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Purchasing Division
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August 12, 2014

TO: All Interested Bidders
SUBJECT: Invitation for Bids #14-2032CD
10 MG Storage Tank and Interconnection at the Southeast Water Reclamation Facility

ADDENDUM #2

Bidders are hereby notified that this Addendum shall be acknowledged on page Bid Form-1 of the Bid Form and made a part of the above named bidding and contract documents. Bids submitted without acknowledgment of the Addendum will be considered incomplete.

The following items are issued to add to, modify, and clarify the bid and contract documents. These items shall have the same force and effect as the original bidding and contract documents, and cost involved shall be included in the bid prices. Bids to be submitted on the specified bid date, shall conform to the additions and revisions listed herein.

1. **CHANGE** the response to Question #12 of Addendum #1 to read as follows:
RESPONSE #12: The inlet pipe is 30" and the outlet pipe is 42". See amended Plan Sheet M-4.2 issued with Addendum #1.
2. **DELETE** Plan Sheet M-3.1 and **INSERT** Revised Plan Sheet M-3.1 that is attached to this Addendum #2.
3. **DELETE** Plan Sheet M-3.2 and **INSERT** Revised Plan Sheet M-3.2 that is attached to this Addendum #2.
4. **CLARIFICATION** of Plan Sheet E-0.2, Duct bank Section #1 shall have eight (8) one inch (1") conduits as referenced in keynote #1.

The following question has been presented by potential bidders:

QUESTION #1: Drawing C-9.1 details UG-11 thru 15 note #1 references type A-2 and A-3 pipe bedding. With type A-2 as 57 stone per spec 02200. Please describe type 3 bedding. The note also states bedding type to be determined in the field by engineer. Depending on answer to the first part of this question there could be a large pipe bedding price difference.

RESPONSE #1: As stated in Note #2 of the Utility Notes on Plan Sheet G-0.2, Manatee County Utility Standards are included by reference. Please refer to detail UG-16 in the Manatee County Utility Standards for the definition of type A-3 bedding.

QUESTION #2: Drawing G-0.2 General Note 13 and spec 15062 states that all pipe joints to be fully restrained. Drawing C-9.1 detail UC-7 note 4 states both thrust blocks and restrained joints could be required. Where does this occur?

RESPONSE #2: 30" connection at STA 3+38.07, 16" connection at STA 200+63.08, 30" at connection at STA 206+55.59 and 30" connection at STA 206+55.22 shall require thrust blocks to fully restrain existing pipe.

QUESTION #3: Please see specification section 01030, Section 1.15. Specifically parts C, E and I. Section "C" states: "The contractor shall prepare a detailed construction sequence to maintain continuous treatment to allow the facility to meet the required effluent limitations." What are the required effluent limitations? Without knowing what these are, how are we to prepare the sequence mentioned above? What process(es) does the County or Engineer expect to be affected by construction and how will this affect continuous treatment? It also states: "In this plan he shall successfully demonstrate to the Engineer that the continuity and degree (quality) of treatment will not be adversely affected." What is the continuity and degree (quality) of treatment? How is it evaluated? What standards will the plan be compared to?

Section "E" states: "Maintenance of temporary process equipment including routine corrective repairs and maintenance shall be performed by the contractor as part of the base bid price." What temporary process equipment is required? Without intimate knowledge of the plant operation what should be anticipated? What process(es) does the County or Engineer expect to be affected by construction and will this require temporary process equipment? Section "I" states: "...The contractor shall include the cost of all temporary facilities required to maintain treatment, meeting secondary standards, during the construction period in his bid prices." What are the secondary standards? Is it possible that the construction related to this project will affect these standards? How will they be affected?

As contractors (bidders) we are not privy to the sequencing, limitations, guidelines, parameters and requirements of the SEWRF operations. Please clarify the intent of this section and provide the proper details required to meet this specification. Specifically what interruptions, limitations, parameters and temporary facilities the County and Engineer anticipate being required for this project? This detail should include each anticipated, affected process and how long each affected process can be down, diverted and/or otherwise taken out of service.

