Qualifications (to be submitted no later than 3 p.m. the day Bids are due).

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.

Tae taree oweht monetl ry Bds serh muht hubmd tae wawdng

Attl kamenth wdadh udr (4) buhdheh sl yh wawdng tae ot endng outae

Bdh:

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

Attl kament Gj2 DBE Goos Fl da Euorth Verdtkl tdn.

Attachment I Part C- Financial Information.

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.

Attl kament Q Bds Dokument Certdtkl tdn

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.

Attachment F SWRCB Form 4500-3 DBE Subcontractor Performance Form.

Attachment G SWRCB Form 4500-4 DBE Subcontractor Utilization Form.

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 (to be submitted no later than 3 p.m. the day Bids are due).

Attachment K Certification of Off Plant Site Pipeline Subcontractor’s Experience and Qualifications (to be submitted no later than 3 p.m. the day Bids are due).

Attachment L Certification of Marine Subcontractor’s Experience and Qualifications (to be submitted no later than 3 p.m. the day Bids are due).

Attachment M Certification of System Integrator Experience and Qualifications (to be submitted no later than 3 p.m. the day Bids are due).

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

Attl kament Gj2
Attachment I
Attachment O
Attachment P

DBE Goos Fl da Euorth Verdtkl tðn
Part C- Financial Information.
DBE Selected by Prime Contractor.
Buy American Iron and Steel Designation of Equipment or
Material Manufacturers.

Attl kament Q

Bðs Dokument Certdtkl tðn

- c. Add the attached Attachment Q, Bid Document Certification.
- 4. Section 01140, Work Restrictions:
 - a. Modify the second sentence of paragraph 1.04.B.6 as follows:
"Maximum allowable outage of 8 7 hours per 48 hour time period."
- 5. Section 02581, Precast Electrical Handholes and Electrical Manholes:
 - a. Modify paragraph 2.02.C.3.a as follows:
"Handholes: Aluminum plate hinged floor access door (hatch) as specified below: ~~in Section 08320--Floor Access Doors:~~"
- 1. Section 11242, Skid Mounted Liquid Chemical Diaphragm-Type Metering Pumps:
 - a. Delete paragraph 2.06.A.3:
"Safety Enclosure: Furnish skid with a protective safety enclosure."
- 2. Section 11312D, Vertical Turbine Short Setting Centrifugal Pumps
 - a. Add paragraph 2.01.A.4:
"4. Goulds Pumps."
 - b. Add paragraph 2.01.B.5:
"5. Goulds Pumps."
- 3. Section 11902, Fish Screen Assembly and Cleaning System
 - a. Add paragraph 2.02-B.6.e:
"e. Saylor-Beall."
- 4. Section 15114, Check Valves
 - a. Replace paragraph 1.03.A.1.b with the following:
"b. Class:
 - 1. Provide check valves suitable for working pressures up to 150 pounds per square inch unless otherwise specified.
 - 2. Provide check valves suitable for test pressures up to 250 pounds per square inch in piping systems with test pressure greater than 150 pounds per square inch and less than 250 pounds per square inch."
- 5. Section 15117, Specialty Valves
 - a. ADD the following Article after Sub-Paragraph 2.05.D.4:
"**, i 6 SV932 – SOLENOID VALVES**

- A. Manufacturers: One of the following or approved equal:
1. Plastomatic PS Series Pilot Operated Solenoid Valves.

B. Design:

1. Valves: Suitable for service under the following conditions:
 - a. Fluid: utility water.
 - b. Temperature of fluid: 40 to 80 degrees Fahrenheit.
 - c. Piping test pressure: 100 pounds per square inch gauge.
2. Unless otherwise indicated on the Drawings, provide valves that:
 - a. Minimum NEMA Type 4X enclosure.
 - b. 120 VAC operation.
 - c. Suitable for use as indicated on the Drawings.
 - d. Shall be Class F coil insulation.
3. Fail-Dry in the case of power outage.
4. Size: ½-inch to 3-inch.
 - a. ½-inch Cv = 5 minimum.
 - b. 3-inch Cv = 80 minimum.
5. Install strainer upstream of all solenoid valves.

C. Materials:

1. Body:
 - a. For utility water service: PVC.
2. Seals: PTFE bellows barrier type seals."

6. Section 17101.02, RO System Control Strategies

- a. REPLACE Paragraph 3.04 B. 3. B. 8) a) with the following:

"a) When a facility wide emergency shutdown is initiated, the sequence will proceed according to the following steps:

- (1) The RO feed pumps stall shut down without a ramp down of the VFDs.
- (2) Once the RO feed pumps are shut down, the control system shall command the RO train concentrate flow control valves to 100-percent closed.
- (3) The RO train concentrate bypass valve will open.
- (4) Once the RO feed pumps are shut down and the control valves are proven in the proper state, the RO feed pump isolation valves will close 100 percent.
- (5) All other facility functions will operate normally.
- (6) Following an emergency shutdown, the operator will be prompted to flush the systems after the alarm conditions have been addressed."

7. Section 17101.03, Chemical Control Strategies

- a. INSERT the following at the end of Article 3.04 "Erection, Installation, Application, Construction":

"E. Polymer System:
1. References:

- a. P&ID drawings.
 - b. General control strategies in Section 17100 – Control Strategies.
 - c. Specific process control strategies in Section 17101 – Specific Control Strategies.
2. Abstract:
 - a. The polymer batching system prepares dry polymer into a dilute solution to serve as a flocculant aid. The polymer feed pumps deliver the polymer solution from the polymer tanks to the flocculators.
 - b. Chemical feed rate for the location is measured by a chemical flowmeter.
 - c. Two pumps operate on an operator-adjustable duty/standby sequence.
3. Control strategy:
 - a. Tank Level:
 - 1) Float switches included with the vendor provided dry polymer feed package measure the liquid depth in both the vendor provided mixing tank and hold tank.
 - b. The chemical feed pumps adjust the pump feed rate based on the required chemical feed rate to achieve any of the following methods of control as selected by the operator:
 - 1) Closed Loop: Maintain a flow paced dose setpoint provided by the operator:
 - a) The control system calculates the required feed rate based upon the following information:
 - (1) Dose setpoint (mg/L), entered by the operator.
 - (2) Percent polymer concentration by weight, entered by the operator.
 - (3) Specific gravity of polymer solution, entered by the operator.
 - (4) Process flow rate:
 - a. Flow rate entering Plant A.
 - 2) Open Loop: Maintain a fixed metering pump rate provided by the operator:
 - a) The control system varies the pump speed linearly based on the operator specified percent of 100-percent rate capacity:
 - b) Example:
 - (1) Operator enters maximum pump capacity: 2 gph.
 - (2) Operator enters chemical delivery rate: 1 gph.
 - (3) Resulting pump speed: 50 percent.
 - c) Chemical feed rate display:
 - (1) The control system monitors the actual chemical feed flow through a flowmeter to the injection location.
 - (2) The control system performs a running average of the flowmeter output to compensate for pulsations in flow.
 - (3) The calculated dosing rate (gph) is displayed on the control system display for visual comparison with the actual dosing rate (gph) from the chemical flowmeter.

3) Alarms:

- a) Polymer mixing tank level (vendor provided):
 - (1) High level: generate an alarm.
 - (2) Low level: generate an alarm.
- b) Polymer holding tank level (vendor provided):
 - (1) High level: generate an alarm.
 - (2) Low level: generate an alarm.
- c) Polymer feed pump:
 - (1) If the duty pump is called to run and fails to start:
 - (a)Generate an alarm.
 - (b)The standby pump is called to run.
 - (2) If standby pump is called to run and fails:
 - (c)Generate an alarm.
- d) Polymer feed rate (FE 61.1101):
 - (1) High feed rate: generate an alarm.
 - (2) Low feed rate: generate an alarm.”

7. Section 17101, Specific Control Strategies

- a. Add the attached new Subsection 17101.04 to the end of the section.

8. Section 17505, Chlorine Residual Analyzers:

- a. Modify the Type of unit shown in the Schedule at the end of the section as follows:

“[Amperometric] [Colorimetric]”
- b. Add chlorine residual analyzer AE 25.0905D to the schedule following Section 17505. AE 25.0905D shall be provided as a spare to be installed as directed in the field. The unit shall have the same design features and connected to the same PCM as AE 25.0904B.

9. APPENDICES:

- a. Add the attached UPRR permit to Appendix A (16 pages).

DRAWINGS

The following drawings are modified as indicated below.

1. Replace the existing drawings with the attached drawings for: G010, TM01, TS08, 25C02, 25C03, 25C05, 25S14, 25S32, 25S33, 25M18, 25M27, 25M28, E03-004, E03-010, E03-011, E03-012, E03-014, E04-001, E04-002, E05-003, 25E01-03, 25E05016, 25E05-17, 25E05-20, 25E05-23, 25E05-27, 25E10-02, 25E10-07, 25E15-01, 25E15-02, 00N03-01, 21N21-06, 25N61-02.

