



Procurement Department Bid Office  
Customer Center – 1<sup>st</sup> Floor, Room 002  
21 W. Church Street  
Jacksonville, Florida 32202

June 19, 2019

ADDENDUM NUMBER: Four (4)

TITLE: Buckman – 5301 Buffalo Ave – Class IV Pump Station Rehabilitation

JEA IFB NUMBER: 088-19

PROPOSAL DUE DATE: ~~June 18, 2019~~ June 25, 2019

TIME OF RECEIPT: 12:00 PM

TIME OF OPENING: 02:00 PM

**THIS ADDENDUM IS FOR THE PURPOSE OF MAKING THE FOLLOWING CHANGES OR CLARIFICATIONS:**

**1. JEA is providing the additional documents listed below:**

- 088-19 Addendum 4 Appendix A - C-6.0
- 088-19 Addendum 4 Appendix A - S-7.0 Rev
- 088-19 Addendum 4 Appendix A - S-11.0 Rev
- 088-19 Addendum 4 Appendix A - S-13.0 Rev 2

**2. JEA is issuing the following Changes to the Drawings provided in 088-19 Appendix A – Drawings:**

- a. Sheet G-5.0: For Service Pumps 1, 2 and 3, delete the descriptive text: “4,800 GPM @ 27’ TDH” and add the following descriptive text: “3,125 GPM @ 40’ TDH”.
- b. Sheet C-6.0, Detail D: Delete the callout text: “4-inch layer of crushed stone” and add the callout text “4-inch layer of compacted stone (FDOT size No. 57)”. See attached revised drawing.
- c. Sheet M-3.0: Add the following note: “2. Contractor shall remove and properly dispose of existing 3-ton, manual trolley and hoist assembly.”
- d. Sheet S-4.0, Delete Key Note 3 in its entirety.
- e. Sheet S-7.0, Section 1: For each footing, add the callout text: “8 inches compacted #57 stone under footing; extend 12 inches beyond footing edges, typical”. See attached revised drawing.
- f. Sheet S-09, Room Finish Schedule, Revise Note 1: “All interior surfaces shall be painted with Interior Masonry or Concrete System per Specification 09900”.

**Acknowledge receipt of this Addendum on the Proposal Form (Appendix B)**

- g. Sheet S-11.0, Detail E: Delete the callout text: “compacted subgrade” and add the callout text “8 inches compacted #57 stone under slabs; extend 12 inches beyond slab edges, typical”. See attached revised drawing.
- h. Sheet S-13.0, Detail E: Add the following note: “2. Place slab over 8 inches compacted #57 stone, which is placed over one layer of geofabric (Mirafi 150N).”. See attached revised drawing.
- i. Sheet I-2.0: For all three Service Pumps, delete the descriptive text: “4,900 GPM @ 29’ TDH” and add the following descriptive text: “3,125 GPM @ 40’ TDH”.

**3. JEA is issuing the following Changes to the Specifications provided in 088-19 Appendix A – Technical Specifications:**

- a. Section 01100 SUMMARY OF WORK: In Paragraph 1.02.g, replace the words “hoist and trolley” with the following words: “2-ton, electric hoist and trolley assembly”.
- b. Section 01200 MEASUREMENT AND PAYMENT:
  - 1. Add the following to Paragraph 1.04.A: “7. **Item 31 – A-3 Sand:** Payment will be based on the actual cubic yards of uncompacted, Type A-3 fill material that is imported to the site, properly installed and compacted. Prior to importing fill material, CONTRACTOR shall coordinate with ENGINEER as to the locations and extent of fill required for trench backfill areas, subbase repair areas, and general site grading needs where existing site fill material is unsuitable.”
  - 2. Add the following to Paragraph 1.04.A: “7. **Item 32 – 57 Stone:** Payment will be based on the actual cubic yards of uncompacted, FDOT No. 57 stone that is imported to the site, properly installed and compacted. Prior to importing stone material, CONTRACTOR shall coordinate with ENGINEER as to the locations and extent of crushed stone required for bedding material beneath buried valves and for base material beneath concrete sidewalks and slabs.
  - 3. Add the following to Paragraph 1.05: “C. Payment for all other items shall be in accordance with schedule of values developed in accordance with JEA Contract Documents”.
- c. Section 11400 VERTICAL DRY PIT SOLIDS-HANDLING PUMPS:
  - 1. For Paragraph 2.03.A.3.b, delete the words “constant speed with soft starters” and replace with the words “variable speed with VFD controllers, as required by the service pump manufacturer”.
  - 2. For Paragraph 2.03.B.3.b, delete the words “soft starters” and replace with the words “full voltage non-reversing starters”.
- d. Section 16442 PANELBOARDS:
  - 1. Add the following to Paragraph 2.02.A.: “2. Siemens Industry, Inc.”.
  - 2. Add the following to Paragraph 2.03.A.: “2. Siemens Industry, Inc.”.
  - 3. Add the following to Paragraph 2.04.A.: “2. Siemens Industry, Inc.”.
  - 4. Add the following to Paragraph 2.05.A.: “4. Siemens Industry, Inc.”.
- e. Section 16910 CONTROL PANEL CONSTRUCTION:

