

ADDENDUM NO. 3
MBWWTP RENEWABLE ENERGY PROJECT
CONTRACT NO. W-17-024-201
CITY OF CHATTANOOGA, TENNESSEE

ADDITIONAL INFORMATION DOCUMENTS

The following documents:

- Questions and Responses No. 02
- Pre-Bid Meeting 2 Notes, Agenda, and Sign-in Sheet

are being provided with this addendum for informational purposes only. The document listed above is not, and will not, be considered part of the Contract Documents.

SPECIFICATIONS

1. Specification Section 00 01 10 TABLE OF CONTENTS:
 ADD: 00 86 01 Escrow Account Release Form
2. Add Section 00 86 01 included with this addendum.

Bidder Must Acknowledge Receipt of this Addendum on Bid Form

QUESTIONS AND RESPONSES No. 2

**MBWWTP Renewable Energy Project
CONTRACT NO. W-17-024-201**

CITY OF CHATTANOOGA, TENNESSEE

October 21, 2019

1. Q-RS: In the drawing package, page E3 say the following..."FOR COMPATIBILITY WITH OWNER'S EXISTING FACILITY MEDIUM VOLTAGE DISTRIBUTION SYSTEM, S&C VISTA SERIES SWITCH SHALL BE PROVIDED. SYSTEM DESIGNER SHALL COORDINATE EXACT CONFIGURATION WITH OWNER." Does this mean that the switch will be supplied by the owner or that the contractor "shall" provide the described equipment?

R: *The contractor "shall" provide an S&C Vista series switch. This is the preferred equipment of the owner.*

2. Q-RS: On item 6 of the Bidder's Qualification form, it asks for all contracts on hand. Can this be included as a list instead of the full project form? Are the contracts needed only solar construction contracts?

R: *Yes, please provide a list of all contracts in hand. In addition, please complete three (3) Project Information Forms, one for each similar project that you wish to highlight.*

3. Q-AM: What is the total kWh demand for the co-located WWTP?

R: *In calendar 2018, the Moccasin Bend WWTP had a total demand of 52.8 million kWhs with an average of 4.4 million kWhs per month.*

4. Q-AM: Will the project be responsible for any additional tree clearing for site preparation or limitation of shading considerations?

R: *Please refer to the civil design provided within the RFP. The site should be cleared of trees and the site prepared for the solar array. Please note the additional shade buffer at the south edge of the array for purposes of eliminating shade.*

5. Q-AM: Does the City anticipate completing construction of this project by December 31, 2020?

- R: *Yes. There is a 180-day construction period for this project and the city anticipates that 180 day period ending before December 31, 2020.*
6. Q-SE: Can Chint string inverters be added to the acceptable inverter list?
- R: *No. Chint string inverters are not an approved inverter supplier*
7. Q-IS: Article 5 - Basis of Bids, bids will be evaluated on the criteria:
25% Quality of Proposed Equipment as indicated in Appendix B: Product Data – Equipment Supply Matrix Question: The Tech Specs, sect A-4 list the equipment requirements and list approved vendors. If we provide components from the list of approved vendors that also meet all the other technical specifications listed, will we get full credit for this criteria? Put another way, are there inverter or module vendors you will give preference to within this list?
- R: *Bidders will be given full points if the equipment meets the specifications. Bidders will only lose points if it specifies sub-standard equipment (outside of the specifications).*
8. Q-IS: The “One Line Drawing 1 of 2” shows two (2) “Existing Medium Voltage Lines” and the output from the switchgear split between those lines. On site, we saw a single set of 3ph overhead lines at the proposed point of interconnection. Can you explain what you are looking to do here?
- R: *Final design and configuration of the interconnection is to be determined by the bidder. The two medium voltage lines are available at existing switchgear SWG-010 adjacent to the proposed location for the new interconnection pad mounted switchgear. The system designer shall determine the exact method of extension and connection of the existing medium voltage lines to the new switchgear.*
9. Q-IS: The same drawings (from Q8 show two 1500 kVA transformers. Can we specify a single 3000kVA transformer?
- R: *No. The owner preference is two 1500 kVA transformers.*
10. Q-RS: Is onsite burning and mulching of vegetation and trees going to be allowed or will we have to haul all vegetation from site? Would burning be allowed with a wind curtain?
- R: *See specification 01 74 00, 1.07. All necessary permits for waste disposal are the responsibility of the Contractor.*
11. Q-CW: Can CAD files be provided?
- R: *CAD files will not be provided at this time. Awarded contractor may receive files for use.*



City of Chattanooga, Water Resources Division

Meeting Notes

Subject: MBWWTP Renewable Energy Project (W-17-024-201)

Date: 10/15/19

Time: 11:00 AM

Location: Moccasin Bend WWTP – Training Facility

Organizer: Jacobs Engineering

Topics Discussed

List of Attendees is attached.

