Dry Creek Water Reclamation Facility Dewatering Improvements Construction
2020RPI01-B02
Addendum 04

To: All Prospective Bidders
From: Bryce Dorr, BOPU
Date: 10/29/2020
Subject: Addendum 04 for the DCWRF Dewatering Improvements Construction

The changes, clarifications, omissions, additions, and/or alterations in, on, and to the bid information and specifications shall apply to the Advertisement for Bid submitted for and to the project indicated above. Except as modified by this Addendum 04 and previous addenda, all the terms and provisions of the bidding documents for the above listed project remain in full force and effect. This Addendum 04 supersedes all previous instructions pertaining to the items listed:

Addendum 04 for the DCWRF Dewatering Improvements Construction consists of 3 total pages and includes the following changes/additions:

1. The Bid Opening date will be delayed one week from Thursday, November 5, 2020 to Thursday, November 12, 2020 at 2:00 pm local time. The deadline for questions will be extended to Tuesday, November 3 at 5:00 pm local time. Any final addenda will be issued by Friday, November 6, 2020.

2. Questions and answers:

   a. Q: Do the iFix servers at Crow Creek and Dry Creek use USB “dongle” license keys or file license keys?
      A: The servers use USB license keys.

   b. Q: Refer to sheet 29 of 48 (100-D-3001). Can you find out from the engineer where the 6” pneumatic plug valves shown on 100-D-3001 are intended to be placed? They are not shown in the views on 100-D-3002 or 100-D-3003. The only place they show up is on the note shown below.

      A: On Drawing 100-D-3001, strike the callout “ 6” V405 w/ pneumatic actuator, typ of 2” as those valves are already called out as FV-8011 and FV-8021. Also, modify the two valve schedules in Section 40 27 02, Supplement as noted below:
1. In Section 40 27 02, Supplement 1, Electric Actuated Valve Schedule, change tag number 351 to 8101 and tag number 352 to 8201.

2. In Section 40 27 02, Supplement 1, Pneumatic Actuated Valve Schedule, change tag number FV 380 to FV 8011 and tag number FV 382 to FV 8021.

c. Q:
   1. Page 40 90 00-27 call for a compact logic processor to be L69-L24ER-QB1B which has 16DI and 16DO on board and the spec calls for additional I/O cards needed to meet 25% spares (40-90 00-2). This appears to match the I/O listed on 40 90 00 supplement I/O list.
   2. But the Suggested BOM 40 90 00 03-2 call out for 1769-L33ER processor with 15 I/O modules
   3. Which specification is correct please? 1769-L33ER Can HVAC work start during phase 1?
   A: 1769-L33ER

d. Q: The control panel schedule 40 90 00 supplement 3 Panel schedule says Nema 12 under the rating column, but in the notes it says stainless.
   A: NEMA 12 is sufficient.

e. Q: The dimensions shown on the panel schedule 72x34x18 and “suggested” BOM 40 90 00 03-2, (72x34x18), indicate floor mounted control panel. But the note on the panel schedule says “all dimensions are approximate, layout according to space required. The space required is much smaller and a wall mount panel may be adequate.
   A: Size panel for available space.

f. Q: Sheet 36 of 38 note 11 mentions floor mount enclosure.
   A: Provide floor mount control panel with minimum dimensions shown. There is a conduit between the existing panel PLC-D2 and the microwave radio enclosure which was not identified on the design drawings. Replace conduit and stub into the side of the new enclosure.

g. Q: Is there additional or future I/O not shown on the I/O list 40 90 00 for which this enclosure is being sized?
   A: New panel should be sized for all new and existing I/O plus 25% wired spares.

h. Q: Please clarify the required Nema rating and size required.
   A: See above.

i. Q: Is there a specification for the alarm beacon/horns?
   A: No, specify horn to be appropriate for the area and classification where horns are to be installed (24VDC is indicated on P&IDs).

j. Q: Sheet 19 – Are the horn / strobes shown on this page existing or do we need to provide those? If we are to provide them, is some specs related to them?
   A: Horn/strobes are new. Provide as scope of this project. Refer to Section 40 90 00 Instrumentation and Control for Process Systems.

