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Solicitation Addendum

Addendum No.: 4
Solicitation No.: 22-TA004058DJ
Solicitation Title: Phase II Repairs to Lake Manatee Dam
Project No.: 6108870
Addendum Date: April 29, 2022
Procurement Contact: Dave Janney
Senior Procurement Agent

IFBC 22-TA004058DJ is amended as set forth herein. Responses to questions posed by prospective bidders are provided below. This Addendum is hereby incorporated in and made a part of IFBC 22-TA004058DJ.

The deadline to submit all inquiries concerning interpretation, clarification or additional information pertaining to this IFBC was April 22, 2022.

CHANGE TO:

SECTION C, BID ATTACHMENTS, BID ATTACHMENT 2 – INSTRUCTIONS TO BIDDERS

- Due to the size of the initial set of attachments, please follow the link below for attachments
<https://uploader.mymanatee.org/?ShareToken=0D96D7F612DC458CE431BBC517B070ADFD28829A>
<https://uploader.mymanatee.org/?ShareToken=D2117C3EB85B109A5D98427620575B4BE4356937>

CHANGE TO:

BID ATTACHMENT 4 - TECHNICAL SPECIFICATIONS, SECTION 31 43 13.13, JET GROUTING CUTOFF WALL, PART 1, GENERAL, 1.6 QUALIFICATIONS

A. Project Experience

The Contractor must have at least five years jet grouting experience over the last ten years; and have completed at least ~~five (5)~~ two (2) jet grouting cutoff wall projects, ~~with at least two~~

~~(2) projects having objectives and methods similar to those of this project and in similar types of soils.~~

CHANGE TO:

BID ATTACHMENT 4 - TECHNICAL SPECIFICATIONS, SECTION 31 43 13.14, DEEP SOIL MIXING SEEPAGE CUTOFF WALL, PART 1, GENERAL, 1.6 QUALIFICATIONS

A. Project Experience

The DSM Cutoff Wall Contractor must have at least five years of experience in the construction of DSM walls over the last ten years; and have completed at least ~~five (5)~~ two (2) DSM wall projects, ~~with at least two (2) projects having objectives and methods similar to those of this project and in similar types of soils.~~

CHANGE TO:

BID ATTACHMENT 4 - TECHNICAL SPECIFICATIONS, SECTION 31 43 13.16, VERIFICATION DRILLING, PART 1, GENERAL, 1.3 REQUIREMENTS

Core Drilling: Drilling of cores shall be by any approved standard and accepted method of rotary core drilling that will provide continuous and complete cores ~~of a minimum diameter of 2 1/4 inches over the~~ using the minimum diameter required to accept a 2 3/4 inch diameter inclinometer casing for entire depth of the constructed Cutoff Wall ~~and with a minimum diameter to accept an inclinometer casing.~~ The method used shall provide excellent recovery of cores from the cutoff wall with potential sand lenses and unmixed zones, and not cause damage to the Cutoff Wall.

REPLACE:

BID ATTACHMENT 4 - TECHNICAL SPECIFICATIONS, SECTION 01 20 00, PRICE AND PAYMENT PROCEDURES.

Replace Section 01 20 00, Price and Payment Procedures with the revised Section 01 20 00 issued with this Addendum 4 and available for download as a separate attachment.

REPLACE:

SECTION B, BID FORMS, APPENDIX K, BID PRICING FORM

Replace Appendix K Bid Pricing Form, with the Revised Appendix K Bid Pricing Form issued with this Addendum 4 and available for download as a separate attachment.

QUESTIONS AND RESPONSES:

Q1. Addendum No. 3 included updated minimum qualifications for the contractors. Multiple specification sections within the bid package have differing qualifications.

Please confirm Addendum No. 3 supersedes any contractor minimum qualifications within the specification sections.

R1. See the Change To section above.

Q2. Please provide an updated Pricing and Payment Procedures. Please advise under which pay item(s) the design mixes and demonstration/test sections for the deep soil mixing and jet grouting should be covered.

R2. Pay items for design mixes and demonstration/test sections for deep soil mixing and jet grouting should be covered in Items 506 and 507, respectively. See Revised Section 01 20 00, Price and Payment Procedures issued with this Addendum 4.

Q3. Please advise which pay item(s) the 4' diameter jet grout columns located north and south of the bridge to tie-into the existing embankment cutoff wall be covered? Please provide the top and bottom elevations.

R3. The jet grout column tie-ins referred to in the question are actually 8-ft diameter columns per the plans and specifications. The pay items for these are 508 and 608. The top and bottom elevations are to match those of the adjacent jet grout seepage cutoff wall per the plans and specifications.

