

UTILITIES COMMISSION
CITY OF NEW SMYRNA BEACH, FLORIDA

ITB# 08-19
SMYRNA SUBSTATION EXPANSION

INVITATION TO BID

The Utilities Commission, City of New Smyrna Beach, Florida (**COMMISSION**) is seeking bids from qualified Vendors (**BIDDER(S)**) to:

Provide management and administration, labor and supervision, construction tools and equipment, materials and expendables, and temporary and permanent construction services to perform the individual construction items of work for the SMYRNA SUBSTATION EXPANSION, complete, including overhead and profit. The project location is the Smyrna Substation, located at 3019 SR-44, New Smyrna Beach, Florida, west of I-95 and north of SR-44 (Volusia County).

In general, the project involves relocating a portion of transmission line and extending the substation grade to allow for substation expansion, constructing a substation addition to include two power transformers with high side circuit switcher protection, low side main-tie-main breakers, and six feeder circuit breakers, and removing the existing power transformer and feeder breakers.

Construction items of work will include material procurement, temporary construction and protection, clearing and grading, access road, fencing and gates, foundation installation, conduit and cable trench installation, grounding, yard cover, transmission pole and conductor installation, owner-furnished equipment installation, substation structures and supports, substation devices and bus materials, relay and control panels, power and control cable installation, wiring and testing, modifications and removals, and project documentation. All work shall be completed per the requirements of the Construction Drawings, technical Specifications, and approved submittals.

The contractors or other qualified Bidders on the construction covered by this proposal, along with their suppliers and sub-contractors, are considered to be experts in the procurement and installation of substation and transmission materials, and as experts, should have complete and up-to-date information as to the cost of raw materials, labor and other factors affecting the final price of such construction. Therefore, firm price proposals are specifically requested.

Notice is hereby given that sealed bids will be received at 200 Canal Street, New Smyrna Beach, FL 32168, until **2:30 P.M.** on **March 19, 2019** at which time they will be publicly opened in the 3rd floor DeBerry Room.

Submit Bids To: Caleb Fisher, CPPB
Purchasing Agent
Utilities Commission,
City of New Smyrna Beach
(386) 424.3045 Voice
(386) 424.2748 Fax
cfisher@ucnsb.org

Mailing Address: 200 Canal Street
New Smyrna Beach, FL
32168

Walk In Delivery: 200 Canal Street
New Smyrna Beach, FL
32168

BIDDERS must indicate on the sealed envelope the following:

- A. Invitation To Bid Number**
- B. Hour and Date of Opening**
- C. Name of BIDDER**

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ATTACHMENTS

- Technical Specifications
- Construction Plans
- Sequence of Construction
- Geotechnical Report

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BID SCHEDULE

- DISTRIBUTION OF THE INVITATION TO BID: **February 4, 2019**

- PRE-BID MEETING: (MANDATORY) **February 20, 2019**
 - TIME: **2:00 P.M.**
 - LOCATION: **DEBERRY ROOM, 3RD FLOOR
UCNSB
200 CANAL STREET
NEW SMYRNA BEACH, FL 32168**

- DEADLINE FOR FINAL QUESTIONS BY 2:30 P.M.: **March 1, 2019**
 - E-MAIL TO cfisher@ucnsb.org

- ADDENDUM PUBLISHED BY 5:00 P.M.: **March 8, 2019**

- BID RETURN DEADLINE BY 2:30 P.M.: **March 19, 2019**
 - LOCATION: **UCNSB - RECEPTION
200 CANAL STREET
NEW SMYRNA BEACH FL, 32168**

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GENERAL TERMS AND CONDITIONS

1. **INSTRUCTIONS TO BIDDERS:** To insure consideration of your bid, please follow these instructions. Bids not in compliance with conditions specified herein are subject to rejection.
2. **SEALED BIDS: AN ORIGINAL BID AND 1 COPY plus a USB Flash Drive or a CD** must be in the Finance Department by the date and time specified. The Bid Reply, Certification of Drug-Free Workplace Form, Public Entity Crimes Form, Non-Collusion Affidavit of Prime Bidder Form, Evaluation Factors, Questionnaire, and any addenda issued must be included. Proposals must be sealed and clearly labeled with the following information:
 - a. Name and address of Bidder
 - b. Bid number
 - c. Date and time of Bid Opening
3. **COMMISSION:** The term **COMMISSION** used herein refers to the Utilities Commission, City of New Smyrna Beach, Florida, or its duly authorized representative.
4. **BIDDER:** The term **BIDDER** used herein refers to the dealer/manufacturer or business organization submitting a bid to the **COMMISSION** in response to this solicitation.
5. **BID EXAMINATION:** **BIDDERS** are expected to examine, when applicable, the drawings, specifications, delivery requirements, performance sites and all instructions to satisfy themselves of conditions affecting cost of performing this contract.
6. **FURNISHED ITEMS:** No material, labor or facilities will be furnished by the **COMMISSION** unless specifically stated.
7. **COLLUSION:** The **BIDDER** hereby attests that the prices in this offer have been arrived at independently without consultation, communication or agreement with any competitor for the purpose of restricting competition.
8. **PRICE WARRANTY:** The **BIDDER** warrants that the prices of the items set forth herein do not exceed the prices charged by the **BIDDER** under a contract with the State of Florida.
9. **COMMERCIAL WARRANTY:** The **BIDDER** agrees that the supplies and services furnished under this award shall be covered by the most favorable commercial warranties the **BIDDER** gives any customers for comparable quantities of such supplies or services and that the rights and remedies provided herein are in addition to and do not limit any rights afforded to the **COMMISSION** by any other provision of this award.
10. **INSPECTION AND ACCEPTANCE:** A duly authorized representative of the **COMMISSION** will accomplish inspection and acceptance of the supplies/services purchased herein at the designated delivery point.

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11. **QUESTIONS REGARDING BID:** COMMISSION has made every effort to provide prospective vendors with the information needed to appropriately respond to this bid. COMMISSION realizes that some clarification, interpretation, or additional information may be required.

Questions regarding any portion of this bid shall be directed, in writing, to:

Utilities Commission, City of New Smyrna Beach

Caleb Fisher, Purchasing Agent

cfisher@ucnsb.org

or

200 Canal Street

New Smyrna Beach, FL 32168

All such requests must be received no later than 2:30 PM, Eastern Standard Time, **March 1, 2019**. Responses to all requests for more information will be included in any addenda and will be made available to all **BIDDERS** on **March 8, 2019**.

Requests for additional information received after the **March 8, 2019** deadline will not receive a response. Responses will **not** be made orally.

Any additional information pertaining to this Bid or to the services being sought hereunder obtained in a manner other than as described in the preceding paragraph should be regarded as unofficial. **COMMISSION** will not be bound in any way by information so obtained, or by a Bidder's reliance thereon.