2. Drawing G17:

- a. ADD the following table to the drawing:

POLYMER SYSTEM DESIGN CRITERIA		
TYPE: 100% DRY POL YMER		
ACTIVATION: BATCH SYSTEM		
DESCRIPTION	UNITS	VALUE
NUMBER OF SYSTEMS	NO.	1
MAXIMUM PRODUCTION (0.5%, 60 MINUTE MIN. AGE TIME)	LBS/DAY	192
DRY POL YMER BAG SIZE	LBS	55
STORAGE HOPPER VOLUME	FT3	2.5

3. Drawing 25C08:
 - a. At gridline E-4, change callout "Unistrut Support" to "C-channel Support - Typ".
4. Drawing 25S20:
 - a. At gridline D5, ADD a Key Note pointing towards the concrete pedestal that the sulfuric acid day tank will stand on. ADD the following text assigned to that Key Note: "PLAN DIMENSIONS OF CONCRETE PEDESTAL FOR THE SULFURIC ACID DAY TANK TO BE CONFIRMED BY CONTRACTOR BASED ON MANUFACTURER SELECTED FOR THE SULFURIC ACID DAY TANK. PEDESTAL MUST BY ADEQUATELY SIZED FOR DAY TANK AND ITS ASSOCIATED RESTRAINT SYSTEM. PEDESTAL PLAN DIMENSIONS APPROXIMATE AS SHOWN."
 - b. ADD the following General Note: "REFER TO MECHANICAL DRAWINGS FOR LOCATION OF THE CHEMICAL PUMP SKIDS (SEVEN TOTAL). CONSTRUCT A 30-INCH TALL EQUIPMENT STAND FOR EACH CHEMICAL PUMP SKID PER TYPICAL DETAIL S302. SIZE OF EQUIPMENT STAND TO BE CONFIRMED BY CONTRACTOR BASED ON PUMP SKID MANUFACTURER SELECTED. APPROXIMATE OUTLINE DIMENSIONS OF EQUIPMENT STAND SHOWN ON MECHANICAL DRAWINGS. ADEQUATELY SIZE EQUIPMENT STANDS FOR ANY ANCHORING REQUIREMENTS OF CHEMICAL PUMP SKIDS."

5. Drawing 25M29:
 - a. Gridline B9, change “30” BFW (S5)” callout at pump header to “30” BFW (S4)” .
6. Drawing 25N2592:
 - a. Add new chlorine residual analyzer AE 25.0905D as shown on the attached sketch. This analyzer shall be provided as a spare to be installed by the Contractor as directed in the field.
7. Drawing P01:
 - a. At grid line E-6, length of concrete cap over brine pipeline shall be from Station 12+40 to 12+80. Also the length of shallow brine pipeline shall match the cap extension to allow for future Delta Diablo pipe crossing.
8. Drawing P02:
 - a. Add key note 3 to plan at Sta 16+50. Add to key notes: “3. Work on Plant Road can be done M-F from 7 AM to 6PM with one lane open at all times.”

SELECTED RESPONSES TO REQUESTS FOR INFORMATION

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

ATTACHMENT Q
BID DOCUMENT CERTIFICATION

(To Be Submitted within 4 Business Days of the Bid Opening)

Project Name: Brackish Water Desalination Project
Project No. P.W.694

The undersigned hereby certifies that the bid documentation contained herein constitutes the complete, only and all documentary information used in the preparation of the Bid as specified in the Instructions to Bidders, and that I have personally examined these contents and have found that this bid documentation is complete. Furthermore, I certify that all Subcontractors whose total subcontract amount exceeds five percent (5%) of the Total Base Bid Price have furnished separate Escrow Bid Documents and their bid documentation is also furnished herein.

By: _____

Title: _____

Firm: _____

****END OF BID DOCUMENT CERTIFICATION****

September 2020

00400-Q-1

10024A10

pw://Carollo/Documents/Client/CA/Anthoch/1002.4A10/Specifications/00400 Attachment Q (AD6)

SECTION 17101.04

EMERGENCY POWER CONTROL STRATEGIES

PART 1 GENERAL

1.01 SUMMARY

- A. Section includes:
 - 1. Loop descriptions:
 - a. Specific control requirements and functional descriptions for individual control loops.

1.02 REFERENCES

- A. As specified in Section 17050.1 - Common Work Results for Process Control and Instrumentation Systems.

1.03 DEFINITIONS

- A. As specified in Section 17050.1 - Common Work Results for Process Control and Instrumentation Systems.

1.04 SYSTEM DESCRIPTION (NOT USED)

1.05 SUBMITTALS

- A. Develop detailed loop descriptions based on the information in the Contract Documents, and submit as specified in Sections 01330 - Submittal Procedures and 17050.1 - Common Work Results for Process Control and Instrumentation Systems:
 - 1. For each control loop, provide a detailed functional description of the operation of the equipment, signals, and controls shown on the P&IDs:
 - a. Include all functions depicted or described in the Contract Documents.
 - b. Include the following within each loop description:
 - 1) All requirements specific to that loop.
 - 2) Common control requirements applicable to that loop.
 - 3) List of all ranges, setpoints, timers, values, counters, etc.
 - 2. Where there are similar loops with identical control, such as multiple loops for individual raw water pumps, only 1 loop description need be developed and the remaining loops may reference that loop description.
 - 3. Loop description format: As specified in this Section.
- B. Loop number and title:
 - 1. References:
 - a. List P&IDs that are specifically referenced.
 - 2. Abstract:
 - a. General description of how the loop works, what devices are involved, and how the process will be controlled.
 - b. Process values, setpoints, and limits, including units and ranges:

- 1) Show span and range values for analog inputs and outputs, and operating point and deadband for discrete inputs.
3. Hardwired control:
 - a. Detailed description of the control functions at the local level.
 - b. Function of local operator interfaces.
 - c. Operation of hardwired field pilot controls:
 - 1) Pushbuttons.
 - 2) Selector switches.
 - 3) Potentiometers.
 - 4) Pilot lights, indicators, and other displays.
4. Hardwired interlocks:
 - a. Explanation of the operation of system interlocks and hardwired permissive conditions.
5. PLC control:
 - a. Detailed description of the control functions that are under control of the PLC.
 - b. Operator controls and automatic controls.
 - c. Setpoints, alarms, etc.:
 - 1) Include units and ranges for analog values.
 - 2) Include span and range for analog inputs and outputs.
 - 3) Include operating point and deadband for discrete inputs, and identify conditions where contacts are open, and when they close.
 - d. Control sequences.
 - e. Software interlocks:
 - 1) Operation of system software interlocks.
6. PCS/LOI/HMI control:
 - a. Detailed description of the operator controls.
 - b. Setpoints, alarms, etc.
7. Indicators and alarms:
 - a. List any indicators and alarms specific to the loop that are not covered in the common control strategies.
8. Failure modes:
 - a. List any failure modes specific to the loop that are not covered in the common control strategies.

1.06 QUALITY ASSURANCE (NOT USED)

1.07 DELIVERY, STORAGE, AND HANDLING (NOT USED)

1.08 PROJECT OR SITE CONDITIONS (NOT USED)

1.09 SEQUENCING (NOT USED)

1.10 SCHEDULING (NOT USED)

1.11 WARRANTY (NOT USED)

1.12 SYSTEM START-UP (NOT USED)

1.13 OWNER'S INSTRUCTIONS (NOT USED)

1.14 COMMISSIONING (NOT USED)

1.15 MAINTENANCE (NOT USED)

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.01 EXAMINATION (NOT USED)

3.02 PREPARATION (NOT USED)

3.03 INSTALLATION (NOT USED)

3.04 ERECTION, INSTALLATION, APPLICATION, CONSTRUCTION

- A. Emergency Power System:
1. References:
 - a. P&ID drawings.
 - b. General control strategies in Section 17100 - Control Strategies.
 - c. Specific process control strategies in Section 17101 - Specific Control Strategies.
 2. Abstract:
 - a. There are three emergency generators at the Water Treatment Plant
 - 1) 2 each, 100 kW units
 - 2) 1 each 2500 kW unit
 3. For the 100 kW units load shedding refer to the following table:

Loads on SWBD-F1 (ATS-F1, Gen-F1)	Loads on DP-RO (ATS-RO, Gen-RO)
DP-A Feeds all filter gallery valves	DP-RO (Lone tree & Flowmeter pad valves) (VAL-25.0301A, VAL-25.0301A, VAL-21.0602E, VAL-21.0602F) (send signals turn off what is not required)
1.5hp Sample pump (duty + standby – either 1) (PMP-25.0020 + PMP-25.0020A)	Lighting panel in Chemical area MPC-CHEM (PLC loads & other minor loads) – (send signals turn off what is not required)
Lighting panel in the Brackish filter water area MPC-F1 (PLC loads, main SWGR battery charger, sample pump on Plant A sed basins – PMP-21.062 & sample pump in filter gallery – PMP-24.0002) (send signals turn off what is not required)	Lighting panel in RO building LP-RO (only PLC loads) (send signals turn off what is not required)