- Chris Palmer opened the Pre-Bid Conference with introductions.
- Jason Bodwell read through Project Overview and associated quantities of major bid items and followed through Agenda (attached).

Technical Items:

- “Turn-Key” project utilizing Jacobs conceptual design was stressed.
- The project does not involve a Power Purchase Agreement (PPA). The electricity produced by this project is not anticipated to be sold back to the Grid.
- There are wetlands onsite. Permits have been applied for and are expected to be acquired late November. 404 and 401 permits need to be in hand prior to construction in wetlands areas.
- City of Chattanooga’s land disturbance permit is under review by the City of Chattanooga. Land disturbance permit must be issued before disturbance may commence on-site.
- All outstanding permits are anticipated for receipt in the next 30-days to 60-days.
- Contractors to follow minimal wetland impact footprint. Details provided in package.
- Civil Design has been completed to 100% by Jacobs.

- Any desired Geotechnical testing is the responsibility of the Contractor.
- Interconnection point provided is proposed. Contractor shall finalize. Conceptual and one-line drawings are provided.
- Initial Archeological testing has been completed with few and minor findings.
- Some requirements include: system to integrate into city SCADA system. Fiber to be connected and utilized. SNC Vista switches and security requirements are noted in the solar specification.
- The solar panel and electrical designs are conceptual only.
- The conceptual design is silent on panel wattage. The goal is to create the maximum output within the footprint allocated in the Civil Design.
- Note that the proposed security fence is high, see the Bid Documents for dimension and requirements.
- Note the required security system is robust. Refer to the Specifications.

Non-technical Items:

- Bid opening is 2:00 PM on November 5th, 2019.
- Contractor Identification (Section 45 77) sheet must be on the outside of the bid package envelope and thoroughly completed or the bid will not be considered.
- Project is not a straight price bid, evaluation is described within the specifications.
- Stressed that all required documents outlined in package will need to be present or the bid will not be considered. There are standard and non-standard requirements.
- There is an alternative for a 5yr O&M contract. That number will not be included in the overall price. This will include standard O&M activities as specified.
- All questions should be supplied in writing to the Purchasing Agent as instructed on the bid form.
- The schedule requires Substantial Completion to occur 180 days from notice to proceed.
- Questions discussed included:
 - Who is responsible for security?

- The Contractor is responsible for security of the site and their equipment throughout construction.
- Can the contractor provide their own design layout for the solar panels?
 - Yes. Do not extend past the site boundaries in the design package. This is in part to minimize wetland impacts.
- What are the requirements for roads and access roads?
 - See Civil drawings and specifications.
- Are 4 points of entry required?
 - Yes, the roads used in the conceptual design are existing roads. See drawings and specifications. Contractor's access must not impede the City of Chattanooga's operations at the Moccasin Bend Wastewater Treatment Plant (MBWWTP).
- What guarantees are required?
 - See specifications.
- Is there a preference in the trench system?
 - No preference.
- Is single track access acceptable?
 - No. Fixed is required.
- What does Notice to Proceed mean?
 - When the agreement is signed and ready to move forward. Considerations will be made if there are issues with the permit delays, although no issues are expected.
- What is the timing of the project being awarded in relation to the permits arriving?
 - Permits are expected to arrive late November to Mid-December. Expect a 30-60 day awarding period following the bid date.
- Is geotechnical testing for the project covered under the Allowance in the Bid Form?

- Any desired Geotechnical testing is the responsibility of the Contractor. The allowance is for additional geotechnical testing as requested by the City of Chattanooga.
- Since 5,000 CY of fill is anticipated by the Bid Documents, is all this fill available on-site?
 - Yes, there are two large mounds of fill near the footprint that are expected to provide all fill for this project.
- Providing a 20-year inverter warranty may be cost prohibitive. A 10-year warranty on the inverters is the industry standard. Would it be allowable to provide 2 or 3 spare inverters rather than providing the extended warranty?
 - Please submit question in writing and the Engineer will respond with City of Chattanooga's preference.
- Are SNC switches provided by the City of Chattanooga?
 - The SNC switches are provided by the contractor.
- Sheet 11 of the Bid Set. Is the proposed connection to the existing overhead service conductors (12470V) owned by the City of Chattanooga or EPB?
 - It is owned by the City of Chattanooga. All power infrastructure related to this project is internal to the MBWWTP.
- Sheet 11 of the Bid Set. It may be more efficient to have a portion of the overhead lines in trench instead of overhead.
 - The lines were shown overhead in the conceptual design to indicate they could be placed overhead. If underground conductors is more efficient, please include within your bid.
- Sheet 5 of the Bid Set. The temporary sediment traps, coconut logs and the silt fencing are located within the Photovoltaic Array footprint. Upon completion of grading, must the final grading stabilization be complete before these features are removed? Or will the array be installed over these remaining features?
 - Please submit the question in writing and the Engineer will provide a response. The intent is not to construct the panels over any of the temporary sediment traps.