12. **COMMUNICATIONS:** Any communication between any potential vendor, service provider, bidder, lobbyist or consultant and any U.C. Commission Member, staff member, or consultant of the U.C. regarding this procurement is strictly prohibited from the date on which the solicitation advertisement appears on the U.C.'s website, Demandstar, or newspaper through the date of contract award. Also from the date of the filing of any notice of protest of award through resolution for the parties involved in the protest or contract award, whichever is longer. The only exceptions to this are communications with the U.C.'s Material Manager or the U.C.'s designated point of contact. Any violation shall constitute grounds for immediate and permanent disqualification of the offending firm and possible debarment or suspension. At the U.C.'s General Manager/CEO and Director of Finance (CFO)'s sole discretion, it may also serve as grounds for the voiding of any Contract with the violator and/or to temporarily or permanently debarring the violator from future work with the U.C. This process will safeguard the integrity of the U.C.'s procurement and protest process and also provide an ethical, equitable, and transparent procurement process.
13. **NON DISCLOSURE:** The Utilities Commission understands the vendors concerns regarding confidential and/or proprietary information for both participating parties. In response UCNSB is incorporating the following verbiage into **ITB 08-19 Smyrna Substation Expansion** Upon receipt by UCNSB, responses to solicitations become public records subject to the provisions of Florida's state policy on public records, Section 119 Florida Statutes. If you believe that any portion of your response is exempt you should clearly

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identify the specific documents for which confidentiality is claimed, and provide specific legal authority of the asserted exemption.

14. **INVOICES**: All invoices resulting from the award of this bid will be paid within 30 days of receipt of invoice or receipt of goods or acceptance of work performed.
15. **BID FORM**: A Bid Form is provided and a completed original and one duplicate copy shall be returned in a **sealed envelope properly marked with Bid number and acknowledgment of receipt of addenda where applicable**. It is incumbent upon each bidder to ensure that they have received all addenda before submitting their bid.
16. **BID OPENING**: Bids will be publicly opened, read aloud and recorded, on the date and time indicated, at the location specified in the request for bid. It is the **BIDDER's** sole responsibility to assure his/her bid is delivered at the proper time and place of the bid. The **COMMISSION** will not be responsible for late deliveries or delayed mail. Bids delivered after the time specified shall not be considered; such bids shall remain **unopened**.
17. **QUOTING PRICES**: Carelessness in quoting prices or in preparation of bid otherwise will not relieve the **BIDDER**. **BIDDERS** are expected to examine specifications, delivery schedule, extensions, and all terms and conditions in the bid documents. Bids having erasures or corrections must be initialed in ink by the **BIDDER**. In the event of an extension error(s), the unit price will prevail.
18. **AMENDED OR WITHDRAWN BIDS**: Bids may be amended or withdrawn only by written notice prior to the bid opening. Amendments will only be accepted in the form of a new bid package. The bidder must pick up the original bid package and submit an amended sealed bid prior to the bids closing date and time. Amendments or withdrawals received after the bid opening will not be effective, and the original bid submitted will be considered.
19. **PUBLIC ENTITY CRIMES**: UNDER SECTION 287.133(2)(a), FLORIDA STATUTES, a person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, for Category two for a period of 36 months from the date of being placed on the convicted vendor list. See attachment "A".
20. **CONSIDERATION OF BIDS**: The **COMMISSION** reserves the right to award the contract to the Bidder(s) that the **COMMISSION** deems to offer the best overall bid. The **COMMISSION** is therefore not bound to accept a bid on the basis of lowest price. In addition, the **COMMISSION** at its sole discretion, reserves the right to cancel this Bid, to reject any and all bids, to waive any and all informalities and/or irregularities, to re-advertise with either the identical or revised specifications, or not award a contract at all if it is deemed

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to be in the best interest of the **COMMISSION** to do so. The **COMMISSION** also reserves the right to make multiple or split awards if it is deemed to be in the **COMMISSION'S** best interest. The **COMMISSION** shall not be responsible for any cost or expense incurred by the Bidder in preparing or submitting a bid or any cost prior to the execution of a contract agreement.

21. **TIE BID:** In the event of a tie bid where quality and service are equal; a preference is given to vendors submitting, with the proposal, a certification of a drug free work place in accordance with Section 287.087 Florida Statutes. Where tie bids are between bidders, one of which is located in Volusia County and the other bidder is not, the recommended award shall be to the local bidder. Past Performance-Consideration will be given to a vendor based on previous history and performance on similar Utilities Commission projects or requirements. Delivery availability or completion period. Capacity to perform in terms of service availability, facilities, personnel or financial availability. Closeness to delivery point. If **all** conditions are equal, a flip of a coin, with two witnesses present, shall be the deciding factor.
22. **SUBMITTING BIDS:** Bids shall be **addressed and mailed or delivered as specified on page one (1) to 200 Canal St. New Smyrna Beach, Florida 32168.**
23. **NO BID:** In the event an Invitation to Bid is returned as a no bid, "**NO BID**" shall be properly marked on the outside of the envelope with the bid number.
24. **REJECTED BIDS:** The **COMMISSION** reserves the right to reject bids containing any additional terms or conditions not specifically requested in the original conditions and specifications.
25. **FAILURE OF THE CONTRACTOR TO DELIVER:** Failure of the contractor to deliver within the time specified, or within a reasonable time as interpreted by the **COMMISSION** or failure to make replacements of rejected articles as directed, shall permit the **COMMISSION** to purchase on the open market articles of comparable grade to take the place of those rejected or not delivered. On all such purchases, the contractor shall reimburse the **COMMISSION**, within a reasonable time specified by the Purchasing Authority, for any expenses incurred in excess of the defaulted price. Payments due the contractor by the **COMMISSION** may be withheld until reimbursement is received.
26. **BRAND OR TRADE NAMES:** When brand or trade names are used in the bid invitation, it is for the purpose of item identification and to establish standards for quality; style and features. Bids on equivalent items will be considered unless items are noted as no substitutes. Equivalent bids must be accompanied by descriptive literature and/or specifications to receive consideration. Demonstrations and/or samples may be required and shall be at no charge to the **COMMISSION**. The **COMMISSION** reserves the right to determine if bid goods are equivalent to specified goods.
27. **AWARDS:** Awards shall be made as required for the best interest of the **COMMISSION**. The right is reserved to make award(s) by individual items, group of items, all or none, or any combination thereof, with one or more suppliers.

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28. **INDEPENDENT CONTRACTORS:** Contractor is an independent contractor, and all persons employed by Contractor in connection herewith shall be its employees and not employees of **COMMISSION** in any respect.

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29. **INSURANCE**: The Contractor shall, at its sole expense, maintain in effect at all times during the performance of the services insurance coverage with limits not less than those set forth below and with insurers and under forms of policies satisfactory to **COMMISSION**.