4. The operating logic for each generator is shown in the diagram below:



END OF SECTION

November 2020

17101.04-5

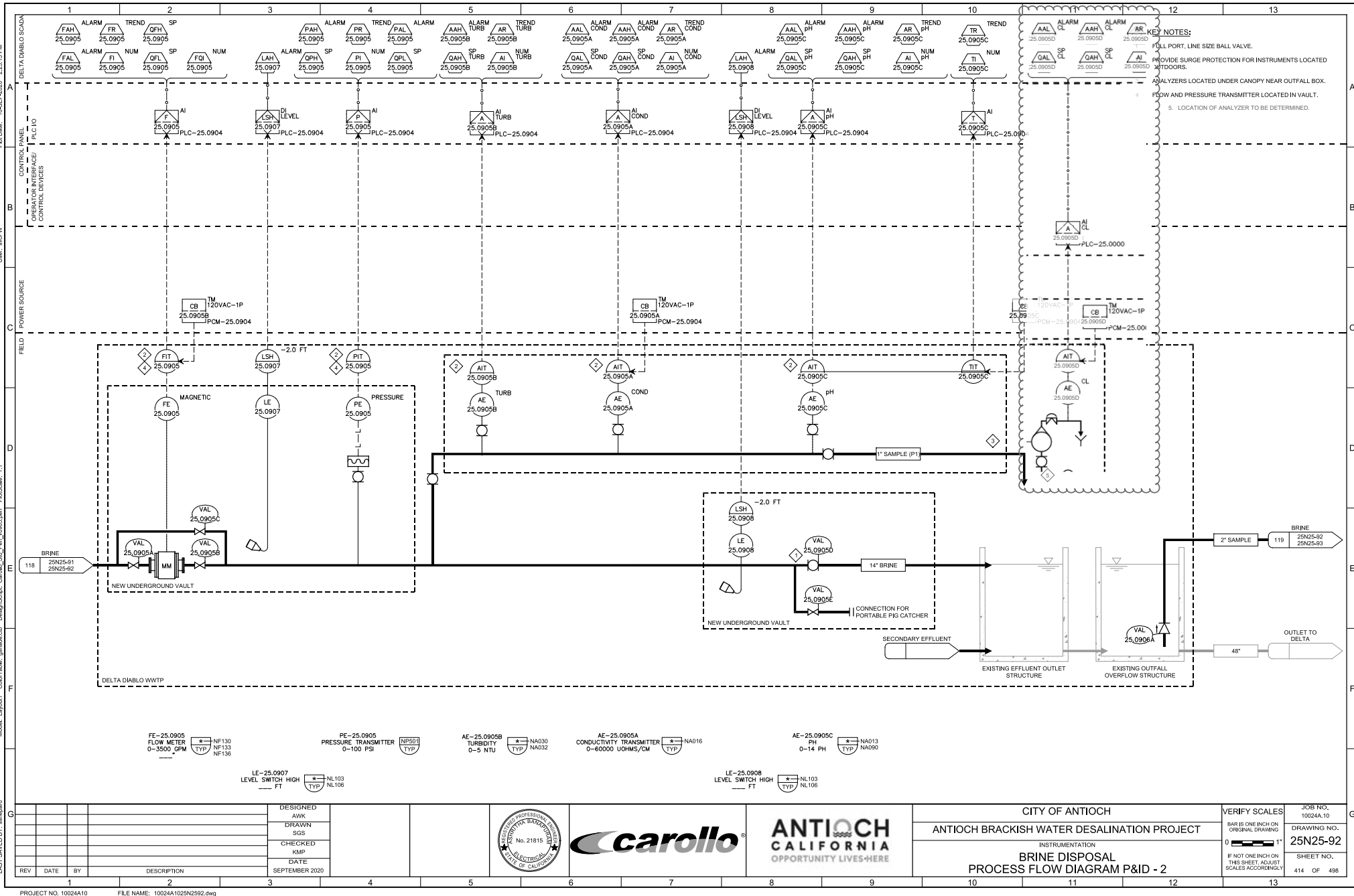
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LAST SAVED BY: mbaeard





November 18, 2020
Folder: 03234-84

SCOTT BUENTING
CITY OF ANTIOCH PUBLIC WORKS DEPT
CITY OF ANTIOCH PUBLIC WORKS
200 H STREET BASEMENT
ANTIOCH CA 94509

Re: Proposed One (1) 14 Inch Plastic Pipe Conveying The Commodity Of Brine Encased In A 24
Inch Steel Pipeline Crossing of Railroad Property at Mile Post 52.7 on the Tracy
Subdivision/Branch at or near Antioch, Contra Costa County, California

Dear Scott:

Attached is an original of the agreement covering your use of the Railroad Company's right of way. Please print two copies, execute on your behalf and return ALL DOCUMENTS in one mailed packaged with a check for any payments required, as shown below to 1400 Douglas Street, Omaha, NE 68179-1690, Attn: Valerie Harrill.

An original copy of the fully-executed document will be returned to you, when approved and processed by the Railroad Company. Also, please provide a resolution or other authorization for the party executing the documents, *if signature authorization is required by your Entity*.

- Payment in the amount of **Three Thousand Dollars (\$3,000.00)** is due and payable to Union Pacific Railroad Company upon your execution of the agreement. Please include your payment, **with Folder No. 03234-84 noted on that document**. If you require formal billing, you may consider this letter as a formal bill and that 94-6001323 is this Corporation's correct Federal Taxpayer Identification Number.

- Railroad Protective Liability Insurance (RPLI) may be obtained from any insurance company which offers such coverage. Union Pacific has also worked with a national broker, Marsh USA, to make available RPLI to you or your contractor. You can find additional information, premium quotes, and application forms at (uptr.marsh.com).

If we have not received the executed documents within six months from the date of this letter, this proposed offer of an agreement is withdrawn and becomes null and void.

If you have any questions, please contact me at VAHARRILL@up.com.

Sincerely,

Valerie Harrill
Mgr II Real Estate Contracts

PIPELINE CROSSING AGREEMENT

Mile Post: 52.7, Tracy Subdivision
Location: Antioch, Contra Costa County, California

THIS AGREEMENT ("Agreement") is made and entered into as of November 18, 2020, ("Effective Date") by and between **UNION PACIFIC RAILROAD COMPANY**, a Delaware corporation, ("Licensor") and **CITY OF ANTIOCH PUBLIC WORKS DEPT**, to be addressed at City Of Antioch Public Works, 200 H Street Basement Antioch, California 94509 ("Licensee").

IT IS MUTUALLY AGREED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS:

Article 1. LICENSOR GRANTS RIGHT.

A. In consideration of the license fee to be paid by Licensee set forth below and in further consideration of the covenants and agreements to be performed by Licensee, Licensor hereby grants to Licensee the right to construct and thereafter, during the term hereof, maintain and operate one (1) 14 inch plastic pipe conveying the commodity of brine encased in a 24 inch steel pipeline crossing only, including any appurtenances required for the operation of said pipeline (collectively, "Licensee's Facilities") across Licensor's real property, trackage, or other facilities located in Antioch, Contra Costa County, State of California ("Railroad Property"). The specific specifications and limited purpose for Licensee's Facilities on, along, across and under Railroad Property are described in and shown on the Print and Specifications dated November 13, 2020, attached hereto as **Exhibit A** and made a part hereof.

B. Licensee represents and warrants that Licensee's Facilities will (i) only be used for one (1) 14 inch plastic pipe conveying the commodity of brine encased in a 24 inch steel pipeline crossing, and (ii) not be used to convey any other substance, any fiber optic cable, or for any other use, whether such use is currently technologically possible, or whether such use may come into existence during the life of this Agreement.

C. Licensee acknowledges that if it or its contractor provides Licensor with digital imagery depicting Licensee's Facilities ("Digital Imagery"), Licensee authorizes Licensor to use the Digital Imagery in preparing **Exhibit A**. Licensee represents and warrants that through a license or otherwise, it has the right to use the Digital Imagery and to permit Licensor to use the Digital Imagery in said manner.

Article 2. LICENSE FEE.

Upon execution of this Agreement, the Licensee shall pay to the Licensor a one-time License Fee of **Three Thousand Dollars (\$3,000.00)**.

Article 3. TERM.

This Agreement shall take effect as of the Effective Date first herein written and shall continue in full force and effect until terminated as provided in the "TERMINATION; REMOVAL OF LICENSEE'S FACILITIES" Section of **Exhibit B**.

Article 4. LICENSEE'S COMPLIANCE WITH GENERAL TERMS.

Licensee represents and warrants that all work on Licensee's Facilities performed by Licensee or its contractors will strictly comply with all terms and conditions set forth herein, including the General Terms and Conditions, attached hereto as Exhibit B and made a part hereof.

Article 5. INSURANCE.

A. During the term of this Agreement, Licensee shall fully comply or cause its contractor(s) to fully comply with the insurance requirements described in **Exhibit C**, attached hereto and made a part hereof. Upon request only, Licensee shall send copies of all insurance documentation (e.g., certificates, endorsements, etc.) to Licenser at the address listed in the "NOTICES" Section of this Agreement.

B. If Licensee is subject to statute(s) limiting its insurance liability and/or limiting its ability to obtain insurance in compliance with **Exhibit C** of this Agreement, those statutes shall apply.

Article 6. DEFINITION OF LICENSEE.

For purposes of this Agreement, all references in this Agreement to Licensee will include Licensee's contractors, subcontractors, officers, agents and employees, and others acting under its or their authority (collectively, a "Contractor"). If a Contractor is hired by Licensee to perform any work on Licensee's Facilities (including initial construction and subsequent relocation, maintenance, and/or repair work), then Licensee shall provide a copy of this Agreement to its Contractor(s) and require its Contractor(s) to comply with all terms and conditions of this Agreement, including the indemnification requirements set forth in the "INDEMNITY" Section of **Exhibit B**. Licensee shall require any Contractor to release, defend, and indemnify Licenser to the same extent and under the same terms and conditions as Licensee is required to release, defend, and indemnify Licenser herein.

Article 7. ATTORNEYS' FEES, EXPENSES, AND COSTS.

If litigation or other court action or similar adjudicatory proceeding is undertaken by Licensee or Licenser to enforce its rights under this Agreement, all fees, costs, and expenses, including, without limitation, reasonable attorneys' fees and court costs, of the prevailing Party in such action, suit, or proceeding shall be reimbursed or paid by the Party against whose interest the judgment or decision is rendered. The provisions of this Article shall survive the termination of this Agreement.

Article 8. WAIVER OF BREACH.

The waiver by Licenser of the breach of any condition, covenant or agreement herein contained to be kept, observed and performed by Licensee shall in no way impair the right of Licenser to avail itself of any remedy for any subsequent breach thereof.

Article 9. ASSIGNMENT.

A. Licensee shall not assign this Agreement, in whole or in part, or any rights herein granted, without the written consent of Licensor, which must be requested in writing by Licensee. Any assignment or attempted transfer of this Agreement or any of the rights herein granted, whether voluntary, by operation of law, or otherwise, without Licensor's written consent, will be absolutely void and may result in Licensor's termination of this Agreement pursuant to the "TERMINATION; REMOVAL OF LICENSEE'S FACILITIES" Section of **Exhibit B**.

B. Upon Licensor's written consent to any assignment, this Agreement will be binding upon and inure to the benefit of the parties thereto, successors, heirs, and assigns, executors, and administrators.

Article 10. SEVERABILITY.

Any provision of this Agreement which is determined by a court of competent jurisdiction to be invalid or unenforceable shall be invalid or unenforceable only to the extent of such determination, which shall not invalidate or otherwise render ineffective any other provision of this Agreement.

Article 11. NOTICES.