Q4. Please provide additional information on Pay Item numbers 510 and 610 - Surplus Allotment of Soil Mix Grout Migrating into Remaining Voids Under Training Wall.

R4. After the void filling operation, it is possible that voids may still exist under a portion of the training walls where the pumped-in sand was unable to reach. Since the soil mix columns are being constructed immediately adjacent to the training wall foundations, additional soil mix may migrate into those remaining voids beyond the design footprint of the soil mix columns. These two pay items are intended to capture the extra soil mix material that may fill these voids.

Q5. Items 1.8.C.2 and 3.5.E of specification section 31 43 13.14 Deep Soil Mixing Seepage Cutoff Wall, indicates a borehole camera survey and/or installation of an inclinometer shall be completed by the Engineer on each bore hole during the demonstration section and full production. Does the Engineer intend to conduct a borehole camera survey/install inclinometer in every location? Please confirm that all costs associated with borehole camera surveys and installation/monitoring of the inclinometers will be borne by the Engineer.

R5. The Contractor will be responsible for coring through the indicated seepage cutoff wall. The County/Engineer will bear the cost of the borehole camera survey and installation and monitoring of the inclinometers.

Q6. Item 1.3 of specification section 31 43 13.16 Verification Drilling states core holes with a minimum diameter of 2 1/4 inches and with a minimum diameter to accept

an inclinometer casing. What is the minimum diameter to accept an inclinometer casing?

R6. See the Change To section above.

Q7. Please confirm the updated unconfined compressive strength requirements for the soil mixing and jet grouting cutoff wall and tie-ins increased from 50 PSI to 200 PSI at 28 days.

R7. Confirmed

Q8. Can the soil mix cutoff wall alignment deviate from the drawings to avoid potential conflict with training wall pile cap? If so, what is the maximum deviation?

R8. Yes, the maximum deviation can be 1 ft.

Q9. During the initial solicitation, the prescribed mix design for jet grouting and deep soil mixing was 10% Portland cement and 5% bentonite by weight. Was a bench scale / treatability study performed? Can the report and data be provided?

R9. No bench scale test was performed for this solicitation. The Portland cement and bentonite percentages are considered to be close to those necessary to achieve the performance specifications. The Contractor will need to perform their own mix design in order to meet the performance requirements.

Q10. In order to maintain a fair and level bid process for this solicitation, should the contractors assume 10% Portland cement and 5% bentonite by weight?

R10. Contractors should prepare responses according to the IFBC documents.

Q11. Please advise which pay item(s) the 4' diameter jet grout columns located north and south of the bridge to tie-into the existing embankment cutoff wall be covered? Please provide the top and bottom elevations for these columns.

R11. See response to Q3.

Q12. What is the required overlap between soil mix and jet grout columns?

R12. The overlap required between soil mix and jet grout columns is what is necessary to meet the minimum wall thickness specified in the IFBC documents.

Q13. After reviewing the contract drawings and the bid pricing form, it is difficult to assign the jet grout columns to the payment items. In order to provide fair, balanced pricing; please provide a breakdown for the 4 FT & 8 FT jet grout columns and the corresponding payment items.

R13. See response to Q3.

Q14. Part 1.5(A)(1) – DSM Cutoff Wall Construction plan requires engineering calculations by the Florida register PE. Please clarify the FL PE portion of the DSM Construction plan. Does engineering calculation pertain to the Mix Design, chemical compatibility, training wall stability, etc.?

R14. A Florida P.E. is required to stamp all calculations associated with specification 31 43 13.14 Deep Soil Mixing Cutoff Wall including but not limited to 1.5 (A)(1) Gout Mix Design and 3.3 (C) Crane Placement.

Q15. What is the max allowable distance the 4' Slab Support Jet Grout Columns can be installed away from the wall existing training wall? Reason being is we have experienced the further away from the training wall the Jet Grouting lessens the risk of surcharge and movement the training wall.

R15. The reinforcement details for the grade beam and rebar ties into the reinforced concrete slab were developed based on the designed position of the jet grout support columns. The Engineer will consider a change in the position of the jet grout support columns to decrease the risk of surcharge and movement of the training provided the Contractor can demonstrate through engineering calculations by a licensed Florida PE, that the modified reinforced concrete slab is properly supported in the new configuration.

Q16. Will there be a location to haul and store the Jet Grouting and DSM Spoils as in previous scopes of work, if so, where will it be? Provide a logistics map showing area.

R16. After setting up, the jet grout spoils will be hauled to a location that is less than 1 mile from the Spillway. The actual location will be determined prior to the construction NTP.