Coverage	Minimum Amounts and Limits
(a) Worker's Compensation	Statutory requirements at location of work
Employer's Liability	\$ 100,000 Each occurrence \$ 300,000 Disease, aggregate \$ 100,000 Disease, each employee
(b) General Liability	\$ 1,000,000 General Aggregate \$ 1,000,000 Products - Comp Ops Agg \$ 500,000 Each Occurrence \$ 50,000 Fire Damage \$ 5,000 Medical Expense
(c) Automobile Liability (owned, hired and non-owned)	\$ 1,000,000 Combined Single Limit
Option of Split Limits:	
(1.) Bodily Injury	\$ 500,000 Per Person \$ 1,000,000 Per Accident
(2.) Property Damage	\$ 500,000

Coverage shall apply to the indemnity agreement and shall include the **COMMISSION** their officers and employees, each as additional insured's but only as regards to their liability arising out of Contractor's performance of the work or out of operations performed by others on behalf of Contractor under this Contract. The insurance as afforded to such additional insured's shall state that it is primary insurance and shall provide for a severability of interest or cross-liability clause. Prior to commencing performance of any work or site mobilization, Contractor shall furnish **COMMISSION** with Certificates of Insurance (identifying on the face thereof the Project name and Contract number) as evidence of the above required insurance and such Certificates shall provide for thirty (30) days written notice to **COMMISSION** prior to cancellation thereof.

COMMISSION is not maintaining any insurance on behalf of Contractor covering loss or damage to the work or to any other property of Contractor unless otherwise specifically set forth herein.

None of the requirements contained herein as to types, limits and approval of insurance coverage to be maintained by Contractor are intended to and shall not in any manner limit or qualify the liabilities and obligations assumed by Contractor under this contract.

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Contractor shall deliver the original Certificate of Insurance and one copy to the agent of the **COMMISSION**.

Notices, in original and one copy, of cancellation, termination and alternation of such policies shall also be provided to the agent of the **COMMISSION**.

30. **WARRANTY AND ACCEPTANCE**: All material shall be new and workmanship shall be first class in every respect. The work shall be subject to inspection and acceptance by **COMMISSION**. Contractor guarantees its work hereunder for a period of twelve (12) months after completion and acceptance of the work unless otherwise set forth herein. In the event **COMMISSION** discovers defects in material or workmanship at any time before the expiration of the specified warranty period, Contractor shall, upon written notice from **COMMISSION**, repair or replace at its sole expense any such defects. **COMMISSION** may perform such repairs or replacements by other reasonable means and Contractor agrees to pay for such corrective measures. Neither acceptance of the work by **COMMISSION** nor payment shall relieve Contractor from liability under the indemnity clause or any of the guarantees or warranties contained or implied herein.
31. **LAWS, REGULATIONS, PERMITS AND TAXES**: Contractor must comply with **COMMISSION**'s jobsite procedures and regulations and with all applicable local, state and federal laws, rules and regulations and must obtain all permits required for any of the work performed hereunder. Contractor must procure and pay for all permits and inspections required for any of the work performed hereunder and must furnish any bonds, security or deposits required to permit performance of the work. Contractor must, to the extent permissible under applicable law, comply with the jobsite provisions which validly and lawfully apply to work on the specific jobsite being performed under this Contract.
32. **WORK RULES, SECURITY**: For work performed on **COMMISSION** premises, Contractor shall strictly observe **COMMISSION** work rules and security requirements. All work shall be carried out during normal **COMMISSION** working hours unless specifically agreed to in writing by **COMMISSION**. Contractor shall, at **COMMISSION**'s request remove from site any employee whom **COMMISSION** deems to be incompetent, dishonest or uncooperative.
33. **CHANGES**: **COMMISSION** may, at any time, direct in writing additions, deletions or changes to all or any part of the work. If any such changes cause an increase or decrease in the cost of or in the time required to perform such work, Contractor shall submit detail information substantiating such claims and an equitable adjustment shall be made to the price or time of performance.
34. **RELEASE AGAINST LIENS OR CLAIMS**: Contractor shall promptly pay all claims of persons or firms furnishing labor, equipment or materials used in performing the work hereunder. **COMMISSION** may require Contractor to submit satisfactory evidence of payment and releases of all such claims. If there is any evidence of any such unpaid claim, the **COMMISSION** may withhold any payment until Contractor has furnished such evidence of payment and release.

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35. **ASSIGNMENT**: Any assignment by Contractor of this Contract or of any rights hereunder or hypothecation thereof in any manner, in whole or in part, by operation of law or otherwise, without the prior written consent of the **COMMISSION** shall be voided.
36. **SAFETY AND FIRE PREVENTION**: Contractor shall at all times conduct all operations under the Contract in a manner to avoid risks of bodily harm to persons, damage to any property and fire. Contractor shall be responsible to take all precautions necessary and continuously inspect all work, materials and equipment to discover, determine and correct any such conditions which may result in any of the aforementioned risks.
37. **SUSPENSION OF WORK AND TERMINATION**: **COMMISSION** May Suspend Work - The **COMMISSION** may at any time and without cause suspend the Work or any portion thereof by notice in writing to the Contractor. The Project Manager shall fix the date on which Work shall be resumed and the Contractor will resume the Work on the date so fixed. The Contractor will be allowed an extension of the Contract Time, if directly attributable to any suspension. However, no change to the contract price will be allowed on claims for suspended work or delays, whatever the Cause or reason.

COMMISSION May Terminate for Cause - If the Contractor is adjudged bankrupt or insolvent; if he makes a general assignment for the benefit of his creditors without **COMMISSION** approval; if a trustee or receiver is appointed for the Contractor or for any of his property; if he files a petition to take advantage of any debtor's act or to reorganize under the bankruptcy or similar laws; if he fails to prosecute and complete the Work in accordance with the established Project Schedule or within the Contract Time allowed; if he repeatedly fails to supply sufficient skilled workers or suitable materials or equipment; if he repeatedly fails to make prompt payment to subcontractors for labor, materials or equipment; if he disregards laws, ordinances, rules, regulations or orders of any public body having jurisdiction; if he disregards the authority of the Project Manager; or if he otherwise substantially violates any provisions of the Contract Documents, then the **COMMISSION** may, without prejudice to any other right or remedy and after giving the Contractor and his Surety seven (7) days written notice, terminate the services of the Contractor and take possession of the Work and of all materials, equipment, tools, construction equipment and machinery thereon owned by the Contractor and assign the completion of the Work to the Surety, or finish the Work by whatever method it may deem expedient. In such case, the Contractor shall not be entitled to receive any further payment until the Work is finished. If the unpaid balance of the Contract Amount exceeds the direct and indirect cost of completing the Work, including compensation for additional professional services, such excess shall be paid to the Contractor. If such cost exceeds such unpaid balance, the Contractor will pay the difference to the **COMMISSION**. Such cost incurred by the **COMMISSION** will be determined by the **COMMISSION** and incorporated in a Change Order.