City of Chattanooga, Waste Resources Division

Meeting Agenda

Subject: W-17-024-201 MBWWTP Renewable Energy Project Pre-Bid Meeting

Date: October 15, 2019

Time: 11:00 a.m.

Location: MBWWTP Training Facility

Organizer: Jacobs

Topics of Discussion

1. Introductions
2. Project Overview
 - a. Finalize the solar design, seek approval of the design from Chattanooga, supply ALL material and equipment to deliver a turn-key behind-the-meter project.
 - b. Design is silent on the panel wattage. The goal of this project is to produce the greatest output in the space provided. Propose with the highest panel wattage or output you can deliver.
 - c. Interconnection point location is identified. The design should include the most appropriate interconnection point and equipment.
 - d. System should fully integrate with existing MBWWTP SCADA system.
 - e. Fiber is currently located at Training Facility.
 - f. Review security in Specification 48 14 00 Section A-4.13
 - g. Necessary geotechnical information should be provided by the contractor
 - h. Work in wetlands cannot begin until necessary permits are acquired. Expected late November to mid-December.
3. Bidding Documents
 - a. Bid Date – November 5th, 2:00 P.M. at City Hall, Suite G13
 - b. Bid Submittal
4. Schedule
 - a. 180 days from NTP
5. Accessibility
 - a. Contractor fully responsible for access and security to the work site.
6. Addendum
 - a. Meeting Minutes and Sign-in Sheet
7. Questions ???



MBWWTP Renewable Energy Project Pre-Bid Meeting Sign-in Sheet

Name	Company	Phone Number	Email Address
DJ Shelton	SIGNAL ENERGY	423-653-3249	DJ.SHELTON@SIGNALENERGY.COM
Matt Bradley	Adman Electric	423-622-5105	MBradley@AdmanElectric.com
Jonathan Stratton	JACOBS	423-779-8075	Jonathan.Stratton@jaco.com
Steven Chiariello	Inman Solar	404-502-1915	stevec@inmansolar.com
Charlie Herring	Inman Solar	404-444-6247	Charlie@inmansolar.com
David Adams	Wilmot Inc	330-844-1906	dadams@wilmotinc.com
Harry Hawkins	Barse Design Solutions	423-991-8417	harry.hawkins@barsedesign.com
BONNIE MUMFONER WOODSON	City	643(603)	B.MUMFONER@CHATTANOOGA.GOV
Sam Marks	Carrick-Williams	423-902-1250	smarks@carrick-williams.com
Wanda Brown	City	423-762-7514	wdbrown@cityofchattanooga.gov
Tripp Davis	Reeves Young	256-996-8579	tdavis@reevesyoung.com
Dean Bryant	Berry Construction Co.	423-267-2234	deane.renewcca.com
STEPHEN RUSH	BERRY CONSTRUCTION CO.	865-310-4263	STEPHENRUSH@BERRYCONSTRUCTION.COM
Phillip Duvall	Radiance Solar	919-808-1000	Phillip.Duvall@mail.com
Debbie Talley	CCC	423-643-7230	dtalley@chattanooga.gov

**EXHIBIT C
RELEASE**

The undersigned, _____, as the Owner pursuant to a Construction Contract with _____ ("Contractor") dated _____ (the "Contract") hereby authorizes SunTrust Bank ("Bank") to release _____ (\$ _____) paid as retainage pursuant to that certain Escrow Agreement between and among the undersigned, _____, ("Owner"), Contractor, and Bank, and dated the ____ day of _____, 20____, which agreement is specifically incorporated herein by reference. This release is executed for the sole purpose of releasing the amounts held in escrow as aforesaid and specifically does not, and shall not, be construed to release or otherwise affect any claims or rights which Owner/Borrower has or may have against Contractor pursuant to said contract or the work performed thereunder.

[Insert Check/Wiring Instructions]

Attest:

OWNER:

Secretary

By:

Title: _____

STATE OF _____
COUNTY OF _____

Affiant makes oath that the above is true, as sworn before me, a Notary Public, this ____ day of _____, 20__.

Notary Public

(SEAL)

My Commission Expires _____

APPROVED BY CONTRACTOR:

By: _____

Title: _____