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May 1, 2018

Set 2

TO: All Potential Respondents
RFB 1802 Balm Boyette – Stallion Hammock Restoration Project

FROM: Rachelle Jones, Senior Procurement Specialist

SUBJECT: Response to Questions

QUESTION: As earthwork is Lump Sum can you give us the cut/fill estimates for the project so the bidders can compare and contrast their own calculations?

ANSWER: The Engineer of Record’s cut/fill balance has been updated based on 2017 LiDAR data.

Cut was estimated to be 136,350 cubic yards and fill at 131,400 cubic yards. This is for in-situ volumes above and below the design surface. Volumes were not adjusted for swell or shrink factors.

QUESTION: Is this a balance job or does the district intent to import fill to complete?

ANSWER: The intent is to balance earthwork. The District does not intend for fill to be imported. See Sheet 5 of the Construction Plans for notes on the grading surfaces. Material can be obtained from the existing upland surface designated ‘Seepage Wetland’ in the plans to achieve balance. This existing upland surface will become a seep swamp if contoured as shown on the plans, but its main purpose is to provide a variable source of material, if needed, for fill to achieve the grades on the other surfaces. Further, the ‘Level Pool Wetland’ surface has a series of shallow and deep areas. These can be adjusted subject to District approval to achieve the cut/fill balance. The “Ridge” and “Riverine” surfaces must be contoured to design grade.

QUESTION: How was initial topographical survey completed?

ANSWER: Note: As indicated in the notice dated April 18, 2018, 2017 LiDAR data has been evaluated. The response below relates to the construction plans revised on April 25, 2018, that incorporate the updated LiDAR survey information.

ANSWER: The existing topography depicted on the plans is combined from three sources.

a) A LiDAR area survey collected between 2/8/2017 and 3/29/2017, provided by Dewberry Engineers, Inc. to SWFWMD.

- b) A specific purpose field survey by Survtech Solutions, Inc., dated 11/06/2009 of the following items:
 - a. hydraulic structure dimensions and inverts and surrounding elevations at each of the crossing locations,
 - b. off-site channel connection profiles and cross-sections at the upstream and downstream project boundaries,
 - c. seasonal high water markers set by biologists,
 - d. well casings,
 - e. spot elevations.
- c) Soundings and bathymetry depths relative to seasonal high water provided by Scheda Ecological Associates, Inc. in selected mine pits. Soundings were measured to top of muck. Muck depths were found to range between 1.5 – 2 feet in the soundings performed by Scheda. Pit bottom elevations are estimated and do not constitute professional survey.

This data was collated into a single digital elevation model using ESRI ArcGIS software, from which the contour lines were derived. Portions of two of the pits had topographic voids and the bathymetry in these areas was derived by assigning the typical measured pit bottom in the mined area, which was rather consistent among the pits, and the typical pit side slopes.

QUESTION: Is burning of clearing debris allowed on site, if so does it have to be pit burned?

ANSWER: Yes, burning of clearing debris is allowed as provided in the contract documents. Pit burning is not required.

QUESTION: The entrance off of Balm Boyette rd. looks very difficult for the equipment transport to negotiate, is there an alternate entrance for the mob-demob of heavy equipment?

ANSWER: The entrance at Balm Boyette Road is the construction access point. No other access is available.

QUESTION: Are contingency monies in addition to the \$2.2m budget?

ANSWER: Contingency is included in the budget.

QUESTION: Is flowable fill required as back fill for the RCP installation?

ANSWER: No. Mention of flowable fill use in Technical Specification Section 02433 for RCP is optional. If flowable fill is not used, Contractor shall provide an under pipe foundation in accordance with FDOT Standard Specifications for Road and Bridge Construction Section 430 – Pipe Culverts. The under pipe foundation shall consist of select backfill as defined in Technical Specification Section 02200 of the contract documents, extending from at least 12 inches below the pipe bottom to the centerline of the pipe. The select backfill must be placed and compacted as structural fill as defined in Section 02220.

Specifications mentioning flowable fill in Section 02434 do not apply as the HDPE pipe installation is temporary. This pipeline is not expected to be trenched or require under pipe amendments.

QUESTION: Should the contractor plan on having a crew on site over night to monitor during the hydro carving operation?