k. Q: Sheet 19 – PLC-D2-RIO is listed at the top of the drawing? I am assuming the RIO part of that might be a typo. Unless there is an existing RIO. Should that say just PLC-D2?
   A: PLC-D2 is correct.

l. Q: Sheet 21 – How much is involved in the Demo of the 9 gas-fired heaters? Do we have to demo conduit and wire back to the power panels feeding the heaters or just disconnect the heaters and abandon the wire and conduit?
   A: Demolish wire to source. Demolish accessible conduit. See specification 02 41 00 Demolition.

m. Q: Sheet 32 – Are the three TITs shown on the page existing or do we need to provide those? If we are to provide them, is some specs related to them?
   A: Those are to be provided new. See specification 23 09 13 HVAC Controls Field Components and Instruments.

n. Q: Sheet 36 – Mentions an air flow / gas alarms (note 4), do we provide those? If we are to provide them, is some specs related to them?
   A: Combustible gas detection is to be provided. See instrument data sheets in Specification 40 90 00 Instrumentation and Control for Process Systems.
o. Q: Sheet 40 – What panel is this?
   A: See symbol legend 001-G-7002 and one-line drawing 100-E-6002. Control diagram V1 is for the new exhaust fan AFD-PRV7.

p. Q: Section 40 90 00, Part 1, 1.02, A. States that there are 9 PLCs and only implies that D1 and D2 are still SLC 5/05s. Have any of the other 7 PLCs (D3 to D9) been upgraded to either CompactLogix or ControlLogix? And if so, what version of Studio 5000 is being used in each?
   A: PLC-D2 is the only PLC being upgraded at this time.

q. Q: Where is Spec 44 xx xx documents?
   A: The screw press specification is 44 46 26. This is included in the supplemental document in Section 01 64 00 which is the Huber contract. If looking at the PDF of the specifications, Section 44 46 26 starts on page 336 of 936.

r. Q: We’ve found references for the new PLC_D2 to be a 1769-L24ER-QB1B and to be a 1769-L33ER. Which is the correct requirement?
   A: 1769-L33ER.

s. Q: Several places it’s stated that FV-8012 and FV-8022 are gate valves being repurposed. Which 2 gate valves are being “removed” to be used for the repurposing?
   A: The gate valves that are being repurposed are on the existing centrate lines. These valves will be from the portion of the centrate line that is being demoed per drawing 100-X-4002. The following Note should be added to the Item 4 of phase 1 and item 5 of phase 2 on 100-X-4002: “Salvage the gate valve and actuator to be repurposed per process drawings.”

t. Q: What does FDT mean on the PLC Control panel schedule?
   A: FDT is Factory Demonstration Test. Replace with “FAT – Factory Acceptance Test”.

u. Q: In the Addendum-01, page 473, point 4. Software for the Screw Press PLCs are listed as “Latest Version”. What version is/has Huber used? (This affects the iFIX IGS driver version and determines if an update is needed.)
   A: Assume programming software for Huber is the most current available Rockwell software available as of 10/31/2020. Also note that the Owner is using iFix 5.8 and their IGS driver is version 7.521a.

v. Q: PLC-D2 Expansion: The dimensions shown on panel schedule 72x34x18 and suggested BOM in spec 40 90 00 03-2 indicate floor mounted control panel. Note on the panel schedule says “all dimensions are approximate, layout according to space required.” The space required is much smaller and a wall mount panel may be adequate.
   A: Provide floor mount control panel with minimum dimensions shown. There is a conduit between the existing panel PLC-D2 and the microwave radio enclosure which was not identified on the design drawings. Replace conduit and stub into the side of the new enclosure.

w. Q: Is it possible to push the bid date by a week?
   A: Yes, see item 1 above.

x. Q: Will Victaulic grooved plug valves be acceptable for use on this project?
   A: Yes, Victaulic connections are allowed.

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End of Addendum 04