RESPONSE #3: The County and Engineer cannot anticipate the means and methods to be employed by the Contractor in the course of completing the work, therefore the intent of this section is to insure that the Contractor's activities do not inhibit the Southeast Water Reclamation Facility's ability to treat incoming wastewater to Part III standards, distribute RCW to end users or in any way violate the conditions outlined by FDEP Permit # FLA012618-018 (which is included and made a part of the bid documents by reference) A copy of the permit may be obtained online at <http://depedms.dep.state.fl.us/Oculus/servlet/login>.

QUESTION #4: Specification section 03361 paragraph 2.01 requires a roof load of 50 psf, this is unusually high for a tank. Typical ranges for a tank in this location would be from 12 psf to 20 psf. This will potentially increase the cost greatly since the dome thickness is related to the roof load. Please inform us if our standard live load in accord with ASCE 7-10 is acceptable?

RESPONSE #4: Standard live load in accordance with ASCE 7-10 is acceptable.

QUESTION #5: Please provide a detail drawing for the ARV called out on the 30" High Service RCW at station 204+00 on drawing C-1.5.

RESPONSE #5: Move the ARV to STA 303+00. As stated in Note #2 of the Utility Notes on Plan Sheet G-0.2, Manatee County Utility Standards are included by reference. Please refer to detail UW-10 in the Manatee County Utility Standards for the ARV detail.

QUESTION #6: In the long run it would be less expensive to provide a new building that meets current codes and wind loads opposed to relocating the existing. By the time you evaluate the existing building components and design the upgrades to meet current codes, provide drawings of both the take down and the new installation, you will be much more expensive and a much longer time line. To provide an accurate price of relocating, it will require a lot of engineering of the existing building to determine what changes in the building will be required to meet the current code so pricing of these required changes can occur.

RESPONSE #6: This is a matter of means and methods. The Contractor may provide a new building that is considered equal or better to the existing building that meets all of the requirements outlined on Sheet C-1.6 and demolish the existing building in lieu of relocating.

QUESTION #7: Sheets M-2.1 & 2.2 Note 2 refers to the new pipe stanchion as being 316 SS. The detail on sheet C-9.1 for the Stanchion pipe shows 304 SS. Which does the county need in this area?

RESPONSE #7: Provide 316 SS Stanchion Type Pipe Supports as referenced on Note 2 of Sheet M-2.1 and M-2.2.

QUESTION #8: Sheet C-1.4 and Detail sheet 9.2 shows the Surge Anticipator pipe and fittings as 16". However, there are no details that show how that 16" line connects to the tank itself. Would you clarify this?

RESPONSE #8: The 16" surge anticipator assembly comes above grade as shown and enters into the ground storage tank above ground in accordance with the tank manufacturer's recommendation. The entrance shall be watertight.

QUESTION #9: Sheet C-1.4 Shows the discharge line from the ground storage tank to the high service pump station as a 42" line. However Sheet M-4.2 for the tank connections shows this as a 30". Would you clarify?

RESPONSE #9: Discharge line is 42". Please see amended Plan Sheet M-4.2 issued with Addendum #1.

QUESTION #10: Can we assume the Air Release Valve shown in sheet C-1.7 is per Manatee County Std Detail UW-10?

RESPONSE #10: Please see response to Question #5 above.

QUESTION #11: Specification 15062 2.01 K calls for Cadmium plated Bolts. Cadmium is considered a hazardous material and environmentally unfriendly. Most municipalities are moving away from this material. In addition bolt manufacturers are not supplying them because of the reduced demand and the higher regulations associated with producing cadmium. Would the county accept zinc plated or hot dipped galvanized bolts as an alternative?

RESPONSE #11: Hot dipped galvanized bolts are an acceptable alternative.

QUESTION #12: Specification 2.01 F calls for several different types of restraint, but does not mention restraints that are built into the bell of the pipe such as HP-Lok or TR-Flex as manufactured by US-Pipe. Manatee County has accepted these systems on other projects. Are they acceptable on this one?

RESPONSE #12: Please see item #1 of Addendum #1 regarding approval of equivalent products.

QUESTION #13 Sheet M-3.1 shows couplings on the discharge side of the HSPS pumps, but does not specify which type. Would you indicate the type of coupling desired?

