



Procurement Department Bid Office
Customer Center – 1st Floor, Room 002
21 W. Church Street
Jacksonville, FL 32202

September 23, 2022

ADDENDUM NUMBER: Three (3)

TITLE: Northside Generating Station Phase 2 Corrective Measures

JEA IFB NUMBER: 1410838446

PROPOSAL DUE DATE: ~~September 27, 2022~~ October 4, 2022

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:

JEA is extending the bid due date to October 4, 2022

JEA is providing the following forms:

1410838446 Addendum 3 Appendix B - Bid Workbook

1410838446 Addendum 3 Appendix C - Additional Files

1410838446 Addendum 3 Appendix C - Daily Flow Log

1410838446 Addendum 3 Appendix C - Outage Summary JEA NGS Sept 2022 Example

JEA is responding to the following questions as shown below:

1. Question:

If not already available, can the environmental testing reports be made available for review, so that we can understand the physical properties of the contaminates?

Regarding contaminated material to be removed from site: Can JEA provide all testing data used to determine the category of the contamination?

Answer:

The contaminates of concern (COCs) are nickel, vanadium, and arsenic. Contractor shall assume that all three COCs are present in all media which will be encountered (soil, sediment, groundwater, and surface water). Select tables and figures from the Phase 2 Corrective Measures Design and Work Plan: Surface Water and Sediment 100% Design Stage Revision 1 and the January 2022 Semi-Annual Year 3, Quarters 3 & 4 Corrective Measures Progress Report for SWMU 18 and AOC 3 are attached for reference.

Contractor shall be required to collect samples to adequately profile material that is proposed for off-site transport and disposal. Bid items No. 8 and 9 assume that the media is non-hazardous.

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

2. **Question:**

It was noted in the pre-bid meeting that de-mucking will occur for proper installation and bedding of the pipe. Will any additional de-mucking be required, outside the scope of proper pipe placement?

Answer:

Sediment removal (de-mucking) will only be required within the footprint of the existing ditch and the alignment of the elliptical concrete reinforced pipe (ERCP).

3. **Question:**

The contaminated material was declared to be non-hazardous and OSHA 40-hour Hazwoper is required by all working personnel on site. Are there any requirements for a Site-Specific Safety Plan prepared by an Industrial Hygienist? And/or is any air, water, or environmental monitoring to be provided during work related activities?

Answer:

The Contractor is responsible for preparing, implementing, and adhering to their Site Specific Health and Safety Plan in accordance with 29 Code of Federal Regulations Part 1910.120. JEA will require all employees and subcontractors performing contaminated material handling, earthwork, and subsurface work, including, but not limited to, installation of dewatering points, sheet piles, sediment removal, ERCP placement, to have OSHA 40 HAZWOPER training along with a current annual refresher certificate. JEA will waive the OSHA 40 HAZWOPER requirement for Contractor employees or subcontractors who will not be performing contaminated material handling, earthwork, or subsurface work (i.e., tree removal, material/equipment delivery, vegetation placement).

4. **Question:**

Are we permitted to remove any trees and vegetation as necessary to complete the proposed work?

Answer:

Yes, tree removal is required to complete the work. Trees requiring removal are noted on Drawing C-106. Smaller scrubs shall also be removed to complete the work. Cost for clearing and grubbing (including tree removal) shall be included in bid Item No. 5.

5. **Question:**

Will temporary sheet pile be allowed for use, at our discretion, to assist in by-passing existing ditch flow?

Answer:

As long as it is located within the work area and does not significantly contribute to the duration of work, especially when an outage is required, it will be allowed for use.

6. **Question:**

ERCP is more difficult to home correctly, due to frequent casting inconsistencies, when compared to round pipe. Could RCP (round) pipe be considered as an alternative?

Answer:

No.

7. **Question:**

What is the construction estimate for this project? Can you provide an engineer's construction estimate and/or budget for this project?

Answer:

The construction estimate, based on a conceptual design, is \$1,170,000.00.

8. Question:

Bid Items #3 and #4 are shown as “1 SF”. Is this correct?

Answer:

The units for bid items No 3 and 4 should be lump sum (LS). An updated bid form is attached.

9. Question:

Bid Item #7: Will we need to provide structural engineering for the temporary sheet pile wall??

Answer:

Yes, Detail 14 of Drawing C-107 indicates that the temporary sheet piling shall be designed by a professional engineer.

