

September 7, 2016
BOARD OF COUNTY COMMISSIONERS
ORANGE COUNTY, FLORIDA

ADDENDUM NO. 4 / IFB NO. Y17-703-PH
SOUTH WATER RECLAMATION FACILITY SOUTH PLANT AUTOMATIC BACKWASH
FILTER REHABILITATION

BID OPENING DATE: September ~~13-20~~, 2016

This addendum is hereby incorporated into the bid documents of the project referenced above. The following items are clarifications, corrections, additions, deletions and/or revisions to and shall take precedence over the original documents. Additions are indicated by underlining, deletions are indicated by ~~strikethrough~~. Please note that the questions below are verbatim and have not been changed from that received.

A. The Bid Opening date has been revised to September 20, 2016 at 2:00 P.M.

B. PART D BID FORM AND PART E CONTRACT

Part D, BID FORM page D-3

2. Substantially complete in ~~330~~ 540 consecutive calendar days from date of Official Notice to Proceed.
3. Final completion in ~~360~~ 570 consecutive calendar days from date of Official Notice to Proceed.

Part E Construction Contract Page E-4

VI

TIME OF COMMENCEMENT AND FINAL COMPLETION:

- b. Substantial Completion of the Work shall be achieved not later than ~~330~~ 540 consecutive calendar days from date of Official Notice to Proceed.
- c. Final Completion of the Work shall be achieved not later than ~~360~~ 570 consecutive calendar days from date of Official Notice to Proceed.

C. BIDDERS QUESTIONS

1. Question: Does the new sealant need to be applied up and down the steel flanged wall connections of the cell sheets?

Answer: We assume that the question refers to the caulking the cell dividers. All cell divider edges above the bottom of the filter plates shall be caulked up and down the cell dividers at the ends. The old caulk shall be removed and replaced.

Caulk is required on the edges of the filter plates. The entire horizontal plane at the filter plates shall be sealed. When the cell dividers and plates are fully caulked, they provide a “bathtub” for the sand and anthracite which prevents migration into other cells and/or out of the filter.

- 2. Question:** The record plans show the cell sheets were installed and then grouted in place to the concrete substrate. If this is the case the cell sheets cannot be removed or repaired as directed in Specification 13221, 2.01-B please advise?

Answer: The existing cell dividers are grouted into the floor; 2.01 B states that the cell dividers “are not in need of replacement”. They are to remain in place. See section 2.02, B. for cell divider repair.

- 3. Question:** Reference specification 13221 3.03 B – During the 30 day test period of a completed filter, will the contractor be permitted to begin work on another filter bed including draining the tank and removing media? If no please consider extending the duration of the project by 120 days to offset this time lost.

Answer: The contractor will not be permitted to begin work on another filter. The Contract time has been extended.

- 4. Question:** Please provide a corrective detail for repairing/replacing a cell dividing sheet.

Answer: The existing cells dividers are to remain in place. See section 2.02, B. for cell divider repair.

- 5. Question:** We have been going through this project, and we are concerned that there is not nearly enough time to complete this project. Per the Approved Equipment Manufacturers, this is what the contractor’s timeline looks like:

4-6 Weeks for Submittals – Only after issued PO.

4-6 Weeks for Submittal Review and Approval by the Contractor & County.

14-16 Weeks for Delivery – After Approved Submittals.

2 Weeks lost to Holidays – Thanksgiving and Christmas.

Assuming the worst, we are looking at 30 Weeks, or 210 Days. The contract allows for 330 Days to Substantial, but also includes 30 Days Testing for Each Filter (120 Days Lost due to sequencing). That brings the total for construction to 210 Days, and it seems that it will take us that long to even receive the first piece of equipment. Also, 210 days for construction will be very tight if everything goes 100% correct with delivery, installation and subcontractors (Electrical & I&C). As of now, all contractors should be carrying LD’s for a minimum of 240 Days (\$120,000) in the bid, and that cost will be passed on to the County, which will be reflected in the bid prices.

We would like to submit a request to revise the Duration for this project to a minimum of 570 days to Substantial (240 for Construction + 210 for Equipment Submittals & Delivery + 120 for Testing), to allow for Equipment Submittals & Delivery, Construction and Testing. The only other alternative would be to delay NTP until the equipment arrives on-site.

Answer: The Contract time has been extended.