**Acknowledge receipt of this Addendum on the Proposal Form (Appendix B)**

1. Add the following to Paragraph 2.01.A.: "6. DSI Innovations".

**4. JEA is responding to the following questions as shown below:**

**1. Question:**

Is the existing 24" Gate Valve on the East side of the building on the discharge yard piping (Sheet C-3.0) operable?

**Answer:**

Yes, this valve is operational.

**2. Question:**

The measurement and payment section of the specifications (01200) only includes the concrete repair bid items A through E and the Non-Destructive Testing (NDT). Please provide all of the other remaining bid items in the measurement and payment specification section.

**Answer:**

See revisions to Section 01200 above.

**3. Question:**

Item "g." in the summary of work states that the contractor is to "Rehabilitate the existing monorail lift system, including hoist and trolley." Note 5 on drawing S-5.0 states to "Paint existing wide flange monorail support beams and monorail. Beams occur at 4 locations. Paint all existing hardware and embedment plates at wall connections. See division 9 specifications for surface preparation and painting system." Please confirm that the intent of item g. in the summary of work is to only perform painting. If further "rehabilitation" to the monorail/hoist system and trolley is required, specifications for the specific rehab work would be needed.

**Answer:**

The monorail and support beams shall be sandblasted and painted, per Sheet S-5.0. The existing 2-ton, electric trolley and hoist assembly shall be sandblasted, painted, lubricated, and the chain replaced with a new, 316 stainless steel chain of 2-ton lift capacity and 40-foot travel length (from low to high hook positions). Contractor shall field verify the required chain length prior to order. See revision to Specification Section 01100 above.

**4. Question:**

Would Siemens be included in the acceptable manufacturer's list for LV Panelboards?

**Answer:**

Yes, see revisions to Section 16442 above

**5. Question:**

See Note 5 on Dwg G-2.0 under Permit Requirements. Since there is no solvent contamination identified in the contract documents, please confirm that the cost and time impacts of the discovery of solvent contamination would be outside of the current contract scope of work.

**Answer:**

Cost and schedule impacts related to soil solvent contamination is not in the Contract scope.

**6. Question:**

**Acknowledge receipt of this Addendum on the Proposal Form (Appendix B)**

Which supplier is responsible for supplying the Generator I/O Panel from drawings E-10.10

**Answer:**

The Contractor is ultimately responsible for all components in the specifications and drawings. JEA will accept the panel manufacturer, who is responsible for coordinating with the generator manufacturer for meeting these requirements.

**7. Question:**

Where is the location for the power monitor shown on drawing E-10.19? Is there more than 1 required for this project?

**Answer:**

Power monitor shall be installed within a bucket on the motor control center with necessary wiring between the motor control center and main control panel.

**8. Question:**

REF: Sheet M-13.0 – Is the intent to re-use the existing wall thimbles for the new gates? There does not appear to be enough space in the existing channel to install a new frame around the existing wall thimbles.

**Answer:**

Yes, it is intended that the existing gate thimbles be modified as needed and reused. The condition of the existing wall and gate thimbles will be assessed during construction. CONTRACTOR shall provide dimensioned installation drawings (including liner disturbance and repair approved by the liner manufacturer during installation) for JEA approval.

**9. Question:**

REF S-3.0, Screen Room 105 – After screens are demolished, what is to be done with the openings that remain?

**Answer:**

Provide tread plate over the screen openings as shown on Detail D/S-8.0, similar to that being provided at the locations indicated on sheet S-3.0. The existing concrete shall be chipped and grinded down to provide a smooth surface level with the surrounding concrete.

