



1112 Manatee Ave. West

Bradenton, FL 34205

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Solicitation Addendum

Addendum No.: 3
Solicitation No.: 20-TA003182AJ
Project No.: 6042370
Solicitation Title: LAKE MANATEE WTP SCADA SYSTEM REPLACEMENT
Addendum Date: November 15, 2019
Procurement Contact: Abigail Jenkins

IFBC No. 20-TA003182AJ 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 No. 20-TA003182AJ.

Change to:

ADVERTISEMENT, DATE, TIME AND PLACE DUE:

The Due Date and Time for submission of Bids in response to this IFBC is **November 21, 2019 at 3:00 P.M. ET.** Bids must be delivered to the following location: Manatee County Administration Building, 1112 Manatee Ave. W., Suite 803, Bradenton, FL 34205 prior to the Due Date and Time.

Change to:

INFORMATION FOR BIDDERS, FIRST PARAGRAPH OF SECTION A.01 BID DUE DATE:

The Due Date and Time for submission of Bids in response to this Invitation for Bid (IFBC) is **November 21, 2019 at 3:00 P.M. ET.** Bids must be delivered to the following location: Manatee County Administration Building, 1112 Manatee Ave. W., Suite 803, Bradenton, FL 34205 and time stamped by a Procurement representative prior to the Due Date and Time.

Change to:

INFORMATION FOR BIDDERS, SECTION A.51 SOLICITATION SCHEDULE

The following schedule has been established for this Solicitation process. Refer to the County's website (www.mymanatee.org > Online Services > *Bids & Proposals*) for meeting locations and updated information pertaining to any revisions to this schedule.

Scheduled Item	Scheduled Date
Final Addendum Posted	<u>November 15, 2019</u>
Bid Response Due date and Time	<u>November 21, 2019, 3:00 PM, ET</u>
Due Diligence Review Completed	November 2019
Projected Award	December 2019

Replace:

BID ATTACHMENT 2, TECHNICAL SPECIFICATION(S), SECTION 17050, PART 3.07.B, OWNER TRAINING TABLE 1

Replace the Owner Training Table 1 in Part 3.07.B of Section 17050 in the Technical Specifications with the revised Owner Training Table 1 issued with this Addendum No. 3.

QUESTIONS & ANSWERS

Q1. What is training required by the ICSC? As All SCADA is programmed by others. Can we suggest Table 1 have a column added stipulating who performs which line item? e.g. ICSC, MC, etc.

R1. See attached revised table 1 training schedule. Note: this is a suggested table and schedule will need to be confirmed and verified with the Programmer.

Q2. Are we required to manage the work of the SCADA programmer?

R2. The programmer will contract directly with Manatee County.

Q3. What is the SCADA programmer's Schedule of work? (effects RTU/Radio timing); e.g, can we phase over other RTU's before SCADA is ready?

R3. Currently there is not a schedule available. Specification section 17050 1.04.A.2 details RTU acceptance by the owner and engineer prior to moving on to another RTU. The acceptance includes new PLC, controls and SCADA.

Q4. Will the SCADA Programmer be a subcontractor to us?

R4. No.

Q5. Are we required to coordinate the SCADA Programmers workshops for PLC and HMI reviews?

R5. Yes.

Q6. Can all the Panel FATs be done at one time?

R6. Refer to specification section 17950 1.05.C and 17950 2.11.

Q7. What Radio Licensing is required or provide specification section where this is described?

R7. Refer to specification section 17750 1.04.B. Manatee County licensed frequency already in use is provided on drawing 03N01 which will be used on new Radio system.

Q8. Page 351 of the specifications calls for Bench Calibration. Page 352 calls for the contractor to certify calibration by others. As there are no new instrument provided on this project, are you requiring that all existing instruments tied to all the new panels/PLCs are to be calibrated and certified?

R8. There are no new field instruments required as part of the base bid. However, in the event Manatee County adds new field instrumentation at any time, specification section 17050 1.04.A.3.i will apply.

Q9. Will bench testing require that instruments be removed and brought to our shop for calibration?

R9. Refer to specification section 17950 3.07.B.3 for instrument calibration requirements.

Q10. For specification 17050-1.04.A.3.v, are ISA 5.3 loop drawings required? If so, this will include obtaining all the existing field devices information. Or will the standard shop drawing's I/O drawing suffice?

R10. Refer to Technical Specification section 17050 1.05.D.11.

Q11. Are we required to carry Nutanix? Can you provide their scope, price and T&C's?

R11. Refer to Attachment Technical Specification section 17050 1.07.6, 17730 2.04.B.2 & 17730 2.04B.3

Q12. Will it be possible to have concurrent phase-overs of multiple RTU's and if not, will the requirement of 7-days between RTU installations be waived?

R12. Refer to specification section 17050 1.04.A.2. Depending on the cut over plan and Manatee County's confidence in the new RTU operation will be the deciding factor to reduce any RTU testing time to less than the specified 7 days. Carollo Engineers, Inc., (Engineer of Record) recommends that a minimum of 3 days would be the absolute minimum amount of time. This would be an exception that the contractor would need to provide in writing prior to approval.