- 6. Question:** Reference Specification 13221 2.09-B: It is highly recommended that all 3 of the coating systems include a urethane coating for the rails.
Answer: The coatings specified for each manufacturer are based on the recommended system by the manufacturer for the work involved.
- 7. Question:** Reference Specification 13221 2.11: There are discrepancies between the approved coating systems, especially the Tnemec product. Please consider adding continuity to the spec by requiring that all systems have a filler/surfacing coating and also the same number of finish coats.
Answer: See specification change.
- 8. Question:** Reference Specification 13221 3.03-C: The specification states “*No single filter effluent sample shall exceed 5 mg/l TSS during the testing period/performance period.*” We have held conversations with the equipment suppliers and they are not willing to provide a performance guarantee to meet these specified effluent goals. Since this project is a partial rehabilitation and not a total replacement of all the filter components, an uncomfortable amount of risk is being placed on the contractor to achieve these goals. Special consideration should be given to the functionality or non-functionality of existing filter components that are not being replaced under this contract, which could lead to sample test failures regardless of the contractor’s work execution. Can the specification be re-written to adequately require the equipment supplier to guarantee their products will meet these goals?
Answer: No, the parameter of 5 mg/l TSS in the effluent after filtration is an industry standard and the maximum contaminant level contained in the FDEP Operations Permit. This parameter will not be modified. All of the components related to filter performance are being replaced, repaired and/or modified.
- 9. Question:** Reference Specification 13221 3.03-C: Does the specified effluent goal of 5 mg/l TSS need to be maintained through the five year warranty period?
Answer: The continuous meeting of the 5 mg/l will be a determining factor as it is the maximum contaminant level of the FDEP Operations Permit.
- 10. Question:** Will the contractor still qualify for bidding this project if the previous projects completed are of Deep Bed Filters and other types of Sand and Anthracite filters of similar or larger size and flow?
Answer: Yes, if the projects are for filters at a wastewater treatment facility of appropriate capacity with an automatic backwash feature.
- 11. Question:** We request the vendor drawings from when the system was originally installed.
Answer: All available drawings have been provided.
- 12. Question:** In spec section 13221, para 2.11 is the painting spec but it’s not clear exactly what gets painted. Do just the interior walls of the Filter get painted or do all of the interior walls of the structure (including channels) get painted? Painting the channels would require bypassing the entire structure which I don’t believe is intended but I want to make sure.
Answer: Only the concrete interior walls of the filter will be painted. Also, see the specification change for coating system changes.

13. Question: In that same paragraph, three paint systems are approved but only one system mentions a filler/surfacer coat. Since the existing surfaces will require sandblasting to remove the existing coatings/contaminants, please confirm that all three systems will require a filler/surfacer.

Answer: See specification change for coating system changes.

D. PART H TECHNICAL SPECIFICATIONS

Specification Section 13221, 2.11, Concrete Painting System: Replace the existing with the following:

“2.11 CONCRETE PAINTING SYSTEM

Clean the interior concrete walls. Pressure wash, followed by a sweep abrasive blast to remove all existing coatings and contaminants, SSPC-SP7/NACE 4 Brush-off Blast Cleaning. Establish a surface profile equal to ICRI CSP 5 or greater. Coat walls with one of the following (Carboline, PPG/Ameron, and Tnemec are approved OCUD suppliers):

- 1) Carboline: Filler/Surfacer coat – one coat Carboguard 510SG to an average of 1/8-inch depth or manufacturer’s requirements; Finish – ~~Two~~ three Coats 890 Series Epoxy at 6-8 mils per coat; ~~40~~ 18 to ~~46~~ 24 mils total DFT.
- 2) PPG/Ameron: Filler/Surfacer coat – one coat of product per the manufacturer’s recommendation to an average of 1/8-inch depth or manufacturer’s requirements; Finish – ~~two~~ three coats of Amercoat 78HB Coal Tar Coating at 6-8 mils per coat; ~~40~~ 18 to ~~46~~ 24 mils total DFT.
- 3) Tnemec: Filler/Surfacer coat – one coat Series 218 at an average of 1/16” to 1/8” depth or manufacturer’s requirements; Finish - three separate coats of Series of 104 at 6-8 mils per coat; ~~40~~ 18 to 24 mils total DFT.”

Specification Section 13221, 3.01, D, Installation: Replace the existing with the following:

3.01 INSTALLATION

“D. The Contractor shall erect a tent or tarp over the filter (work shall proceed only on one filter at a time) to protect the work from sunlight, rainfall and excessive heat during the caulking process and caulk curing period. Tent or tarp may be removed/relocated after the caulk is cured for a minimum of 7 days. An acceptable arrangement includes using two tarps, the traveling bridge mechanism and existing handrails or trolley posts as supports to securely fasten the tarp. The contractor may place the bridge in the center of the filter and extend a tarp in each direction over the filter. The tarps shall be sloped to drain away from the cells and the

contractor shall provide a temporary sump pump system (with back-up) in the bottom of the filter influent or effluent channel to make sure the filter does not fill up with water. Contractor shall provide a system that prevents ponding on the top of the tarp. Contractor shall not install caulk during or directly after a rain event. For example, if rain is forecast for the afternoon, the contractor is advised to complete all caulking in the morning (prior to the rain) of the work day and shall suspend further work until the next work day.”

E. CLARIFICATIONS

In addendum #1, there was a question about the “tent” over the filters. We answered that question with the following:

“The sun shade caulking cover is required over one entire filter. We want to protect the caulk curing process from sun (ultraviolet radiation and heat) and rain. If the area is partially covered, our goal is defeated.”

See the above specification change on this subject.

F. ACKNOWLEDGEMENT OF ADDENDA

- a. The proposer shall acknowledge receipt of this addendum by completing the applicable section in the solicitation or by completion of the acknowledgement information on the addendum. Either form of acknowledgement must be completed and returned not later than the date and time for receipt of proposal.
- b. All other terms, conditions and specifications remain the same.
- c. Receipt acknowledged by:

Authorized Signature

Date Signed

Title

Name of Firm