Q17. Will the contractor be able to tap into the nearby powerlines to provide power for the project area? Please show on sheet G-004.

R17. Yes, the power lines running to the pump house are available for a tap by the Contractor. These run along the western boundary of the area marked as “Potential Area for Batching Plant” on G-004 and will be included in the project plans.

Q18. Where is the water source hydrant or similar source located for the project? Please show on sheet G-004.

R18. The water source is a fire hydrant in the Water Plant located near the beginning of the Dam Road, just north of the Plant.

Q19. Are the steel sheet piles required to be from domestic material stock?

R19. The sheet pile does not need to be from domestic material stock for this project. All materials provided for the construction must meet the requirements outlined in the plans and specifications.

Q20. 1.5.D.1 – requires submission of a Material Mix Design Report, is the pre-construction material mix testing part of the contractor’s on-site test section or a separate laboratory program?

R20. The Material Mix Design Report summarizes the procedures and results of the pre-construction Cutoff Wall material mix tests. This report must be submitted and approved by the Engineer prior to construction of the on-site test section.

Q21. 1.5.E.1 – Please provide detailed requirements of the training wall monitoring program consisting of required limits, measuring locations, measuring instruments and reporting requirements.

R21. Specification 31 43 13.14 Deep Soil Mixing Seepage Cutoff Wall requires a training wall monitoring program that can perform real time monitoring of both lateral displacement and rotation of the training walls. A lateral displacement of ½ inches is also specified as a trigger value during construction for which the Contractor may need to modify the installation procedures. Note this ½ lateral displacement criteria is for any location on the wall and therefore will be affected by both the lateral displacement at the base and rotation. Thus, the instrumentation program will need to consist of at least two independent measurements.

Each training wall consists of independent monolithic sections. The Contractor’s monitoring system will need to independently measure each monolith with sufficient accuracy to determine if the ½ maximum lateral displacement criteria is exceeded at any time during construction. The specific instrumentation to be used and the specific locations (survey points or devices) to be monitored are left up to the means and methods of the Contractor but are subject to the Engineer’s review of the Training Wall Monitoring Plan.

Q22. 3.4.F – what is the purpose of the inclinometer installation? Can this be substituted with a borehole alignment survey from a gyro or similar? Is the inclinometer to be left in place for future measurements?

R22. The core holes specified will be at interstice locations between adjacent columns. The purpose of the inclinometer is to determine the vertical alignment of the core hole to interpret the verticality of the jet grout column installation. Yes, this could be substituted with a borehole alignment survey from a gyro or similar. The specification indicates that after the verticality measurement, the core holes and inclinometer casings are to be grouted.

Q23. 3.4.F – is the borehole camera survey a CCTV, OPTV or an acoustical survey?

R23. The Engineer will accept borehole survey techniques that can demonstrate the columns were installed in accordance with the Contractor’s work plan and that they meet the relevant overlapping and vertical alignment criteria.

Q24. IFB p19, Sec A.45, This paragraph reads like we have 214 days until Substantial Completion which is defined as the "Final Inspection". We assume there will be

additional time to reach "Final Completion" after the 214 days. Please confirm this is the case.

R24. Refer to Section D, Sample Construction Agreement with General Conditions of the Construction Agreement and Agreement Exhibits, Section 7, Other Provisions, Subsection F, Punch List.

If substantial completion (all work is complete) is not met by the allowable contract time, Liquidated damages begin the day after the Substantial completion date is not met. There is additional time after substantial completion to perform punch list work. (Section 7 Other Provisions 7.F page 64)

Q25. IFB p19, Sec A.46, We understand L/D's are \$4200 / day. This might be answered by the previous question #6, but when does the \$4200/ day start? After 214 days no matter what, or will we have additional days after the Substantial Completion / Final Inspection to perform punchlist type work? Please explain how this works.

R.25. See response to Q24.

Q26. "Supp Conditions Section 73. P18, Drawing - ""Demolition Plan"" D-101",

Contractor shall install new piezometers after substantial completion has been achieved. Contractor is to assume that all piezometers within the project limits will require replacement.

We see the above note involving piezometers. We also see the 9 ea existing "Monitoring Wells" shown on the Demo Dwgs. Are we to assume these are still to be filled and there will be 9 ea new piezometers installed after substantial completion occurs? Also, I did not see a bid item for these new piezometers- can that be added?

R.26. All existing piezometers in the work area are to be demolished and grouted in accordance with the plans and specifications. New piezometers will be installed by the County after the completion of construction and are not a part of this project.