RESPONSE #13 Coupling shall be as specified in Section 15100 Valves and Appurtenances Article 2.05.

QUESTION #14 Sheets M-3.1 and M-9.2 shows an air release valve on a 90 bend, however no sizes, types, or assemblies desired is given in either of the applications. Would you clarify?

RESPONSE #14 Provide 1" air release valve assemblies as specified in Section 15100 Valves and Appurtenances 2.03. See amended Plan Sheet M-3.1 attached to this Addendum #2.

QUESTION #15: Section 11100 2.03 E. requires a stainless steel tube for lubrication of the bottom bearing. The specific pump specification Section 11313 2.01 B. requires permanent lubrication of the bottom bearing. If permanent lubrication is required, can I assume that you do not require the stainless steel tube?

RESPONSE #15: If permanent lubrication is provided, the stainless steel tube is not required.

QUESTION #16: Section 11100 2.05 requires all pumps with drives 10 HP and up to be factory tested. Section 11313 3.03 requires that the manufacturer provide performance curves from the prior test of a similar pump. Does this mean that factory performance testing specified in Section 11100 is not required?

RESPONSE #16: The factory performance testing in Section 11100 Pumps - General 2.05 is required. Bowl assembly testing with laboratory motor shall be acceptable in lieu of the complete assembled system under Section 11100 2.05 (A) (2).

QUESTION #17: Section 11313 3.05 B. 4. Requires one spare pump and motor of the capacity and size in Section 3.07. Paragraph 3.07 shows three different applications. Is one spare required for each of the three applications, for a total of three spare pumps and motors?

RESPONSE #17: Yes, one spare is required for each of the three applications.

QUESTION #18: Geotechnical Report, page 3 states that an average contact pressure of about 2,700 psf is expected. Drawing sheet S-0.1, section 3.1 states the design allowable soil bearing pressure of 1,500 psf shall be in accordance with the geotechnical report. Based on the design parameters provided in the project documents, we require a minimum bearing pressure of 2,700 psf. Please confirm if a bearing pressure of 2,700 psf can be achieved.

RESPONSE #18: A bearing capacity of 2,700 psf can be achieved per the Geotechnical Report for the ground storage tank whose foundation design is to be included separately by the tank manufacturer. Geotechnical Report, page 8 states a bearing capacity of 1,500 psf as reflected on Sheet S-0.1 for the pump station structure foundation provided in the Plan Set.

QUESTION #19: Specification 03361, section 1.01A states that the tank sidewall is 42'-6". Drawing sheet M-4.1 shows a 42'-6" SWD in the Section-Elevation. The typical Wall section shows a 47'-10" wall height. Please confirm that the sidewall height is 42'-6" from the FFE to the TOW.

RESPONSE #19: Sidewall height is 42'-6".

QUESTION #20: Specification 03361, section 2.01 A2 states that the Roof Load: Process Slabs = 50 psf (minimum). Please delete "Roof Load: Process Slabs = 50 psf (minimum)" and replace with "Free-span Concrete Dome Roof: 12 psf". See attached reference sheet – Crom/McKim & Creed – 5.0 MG Ground Storage Tank, Skycrest, Clearwater Florida.

RESPONSE #20: Standard live load in accord with ASCE 7-10 is acceptable. Remove "Roof Load: Process Slabs = 50 psf (minimum)" and replace with "Free-span Concrete Dome Roof: 12 psf".

QUESTION #21: Specification 03361, section 2.03 I4 states that there is a 30" inlet/outlet pipe and a 42" outlet pipe. Specification 01010, section 1.01 A9 states to construct a 42-inch Storage Tank Effluent pipeline from the proposed Storage Tank to the proposed High Service Pump Station. Drawing sheet C-1.4 reference 42" piping from tank to pump station. Drawing sheet M-4.1 calls for a 30" DIP outlet pipe in the same location as shown on C-1.4. Drawing sheet M-4.2 shows a 30" DIP inlet and Outlet pipe detail. Please confirm that the Effluent/Outlet pipe size is 42". Please delete "/outlet" from section 2.03 I4a.

RESPONSE #21: Please see amended Plan Sheet M-4.2 issued with Addendum #1.