ANSWER: It is not required to pump continuously overnight to support the hydro-carving operation. If the contractor elects for overnight pumping having a crew onsite may be prudent, but is not required. As with any dewatering operation, the contractor must determine the best means for the contractor to assure meeting the required performance criteria and obligations to maintain environmental compliance as required by the contract documents.

QUESTION: Is hydro seeding an acceptable method of grassing?

ANSWER: Yes, but not as a substitute for areas indicated for sod in the contract documents. Grassing performance criteria in the contract documents applies.

QUESTION: Can 2" bare-root plant material be used in place of 2" cell plant material?

ANSWER: 2-inch bare-root material can be used where 2-inch cell material is specified provided the plants meet the criteria of the Technical Specifications.

QUESTION: Please quantify the limits/anticipated acres of quarterly plant maintenance events.

ANSWER: Quarterly Plant Maintenance applies to the area planted by contractor in the West Fork. See Sheet 9 of the contract documents for a depiction of the applicable planting areas to be maintained under the quarterly plant maintenance.

QUESTION: Is plant maintenance limited to West Fork restoration and creation sites and crossings only or the entire limits of the site?

ANSWER: Quarterly Plant Maintenance applies to the area planted by contractor in the West Fork. See Sheet 9 of the contract documents for a depiction of the applicable planting areas to be maintained under the quarterly plant maintenance.

QUESTION: Do Rip Rap tonnages include the drainage pipe end treatment?

ANSWER: The riprap tonnages include the permanent installations depicted on Sheets 14, 15, 16, and 17; which includes the drainage pipe end treatments among other features as hatched or otherwise labeled for riprap construction. The riprap associated with temporary features, such as the one on Sheet 19, is not quantified. Stone associated with cellular confinement system fill and cap is not included in riprap.

QUESTION: The Rip Rap in drawings shows a 12 inch lift and 4 inch bedding stone but the specifications say 18" lift and 6 inches of bedding stone. Which is priority and if 12" lift, how does that work with 6-12" material as specified in the gradation table?

ANSWER: The riprap and bedding stone layers vary among different treatments as depicted on the contract drawings. Please follow the lifts as depicted on the drawings wherever they are depicted. The Technical Specification 02370 Riprap System explicitly states that the 18 inch thick application only applies in areas where riprap thickness has not been depicted on the drawings. For example, riprap thicknesses are not listed for the end of pipe treatments on Sheet 16, so the 18 inch specification applies. Conversely, different thicknesses are depicted on selected sections shown on Sheets 15 and Sheet 14 and

they range from 12 inches to 24 inches, and those apply in those examples. The specific examples in this response are not intended to be comprehensive and bidders are responsible for developing their bid based on the complete contract documents.

The gradation in Section 02370 is the South Florida Water Management District's standard Type A grade of average 6 inch size stone, which is suitable for the range of lifts and surface tolerances designed, including the smallest designed lift of 12 inches under dry placement. Please note that listed grades are sieve sizes.

QUESTION: There are Liquidated damages stated in specs. When would they begin or how many months from NTP?

ANSWER: Liquidated Damages would apply to the Final Completion milestone (330 days from Notice to Proceed).

QUESTION: How long of a period does Performance and Payment Bond have to be in place?

ANSWER: Paragraph 2.18.2.1 –The bond must remain in full force and effect through the District's final acceptance of the work. The cost of this bond must be included in the total price bid on the Bid Response Form, excluding post-construction vegetation maintenance.

QUESTION: Is Jessica Lunsford act mandatory?

ANSWER: The Jessica Lunsford Act does not apply to this project.

QUESTION: Are there quantities for cellular confinement or geoweb?

ANSWER: The geoweb has not been quantified because the installed shape is somewhat irregular, and overcuts and wastage may vary among manufacturers. The cellular confinement cover is approximately 525 square yards as designed, in plan view. Contractor should become familiar with the slopes and shapes requiring cellular confinement coverage on the drawings and derive their own material quantities based on providing the area to be armored with geoweb and filled/capped with stone. Cellular Confinement System is a lump sum bid item to be paid as a complete, installed system, not as a series of separate material quantities.

QUESTION: The aquatic plants listed on the bid sheet indicate a size of "2 inch". Is it required to produce these species in a 2 inch liner or is bare root material equivalent to a 2 inch liner acceptable?

ANSWER: 2-inch bare-root material can be used where 2-inch cell material is specified provided the plants meet the criteria of the Technical Specifications.