Except Licensee's commencement of work notice(s) required under **Exhibit B**, all other notices required by this Agreement must be in writing, and (i) personally served upon the business address listed below ("Notice Address"), (ii) sent overnight via express delivery by a nationally recognized overnight delivery service such as Federal Express Corporation or United Parcel Service to the Notice Address, or (iii) by certified mail, return receipt requested to the Notice Address. Overnight express delivery notices will be deemed to be given upon receipt. Certified mail notices will be deemed to be given three (3) days after deposit with the United States Postal Service.

If to Licensor: Union Pacific Railroad Company
Attn: Analyst – Real Estate Utilities (Folder No. 03234-84)
1400 Douglas Street, MS 1690
Omaha, Nebraska 68179

If to Licensee: CITY OF ANTIOCH PUBLIC WORKS DEPT
City Of Antioch Public Works
200 H Street Basement

Antioch, California, 94509

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed as of the date first herein written.

UNION PACIFIC RAILROAD COMPANY

CITY OF ANTIOCH PUBLIC WORKS DEPT

By: _____

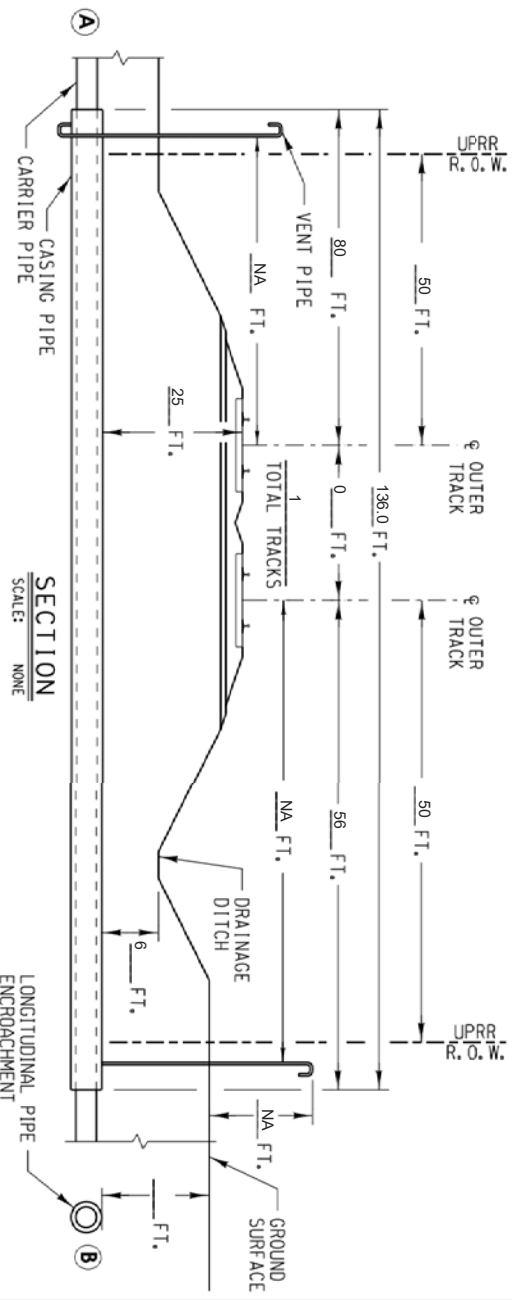
By: _____

Valerie Harrill
Mgr II Real Estate Contracts

Name Printed: _____

Title: _____

☒ CROSSING
☐ ENCROACHMENT
☐ BOTH



BUILDING AMERICA®

FILE NO.:	0323484	DATE:	11/13/2020
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EXHIBIT B

GENERAL TERMS AND CONDITIONS

Section 1. LIMITATION AND SUBORDINATION OF RIGHTS GRANTED.

A. The foregoing grant is subject and subordinate to the prior and continuing right and obligation of Licensor to use and maintain its entire property including the right and power of Licensor to construct, maintain, repair, renew, use, operate, change, modify or relocate railroad tracks, signal, communication, fiber optics, or other wirelines, pipelines and other facilities upon, along or across any or all parts of its property, all or any of which may be freely done at any time or times by Licensor without liability to Licensee or to any other party for compensation or damages.

B. The foregoing grant is also subject to all outstanding superior rights (including those in favor of licensees and lessees of Railroad Property) and the right of Licensor to renew and extend the same, and is made without covenant of title or for quiet enjoyment. It shall be Licensee's sole obligation to obtain such additional permission, license and grants necessary on account of any such existing rights.

Section 2. ENGINEERING REQUIREMENTS; PERMITS.

A. Licensee's Facilities will be designed, constructed, operated, maintained, repaired, renewed, modified, reconstructed, removed, or abandoned in place on Railroad Property by Licensee or its contractor to Licensor's satisfaction and in strict conformity with: (i) Licensor's current engineering standards and specifications, including those for shoring and cribbing to protect Licensor's railroad operations and facilities ("UP Specifications"), except for variances approved in advance in writing by Licensor's Assistant Vice President Engineering – Design or its authorized representative ("UP Engineering Representative"); (ii) such other additional safety standards as Licensor, in its sole discretion, elects to require, including, without limitation, American Railway Engineering and Maintenance-of-Way Association ("AREMA") standards and guidelines (collectively, "UP Additional Requirements"); and (iii) all applicable laws, rules, and regulations, including any applicable Federal Railroad Administration and Federal Energy Regulatory Commission regulations and enactments (collectively, "Laws"). If there is any conflict between UP Specifications, UP Additional Requirements, and Laws, the most restrictive will apply.

B. Licensee shall keep the soil over Licensee's Facilities thoroughly compacted, and maintain the grade over and around Licensee's Facilities even with the surface of the adjacent ground.

C. If needed, Licensee shall secure, at Licensee's sole cost and expense, any and all necessary permits required to perform any work on Licensee's Facilities.

Section 3. NOTICE OF COMMENCEMENT OF WORK; EMERGENCIES.

A. Licensee and its contractors are strictly prohibited from commencing any work associated with Licensee's Facilities without Licensor's written approval that the work will be in strict compliance with the "ENGINEERING REQUIREMENTS; PERMITS" Section of this Exhibit B. Upon Licensor's approval, Licensee shall contact both of Licensor's field representatives ("Licensor's Field Representatives") at least ten (10) days before commencement of any work on Licensee's Facilities.

B. Licensee shall not commence any work until: (1) Licensor has determined whether flagging or other special protective or safety measures ("Safety Measures") are required for performance of the work pursuant to the "FLAGGING" Section of this **Exhibit B** and provided Licensee written authorization to commence work; and (2) Licensee has complied with the "PROTECTION OF FIBER OPTIC CABLE SYSTEMS" Section of this **Exhibit B**.

C. If, at any time, an emergency arises involving Licensee's Facilities, Licensee or its contractor shall immediately contact Licensor's Response Management Communications Center at (888) 877-7267.

Section 4. FLAGGING.

A. Following Licensee's notice to Licensor's Field Representatives required under the "NOTICE OF COMMENCEMENT OF WORK; EMERGENCIES" Section of this **Exhibit B**, Licensor shall inform Licensee if Safety Measures are required for performance of the work by Licensee or its contractor on Railroad Property. If Safety Measures are required, no work of any kind may be performed by Licensee or its contractor(s) until arrangements for the Safety Measures have been made and scheduled. If no Safety Measures are required, Licensor will give Licensee written authorization to commence work.

B. If any Safety Measures are performed or provided by Licensor, including but not limited to flagging, Licensor shall bill Licensee for such expenses incurred by Licensor, unless Licensor and a federal, state, or local governmental entity have agreed that Licensor is to bill such expenses to the federal, state, or local governmental entity. Additional information regarding the submission of such expenses by Licensor and payment thereof by Licensee can be found in the "LICENSEE'S PAYMENT OF EXPENSES" Section of this **Exhibit B**. If Licensor performs any Safety Measures, Licensee agrees that Licensee is not relieved of any of responsibilities or liabilities set forth in this Agreement.

C. For flagging, the rate of pay per hour for each flagger will be the prevailing hourly rate in effect for an eight-hour day for the class of flagmen used during regularly assigned hours and overtime in accordance with Labor Agreements and Schedules in effect at the time the work is performed. In addition to the cost of such labor, a composite charge for vacation, holiday, health and welfare, supplemental sickness, Railroad Retirement and unemployment compensation, supplemental pension, Employees Liability and Property Damage, and Administration will be included, computed on actual payroll. The composite charge will be the prevailing composite charge in effect at the time the work is performed. One and one-half times the current hourly rate is paid for overtime, Saturdays and Sundays, and two and one-half times current hourly rate for holidays. Wage rates are subject to change, at any time, by law or by agreement between Licensor and its employees, and may be retroactive as a result of negotiations or a ruling of an authorized governmental agency. Additional charges on labor are also subject to change. If the wage rate or additional charges are changed, Licensee (or the governmental entity, as applicable) shall pay on the basis of the new rates and charges.

D. Reimbursement to Licensor will be required covering the full eight-hour day during which any flagger is furnished, unless the flagger can be assigned to other railroad work during a portion of such day, in which event reimbursement will not be required for the portion of the day during which the flagger is engaged in other railroad work. Reimbursement will also be required for any day not actually worked by the flaggers following the flaggers' assignment to work on the project for which Licensor is required to pay the flaggers and which could not reasonably be avoided by Licensor by assignment of such flaggers to other work, even though Licensee may not be working during such time. When it becomes necessary for Licensor to bulletin and assign an employee to a flagging position in compliance with union collective bargaining agreements, Licensee must provide Licensor a minimum of five (5) days notice prior to the cessation of the need for a flagger. If five (5) days notice of cessation is not given, Licensee will still be required to pay flagging charges for the days the flagger was scheduled, even though flagging is no longer required for that period. An additional ten (10) days notice must then be given to Licensor if flagging services are needed again after such five day cessation notice has been given to Licensor.

Section 5. SAFETY.