Q27. "IFB p83. Sample Agreement Sec 2.4. J", Could you please give us rates for inspectors and whomever else you anticipate being out at the jobsite. We will surely encounter O/T situations every week and will need to account or these charges in our bid.

R27. Should the contractor choose to work on holidays, overtime, or any hours outside of regular working hours, those discussions/requests should come up at the weekly progress meeting. Specific rates for County inspection are not known at this time. Charging contractors for inspections costs outside of regular working hours is not a common practice during allowable contract time.

Q28. "Supp Conditions Art 4. Sec 4.02-3", Article states "Bad Weather Days" will be defined as stated in "Exhibit B" (p12). There are none on that Exhibit B- Please clarify.

R28. See Section C, Bid Attachments, Section D, Sample Construction Agreement with General Conditions of the Construction Agreement and Agreement Exhibits, Paragraph 7, Other Provisions, C, Weather.

Q29. Supp Conditions Sec 00 73 00 p 18.,

ARTICLE 12—MISCELLANEOUS

Vibration and Displacement Monitoring described in Specification Section Steel Pipe Piles, sections 3.6 and 3.7 shall apply to all pile operations throughout the project.

We assume this note in Section 73 pertains to the two small sheet pile walls shown on Dwg C-000 and CD-112, and detailed on Dwg CS202. Please confirm vibration monitoring will be necessary for the PZ-22 called for even though they are not pipe piles, for which the Spec was written.

R29. Yes, the vibration monitoring will be necessary for the PZ-22 sheetpile installations.

Q30. We see the Project Award is to happen in July '22. Do you have an idea when the project will actually start? Anticipated Notice to Proceed?

R30. We anticipate the Notice to Proceed to follow shortly after the Project Award. We further anticipate that construction will commence in November of 2022 with material stockpiling and mobilization activities. Bypass pumping for the spillway can begin at the end of the 2022 Hurricane Season on December 1, 2022.

Q31. We are having issues verifying the quantities for the following bid items, we advise combining these to a lump sum item for site restoration.

- a. **511 & 611 – Cut Work and Seeding / Sodding as needed for final grade**
- b. **512 & 612 - Transport and place fill work volume as needed for final grade and seed / sod**

R31. Appendix K Bid Pricing Form (Revised) issued with this Addendum No. 4 and available for download as a separate attachment. Changes highlighted in yellow.

Bid sheet has been revised to add Bid Item 519 Seeding/Sodding behind North Training Wall as Lump Sum & Removed Seeding/Sodding from 511 & 512. Also, added Bid Item 619 Seeding/Sodding behind South Training Wall as Lump Sum & Removed Seeding/Sodding from 611 & 612. Contractor shall assume 90% Seed and 10% sod for both 519 & 619. Revised Bid Sheet and Section 01 20 00 Price and Payment Procedures are attached.

Q32. Please provide the bid item where the contractor will be paid for piezometers and vibration monitoring.

R32. The only piezometer work item is for demolition and grouting of these as noted on D-101; "Remove and Grout Existing Monitoring Wells Within Construction Zone". This is included in Items 504 and 604 for cut work. A portion will be removed during the cut and the remaining portions of the piezometers not removed by the cut shall be grouted under these pay items.

Costs associated with vibration monitoring for sheetpile installation should be included in the corresponding tasks; Items 503 and 603.

Q33. Please provide the riprap specifications for the temporary access road. The size and type of riprap is not identified in the contract documents.

R33. The low-water crossing is temporary, and its purpose and usage are entirely at the discretion of the Contractor. The line and grade shown on drawing CD-201 were selected by the Engineer in an attempt to:

- a. provide a maximum 8% grade for specific heavy equipment assumed by the Engineer; and,
- b. avoid cutting into the limestone ledge on the south river bank.

The line and grade shown in the plans should be used for bidding purposes. The selection of materials for the "New Stone" is entirely at the discretion of the Contractor in accordance with their means and methods; subject to review by the Engineer in the Contractor's Construction Work Plan.

Q34. Can we use the Rip-Rap removed from around the North Training wall as fill for the temporary access road?

R34. Yes. However, riprap removed from this area during construction should be stockpiled and used to replace the riprap in accordance with the Final Phase Downstream Grading Plan, drawing CD-112. Any surplus can be used for the temporary access road at the discretion of the Contractor and subject to review by the Engineer in the Contractor's Construction Work Plan.

Q35. Where specifically will the Bypass Pump pad be located? The location is required to calculate the hose length.