**10. Question:**

REF: S-4.0, Key Note 3 – Please indicate where the “existing recess at screens” are. Also, the referenced detail is of stair nosings; please provide direction.

**Answer:**

This note is no longer applicable and has been deleted. See revision to Sheet S-04 above.

**11. Question:**

REF: 09900.2.02.A – This section refers to SSPC-SP13 for surface preparation and a block filler. Is it the intent of engineer to remove all existing coatings (floors, walls and ceilings)?

**Answer:**

Yes all coatings for all surfaces shall be removed and reapplied as shown in the drawings and specifications. The building exterior walls, doors and elevated walkways shall be pressure washed near the end of the construction period, prior to substantial completion.

**Acknowledge receipt of this Addendum on the Proposal Form (Appendix B)**

**12. Question:**

REF: S-9.0, Room Finish Schedule, Note 1 – All interior surface shall be painted with exterior grade paint system per specification 09900. Specification 09900 has an Interior Masonry or Concrete System 2.02-B. that would be more suited for this application in a Pump Station environment. Which system does the engineer want to use?

**Answer:**

The referenced application shall be the paint system for interior masonry or concrete per Specification Section 09900. See revision to Sheet S-09 above.

**13. Question:**

In reference to the H2S (LEL) Detection system:

- a. The E series drawings reflect a H2S detection system in the building, however in the MCP and I series drawings, there are no further details to the signals that will be required. Please provided details on the signals required.
- b. Are there any special requirements, other than those specified in section 16950, for the complete unit, i.e. connection to the Fire Alarm system?

**Answer:**

- a. The H2S sensor shall be provided with a local indication and readout only (located on the exterior of the east building wall, adjacent to the wetwell entry door, as shown on Sheet E-3.2).
- b. No additional requirements.

**14. Question:**

In reference to the spares requirement in Section 16910 2.02 V Spares:

- a. Confirm that spares shall be "10% of all parts used, but no less than one each item", including components such as terminal blocks, fuses, breakers, etc.?
- b. Does this requirement apply to the VFDs, Radio Panel, and/or Power Monitor?

**Answer:**

Spare VFDs, Radio Panel, and Power Monitor are not required.

**15. Question:**

Please specify the required instrument for the Low Pressure Switch (PSL-300-2) on drawing I-3.0 as it could not be positively identified in the project specifications.

**Answer:**

Pressure switch shall be United Electric Controls 100 series or approved equivalent.

**16. Question:**

REF: PLC Panel E-10.1, review the following for consideration as comparable products suitable for substitution:

- a. Substitution of Part (I1) "Wago 2857-401" with "PR Electronics 4104"
- b. Substitution of Part (P1) "Wago 858-507" with "Finder 58.P4.8.120.0060SPA"
- c. Substitution of Part (Q1) "Wago 858-304" with "Finder 58.P4.9.024.0050SPA"
- d. Substitution of Part (R1) "Aurtronic AT8N-24-240" with "Macromatic TAA1U"
- e. Substitution of Part (S1) "NCC KMM-9999M-96M" with "Macromatic TD-78122"

**Acknowledge receipt of this Addendum on the Proposal Form (Appendix B)**

- f. Substitution of Part (A2) "Wago 2857-900" with "PR Electronics 4501"
- g. Substitution of Part (B2) "Wago 857-423" with "PR Electronics 3108-N"

**Answer:**

- a. Use of 9116B is acceptable
- b. Latest standard uses Finder 58P481205060 and it is acceptable
- c. Latest standard uses Finder 58P490245050 and it is acceptable
- d. Acceptable
- e. Acceptable
- f. Acceptable
- g. We prefer spring terminals. The 3108-N will be approved for use in addition to the 857-423 at the discretion of the panel manufacturer.

**17. Question:**

Drawing C-5.0 Paving, Grading & Drainage Note "E"; calls for the existing asphalt to be milled and sub-base and base to be restored. Please clarify the intent is only for the Contractor to restore the portions of sub-base and base as affected by the milling operations or as needed to achieve finish grades. Please confirm it is not the intent for the Contractor to excavate the existing the sub-base (12") and base material (12") to the extent as shown on Drawing C-6.0, Detail F and restore with new material.