10. Question:

The 2' of fill material under the #57 stone for the Maintenance Road is specified to be course silica sand in accordance with FDOT 902-4. Would structural sand (A-3) (10% max fines) be considered as an alternate, acceptable material for this 2' fill section under the #57 stone? The processed sand with 2% max fines is challenging to acquire and is very expensive. This would be the same A-3 sand specified for use in bedding and backfilling the new ERCP.

Answer:

The fill material for the maintenance access road shall be in accordance with FDOT 902-4 or hydrologic soil group A.

11. Question:

We received the following note from a precast drainage supplier: Please keep in mind that these boxes appear to be too shallow for the pipe. Most of the holes for the 34" x 53" RCP pipe are into the top slabs. The typical hole required for a 34" x 53" pipe is 50"x 69".

Answer:

We have overlaid the 50-inch by 69-inch hole referenced by the precast drainage supplier on the cross sections provided on Drawing C-110 and C-111. The 50-inch by 69-inch hole overlay is shown as a gray dashed line on the sections provided in 1410838446 Addendum 3 Appendix C - Additional Files. We have also included the distance between the top of the 50-inch by 69-inch hole and the structure which is adequate for the proposed design.

12. Question:

We are unfamiliar with hydraulic system manufacturing and installation. Is JEA able to provide a list of approved vendors for this scope of work?

Answer:

ESD Waste2Water Inc. supported the installation of the hydraulic control system and currently supports routine operation and maintenance of the system. Alan Pierce is our point of contact. His email is alanpierce@waste2water.com. His phone number is 813-335-2521.

13. Question:

Is JEA able to amend the bid sheet so that the relocation of the hydraulic system can be shown as a contingency? This would allow the base bid scope to assume these existing hydraulic facilities don't need to be relocated.

Answer:

Bid items No. 16 and 17 have been moved to the Contingency and Project Management section of the bid form.

14. Question:

Can JEA confirm that our scope of work will NOT include the removal of hazardous materials? Should hazardous materials be encountered, a formal change order would be required to excavate, remove, haul and dispose.

Answer:

JEA cannot confirm that hazardous materials will not be encountered; however, based on the data available there is no reason to believe hazardous sediments, soils, or liquids are present. Should the samples collected to profile the material for off-site transport and disposal indicate hazardous characteristics, the Contractor shall immediately notify JEA to discuss a path forward, including the process for submitting a formal change order, if one is warranted.

15. Question:

Will a Site Specific Safety Plan prepared by an Industrial Hygienist be required?

Answer:

The Contractor is responsible for preparing and implementing a Site Specific Health and Safety Plan in accordance with 29 Code of Federal Regulations Part 1910.120. The Contractor's employees and subcontractors shall be JEA Safety Certified and shall meet the requirements specified in JEA's Health and Safety requirements

(https://www.jea.com/about/procurement/contractor_safety/safety_orientation_training/).

JEA is clarifying the following information:

1. Photos of the drainage ditch sharing during the pre-bid meeting are provided in 1410838446 Addendum 3 Appendix C - Additional Files.
2. Meskel Engineering & Associates conducted two standard penetration test borings adjacent to the drainage ditch to a depth of 15 ft bls to evaluate lithology in the vicinity of the ERCP. Sands and silty sands consistent with previous observations at the Site were present in both locations. The borings were conducted adjacent to the drainage ditch near extraction well EW001S and to the west of the plant chemical waste treatment system. The boring logs are provided in 1410838446 Addendum 3 Appendix C - Additional Files.
3. A copy of the Industrial Users Discharge Permit (IUDP) is provided as 1410838446 Addendum 3 Appendix C - Additional Files. This permit allows for the discharge of dewatered groundwater to the chemical wastewater treatment system (CWTS) as proposed in the bid documents. In addition to the specifications provided in the bid documents, the Contractor shall also be required to complete the following:
 - Process all extracted groundwater through a sediment reduction method to ensure that settleable solids are not transferred to nor accumulate in the CWTS.
 - Maximum discharge rate shall not exceed 200 gallons per minute without prior JEA approval.
 - Instantaneous flow rates and daily cumulative flow rates shall be recorded on the provided log (1410838446 Addendum 3 Appendix C - Daily Flow Log) and provided to JEA. The log shall be maintained for the duration of discharge and submitted to the JEA Engineer weekly.
 - Discharge site shall be monitored during the duration of discharge to prevent an overflow condition and to stop discharge in the event of an emergency.
 - Upon commencement of discharge a sample of the discharge shall be captured within one hour and weekly thereafter for the COCs identified in Table 2.1 of the draft IUDP. All results shall be expedited on a 48-hour turn-around by the analytical laboratory and provided to the JEA Engineer immediately upon receipt.