Where the Contractor's services have been so terminated by the **COMMISSION**, said termination shall not affect any rights of the **COMMISSION** against the Contractor then existing or which may thereafter accrue. Any retention or payment of moneys by the **COMMISSION** due the Contractor will not release the Contractor from liability.

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Upon Termination for Cause, the Contractor shall not be entitled to payment for any anticipated supplemental costs, administrative expenses and/or profit for uncompleted Work. If after notice of termination of the services of the Contractor for cause, it is determined that the Contractor was not in default, the termination shall be deemed to have been for the convenience of the **COMMISSION**. In such event the Contractor may recover from the **COMMISSION** payment for Work completed and reasonable termination costs as provided in the following paragraph.

Termination for Convenience: Upon seven (7) days written notice to the Contractor and the Surety, or sooner if reasonable under the circumstances, the **COMMISSION** may, without cause and without prejudice to any other right or remedy, elect to terminate any part of the Work, or the Contract in whole or in part, as the **COMMISSION** may deem appropriate. In any termination for convenience, the Contractor shall be paid for work completed, and costs incurred, materials delivered or ordered by the Contractor and subcontractors at the time of termination provided, however, that the payment to the Contractor will exclude any and all anticipated supplemental costs, administrative expenses and profit for uncompleted Work. Upon termination for convenience, the **COMMISSION** shall have full power and authority to take possession of the Work, assume any sub-agreements with Subcontractors and suppliers which the **COMMISSION** selects, and prosecute the Work to completion by contract or as the **COMMISSION** may deem expedient.

Removal of Contractor Employee: The **COMMISSION** retains the right to require immediate removal of any contractor employee, including the foreman or superintendent if in the **COMMISSION**'s sole determination it is in the interest of the **COMMISSION** or the project. Such removal should be immediate and not subject to approval or discussion.

38. **MAINTENANCE OF RECORDS:** The Contractor will keep adequate records and supporting documents applicable to this contract. Said records and documentation will be retained by the Contractor for a minimum of five (5) years from the date of final payment on this Contract. The **COMMISSION** and its authorized agents shall have the right to audit, inspect and copy records and documentation as often as the **COMMISSION** deems necessary during the period of this contract and a period of five (5) years after completion of contract performance; provided however, such activity shall be conducted only during normal business hours. The **COMMISSION**, during the period of time defined by the preceding sentence, shall also have the right to obtain a copy of and otherwise inspect any audit made at the direction of the Contractor as concerns the aforesaid records and documentation.
39. **CONFLICT OF INTEREST OF OFFICERS OR EMPLOYEES OF THE CONTRACTING ENTITY/LOCAL JURISDICTION, MEMBERS OF THE LOCAL GOVERNING BODY, OR OTHER ELECTED OFFICIALS:** No member or employee of the contracting entity/local jurisdiction or its designees or agents; no member of the governing body; and no other public official of the **COMMISSION** who exercises any function or responsibility with respect to this contract, during his/her tenure or for one year thereafter, shall have any interest, direct or indirect, in any contract or subcontract, or the proceeds thereof, for work to be performed. Further, the Contractor shall cause to be incorporated in all subcontracts, the language set forth in this paragraph prohibiting conflict of interest.

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40. **EMPLOYEE CONFLICT OF INTEREST**: It shall be unethical for any **COMMISSION** employee to participate directly or indirectly in a procurement contract when the **COMMISSION** employee knows that:

(1) The **COMMISSION** employee or any member of the **COMMISSION** employee's immediate family has a financial interest in the procurement contract; or

(2) Any other person, business, or organization with whom the **COMMISSION** employee or any member of a **COMMISSION** employee's immediate family is negotiating or has an arrangement concerning prospective employment is involved in the procurement contract.

A **COMMISSION** employee or any member of a **COMMISSION** employee's immediate family who holds a financial interest in a disclosed blind trust shall not be deemed to have a conflict of interest with regard to matters pertaining to that financial interest.

41. **GRATUITIES AND KICKBACKS**:

(1) Gratuities. It shall be unethical for any person to offer, give, or agree to give any **COMMISSION** employee or former **COMMISSION** employee, or for any **COMMISSION** employee or former **COMMISSION** employee to solicit, demand, accept, or agree to accept from another person, a gratuity or an offer of employment in connection with any decision, approval, disapproval, recommendation, or preparation of any part of a program requirement or a purchase request, influencing the content of any specification or procurement standard, rendering of advice, investigation, auditing, or in any other advisory capacity **COMMISSION** in any proceeding or application, request for ruling, determination, claim or controversy, or other particular matter, pertaining to any program requirement or a contract or subcontract, or to any solicitation or proposal therefore.

(2) Kickbacks. It shall be unethical for any payment, gratuity, or offer of employment to be made by or on behalf of a subcontractor under a contract to the prime contractor or higher tier sub-contractor or any person associated therewith, as an inducement for the award of a subcontract or order.

(3) Contract Clause. The prohibition against gratuities and kickbacks prescribed in this Section shall be conspicuously set forth in every contract and solicitation therefore.

42. **USE OF PREMISES**: The Contractor will confine his equipment, the storage of materials and equipment, and the operations of his workers to the areas permitted by law, ordinances, permits or the requirements of the Contract Documents and shall not unreasonably encumber the premises with materials or equipment.

The Contractor shall confine the operation of workmen and equipment, and the storage of materials and equipment to the **COMMISSION's** property or to other non- **COMMISSION** property or in public right-of-way areas indicated on the Contract Drawings as including work to be done pursuant to the Contract documents. In the event the Contractor desires to have access to the project site, or perform work or operations pertaining to the contract on, over or from non- **COMMISSION** property adjacent to the project site, the Contractor shall obtain written authorization to do so from the respective adjacent property owner(s) prior to

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using such property. Such written authorization shall include a provision whereby the property owner agrees to hold the **COMMISSION** harmless, and to defend the Utilities Commission, in the event of any liability, loss, injury, or claim incurred as a result of the Contractors work or operations involving the use of the adjacent non-**COMMISSION** property. The **COMMISSION** shall be provided with a notarized, certified copy of such written authorization(s) before the Contractor commences work or operations or use of such property in connection with work or operations pursuant to this contract.

43. **EMERGENCIES**: In emergencies affecting the safety of persons, the Work or property at the site or adjacent thereto, the Contractor, without special instruction or authorization from the Project Manager, is obligated to act at his discretion to prevent threatened damage, injury or loss. He will give the Engineer and or Project Manager prompt written notice of any significant changes in the Work or deviations from the Contract Documents caused thereby, and a Change Order shall thereupon be issued covering the changes and deviations involved. If the Contractor believes that additional Work done by him in an emergency which arose from causes beyond his control entitles him to an increase in the Contract Amount or an extension of the Contract Time, he may make a claim.
44. **CHANGES IN THE WORK**: Without invalidating the Agreement, the **COMMISSION** may, at any time or from time to time, order additions, deletions or revisions in the Work authorized by written Change Orders or directive. Upon receipt of a Change Order, the Contractor will proceed with the work involved. All such work shall be executed under the applicable conditions of the Contract Documents. If any Change Order causes an increase or decrease in the Contract Amount or any extension or shortening of the Contract Time, an equitable adjustment will be made.