R35. The Bypass Pump Pad will be located along the downstream edge of crest road at some place north of the spillway and beyond the stoplog cradle. It will be installed by the County along with downstream piping to the outfall. Accordingly, the Contractor is required to supply the suction line that will run across the crest roadway and into the Lake. The length of the suction line will be the same irrespective of the position of the pump pad.

Q36. Is Apron required to have a consistent 2% cross slope?

R36. No. The slope of the Apron overlay with a minimum 8-in thickness will largely be determined by the slope of the existing apron.

Q37. Dwg G-004, May I ask why the "existing boat launch" and "secondary water intake pumps" are not crossed out on this sheet? There is no work associated with these items is there?

R37. There is no work associated with the Existing Boat Launch and Secondary Water Intake Pumps. These are provided to the Contractor for information purposes only. During construction, the primary pump house will be taken out of service and all water entering the Plant will be taken from the Secondary Water Intake.

Q38. Section 31 62 16.13 Steel Pipe Piles, Please verify there are no pipe piles for the downstream repairs and that this section is not needed.

R38. There are no steel pipe piles for the current scope of work. However, this specification contains details on the vibration monitoring program referenced in Specification 31 41 16 – Metal Sheet Piling Rev 1 and is necessary for this project.

Q39. Please confirm we are not required to do any bridge deck patching / painting, not any painting on the tainter gates for this contract.

R39. Confirmed

Q40. Demo Sec 03 01 00 Sec3.1.3.2 Shoring, Section states have any concrete shoring for formwork designed by PE. With the elimination of the upstream work, is this item necessary? If so, where would it be required?

R40. No concrete shoring is envisioned by the Engineer in the scope of work. However, if under the Contractor's means and methods concrete shoring for formwork is necessary, it should be performed in accordance with the plans and specifications.

Q41. Please clarify we are only to "Replace existing electrical, instrumentation, and mechanical drive components with new equipment" on the tainter gates. We are not making any structural to the tainter gates themselves.

R41. No structural work is being performed on the Tainter Gates under this scope of work.

Q42. Tech Specs Sec 01 20 00, Section 1.7.7.1 Stoplog Guide and Tainter Gate Repairs. Crossed out on Dwg G-00, Section 1.7.10.1 Misc Improvements. Crossed out on Dwg G-005, Section 1.7.12.1 Unit Prices. DO not match those unit prices on actual bid form, Please Clarify.

R42. See Revised Section 01 20 00, Price and Payment Procedures issued with this Addendum 4.

01 20 00 – Price and Payment Procedures have been modified to match the items on the bid form. Bid form items are correct.

Q43. Tech Specs - Price and Payment Procedures Section 01 20 00, As compared to marked out items on Dwg G-005, p 7 - 1.7.8.1 Description: Describes Upstream SoilCement Refurbishment pay items. These items are crossed out on Dwg G-005. Please clarify.

R43. See response to Q42.

Q44. The following note is in the Supplemental Conditions, Section 73, p.19:

Drawings are intended to serve as Proof of Concept only. Contractor shall engage the services of Professional Engineers in the State of Florida to develop final construction drawings for review and acceptance by the Owner.

Was this intended to be included in this new bidding effort for the downstream section repairs only?

If so, what does this note pertain to exactly?

- A. Is it intended to mean the entire set of plans will need to be reviewed and stamped by our own PE?**
- B. Does this pertain to just the jet grouting / soil mixing / void filling portions of work?**
- C. Would it just pertain to any required job work plans involving access for the soil mixing / jet grouting / void fill, Or any other design checks for placing equipment near the Downstream Training Walls?**
- D. Does it pertain to the Sheet piling remaining in the project - considering the Sheets size has been stated as well as tip and top elevations?**
- E. If this note does not pertain to the entire set of plans, could you please list exactly what drawings / work items this note pertains to?**

The use of this note to shift the design risk to the Contractor is problematic overall and is contradictory to a conventional bid-build contracting scenario.

R44. Yes, but the note has been revised. See Revised Section 00 73 00, Supplementary Conditions of the Construction Contract issued with this Addendum 4.

- A. No
- B. The note in the supplemental conditions has been modified.
- C. The note in the supplemental conditions has been modified.
- D. No
- E. The note in the supplemental conditions has been modified.

NOTE:

Deleted items will be ~~struck through~~, added or modified items will be underlined. All other terms and conditions remain as stated in the IFBC.

INSTRUCTIONS:

Receipt of this Addendum must be acknowledged as instructed in the solicitation document. Failure to acknowledge receipt of this Addendum may result in the response being deemed non-responsive.

END OF ADDENDUM

AUTHORIZED FOR RELEASE