

POST-MEETING NOTES

- A. Addendum 1 will be issued 11-24-20 to provide demo drawing and omit reference to Owner-furnished station service transformers.
- B. Contractor responsible to furnish steel structures, bus, and 69kV switch. Potential suppliers:
 - 1. Substation Enterprises: Larry Ware, (205) 685-2755 (lrw@subenterprises.com)
 - 2. Dis-Tran: Clay Langston, (318) 767-5519 (clay.langston@distran.com)
- C. Concrete shall be installed in two phases:
 - 1. Phase 1 - Transformer pad and 69kV equipment
 - 2. Phase 2 - Remaining foundations
- D. Engineer to provide detailed connection diagrams for Contractor to terminate with.

PRE-BID MEETING DISCUSSION ITEMS

I. Designation of Representatives

- A. Owner – City of Wauchula FL
 - Ward Grimes, *Purchasing Manager*
 - Chris Collier, *Electrical Distribution Supervisor*
- B. Engineer – Patterson & Dewar Engineering, Inc.
 - Anthony Hanson, *Project Manager*
- C. Additional Agency – Florida Municipal Power Agency
 - Ian Beason, *Electrical Engineer*

II. Project Location

Wauchula Substation site is located at 111 East Bay Street, Wauchula, FL 33873, FL 32043.

III. Permits and Authorizations

- A. Permits obtained by Owner – NONE
- B. Permits obtained by Contractor – As required by State and Local Laws
- C. Contractor must adhere to general local, state, and federal safety procedures

IV. Material Furnished by Owner/Others

Item(s) to be Installed	Expected delivery
One 69kV Circuit Switcher (<i>Siemens</i>)	Already on-site
One 69-12.47kV Transformer (<i>Pennsylvania Transformer</i>)	Feb 15, 2021

V. Schedules

- A. Proposed Schedule to be submitted by Contractor upon award of Contract
- B. Anticipated Notice of Award: **December 15, 2020**
- C. Anticipated Start Date: **January 4, 2021**
- D. Substantial Completion (120 days): **May 3, 2021**
- E. Project complete and ready for final payment (150 days): **June 3, 2021**

VI. Contract Bid Administration

- A. Owner will receive sealed bids until the bid time of 2pm on December 3rd
- B. Bidder questions during the bidding process shall be submitted in writing or via email to Engineer – Responses/clarifications will be remitted to all bidders.

VII. Safety

- A. The City of Wauchula, Florida Municipal Power Agency, and Patterson & Dewar Engineers are not responsible for safety.

VIII. Miscellaneous

- A. A 5% Bid Bond is required.
- B. Performance and Payment Bonds are required for successful bidder.
- C. Contractor is responsible for:
 - 1. unloading and storage of all material.
 - 2. finishing site work after completion of Work.
 - 3. maintaining site security on property.
 - 4. off-site disposal of spoils from substation site.
- F. Others will offload and assemble transformer.
- G. Owner will test and commission equipment.

IX. Material to be distributed at Pre-Bid Meeting

- A. Circuit Switcher outline

X. Project Description

Owner has initiated a project to modify its existing Wauchula Substation, which consists at present of a 69 13kV three-phase transformer bank (Bank B) and four single-phase transformers (Bank A). The design modification includes the addition of one 69kV circuit switcher and one 69-13kV 15/20/25MVA transformer with LTC to replace the single-phase Bank A transformers. The relaying associated with Bank A will be adjusted to mimic the relaying on the Bank B side.

A Supervisory Control and Data Acquisition (SCADA) and communication system will be implemented using the existing relays and intelligent electronic devices (IEDs). Contractor shall provide and install the miscellaneous SCADA components in the control house.

XI. Description Of Work

- A. Supply labor, equipment, materials, supervision and other incidental items required to perform the following general tasks:
 - 1. Establish survey control benchmark and coordinate system for Work.
 - 2. Furnish materials for and install concrete foundations for equipment.