Additional Work performed by the Contractor without authorization of a Change Order will not entitle him to an increase in the Contract Amount or any extension of the Contract Time, except in the case of an emergency.

It is the Contractor's responsibility to notify his Surety of any changes affecting the general scope of the Work or change of the Contract Amount and the amount of the applicable bonds shall be adjusted accordingly, and an amended bond document furnished to the **COMMISSION**.

In the event the **COMMISSION** directs the Contractor to make a change in the Work, and if the **COMMISSION** and the Contractor do not arrive at a mutually acceptable increase or decrease in the Contract Amount, the Contractor shall not use any such lack of mutual acceptance as a basis or cause to stop or otherwise delay the progress or the execution and completion of any of the work ordered, directed or required pursuant to the Contract Documents.

45. **PERFORMANCE AND PAYMENT BONDS**: In the event the Contract is awarded to the Bidder, he will thereafter enter into a written contract with the Owner and furnish a Payment and Performance Bond in an amount equal to the contract price, in strict accordance with Section 255.05 of Florida Statutes. Payment and Performance Bonds shall be secured from

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or countersigned by an agency or surety company recognized in good standing and authorized to do business in the State of Florida.

46. **BID BOND**: Bids shall be accompanied by a security deposit as follows: Bid Bond in the amount of a sum no less than **5 percent** of the Bid Price/Sum. Endorse the Bid Bond in the name of the **COMMISSION** as the obligee, signed and sealed by the principal (Contractor) and surety.
47. **HURRICANE OR TROPICAL STORM SUSPENSIONS**: During official hurricane season (June 1 to Nov. 30) this provision will be effective. If a hurricane or tropical storm watch or warning is issued for any part of the **COMMISSION** service area contractors will be required to take the following actions at no added cost to **COMMISSION**.
1. Cease all work except to secure the completed work and protect any stored materials from storm damage, or from being caught into motion by storm forces that may damage other property.
 2. Fill any excavations and secure from erosion and traffic.
 3. Collect and remove or secure any loose material or packing from work or storage areas.
 4. Remove all materials or equipment from any street or roadway.
 5. Remove equipment from the barrier islands.
 6. Evacuate all personnel from work areas upon issue of order by emergency services agency.

Contractors may return to work upon lifting of watches and warnings and restoration of public access. Allowance will be made to contract time for storm warning/watch & preparation plus reasonable time (not more than 5 days unless special circumstances warrant) after access is restored if it has been interrupted by official order. No adjustments will be made to the contract prices.

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48. LIQUIDATED DAMAGES:

If awarded this construction contract, the **BIDDER** agrees to complete the work covered by this contract as follows:

1. Substantially Complete **STAGE ONE** of construction not later than **September 1, 2019**.
2. Substantially Complete the overall construction not later than **April 30, 2020**.
3. Final Completion in **THIRTY (30)** consecutive calendar days from substantial completion.

For the purposes of this project, in general, Substantial Completion of STAGE ONE of construction shall be when the access road and foundations for the power transformers are ready to accept delivery.

In general, Substantial Completion of the overall construction shall be when the substation expansion work has been completed and tested and is ready to be placed in-service. Complete requirements are described in the Measurement and Payment section of the Specifications.

Should the Contractor fail to substantially complete work under this Contract on or before the date stipulated for Substantial Completion (or such later date as may result from extensions of time granted by Owner), he shall pay Owner, as liquidated damages, the sum of **\$1,655.00 (ONE THOUSAND SIX HUNDRED FIFTY-FIVE DOLLARS)** for each consecutive calendar day that terms of the Contract remain unfulfilled beyond date allowed by the contract, which sum is agreed upon as a reasonable and proper measure of damages which Owner will sustain per diem by failure of Contractor to complete work within time as stipulated; it being recognized by Owner and Contractor to complete on schedule is uncertain and cannot be computed exactly. In no way shall costs for liquidated damages be construed as a penalty on the Contractor.

For each consecutive calendar day that the work remains incomplete after the date established for Final Completion, the Owner will retain from the compensation otherwise to be paid to the Contractor the sum of **\$250.00 (TWO HUNDRED FIFTY DOLLARS)**. This amount is the minimum measure of damages the Owner will sustain by Failure of the Contractor to complete all remedial work, correct deficient work, clean up the project and other miscellaneous tasks as required to complete all work specified. This amount is in addition to the liquidated damages prescribed above for Substantial Completion.

47. INDEMNIFICATION FOR TORT ACTIONS/LIMITATION OF LIABILITY:

The provisions of Florida Statute 768.28 applicable to the Utilities Commission, City of New Smyrna Beach apply in full to this contract. Any legal actions to recover monetary damages in tort for injury or loss of property, personal injury, or death caused by the negligent or wrongful act or omission of any employee of the Utilities Commission acting within the scope of his/her office or employment are subject to the limitations specified in this statute.

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No officer, employee or agent of the Utilities Commission acting within the scope of his/her employment or function shall be held personally liable in tort or named as a defendant in any action for injury or damage suffered as a result of any act, event or failure to act.

The Utilities Commission shall not be liable in tort for the acts or omissions of an officer, employee or agent committed while acting outside the course and scope of his/her employment. This exclusion includes actions committed in bad faith or with malicious purpose, or in a manner exhibiting wanton and willful disregard of human rights, safety, or property.

To the fullest extent permitted by law, the vendor shall defend, indemnify, and hold harmless the Utilities Commission, its officials, agents, and employees from and against any and all claims, suits, judgments, demands, liabilities, damages, cost and expenses (including attorney's fees) of any kind or nature whatsoever arising directly or indirectly out of or caused in whole or in part by any act or omission of the vendor or its subcontractors (if any), anyone directly or indirectly employed by them, or anyone for whose acts any of them may be liable; excepting those acts or omissions arising out of the sole negligence of the Utilities Commission .

Provided, however, if the contract between the Utilities Commission and the Contractor is deemed by a court of competent jurisdiction to be a construction contract for purposes of Section 725.06, Florida Statutes, any obligation of the Contractor to defend, indemnify or hold harmless the Utilities Commission, shall be limited to an obligation to indemnify or hold harmless the Utilities Commission, its officers and employees from liability damages, losses, and costs, including but not limited to reasonable attorney's fees, to the extent caused by the negligence, recklessness or intentionally wrongful conduct of the contractor and persons employed or utilized by the Contractor in the performance of the contract.