**Answer:**

The presence of proper base material in the proposed paved and concrete areas is unknown, based on the findings of the project geotechnical report. It is the intent that the Contractor remove base and/or subgrade material as needed to (a) compact and/or confirm density of the 12" subgrade, and (b) install and compact the 12" limerock base to the required elevations prior to installing asphalt or concrete flatwork. Replacement of base material is not required for concrete surfaces beneath existing elevated docks and landings (see Drawing 5.0, Note H).

**18. Question:**

On drawing C-4.0, please advise if a line stop will be required to perform the permanent bypass connection (I/C-7.0).

**Answer:**

Contractor shall determine the means and methods to install the permanent bypass piping connection depicted in Drawing C-4.0. Contractor may use a line stop, drain the pipe, or any other approved method. Note that the pump station may be shut down for a period of 3 to 4 hours during nighttime hours, following JEA approval of a written shutdown plan that shall be submitted by the Contractor to JEA.

**19. Question:**

Can DSI Innovations be added to the Specifications as a JEA-approved panel builder in Section 16910, Part 2, 2.01, A.? We are currently on the JEA Approved panel builder list and have been listed on other recent bids.

**Answer:**

Yes, see revisions to Section 16910 above.

**20. Question:**

The duty conditions for the service pumps as shown on G-5.0 and I-2.0 do not agree with the information presented in addendum 2. Please confirm that the duty conditions in addendum 2 prevail.

**Acknowledge receipt of this Addendum on the Proposal Form (Appendix B)**

**Answer:**

See revisions to Sheets G-5.0 and I-2.0 above.

**21. Question:**

Regarding the “seal water / wash water system” specified in 11400, paragraph 2.03:

- a. A vertical multistage pump is specified for the seal water pumps. Is a vertical multistage pump also acceptable for the wash water pump in lieu of an end suction pump? Please see the attached pump curve for the equipment we are proposing.
- b. The spec requires a control panel for the seal water pumps and a control panel for the wash water pump. E-0.5 shows the seal water pumps being fed from a separate control panel, but it depicts the wash water pump as being fed from the MCC without a separate control panel. Other electrical drawings (E-3.1, E-3.2) also appear to show a seal water panel but no wash water panel. Information in division 16 appears to indicate that the seal water pumps and wash water pump will be controlled by the main control panel. Can you provide clarification as to what is expected with regards to local control panel(s) for the seal water pumps and wash water pump?
- c. The 11400 spec requires VFDs for the seal water pumps. Division 16 does not appear to provide control strategy for variable speed operation. Can you confirm what is required?
- d. The 11400 spec requires a soft start for the wash water pump. This is not consistent with E-0.5, which shows a FVNR starter in the MCC for the wash water pump. Please clarify what is required.

**Answer:**

- a. End suction centrifugal as specified shall be provided.
- b. The seal water pumps and seal water control panel shall be a complete system furnished by one vendor/manufacturer. The wash water pump motor shall be provided with a full voltage non-reversing starter furnished within the Motor Control Center and controlled by the Main Control Panel.
- c. The seal water pump features and control strategy shall be as required by the service pump package provider to meet the sealing and flushing needs of the specified mechanical seals. Constant speed motors with FVNR starters are acceptable, unless the service pump manufacturer requires VFDs for compatible service. See revision to Section 11400 above.
- d. An across-the-line FVNR starter shall be provided per E-0.5. See revision to Section 11400 above.

**22. Question:**

The electrical drawings make reference to vibration sensors. There is no mention of vibration sensors for the service pumps in spec section 11400. Please clarify if vibration sensors are required for the service pumps, and if required please provide details.

**Answer:**

Vibration sensors will not be required for the pumps. All unused I/O within the main control panel will be treated as spare I/O.

**23. Question:**

Reference Addendum #2 question #21: Key Safety, Inc. the roof rail does not come in Aluminum.

**Answer:**

Any alternatives will be considered. A suggested manufacturer for aluminum railing is Uline of Pleasant Prairie, WI.

**Acknowledge receipt of this Addendum on the Proposal Form (Appendix B)**

**24. Question:**

Are the W8 x 21 Beams and the W12 x 35 Beams shown on S-2.0 new or existing?

If they are new and part of this project, what is their purpose and do they require a coating?

**Answer:**

The referenced beams are proposed, not existing, to support pipe hangers for the overhead pump room piping. Refer to Sheet S-2.0, Note 3. See Specification Section 09900 for surface preparation and painting system.

**Acknowledge receipt of this Addendum on the Proposal Form (Appendix B)**