A. Safety of personnel, property, rail operations and the public is of paramount importance in the prosecution of any work on Railroad Property performed by Licensee or its contractor, and takes precedence over any work on Licensee's Facilities to be performed by Licensee or its contractors. Licensee shall be responsible for initiating, maintaining and supervising all safety operations and programs in connection with any work on Licensee's Facilities. Licensee and its contractor shall, at a minimum comply, with Licensor's then current safety standards located at the below web address ("Licensor's Safety Standards") to ensure uniformity with the safety standards followed by Licensor's own forces. As a part of Licensee's safety responsibilities, Licensee shall notify Licensor if it determines that any of Licensor's Safety Standards are contrary to good safety practices. Licensee and its contractor shall furnish copies of Licensor's Safety Standards to each of its employees before they enter Railroad Property.

Union Pacific Current Safety Requirements

B. Licensee shall keep the job site on Railroad Property free from safety and health hazards and ensure that their employees are competent and adequately trained in all safety and health aspects of the work.

C. Licensee represents and warrants that all parts of Licensee's Facilities within and outside of the limits of Railroad Property will not interfere whatsoever with the constant, continuous, and uninterrupted use of the tracks, property, and facilities of Licensor, and nothing shall be done or suffered to be done by Licensee at any time that would in any manner impair the safety thereof.

D. Licensor's operations and work performed by Licensor's personnel may cause delays in Licensee's or its contractor's work on Licensee's Facilities. Licensee accepts this risk and agrees that Licensor shall have no liability to Licensee or any other person or entity for any such delays. Licensee must coordinate any work on Railroad Property by Licensee or any third party with Licensor's Field Representatives in strict compliance with the "NOTICE OF COMMENCEMENT OF WORK, EMERGENCIES" Section of this **Exhibit**

E. Licensor shall have the right, if it so elects, to provide any support it deems necessary for the safety of Licensor's operations and trackage during Licensee's or its contractor's construction, maintenance, repair, renewal, modification, relocation, reconstruction, or removal of Licensee's Facilities. In the event Licensor provides such support, Licensor shall invoice Licensee, and Licensee shall pay Licensor as set forth in the "LICENSEE'S PAYMENT OF EXPENSES" Section of this **Exhibit B**.

F. Licensee may use unmanned aircraft systems ("UAS") to inspect Licensee's Facilities only upon the prior authorization from and under the direction of Licensor's Field Representatives. Licensee represents and warrants that its use of UAS on Railroad Property will comply with Licensor's then-current Unmanned Aerial Systems Policy and all applicable laws, rules and regulations, including any applicable Federal Aviation Administration regulations and enactments pertaining to UAS.

Section 6. PROTECTION OF FIBER OPTIC CABLE SYSTEMS.

Fiber optic cable systems may be buried on Railroad Property. Protection of the fiber optic cable systems is of extreme importance since any break could disrupt service to users resulting in business interruption and loss of revenue and profits. In addition to the notifications required under the "NOTICE OF COMMENCEMENT OF WORK; EMERGENCIES" Section of this **Exhibit B**, Licensee shall telephone Licensor during normal business hours (7:00 a.m. to 9:00 p.m. Central Time, Monday through Friday, except for holidays) at 1-800-336-9193 (also a 24-hour, 7-day number for emergency calls) to determine if fiber optic cable is buried anywhere on Railroad Property to be used by Licensee. If it is, Licensee shall telephone the telecommunications company(ies) involved, and arrange for a cable locator, make arrangements for relocation or other protection of the fiber optic cable, all at Licensee's expense, and will not commence any work on Railroad Property until all such protection or relocation has been completed.

Section 7. LICENSEE'S PAYMENT OF EXPENSES.

A. Licensee shall bear the entire cost and expense of the design, construction, maintenance, modification, reconstruction, repair, renewal, revision, relocation, or removal of Licensee's Facilities.

B. Licensee shall fully pay for all materials joined, affixed to and labor performed on Railroad Property in connection with the construction, maintenance, modification, reconstruction, repair, renewal, revision, relocation, or removal of Licensee's Facilities, and shall not permit or suffer any mechanic's or materialman's lien of any kind or nature to be enforced against the property for any work done or materials furnished thereon at the instance or request or on behalf of Licensee. Licensee shall promptly pay or discharge all taxes, charges, and assessments levied upon, in respect to, or on account of Licensee's Facilities, to prevent the same from becoming a charge or lien upon any property of Licensor, and so that the taxes, charges, and assessments levied upon or in respect to such property shall not be increased because of the location, construction, or maintenance of Licensee's Facilities or any improvement, appliance, or fixture connected therewith placed upon such property, or on account of Licensee's interest therein. Where such tax, charge, or assessment may not be separately made or assessed to Licensee but shall be included in the assessment of the property of Licensor, then Licensee shall pay to Licensor an equitable proportion of such taxes determined by the value of Licensee's property upon property of Licensor as compared with the entire value of such property.

C. As set forth in the "FLAGGING" Section of this **Exhibit B**, Licensor shall have the right, if it so elects, to provide any Safety Measures Licensor deems necessary for the safety of Licensor's operations and trackage during Licensee's or its contractor's construction, maintenance, modification, reconstruction, repair, renewal, revision, relocation, or removal of Licensee's Facilities, including, but not limited to supervision, inspection, and flagging services. In the event Licensor provides such Safety Measures, Licensor shall submit an itemized invoice to Licensee's notice recipient listed in the "NOTICES" Article of this Agreement. Licensee shall pay to Licensor the total amount listed on such invoice within thirty (30) days of Licensee's receipt of such invoice.

Section 8. MODIFICATIONS TO LICENSEE'S FACILITIES.

A. This grant is subject to Licensors' safe and efficient operation of its railroad, and continued use and improvement of Railroad Property (collectively, "Railroad's Use"). Accordingly, Licensee shall, at its sole cost and expense, modify, reconstruct, repair, renew, revise, relocate, or remove (individually, "Modification", or collectively, "Modifications") all or any portion of Licensee's Facilities as Licensors may designate or identify, in its sole discretion, in the furtherance of Railroad's Use.

B. Upon any Modification of all or any portion of Licensee's Facilities to another location on Railroad Property, Licensors and Licensee shall execute a Supplemental Agreement to this Pipeline Agreement to document the Modification(s) to Licensee's Facilities on Railroad Property. If the Modifications result in Licensee's Facilities moving off of Railroad Property, this Agreement will terminate upon Licensee's completion of such Modification(s) and all requirements contained within the "TERMINATION; REMOVAL OF LICENSEE'S FACILITIES" Section of this **Exhibit B**. Any such Modification(s) off of Railroad Property will not release Licensee from any liability or other obligation of Licensee arising prior to and upon completion of any such Modifications to the Licensee's Facilities.

Section 9. RESTORATION OF RAILROAD PROPERTY.

In the event Licensee, in any manner moves or disturbs any property of Licensors in connection with the construction, maintenance, modification, reconstruction, repair, renewal, revision, relocation, or removal of Licensee's Facilities, then, Licensee shall, as soon as possible and at Licensee's sole cost and expense, restore Licensors' property to the same condition as the same were before such property was moved or disturbed.

Section 10. INDEMNITY.

A. Definitions. As used in this Section:

1. "Licensor" includes Licensors, its affiliates, its and their officers, directors, agents and employees, and other railroad companies using Railroad Property at or near the location of Licensee's installation and their officers, directors, agents, and employees.
2. "Licensee" includes Licensee and its agents, contractors, subcontractors, sub-subcontractors, employees, officers, and directors, or any other person or entity acting on its behalf or under its control.
3. "Loss" includes claims, suits, taxes, loss, damages (including punitive damages, statutory damages, and exemplary damages), costs, charges, assessments, judgments, settlements, liens, demands, actions, causes of action, fines, penalties, interest, and expenses of any nature, including court costs, reasonable attorneys' fees and expenses, investigation costs, and appeal expenses.

B. Licensee shall release, defend, indemnify, and hold harmless Licensors from and against any and all Loss, even if groundless, fraudulent, or false, that directly or indirectly arises out of or is related to Licensee's construction, maintenance, modification, reconstruction, repair, renewal, revision, relocation, removal, presence, use, or operation of Licensee's Facilities, including, but not limited to, any actual or alleged:

1. Bodily harm or personal injury (including any emotional injury or disease) to, or the death of, any person(s), including, but not limited to, Licensee, Licensor, any telecommunications company, or the agents, contractors, subcontractors, sub-subcontractors, or employees of the foregoing;
2. Damage to or the disturbance, loss, movement, or destruction of Railroad Property, including loss of use and diminution in value, including, but not limited to, any telecommunications system(s) or fiber optic cable(s) on or near Railroad Property, any property of Licensee or Licensor, or any property in the care, custody, or control of Licensee or Licensor;
3. Removal of person(s) from Railroad Property;
4. Any delays or interference with track or Railroad's Use caused by Licensee's activity(ies) on Railroad Property, including without limitation the construction, maintenance, modification, reconstruction, repair, renewal, revision, relocation, or removal of Licensee's Facilities or any part thereof, any activities, labor, materials, equipment, or machinery in conjunction therewith ;
5. Right(s) or interest(s) granted pursuant to this Agreement;
6. Contents escaping from Licensee's Facilities, including without limitation any actual or alleged pollution, contamination, breach, or environmental Loss;
7. Licensee's breach of this Agreement or failure to comply with its provisions, including, but not limited to, any violation or breach by Licensee of any representations and warranties Licensee has made in this Agreement; and
8. Violation by Licensee of any law, statute, ordinance, governmental administrative order, rule, or regulation, including without limitation all applicable Federal Railroad Administration regulations.