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3. Furnish and install modifications to the substation grounding system. Ground wires, ground rods, and any other necessary materials shall be furnished by Contractor.
 4. Furnish materials, labor, and equipment to repair sitework and stone surfacing once installation is complete.
 5. Furnish and erect substation structural steel, framing steel, anchor bolts, flat washers, nuts, and leveling nuts. Repair any damaged galvanized coatings.
 6. Furnish and install substation equipment including, but not limited to, the following: disconnect switches, bus, including rigid and bus conductor, bus connectors, jumpers, and insulators.
 - a. NOTE: Connection of 69kV bus to new switch will occur during after-hours outage. Contractor shall be responsible for performing work during a midnight outage. Existing tap will be disconnected during this outage by Contractor.
 7. Furnish and install the oil containment system.
 8. Connect and place into service one 69-12.47kV 15/20/25/28 MVA power transformer with LTC. Offloading and dress-out to be completed by others.
 9. Offload, move to foundation, assemble, install, connect, and place into service one 69kV 1200A power circuit switcher.
 10. Furnish and install insulated wire and cable, conduit, cable trench, and cable support systems required to complete the installation, including connections to the existing control building and associated equipment, as shown on Contract Drawings.
 11. Furnish, install, and terminate fiber optic cables between field equipment and the control house, then test. Fiber type shall be 62.5/125 μ m heavy duty, riser rated, indoor/outdoor, waterproof, high tensile strength (short term) 100 lb or greater.
 12. Ensure proper operation of 69kV switches.
 13. Repair damaged galvanized materials on structural steel and touch up damaged areas of equipment with touch up paint.
 14. Furnish and install bus differential relay for Bank A. The existing TTG relay will be removed from the location to house the new relay.
 15. Furnish and install the miscellaneous SCADA material identified in the contract according to the contract specifications.
 16. Demolish existing SATEC monitoring equipment and install new SCADA devices in the remaining housing.
 17. Provide 40 hours of support to Owner for commissioning services.
 18. Assist Owner during checkout in accordance with these specifications, and in conjunction with Owner, energize and place the substation into service.
 19. Once new transformer A is installed and in service, Contractor shall be responsible for the demo and disposal of the single-phase transformers, 69kV oil circuit breaker, and the associated structures and equipment.
- B. Receive, unload, sort, inventory, and haul material delivered to any storage area, and from any storage area to the point of construction. Notify Owner immediately of any damage

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to material or equipment incurred during shipping or of any discrepancies in delivered versus expected items.

- C. Protect equipment and material from loss, theft, and damage. Contractor shall be responsible for damage to equipment and material during storage, installation, and handling.
- D. Assume responsibility for demurrage charges for equipment unloaded, stored, and used in construction.
- E. Provide lifting equipment, dunnage, supports, jacks, and nylon slings necessary to accomplish work.
- F. Provide temporary buildings, trailers or structures required for Contractor's work, including offices, a telephone, sanitary facilities, office equipment, furniture, and other items necessary for the performance of Work. Contractor shall apply for and provide electrical service.
- G. Coordinate with Owner in the development of outdoor storage space, parking areas and construction site offices. These areas are to be developed in close proximity to the Work area and shall not impinge in any way on property not owned by Owner.
- H. Furnish welding machines, cable, welding electrodes, rods, burning and cutting equipment, oxygen, acetylene, oil, gasoline, cleaning fluids and miscellaneous supplies of every kind required for use in Contractor's work. Provisions for safe storage of any combustible materials used during construction.
- I. Provide secured areas for storage of tools, equipment and materials to be installed or used in the installation of Contract Work. Contractor shall be responsible for items until accepted by Owner in conformance with the Contract General Conditions.
- J. Provide weather protection, including temporary heat, electric power, plastic coverings, or other items required for the protection of materials for installation, or being installed on site, until the Contract Work is accepted by Owner.
- K. Furnish and erect or install any staging, shoring, bracing, temporary steel and any falsework of any character, whatsoever, necessary for the erection of Contractor's work. Include any relocation of equipment, and such items shall be furnished, placed, and removed by Contractor.
- L. Provide in the work areas in close proximity to the Work, fire extinguishers of sufficient size and quantity satisfactory to Owner and the local fire department having jurisdiction.
- M. Perform and construct work in accordance with federal, state, and local laws, regulations, and codes, including those regulating the environment.
- N. Obtain and pay for construction permits and licenses.
- O. Conform material, equipment, and services furnished to the accepted standards and practices of the electric utility industry.

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- P. Contractor and Contractor's representatives shall wear proper PPE while working within the energized substation. Proper PPE is HRC 2 clothing.

XII. Site Visit

- A. The Contract Work stated and specified herein involves construction of pads, foundations, and placement of gravel surfacing. Though Engineer has attempted to depict construction conditions as accurately as possible, Contractor is strongly advised to undertake the following:
1. Visit site prior to submitting a bid for Contract Work.
 2. Pay special attention to scheduling Work activities to permit expeditious accomplishment of the requirements.
 3. Pay special attention to the requirements necessary to provide proper drainage away from adjacent property and to prevent erosion during construction activities.
- B. Owner will not consider adjustments to the Contract Price after award due to the Contractor's failure to recognize the conditions under which Work is to be performed.

XIII. Material/Work Furnished By Others

- A. Others will perform the following:
1. Substation final testing and cutover
- B. Items furnished by Owner/Others:
1. One 69-12.47 kV transformer with LTC (Offloading and assembly by manufacturer)
 2. One 69kV circuit switcher
 3. Station service transformers