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CERTIFICATION OF DRUG-FREE WORKPLACE FORM

IDENTICAL TIE BIDS - Preference shall be given to businesses with drug-free workplace programs. Whenever two or more bids which are equal with respect to price, quality, and service are received by the State or by any political subdivision for the procurement of commodities or contractual services, a bid received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process. Established procedures for processing tie bids will be followed if none of the tied vendors have a drug-free workplace program. In order to have a drug-free workplace program, a business shall:

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection (1).
4. In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of chapter 893 or of any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.
5. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, by any employee who is so convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this section.

As the person authorized to sign the statement, I certify that this firm complies fully with the above requirements.

VENDOR SIGNATURE

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PUBLIC ENTITY CRIMES FORM
SWORN STATEMENT UNDER SECTION 287.133(3) (1) FLORIDA STATUTES

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICER AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted Bid, Bid or Contract for SMYRNA SUBSTATION EXPANSION.
2. This sworn statement is submitted by _____
[name of entity submitting sworn statement] whose business address is:
_____ and (if applicable) its
Federal Employer Identification Number (FEIN) is _____.
If entity has no FEIN, include the Social Security Number of the individual signing this
sworn statement: _____.
3. My name is _____ and my relationship to the entity named
above is _____.
4. I understand that a “public entity crime” as defined in Paragraph 287.133 (1) (g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including, but not limited to, any bid or contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state, or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.
5. I understand that “convicted” or “conviction” as defined in Paragraph 287.133 (91) (b), Florida Statutes means a finding of guilt or a conviction of a public entity crime, with or without adjudication of guilt, in any federal or state trial court or recording, relating to charges brought by federal or state trial court or recording, relating to charges brought by federal or state trial court or recording, relating to charges brought by indictment or information after July 1, 1989, as a result of just verdict, non-jury trial, or entry of a plea of guilty or nolo contendere.
6. I understand the “affiliate” as defined in Paragraph 287.133(1)(a), Florida Statutes, means: (1) A Predecessor or Successor of a person convicted of public crime: or (2) An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term “affiliate” includes those officers, directors, executives, partners, shareholder, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm’s length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of public crime in Florida during the preceding 36 months shall be considered an affiliate.

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Public Entity Crimes Statement

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7. I understand that a “person” as defined in Paragraph 287.133(1) (e), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which bids or applies to bid on contracts for the provisions of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term “person” includes those officers, directors, executives, partners, shareholders, employees, members and agents who are active in management of an entity.

8. Based on information and belief, that statement which I have marked below is true in relation to the entity submitting this sworn statement. [Please indicate which statement applies]

____ Neither the entity submitting this sworn statement, or one more of the officers, directors, executives, partners, shareholders, employees, members or agents who are active in the management of the entity, nor any affiliate or the entity, has been charged with and convicted of public entity subsequent to July 1, 1989, AND [Please indicate which additional statement applies.]

____ There has been a proceeding concerning the conviction before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer did not place the person or affiliate on the convicted vendor list. [Please attach a copy of the final order.]

____ The person or affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or affiliate from the convicted vendor list. [Please attach a copy of the final order.]

____ The person or affiliate has not been placed on the convicted vendor list. [Please describe any action taken by or pending with the Department of General Services.]

Date _____ Signature _____

STATE OF: _____ COUNTY OF: _____

PERSONALLY APPEARED BEFORE ME, the undersigned authority, _____
[name of individual signing] who after first sworn by me affixed his/her signature in the space
provided above on this _____ day of _____, 20_____.

My commission expires: _____ Personally known to me, or
Produced Identification: _____

Notary Public _____ Print, Type or Notary Stamp _____ Type of I.D. _____

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NON-COLLUSION AFFIDAVIT OF PRIME BIDDER FORM

State of _____

County of _____

_____, being first duly sworn, deposes and says that:

He/she is _____ of _____, Bidder that has submitted the attached Bid;

He/she is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;

Neither the said Bidder nor any of its officers, partners, owners, agent representatives, employees, or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly, sought by agreement or collusion or communication or conference with any other Bidder, firm or person, to fix the price or prices in the attached Bid or of any other Bidder, or to fix any overhead, profit or cost element of the Bid price or the Bid price of any other Bidder, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against the **COMMISSION**.

The price or prices quoted in the attached Bid are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Bidder or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

Signed

Title

Subscribed and sworn to before me this _____ day of _____, 20____.

Title

My Commission Expires: _____

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AUTHORIZED SIGNATURES/NEGOTIATORS

The **BIDDER** or proposer represents that the following persons are authorized to sign and/or negotiate contracts and related documents to which the **BIDDER** or proposer will be duly bound:

Name	Title	Phone #

(Signature)

(Title)

(Name of Business)

The **BIDDER**/offeror shall complete and submit the following information with the bid or proposal:

Type of Organization

- | | |
|---------------------------|-------------------|
| _____ Sole Proprietorship | _____ Partnership |
| _____ Joint Venture | _____ Corporation |

State of Incorporation: _____

Federal I.D. or Social Security number is: _____

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VENDOR APPLICATION

In addition to General conditions, your **BID** may be disqualified if the following vendor information is not returned with your **BID**.

Vendor is:

- () Corporation
- () Partnership
- () Sole Proprietorship
- () Other _____ (Explain)

Federal Employer Identification
Number or Social Security Number: _____

Do you collect Florida State Sales Tax? () Yes () No

Firm Name: _____

Mailing Address: _____

Telephone No. _____ Fax No. _____

Email Address: _____ Web Address: _____

Commodity or Service Supply: _____

If vendor is quoting, as a manufacturer's representative and the purchase order should be addressed to the manufacturer in care of the vendor, so indicate.

If remittance address is different from the mailing address so indicate below.

Firm Name: _____

Mailing Address: _____

Submitted by: _____

Name & Title Printed: _____

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QUESTIONNAIRE

Additional space may be required. Please answer questions in the order presented. All questions must be answered or contractor may be disqualified.

1. Has your company ever been denied insurance or had insurance canceled?
2. Is your company bondable? Has your company ever been denied bond?
If yes, explain.
3. Can your insurance company produce a certificate of insurance stating your limits and naming UCNSB as an Additional Insured?
4. Since January 1, 2014, has your company been a defendant in any lawsuits?
5. Is your company a subsidiary or otherwise legally affiliated with any other company?
6. Is your company rated by Dunn & Bradstreet or any other rating agency?
If yes, what is the name of the agency and rating?
7. Is your company in any stage of bankruptcy, including initial filing?
8. Has your company been disbarred by the Federal Government or any State Government?
9. How many employees does your company have?