C. THE FOREGOING OBLIGATIONS SHALL APPLY TO THE FULLEST EXTENT PERMITTED BY LAW FOR THE BENEFIT OF LICENSOR TO LOSSES CAUSED BY, ARISING FROM, RELATING TO, OR RESULTING FROM, IN WHOLE OR IN PART, THE NEGLIGENCE OF LICENSOR, AND SUCH NEGLIGENCE OF LICENSOR SHALL NOT LIMIT, DIMINISH, OR PRECLUDE LICENSEE'S OBLIGATIONS TO LICENSOR IN ANY RESPECT. NOTWITHSTANDING THE FOREGOING, SUCH OBLIGATION TO INDEMNIFY LICENSOR SHALL NOT APPLY TO THE EXTENT THE LOSS IS CAUSED BY THE SOLE, ACTIVE AND DIRECT NEGLIGENCE, GROSS NEGLIGENCE, OR WILFUL MISCONDUCT OF LICENSOR AS DETERMINED IN A FINAL JUDGMENT BY A COURT OF COMPETENT JURISDICTION.

Section 11. TERMINATION; REMOVAL OF LICENSEE'S FACILITIES.

A. If Licensee does not use the right herein granted on Licensee's Facilities for one (1) year, or if Licensee continues in default in the performance of any provision of this Agreement for a period of thirty (30) days after written notice from Licensor to Licensee specifying such default, Licensor may, at its sole discretion, terminate this Agreement by written notice to Licensee at the address listed in the "NOTICES" Article of this Agreement. This Agreement will not terminate until Licensee complies with Paragraphs "C" and "D" of this Section found below.

B. In addition to the provisions of Paragraph "A" above, this Agreement may be terminated by written notice given by either party, without cause, upon thirty (30) days written notice to the non-terminating party at the address listed in the "NOTICES" Article of this Agreement. This Agreement will not terminate until Licensee complies with Paragraphs "C" and "D" of this Section found below.

C. Prior to the effective date of any termination described in this Section, Licensee shall submit an application to Licensors online Utility Contracts System at this link for Licensee's removal, or if applicable, abandonment in place of Licensee's Facilities located on Railroad Property ("Removal/Abandonment Work"). Upon the UP Engineering Representative's approval of Licensee's application for the Removal/Abandonment Work, Licensors and Licensee shall execute a separate consent document that will govern Licensee's performance of the Removal/Abandonment Work from those portions of Railroad Property not occupied by roadbed and/or trackage ("Consent Document"). Licensee shall then restore the impacted Railroad Property to the same or reasonably similar condition as it was prior to Licensee's installation of Licensee's Facilities. For purposes of this Section, Licensee's (i) performance of the Removal/Abandonment Work, and (ii) restoration work will hereinafter be collectively referred to as the "Restoration Work".

D. Following Licensee's completion of the Restoration Work, Licensee shall provide a written certification letter to Licensors at the address listed in the "NOTICES" Article of this Agreement which certifies that the Restoration Work has been completed in accordance with the Consent Document. Licensee shall report to governmental authorities, as required by law, and notify Licensors immediately if any environmental contamination is discovered during Licensee's performance of the Restoration Work. Upon discovery, the Licensee shall initiate any and all removal, remedial and restoration actions that are necessary to restore the property to its original, uncontaminated condition. Licensee shall provide written certification to Licensors at the address listed in the "NOTICES" Article of this Agreement that environmental contamination has been remediated and the property has been restored in accordance with Licensors' requirements. Upon Licensors' receipt of Licensee's restoration completion certifications, this Agreement will terminate.

E. In the event that Licensee fails to complete any of the Restoration Work, Licensors may, but is not obligated, to perform the Restoration Work. Any such work actually performed by Licensors will be at the cost and expense of Licensee. In the event that Licensors performs any of the Restoration Work, Licensee shall release Licensors from any and all Loss (defined in the "INDEMNITY" Section of this **Exhibit B**) arising out of or related to Licensors' performance of the Restoration Work.

F. Termination of this Agreement for any reason will not affect any of rights or obligations of the parties which may have accrued, or liabilities or Loss (defined in the "INDEMNITY" Section of this **Exhibit B**), accrued or otherwise, which may have arisen prior to such termination.

EXHIBIT C

INSURANCE REQUIREMENTS

In accordance with Article 5 of this Agreement, Licensee shall (1) procure and maintain at its sole cost and expense, or (2) require its Contractor(s) to procure and maintain, at their sole cost and expense, the following insurance coverage:

A. **Commercial General Liability Insurance.** Commercial general liability (CGL) with a limit of not less than \$2,000,000 each occurrence and an aggregate limit of not less than \$4,000,000. CGL insurance must be written on ISO occurrence form CG 00 01 12 04 (or a substitute form providing equivalent coverage).

The policy must also contain the following endorsement, WHICH MUST BE STATED ON THE CERTIFICATE OF INSURANCE:

- Contractual Liability Railroads ISO form CG 24 17 10 01 (or a substitute form providing equivalent coverage) showing "Union Pacific Railroad Company Property" as the Designated Job Site.

B. **Business Automobile Coverage Insurance.** Business auto coverage written on ISO form CA 00 01 10 01 (or a substitute form providing equivalent liability coverage) with a limit of not less \$2,000,000 for each accident, and coverage must include liability arising out of any auto (including owned, hired, and non-owned autos).

The policy must contain the following endorsements, WHICH MUST BE STATED ON THE CERTIFICATE OF INSURANCE:

- "Coverage For Certain Operations In Connection With Railroads" ISO form CA 20 70 10 01 (or a substitute form providing equivalent coverage) showing "Union Pacific Railroad Company Property" as the Designated Job Site.

C. **Workers' Compensation and Employers' Liability Insurance.** Coverage must include but not be limited to:

- Licensee's statutory liability under the workers' compensation laws of the state(s) affected by this Agreement.
- Employers' Liability (Part B) with limits of at least \$500,000 each accident, \$500,000 disease policy limit \$500,000 each employee.

If Licensee is self-insured, evidence of state approval and excess workers' compensation coverage must be provided. Coverage must include liability arising out of the U. S. Longshoremen's and Harbor Workers' Act, the Jones Act, and the Outer Continental Shelf Land Act, if applicable.

D. **Environmental Liability Insurance.** Environmental Legal Liability Insurance (ELL) applicable to bodily injury, property damage, including loss of use of damaged property or of property that has not been physically injured or destroyed, cleanup costs, and defense, including costs and expenses incurred in the investigation, defense, or settlement of claims, or compliance with statute, all in

connection with any loss arising from the insured's performance under this Agreement. Except with respect to the limits of insurance, and any rights or duties specifically assigned to the first named insured, this insurance must apply as if each named insured were the only named insured; and separately to the additional insured against which claim is made or suit is brought. Coverage shall be maintained in an amount of at least \$2,000,000 per loss, with an annual aggregate of at least \$4,000,000.

Licensee warrants that any retroactive date applicable to ELL insurance coverage under the policy is the same as or precedes the Effective Date of this Agreement, and that continuous coverage will be maintained for a period of five (5) years beginning from the time the work under this Agreement is completed or if coverage is cancelled for any reason the policies extended discovery period, if any, will be exercised for the maximum time allowed.

E. **Railroad Protective Liability Insurance.** Licensee must maintain for the duration of work "Railroad Protective Liability" insurance written on ISO occurrence form CG 00 35 12 04 (or a substitute form providing equivalent coverage) on behalf of Licenser only as named insured, with a limit of not less than \$2,000,000 per occurrence and an aggregate of \$6,000,000. The definition of "JOB LOCATION" and "WORK" on the declaration page of the policy shall refer to this Agreement and shall describe all WORK or OPERATIONS performed under this Agreement. Notwithstanding the foregoing, Licensee does not need Railroad Protective Liability Insurance after its initial construction work is complete and all excess materials have been removed from Licenser's property; PROVIDED, however, that Licensee shall procure such coverage for any subsequent maintenance, repair, renewal, modification, reconstruction, or removal work on Licensee's Facilities.

F. **Umbrella or Excess Insurance.** If Licensee utilizes umbrella or excess policies, and these policies must "follow form" and afford no less coverage than the primary policy.

Other Requirements

G. All policy(ies) required above (except business automobile, workers' compensation and employers' liability) must include Licenser as "Additional Insured" using ISO Additional Insured Endorsement CG 20 26 (or substitute form(s) providing equivalent coverage). The coverage provided to Licenser as additional insured shall not be limited by Licensee's liability under the indemnity provisions of this Agreement. BOTH LICENSOR AND LICENSEE EXPECT THAT LICENSOR WILL BE PROVIDED WITH THE BROADEST POSSIBLE COVERAGE AVAILABLE BY OPERATION OF LAW UNDER ISO ADDITIONAL INSURED FORM CG 20 26.

H. Punitive damages exclusion, if any, must be deleted (and the deletion indicated on the certificate of insurance), unless (a) insurance coverage may not lawfully be obtained for any punitive damages that may arise under this Agreement, or (b) all punitive damages are prohibited by all states in which this Agreement will be performed.

I. Licensee waives all rights of recovery, and its insurers also waive all rights of subrogation of damages against Licenser and its agents, officers, directors and employees for damages covered by the workers' compensation and employers' liability or commercial umbrella or excess liability obtained by Licensee required in this Agreement, where permitted by law. This waiver must be stated on the certificate of insurance.

J. All insurance policies must be written by a reputable insurance company acceptable to Licenser or with a current Best's Insurance Guide Rating of A- and Class VII or better, and authorized to do business in the state(s) in which the work is to be performed.

K. The fact that insurance is obtained by Licensee will not be deemed to release or diminish the liability of Licensee, including, without limitation, liability under the indemnity provisions of this

Agreement. Damages recoverable by Licensor from Licensee or any third party will not be limited by the amount of the required insurance coverage.