QUESTION #22: Specification 03361, section 2.04 A8 requires an 8" dome probe curb. Drawing sheet M-4.1 calls for an 8" dome probe curb for level sensor. Drawing sheet M-4.3 shows an 8" dome probe curb with an 8" PVC pipe FL-PE x 1'-6" long. Drawing sheet I-0.3 shows an Ultrasonic Sensor Mounting Tank Installation detail that requires 12" PVC pipe with a 6" flange. Please confirm if the 12" USM is in addition to the 8" level sensor curb.

RESPONSE #22: Provide a single dome probe curb that is 12" in diameter.

QUESTION #23: Specification 03361, section 2.04 A9 states that a fiberglass vortex plate at tank outlet is required. Drawing sheet M-4.2, 30" DIP inlet and outlet detail does not show any vortex plate. 12" DIP outlet detail shows a 304 SS vortex plate. Please confirm that a fiberglass vortex plate is required at the outlet pipe location

RESPONSE #23: Provide a fiberglass vortex plate at the 42" outlet.

QUESTION #24: Please confirm the outlet pipe size. Please confirm if the 12" DIP outlet pipe detail is required.

RESPONSE #24: Outlet pipe is 42". Please see amended Plan Sheet M-4.2 issued with Addendum #1.

QUESTION #25: Specification 01010, section 1.01 A11 states to construct a 30-inch Storage Tank and Low Service Interconnect pipeline. Provide and install a 16-inch surge anticipator valve. Drawing sheet C-1.4 reference a 30" x 16" tee. Drawing sheet M-4.1 calls for a 16" surge anticipator in the same location as shown on C-1.4. Please provide 16" surge anticipator piping detail and remove 12" DIP outlet detail.

RESPONSE #25: The 16" surge anticipator assembly comes above grade as shown and enters into the ground storage tank above ground in accordance with the tank manufacturer's recommendation. Entrance shall be watertight. 12" DIP Outlet detail has been removed. Please see amended Plan Sheet M-4.2 issued with Addendum #1.

QUESTION #26: Drawing Sheet M-4.2, piping details show a radius to end of encasement dimensioned as 77'-4" and 102'-6". Please delete "77'-4" and replace with "102'-6".

RESPONSE #26: Encasement call out have been adjusted from "77'-4" to "102'-6". Please see amended Plan Sheet M-4.2 issued with Addendum #1.

QUESTION #27: Drawing sheet M-4.1 shows a finish grade elevation of 35.00. Drawing sheet C-1.11 shows a finish grade elevation of 37.70. Drawing sheet M-4.2, pipe details show a finish grade elevation of 37.50±. Drawing sheet M-4.3 shows a 37.5' finish grade elevation on the exterior ladder detail. Please confirm that the finish grade elevation is 37.50±.

RESPONSE #27: Finish grade is 37.50±.

QUESTION #28: The stainless fabricators would like the engineer to specify the grades of materials to be used on the overflow pipe brackets. They stipulated that they are not engineers and the thickness for the welded plates and wall brackets should be spelled out by the engineer of record, they also questioned if the 1" and 1-1/4" stainless pipes will be strong enough to adequately hold a 42" ductile iron riser.

RESPONSE #28: Bracket shall be 316 SS. Reinforcement Note #1 on Plan Sheet M-4.2 also applies to the Pipe Bracket Detail.

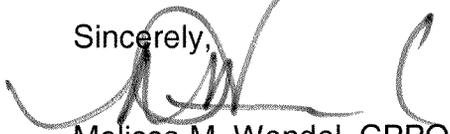
QUESTION #29: Per Article 4.6 of the specification, the contractor is to obtain and pay for all construction permits and licenses. Could you please provide and/or clarify a payment schedule for said permits?

RESPONSE #29: There is one building permit for this project. The County has made a partial payment on this project, and the Contractor shall be responsible for the remaining permit fee of \$12,143.16.

END OF ADDENDUM #2

Bids will be received at Manatee County Purchasing, 1112 Manatee Avenue West, Bradenton, Florida 34205 until **Wednesday, August 20, 2014 at 3:00 PM.**

Sincerely,



Melissa M. Wendel, CPPO
Purchasing Official