Staff Employees: Full Time_____ Part Time_____

Contract Employees: Full Time_____ Part Time_____

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REQUIRED DISCLOSURE

At its sole discretion, the **COMMISSION** may reject any bidder the **COMMISSION** finds to lack, or whose present or former executive employees, officers, directors, stockholders, partners or owners are found by the **COMMISSION** to lack honesty, integrity, or moral responsibility. The discretion of the **COMMISSION** may be exercised based on the **COMMISSION'S** own investigation, public records, or any other reliable sources of information. By submitting a bid, bidder recognizes and accepts that the **COMMISSION** may reject the bid based upon the exercise of its sole discretion and bidder waives any claim it might have for damages or other relief resulting from the rejection of its bid based on these grounds.

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BID SUBMITTAL REQUIREMENTS

Bids shall include all of the information solicited in this ITB, and any additional information that the **BIDDER** deems pertinent to the understanding and evaluating of the bid. Bids shall be organized and sections tabbed in the following order. The **BIDDER** should not withhold any information from the written response in anticipation of presenting the information orally or in a demonstration, since oral presentations or demonstrations may not be solicited. All bids shall include, at a minimum, the following information. Failure to supply all of the information requested shall result in the bid being excluded from consideration. The **COMMISSION** reserves the right to request information or clarification from bidders following the bid opening if omissions are deemed curable.

- TAB #1 Experience:** Provide a profile showing company history, business structure, and a list of principals. A minimum of five (5) years in business is required.
- TAB #2 References:** The BIDDER shall submit a detailed list of clients for which BIDDER has provided similar services within the last two (2) years. Please include a brief description of the scope of work performed and the name, phone number and email address of the contact person. The BIDDER shall submit complete, up-to-date and correct information, and shall respond promptly and effectively to any supplemental requests by the COMMISSION for information not originally provided; to establish to the complete satisfaction of the COMMISSION that the BIDDER has the necessary facilities, ability, experience, physical and financial resources, and personnel to perform the work in a satisfactory manner within the times specified.
- TAB #3 Pricing:** Complete, sign and submit the Bid Tabulation and Bid Form.
- TAB #4 License and Insurance:** Submit a current Occupational License, from an authorizing government agency, and a current Certificate of Insurance. The **COMMISSION** does not need to be named as an Additional Insured at this time but this is a requirement when work commences.
- TAB #5 Other Required Forms:** Complete, sign, notarize (if required) and submit the following:
- A. Certification of Drug-Free Workplace
 - B. Public Entity Crimes
 - C. Non Collusion Affidavit of Prime Bidder
 - D. Authorized Signatures/Negotiators
 - E. Taxpayer Identification Number and Certification W-9
 - F. Vendor Application
 - G. Questionnaire
 - H. Compliance with the Florida Trench Safety Act
- TAB #6 Addenda Acknowledgement:** Complete, sign and submit all addenda (if any).

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**COMPLIANCE WITH THE FLORIDA TRENCH SAFETY ACT
(553.60-553.64 INCLUSIVE FLORIDA STATUTES)**

BIDDER hereby acknowledges that all costs for complying with the Florida Trench Safety Act (553.60-553.64 inclusive Florida Statutes) are included in the various items of the proposal and in the total bid price. For informational purposes only, the **BIDDER** is required to further identify these costs to be summarized below:

Trench Safety Measure (Description)	Unit of Measure (LF, SY)	Unit (Quantity)	Extended Cost
A. _____	_____	_____	_____
B. _____	_____	_____	_____
C. _____	_____	_____	_____
D. _____	_____	_____	_____

THIS IS NOT A PAY ITEM. The purpose of this form is to disclose information on the costs associated with trench safety measures and to insure that the **BIDDER** has considered these costs and has included them in the bid price. Contractor will not receive additional payment if actual quantities differ from those estimated above or if the contractor uses a safety measure different than those listed.

Failure to complete the above form, if applies to **BID**, may result in the **BID** being declared non-responsive.

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BID SCOPE OF WORK

BIDDER NAME: _____

The **COMMISSION** is seeking a **Qualified Certified Substation Construction Contractor** licensed in the State of Florida to complete the following scope of work.

Provide management and administration, labor and supervision, construction tools and equipment, materials and expendables, and temporary and permanent construction services to perform the individual construction items of work for the SMYRNA SUBSTATION EXPANSION, complete, including overhead and profit.

The project location is the Smyrna Substation, located at 3019 SR-44, New Smyrna Beach, Florida, west of I-95 and north of SR-44 (Volusia County).

In general, the project involves relocating a portion of transmission line and extending the substation grade to allow for substation expansion, constructing a substation addition to include two power transformers with high side circuit switcher protection, low side main-tie-main breakers, and six feeder circuit breakers, and removing the existing power transformer and feeder breakers.

Construction items of work will include material procurement, temporary construction and protection, clearing and grading, access road, fencing and gates, foundation installation, conduit and cable trench installation, ground grid installation, yard cover, transmission pole and conductor installation, owner-furnished power transformer and equipment installation, substation structures and supports, substation devices and bus materials, relay and control panels, power and control cable installation, wiring and testing, modifications and removals, and project documentation. All work shall be completed per the requirements of the Construction Drawings, Technical Specifications, and approved submittals.

The Owner will furnish the Contractor with the following items. All other items required for completion of the Work will be furnished by the Contractor and shall be a part of the Contractor's bid price. Contractor shall install all materials provided by Owner or Contractor.

- Circuit Switcher, SF6, 121 kV class, 1200 A, with steel support structure, Southern States, quantity 2;
- Power Transformer with LTC, 115Δ-22.86Y kV, 18/24/30//33.6 MVA, ABB, quantity 2;
- Vacuum Circuit Breaker, outdoor, 27 kV class, 1200A, ABB, quantity 9.

Some construction items of work can be completed without taking a clearance outage. Other items of work will require a clearance outage on either a transmission line, or a segment of substation bus, or of the existing substation power transformer. All outages must be approved by the Owner, and denial of an outage request will be cause for a change in the project cost or schedule.

The contractors or other qualified Bidders on the construction covered by this proposal, along with their suppliers and sub-contractors, are considered to be experts in the procurement and installation of substation and transmission materials, and as experts, should have complete and up-to-date

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information as to the cost of raw materials, labor and other factors affecting the final price of such construction. Therefore, firm price proposals are specifically requested.

Bidders shall inform themselves fully of the requirements of applicable Federal, State and local laws, statutes, regulations, standards, permits and other requirements which are incorporated herein by reference and which shall have the same effect as if fully set forth.

Contractor shall provide insurance, materials, tools, labor, equipment and supervision to perform all work necessary to complete this scope of work. Contractor shall reference plans and specifications attached for further detail.

Contractor shall submit a construction schedule with bid submittal.

Contractor is responsible for staging area and storage of materials. The **COMMISSION** will pay for installed materials only.

Construction shall adhere to the attached Construction Plans & Bid Specifications and the **COMMISSION**'s Rules, Design and Construction Specifications, current edition.

All construction is subject to the **COMMISSION**'s inspection.