City of Antioch Brackish Water Desalination Project
Addendum #6
Response to Bidder Questions
11/19/2020

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	Bidder Question Log
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	Bidder Question Log
		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	Bidder Question Log
		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	Bidder Question Log

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	Bidder Question Log
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 – B 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 Class 53 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	Bidder Question Log
		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	Bidder Question Log
		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 the Brackish Water Desalination Project.	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. Where a provision of a Master Labor Agreement is not inconsistent with this Agreement, the provisions of the Master Labor Agreement shall apply.</p>	11/4/2020	Addendum #3 (Q&A)

Date	Company Name	Question(s)	Response	Date of Response	How Responded
			<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 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</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
		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.	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" BFW. 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 MJCJ restrained joint assembly. The detail does not specifically state to provide MJCJ 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 MJCJ 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, therefore 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	Keiwi	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 commission- General Permit	- Delta Stewardship Council- Cert of Consistency with the Delta Plan – City obtained	10/23/2020	Email
10/22/2020	Keiwi	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	Bidder Question Log

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		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
		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

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		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	Bidder Question Log
		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	Bidder Question Log
		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	Bidder Question Log
		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

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		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
		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	Bidder Question Log
		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.		11/4/2020	Addendum 3

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		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.	<p>the Bid Form - 00400 has been updated to match the individual specification manufacturers</p> <p>If not named in the current spec, equipment can be submitted as an "OR EQUAL" as specified in 01600 - Product Requirements unless listed as a sole source product.</p>	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
		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.		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 HPDE pipe at the RO Facility.	34"HDPE is the correct size with ~30" pipe ID.	11/4/2020	Addendum 3

Date	Company Name	Question(s)	Response	Date of Response	How Responded
10/27/2020	Ferguson	1) <u>12" BFW (HDPE) BRANCH LINE TO 24" ROP (S5)</u> : 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) <u>ASSUMED 12" BFW (S5) BYPASS LINE</u> : 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	Bidder Question Log
		3) <u>24" ROP WATER LINE AIR RELEASE VALVES</u> : 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
		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

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		8) 12" BUTTERFLY VALVE – BRN LINE: 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:	provide pole height as indicated in the drawings. provide a festoon box on all poles where indicated.	11/10/2020	Bidder Question Log
		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.			
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	The maximum high tide elevation is +8.90. Refer to Addendum 3 for updated drawing 21C02.	11/4/2020	Addendum #3
		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.			
		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	See Addendum #3	11/4/2020	Addendum #3
		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.			

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		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	Bidder Question Log
		Question 6. Drawing 21C01 – Allowable In-River Work Window			
		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	Bidder Question Log
		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

Date	Company Name	Question(s)	Response	Date of Response	How Responded
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	Bidder Question Log
		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
10/28/2020	Ferguson	1) 24" FM (DI) WATER LINE : 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) VALVE TAG NUMBERS FOR 18" & 30" BUTTERFLY VALVES: 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) STATIC MIXER INSTALLATION IN THE 30" RAW W (DI) LINE: 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) NEW 6" FW (DI) FILTERED WATER LINE: 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

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		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.
		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	Bidder Question Log

Date	Company Name	Question(s)	Response	Date of Response	How Responded
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
		2) BRINE FLOW METER VAULT VALVES: 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) BRINE PIG RETRIEVAL VAULT VALVE: 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

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		4) BRINE (HDPE) WATER OUTFALL VALVE VAULT DETAIL: 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) BRINE GATE VALVES AT THE RR JACK & BORE: 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) HORIZONTAL DIRECTIONAL DRILLING CASING PIPE: 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) HORIZONTAL DIRECTIONAL DRILLING BRINE PIPE: 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) CARV VALVE TAG NUMBER: 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
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:			

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		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.			
		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.			

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		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
		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	Bidder Question Log

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		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	Bidder Question Log
		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		Bidder Question Log
		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.		Bidder Question Log
		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	Bidder Question Log
		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	Bidder Question Log
		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	Bidder Question Log
		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	Bidder Question Log
		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	Bidder Question Log
		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	Bidder Question Log
		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	Bidder Question Log
		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	Bidder Question Log
San Joaquin Electric	11/2/2020	1. Please reference the conduit schedule.	It is acceptable to use 600V cable for the ground wire for the medium voltage runs.		
		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.		11/10/2020	Bidder Question Log

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		2. Please reference the duct bank sections on 00E-05-01 thru 00E05-03. 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.	Refer to Delta diablo WTP conduit schedule on Contract Drawing 25E05.30 for the 900 series conduit schedule. WTP conduit schedule has been updated to include	11/10/2020	Addendum #4
		3. Please reference the Water Treatment Plant Conduit Schedule.	Spare conduits do not need any ground cables	11/10/2020	Bidder Question Log
		There are multiple occurrences where spare conduits with pull ropes are also called out to have ground wire. Please clarify.			
		4. Please reference the Water Treatment Plant Conduit Schedule.	Conduit Schedule is being updated for Addendum 4.	11/10/2020	Addendum #4
		There are multiple occurrences where the conduit size column shows "#####". Please advise.			
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" BFV 521, which is a stainless steel butterfly valve.	11/10/2020	Bidder Question Log
		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	Bidder Question Log
		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	Bidder Question Log
		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	Bidder Question Log
		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	Bidder Question Log
		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.			Bidder Question Log
		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	Bidder Question Log
		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

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		15) <u>REPLACE EXISTING AIR VALVE PIPING</u> : 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	Bidder Question Log
		16) <u>REFERENCE DRAWINGS</u> : 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	Bidder Question Log
		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	Bidder Question Log
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	Bidder Question Log
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	Bidder Question Log
		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

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		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
		6. (Spec Section 16130-10 3.03 B.17.a, Spec Section 16133-6 3.03 H.1 Drawing 00GE00-01) <u>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.</u>	Correct, all underground conduit, unless specified should be installed in concrete-reinforced ductbank	11/10/2020	Bidder Question Log
		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) <u>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?</u>	Yes, all unground conduits will need to be concrete-reinforced ductbank	11/10/2020	Bidder Question Log
		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	Bidder Question Log
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	Bidder Question Log
		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	Bidder Question Log
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 <i>00400 Bid Form</i> - Bid Items 13,14 and 16 are 1 LS which does not match the "Bid Schedule" in <i>Section 00510 Agreement</i> 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

Date	Company Name	Question(s)	Response	Date of Response	How Responded
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	Bidder Question Log
		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	Bidder Question Log
		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	Bidder Question Log
		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	Bidder Question Log
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	Bidder Question Log
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	Bidder Question Log
		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	Bidder Question Log

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		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	Bidder Question Log
		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	Bidder Question Log
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.			
		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	Bidder Question Log
		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	Bidder Question Log
11/3/2020	Keiwi	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

Date	Company Name	Question(s)	Response	Date of Response	How Responded
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	Bidder Question Log
11/3/2020	San Joaquin Electric	1. Please reference drawing 25E10-06.			
		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

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		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
		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.

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		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	Bidder Question Log
		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	Bidder Question Log
		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
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	Bidder Question Log
		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	Bidder Question Log
		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	Bidder Question Log
		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	Bidder Question Log
		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	Bidder Question Log
		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	Bidder Question Log

Date	Company Name	Question(s)	Response	Date of Response	How Responded
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	Bidder Question Log
		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	Bidder Question Log
		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
		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	Bidder Question Log
		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	Bidder Question Log
		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	Bidder Question Log
		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	Bidder Question Log
		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	Bidder Question Log

Date	Company Name	Question(s)	Response	Date of Response	How Responded
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
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	Bidder Question Log
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 Permatector or the Loren Cook Lorenized finishes are acceptable.	The Greenheck Permatector coating or an equivalent will be acceptable.	11/10/2020	Bidder Question Log
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	Bidder Question Log

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		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	Bidder Question Log
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	Bidder Question Log
		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
		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	Bidder Question Log
		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

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		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
		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	Bidder Question Log
		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	Bidder Question Log

Date	Company Name	Question(s)	Response	Date of Response	How Responded
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	Bidder Question Log
		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	Bidder Question Log
		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.			
		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	Bidder Question Log
		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	Addendum #4
		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	Addendum #4
11/6/2020	Blocka	01140 - 6, Paragraph 4. states "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	Bidder Question Log
		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	Keiwi	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

Date	Company Name	Question(s)	Response	Date of Response	How Responded
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	Bidder Question Log
		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	Bidder Question Log
		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	Bidder Question Log
		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	Bidder Question Log
		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	Bidder Question Log
		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	Bidder Question Log
		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	Bidder Question Log

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		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	Bidder Question Log
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	Bidder Question Log
		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	Bidder Question Log
		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
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/rriinsurance/index.htm) lists insurance that will be required.	11/10/2020	Bidder Question Log
		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.		

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		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		Bidder Question Log
		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	Bidder Question Log
		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.			
		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	Bidder Question Log
		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

Date	Company Name	Question(s)	Response	Date of Response	How Responded
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	Bidder Question Log
		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.			
		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
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?	CARV=combination air release and vacuum valve. 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