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4. JEA owns the railroads adjacent to the drainage ditch from Station 0+00 to Station 3+00. All work within 25-ft of the tracks is permitted but shall be coordinated with JEA 2 weeks in advance.
5. A copy of the Environmental Resource Permit (ERP) is provided in 1410838446 Addendum 3 Appendix C - Additional Files.
6. As noted in Note 5 of the Bid Form, the Contractor shall include a labor rate sheet with the submittal of the Bid Form. The labor rate sheet shall include rates for all categories of staff working on the project (on-Site and off-Site).
7. Bid item No 20 has been added to allow for stone bedding material below the ERCP to reduce dewatering required during installation. Stone bedding shall consist of approximately 1,000 cubic yards of #57 bedding stone (see 1410838446 Addendum 3 Appendix C - Additional Files). Payment will be made based on the unit rate price in equal installments based on the Contractor's progress schedule of installed materials meeting all the project requirements and JEA Engineer approval.
8. JEA has added bid items No 27 and 28 to the bid form associated with the removal and replacement of electrical wiring in up to 10, 1-inch diameter conduits. Payment will be made based on the unit rate price in equal installments based on the Contractor's progress schedule of installed materials meeting all the project requirements and JEA Engineer approval.

Submersible pumps located in groundwater extraction wells are non-operational due to damaged wiring between the power supply and the groundwater extraction wells. The wiring for each of these extractions wells is run underground in two 1-inch diameter HDPE conveyance pipes per well. Field wiring details are provided in the below table. The Contractor shall remove and replace the electrical wiring in each of the conduits.

Extraction Well	Distance of Electrical Wiring (ft)	Pump Lead Sizing	Transducer Signal Wire Sizing
EW-001S	100	#12 AWG, 3-conductor wire plus ground, jacketed cable	#18 AWG, 2-wire plus ground, shielded and jacketed cable
EW-002S	500	#12 AWG, 3-conductor wire plus ground, jacketed cable	#18 AWG, 2-wire plus ground, shielded and jacketed cable
EW-003S	700	#12 AWG, 3-conductor wire plus ground, jacketed cable	#18 AWG, 2-wire plus ground, shielded and jacketed cable
EW-003D	700	#12 AWG, 3-conductor wire plus ground, jacketed cable	#18 AWG, 2-wire plus ground, shielded and jacketed cable
EW-004S	1,100	#10 AWG, 3-conductor wire plus ground, jacketed cable	#18 AWG, 2-wire plus ground, shielded and jacketed cable

9. JEA has amended the bid form as noted above. Below is a summary of the changes made to the bid form.
 - The “Cash Allowance” section was renamed to “Contingency and Project Management”.
 - Bid Items No. 16 and 17 are shown under the Contingency and Project Management section.
 - Bid Items No. 26, 27 and 28 were added.

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10. An example conceptual schedule illustrating the outages anticipated to complete work is attached for reference 1410838446 Addendum 3 Appendix C - Outage Summary JEA NGS Sept 2022 Example. Please refer to Drawing No C-103 for the circuit numbers for the overhead lines within the vicinity of the project area that are listed on the Outage Summary Schedule. This conceptual schedule includes commencing at Station 0 and was developed to estimate the number and duration of outages for various circuits based upon conservative estimated production rates for pipe installation, grading, dewatering point installation, etc. The assumed production rates are provided in the Outage Summary Schedule. The Contractor shall use the Outage Summary Schedule as a planning tool for developing the project schedule. Upon award the selected Bidder will develop a project schedule, based upon the Contractor's means and methods, to present to and discuss with JEA. It is expected that the Contractor's input on schedule and additional discussions with JEA will expedite the project and minimize challenges during construction.
11. Based on the changing electrical demands at the generating station, JEA recognizes that there will be the need to require the Contractor to clear the area and standdown. As such, JEA has included line items to account for these activities in the bid form. The Contractor shall complete the bid form in its entirety.