Q13. Regarding specification 01756-1.05.B.6 - Owners Rep Travel Allowances: If the Source Tests will be conducted at a local firm, are we still required to provide \$1,600 per day airline and travel reimbursement? It seems there should be a distance limit for requiring the provision of airline travel. If not, this takes away the advantages that the local preference is supposed to provide.

R13. Specification section 01756 1.05.B.6 refers to costs associated with Owner's representative and Engineer's representative witnessing Source Tests. Each bidder is required to adhere to the project specifications regardless of location.

Q14. Are the handouts that were provided during the Solicitation Information Conference part of the official bid documents?

R14. No.

Q15. Is it required to keep the old RTUs working while we test the new ones? If it is required to have the existing panels stay in operation while the new ones are tested in the field, that is suggesting that a hot-wiring system be employed to allow the switchover

R15. Refer to specification section 17050 1.04.A.2.

Q16. The Scope of Work (A.44, page 17; Section 01110-1.02.A) lists "programming" as part of the work. Later sections show the programming as being completed by the owner (Section 01110-1.05.A). Who has the responsibility for the PLC and HMI programming and associated work (submittals, training, workshops, ...)?

R16. The programmer will be responsible for PLC and HMI programming; training as clarified in Table 1 referenced above.

Q17. Will the County consider alternate Scada systems in place of the specified CiTect package?

R17. No.

Q18. For the several hundred feed of outdoor direct buried conduit required, is there any requirement for concrete encased duct banks anywhere per drawing 01E1? The specification does not indicate there is a requirement.

R18. Yes, duct bank is required. Refer to drawing 01E31 for duct bank details.

Q19. If the programming is being contracted directly by the County; Section 17762 – Control Systems: SCADA Software This section is full of meetings, meeting management, reports, etc. that are clearly required to be done by the programmer. But it doesn't make this clear. As such there is confusion as to how much time we should put in for this.

R19. It is the bidder's responsibility to develop their bid based upon the Bid documents.

Q20. Shouldn't Section 17765 – Control Systems: Programming Requirements Be labeled FIO in its entirety? (For Information Purposes Only, Not Part of Bid, Work performed under separate contract)

R20. No.

Q21. Section 16125 – Fiber Optic Cable, 1.04 Says test all existing fiber. If fiber does not pass test, replace. Drawing 03N01 Note 1 says 'all new fiber cable should be provided under this contract'. If existing is to be reused if it passes testing, is there a unit cost extra for replacement since this won't be known until after testing?

R21. For the bid, include all NEW fiber optic cabling shown on the drawings. For any existing fiber that does not pass testing, the county will procure equipment and services under a separate contract.

Q22. 4" Fiber Conduit Replacement at Filters. Note 1 says to do it. Note 4 says it may already be done. Will we be required to provide a credit if it's already done?

R22. YES

Q23. Drawing 00GN02 says to base tower height on radio survey. There is a very large cost difference between a free standing 20' tower and a 100' tower if needed. How are we to price this before the survey? In these cases, there is usually a note saying to bid based on a for example 30' tower and if the survey requires higher that will be compensated for through contingency funds.

R23. Existing antenna heights are included in Bid Attachment 4.

Q24. Can we visit the site again before the bid? We would like to do some specific measuring for the electrical conduit work.?

Q25. There will be NO additional scheduled site visits.

NOTE: Items that are ~~struck through~~ are deleted. Items that are underlined have been added or changed. All other terms and conditions remain as stated in the IFBC

End of Addendum

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.

AUTHORIZED FOR RELEASE

● Training provided by Programmer

● Training provided by Contractor

Table 1

Course Title	Minimum Course Length (hours per session)	Personnel (Estimated Number of Students)	Minimum Number of Sessions
● System Overview	8	10	2
● Operator Training - Basic	16	10	2
● Operator Training - Advanced	8	5	2
● CIS (Computer) Equipment Maintenance	8	4	2
● HMI Software	12	3	2
● Historian System Training	24	5	2
● Reports Training	4	5	2
● PLC Hardware	8	4	1
● PLC Software	16	6	1
● LOI Hardware and Software	8	5	1
● Network Equipment	8	4	1
● Follow-Up Training	8	5	2

2. Training course requirements:

a. System overview training:

- 1) Furnish training courses that give the Owner's supervisory level personnel an overview of all elements of the PCIS system that focus on the overall functional aspect of elements of the control system and provide an understanding of the interaction of the various components.
- 2) Furnish a training course that gives the Owner's supervisory level personnel an overview of the new Contractor-provided elements of the PCIS system. Focus on the overall functional aspects of each new element of the control system, particularly the mechanical system vendor-provided control packages.

b. Operator training:

- 1) Furnish training courses that instruct system operators in the efficient operation of all aspects of the PCIS that include not only the general operation of the control system but also the operation of specific system features.
- 2) Furnish training courses that instruct system operators in the efficient operation of Contractor-provided aspects of the PCIS that include not only the general operation of each control system but also the operation of specific system features.
- 3) Operator's training shall include the following for each vendor package and programmable device:
 - a) Control system overview: Architecture, equipment functions, software components, etc.
 - b) Display navigation, overview, and types of displays.