Date	Company Name	Question(s)	Response	Date of Response	How Responded
11/10/2020	Balfour Beatty	The Addendum #3 has confused our team. The revisions to the Hazardous Material direct us to not expect any hazardous materials, yet you have left the Hazardous Dirt and Water items in the bid form. Are we to simply include the costs of testing and monitoring now?	Hazardous materials are not anticipated to be encountered as part of the demolition work. Hazardous dirt and water are expected at the River Pump station which is what the bid form covers. The title to the hazardous materials survey paragraph for demolition work was revised in Addendum #4 to clarify.	11/19/2020	Addendum #4
11/10/2020	JB Water	There are some questions on the support for the tube settlers			
		Need more information on the existing structure to determine the existing supports	Additional information for tube settlers was provided in Addendum 4.	11/10/2020	Addendum #4
11/11/2020	ACCOES	I noticed on 25M29 the 30" BFW header from the pumps is called out as S5 (Sch 10S 316L SST), however, on the pipe schedule S5 is limited to 12" & 16". Should this be called out as S4 (Sch 40S 316L SST) or is it in fact Sch 10S?	Correct, it should be S4. Corrected in Addendum #6	11/19/2020	Addendum #6
11/11/2020	Underground Solutions	With respect to the "Brackish Water Desalination Project" in Antioch, on sheets P26, P27, & P28 there is a 28" DR9 HDPE casing called out for a Horizontal Directional Drill. We provide Fusible PVC pipe and we've been asked by multiple contractors about using Fusible PVC for this casing. Would Fusible PVC be allowed for this casing?	Bid project as specified.	11/19/2020	Bidder Question Log
11/11/2020	Blocka	Regarding Item 1 - Section 00400, Bid Forms			
		In reviewing Addendum 4, it is noted that Attachment M - Certification of System Integrator Experience and Qualifications is listed twice. It is shown as required to be submitted with the bid, and also shown as submitted by the three low bidders (4) business days following the bid opening. The Q&A appears to indicate that Subcontractor Qualifications may not be submitted post bid.			
		Can you please confirm if Attachment M is required to be submitted by all bidders with the bid or only submitted by the three low bidders, post bid.	Attachment M must be submitted by 3 pm on Bid day. Clarified in Addendum #6.	11/19/2020	Addendum #6
11/11/2020	Blocka	Can you please extend the bid date? Addendum 4 completely revised 29 pages of conduit and wire schedules. This is massive change with less than 1 week to incorporate all of these changes. You will get very high bids if you don't extend the bid date.	Bid opening extended to 12/2/20	11/13/2020	Addendum #5
11/12/2020	Haskell	Could we please get a native version of the schedule that was in the pre-bid presentation (page 60)? The font is hard to read.	Native version not available.	11/19/2020	Bidder Question Log
11/12/2020	AqueoUS Vets	We are in receipt of Addendum 4, noting that an equivalent product from Cabot Norit is an approved equal for the GAC filter media:			
		Cabot tells me that they do not have a catalytic carbon. Catalytic carbon is not specifically noted in the specs, only by way of listing the Centaur 12x40.			
		Cabot's recommended GAC media that is standard for this application is the GAC 400 (12x40). <u>Please confirm that GAC 400 is considered an equivalent product from Cabot Norit Corporation for this Antioch project.</u>	GAC 400 (from Cabot Norit Corporation) is considered an equivalent product to the Centaur 12x40 (made by Calgon) for the GAC Contactor included in this project.	11/19/2020	Bidder Question Log

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11/12/2020	Overaa	The responses in addendum #4 lead to more unanswered questions or clarifications needed. The amount of bid document language mentioned to replace wording in the bid files in the first three pages of addendum #4 and with the large amount of responses to bidder questions could you please reissue the bid docs conformed with all of the changes mentioned in all addenda including the Q & A responses and also considering all of the below?	Conformed drawings and specifications will be prepared after the construction contract is awarded.	11/19/2020	Bidder Question Log
		Escrow Bid Docs spec 00200, Article 39.11 mentions Section 00400, Bid Form, Attachment N, BID DOCUMENT CERTIFICATION, an Escrow Bid Document certification cannot be found in please provide?	Bid Document Certification has been added as Attachment Q in Addendum #6.	11/19/2020	Addendum #6
		Per addendum #4 replaced language, documents due with bid Attachment N and Attachment O are the older versions of the attachments F and G and would only provide duplicated information, please consider deleting Attachments N and O?	Attachments N and O are different than E and F. All are required for the SRF loan. They must be completed as specified.	11/19/2020	Bidder Question Log
		Addendum #4 , page 1 - States "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 DBE form attachment F would only be applicable should a firm be a DBE and attachment G would be completed by the GC only not a subcontractor. Also, Clarify if attachment H - Consolidated Appropriations Act Buy American Iron and Steel Certification is required of only the GC and not the subs?	Yes, all DBE subcontractors must complete Attachment F as specified, Attachment G must be completed by the prime Contractor (Bidder) as specified, and Attachment H must be completed by the Bidder as specified.	11/19/2020	Bidder Question Log
		Spec 00400 – G2, question #3 – It would be nearly impossible to include the DBEs amount(s) and percentage of total bid at bid time. Can document Attachment G – 1 be submitted in its entirety in the post bid 4 business day submittal?	Understand the difficulty. Submittal of Attachment G-1 has been changed to 4 days after bid in Addendum #6.	11/19/2020	Addendum #6
		Addendum 4 page 2 provides two timeline for attachment M to be submitted, we are requesting all subcontractor qualifications attachments J, K L and M be submitted with the post bid 4 business day deadline?	Attachment M must be submitted with bids. Correction has been made to the timing shown in 00400 in Addendum #6.	11/19/2020	Addendum #6
		1. 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?	BBK: Section 00700-4.05.A does not address change order relief in relation to changes in the law – it solely addresses the contractor's obligation to comply with all applicable laws. The bidder is directed to review the change order related provisions in the contract documents including Section 00700, Article 9.	11/19/2020	Bidder Question Log
		1. 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".	BBK: This is not a question. This is a correct summary of what Section 00700-9.02.G.1.b states.	11/19/2020	Bidder Question Log
		1. 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".			

Date	Company Name	Question(s)	Response	Date of Response	How Responded
		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.	BBK: The bidder is directed to review Section 00300, Article 2 of the Contract Documents, which directly addresses reliance on all subsurface investigation results provided to bidders. The City will follow the requirements of its contract documents and applicable law in evaluating any claims regarding differing site conditions on the Project.	11/19/2020	Bidder Question Log
11/13/2020	Blue-White Industries	Section 11245 Liquid Chemical Peristaltic Tube Metering Pumps, associated plan drawings, P&ID, and Pipe Schedule G18, G19.			
		Skid piping material on drawing and P&ID calls for P1 (PVC). Listed on Pipe Schedule lists: Sodium Bisulfite, PVC/PFA lined Scale Inhibitor, PFA Calcium Chloride, PVC We will assume piping for skids is PVC(P1) as called out on drawing, unless responded to otherwise.	Skid piping is Schedule 80 PVC (P1) for the following skids: Sodium Bisulfite, Scale Inhibitor, Calcium Chloride, and Polymer.	11/19/2020	Bidder Question Log
		Section 11242, Skid Mounted Liquid Chemical Diaphragm-Type Metering Pumps. 2.06.A.3. Skid Mounting -- Safety Enclosure: Furnish skid with a protective safety enclosure. We can not locate any details on this enclosure. Please direct to section or drawing. A typical enclosure would extend skid walls to all side with hinged acrylic doors and the front. Is this acceptable?	Paragraph 2.06.A.3 was deleted from the project by Addendum No. 6. There is no longer a requirement to furnish the skids with a protective safety enclosure.	11/19/2020	Addendum #6
		Confirm sulfuric acid skid piping requirements as (S9) Alloy 20 SS. Will PVDF or PFA be an acceptable "cost saving" option?	Alloy 20 stainless steel (S9) is the required piping material for the sulfuric acid skid piping material. PVDF and PFA are not acceptable alternatives for the Alloy 20 piping.	11/19/2020	Bidder Question Log
11/16/2020	ITT Goulds	Section 11312D Raw Water (21.0301,2,3) and Brackish Water (PMP-25.0001,2,3), RO Feed (PMP-25.00101,201,301,401), RO Inter-Stage Booster (PMP-25.0104,204,304,404) .			
		Equipment selections meet intent of specifications and respectfully request to be added to listed manufacture for section 11312D.	Added in Addendum 6.	11/19/2020	Addendum #6
11/17/2020	Emcor	There is reference in the specifications to use of a pre-approved systems integrator for the project. However no list is provided. Please provide a list of pre-approved systems integrators.	There is no pre-approved list of system integrators. Qualifications for system integrators are specified in Section 00400.	11/19/2020	Bidder Question Log
11/17/2020	San Joaquin Electric	Regarding the access covers for the vaults in the roadways (02581-8 paragraph 3), please provide the load level for the 36x36 handhole covers (reference Vault Schedule on 00E04-04 and detail EM056) per ASTM C1802 which is attached for reference.	Covers shall be design for roadway loading as shown on the Electrical Handhole and Manhole Schedule.	11/19/2020	Bidder Question Log
		The Access Covers spec on 02581-8 paragraph 3 references spec 08320 – Floor Access Doors; however, this is not included in the bid documents. Please provide.	Reference to spec section 08320 is deleted in Addendum #6.	11/19/2020	Addendum #6

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11/17/2020	Overaa	Regarding the automatic gate on sheet 100 note 12. There is very little information about the proposed operation such as a sequence of operation and things like loos,UL325 etc. Please define the expectation.	Refer to specification section 11294B for details about sluice gate design requirements.	11/19/2020	Bidder Question Log
11/17/2020	Balfour Beatty	Will the City of Antioch be addressing the status/deletion of the "Consequential Damages" provisions as outlined in the Travelers letter dated Oct 30, 2020 in the Contract documents? As a publicly traded company we have internal and external approvals, and as the Contract language stands currently we will be unable to bid on your project if that provision does not get deleted or acceptably modified.	Pending.		
11/18/2020	Balfour Beatty	1) 01140-6 - Paragraph 4. -"Temporary Generators shall be provided by Contractor to operate Plants A and B to meet potable water demands as needed". It appears that at that time there are other processes that will be shut down as well. Therefore the entire plant probably does not need to be put on backup generator power. Please clarify.	Correct that Plants A and B will be shut down during part of the time the generators will be deployed. The plant SCADA system, sample pumps, analyzers, and other small loads need to remain in operation when the plants are not on line. The City also needs the flexibility to bring the Plants on line quickly if needed, so the full size generators are needed as specified.	11/19/2020	Bidder Question Log
		2) Add No 3-3.a.1 states "(To Be Submitted with Bid no later than 3 pm the day Bids are due)". The bids are due at 2 pm. Please clarify the intent of when the bids and Attachment J are due.	Attachment J,K,L, and M are due before 3 pm on the day of bid as specified. Attachment M was inadvertently shown to be due within 4 days following bid. This has been corrected in Addendum #6.	11/19/2020	Addendum #6
		3) Attachment M – Certification of System Integrator Experience and Qualifications is to be submitted with our bid, but in the same section, it says it is due within 4 business days after the bid.	Attachment M is due by 3 pm on bid day. This has been corrected in Addendum #6.	11/19/2020	Addendum #6