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**BID TABULATION
Page 1 of 4**

BIDDER NAME: _____

STAGE ONE AND BASE BID

Item No.	Description	Est. Quantity	Unit	Unit Price	Total
1	STAGE ONE Clearing, Site Work, Access Road, and Fence	1	LS	\$	\$
2	STAGE ONE Transformer Foundations	1	LS	\$	\$
3	STAGE ONE Replace Airport Line Structure 1	1	LS	\$	\$
4	Procure Transmission Materials	1	LS	\$	\$
5	Procure Substation Material Package	1	LS	\$	\$
6	Procure Relay / Control Panel Package	1	LS	\$	\$
7	Site Work and Yard Cover	1	LS	\$	\$
8	Fences and Gates	1	LS	\$	\$
9	Conduit, Cable Trench, Boxes, and Cable Tray	1	LS	\$	\$
10	Substation Grounding	1	LS	\$	\$
11	Substation Foundations	1	LS	\$	\$
12	Transmission Line Relocation	1	LS	\$	\$
13	Install Owner-Furnished Circuit Switchers	1	LS	\$	\$
14	Install Owner-Furnished Vacuum Circuit Breakers	1	LS	\$	\$
15	Install Substation Materials	1	LS	\$	\$
16	Substation Relocations and Removals	1	LS	\$	\$
17	Panelboards, Transfer Switch, Power and Control Cables	1	LS	\$	\$
18	Install Relay / Control Panels	1	LS	\$	\$
19	Testing and Documentation	1	LS	\$	\$
20	Contingency	1	LS	\$ 200,000.00	\$

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**BID TABULATION
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BIDDER NAME: _____

TOTAL NUMERIC BID COST \$ _____

TOTAL WRITTEN BID COST: _____

Bid will be evaluated on the total cost written above.

UNIT PRICES FOR ADDITIONAL MATERIALS

Item No.	Description	Material	Labor/ Equipment	Total	Unit
A	Additional 5/8" x 10' Ground Rod (Transmission)	\$	\$	\$	Each
B	Additional Concrete	\$	\$	\$	Yard
C	Additional Rebar	\$	\$	\$	lb
D	Additional Control Cable	\$	\$	\$	CLF
E	Additional SIS Panel Wire	\$	\$	\$	CLF

****Complete the Information to be Furnished with Bid and Schedule of Values.****

Insert Contractor & Manufacturer warranties and Qualification documents after this page.

Contractor shall include fixed itemized \$200,000 contingency for this project. It will be returned to **COMMISSION** if not used.

**BIDDERS must sign BID FORM.
BID TABULATION
Page 3 of 4**

Information to be Furnished with Bid - Sheet 1

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SUBCONTRACTOR AND SUPPLIER INFORMATION

Validity of Bid, if different than 90 days _____

Site Work Subcontractor (name) _____

(address) _____

Foundations Subcontractor (name) _____

(address) _____

Transmission Subcontractor (name) _____

(address) _____

Electrical Testing Subcontractor (name) _____

(address) _____

Other (identify service) Subcontractor _____

(address) _____

(address) _____

Transmission Pole Supplier (name) _____

Substation Packager (name) _____

Relay / Control Panel Supplier (name) _____

Concrete Supplier (name) _____

**UTILITIES COMMISSION
CITY OF NEW SMYRNA BEACH, FLORIDA**

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BID TABULATION

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Information to be Furnished with Bid - Sheet 2

MATERIAL AND LABOR/EQUIPMENT COSTS FOR EACH LINE ITEM

Item No.	Description	Material	Labor/ Equipment	Total (match Bid Form)
1	STAGE ONE Clearing, Site Work, Access Road, and Fence	\$	\$	\$
2	STAGE ONE Transformer Foundations	\$	\$	\$
3	STAGE ONE Replace Airport Line Structure 1	\$	\$	\$
4	Procure Transmission Materials	\$	\$	\$
5	Procure Substation Material Package	\$	\$	\$
6	Procure Relay / Control Panel Package	\$	\$	\$
7	Site Work and Yard Cover	\$	\$	\$
8	Fences and Gates	\$	\$	\$
9	Conduit, Cable Trench, Boxes, and Cable Tray	\$	\$	\$
10	Substation Grounding	\$	\$	\$
11	Substation Foundations	\$	\$	\$
12	Transmission Line Relocation	\$ n/a	\$	\$
13	Install Owner-Furnished Circuit Switchers	\$ n/a	\$	\$
14	Install Owner-Furnished Vacuum Circuit Breakers	\$	\$	\$
15	Install Substation Materials	\$	\$	\$
16	Substation Relocations and Removals	\$	\$	\$
17	Panelboards, Transfer Switch, Power and Control Cables	\$	\$	\$
18	Install Relay / Control Panels	\$	\$	\$
19	Testing and Documentation	\$	\$	\$

**UTILITIES COMMISSION
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**BID FORM
page 1 of 2**

BIDDER NAME: _____

Pursuant to, and in compliance with, COMMISSION'S ADVERTISEMENT FOR BID dated **February 4, 2019** and the INFORMATION FOR BIDDERS AND OTHER CONTRACT DOCUMENTS relating hereto, the undersigned hereby proposes to furnish all tools, labor, equipment and materials to perform all the work necessary for the **SMYRNA SUBSTATION EXPANSION** for the **UTILITIES COMMISSION, CITY OF NEW SMYRNA BEACH, VOLUSIA COUNTY, FLORIDA**, all as required by and in strict accordance with the Contract Documents, Schedules, Scope of Work and Construction Plan, at the prices listed in the Bid Tabulation enclosed.

The undersigned **BIDDER** agrees to commence work within **FOURTEEN (14) CALENDAR DAYS** after the date of the Notice-to-Proceed letter, **to submit Shop Drawings within SIXTY (60) CALENDAR DAYS after the date of the Notice-to-Proceed letter, to complete the STAGE ONE Work described in the Bid Scope of Work and Bid Tabulation by September 1, 2019, and shall complete the overall Work described in the Bid Scope of Work and the Bid Tabulation (**Substantial Completion**) by April 30, 2020.**

The undersigned **BIDDER** hereby represents that the Drawings and the Contract, including all Contract Documents, have been carefully examined and the **BIDDER** will execute the Contract and perform all its items, covenants and conditions, all in strict compliance with the requirements of the specifications and drawings. The **BIDDER**, by and through the submission of his bid, agrees that he has examined and that he shall be held responsible for having heretofore examined the site, the location and route of all proposed work and for having satisfied himself as to the character of the route, the location, surface and underground obstruction, the nature of the groundwater conditions, and all other physical characteristics of the Work, in order that he may include in the prices which he bid, all costs pertaining to the Work and thereby provide for the satisfactory completion thereof, including the removal, relocation or replacement of any objects or obstructs which will be encountered in doing the proposed Work.

BIDDERS must sign BID FORM.

UTILITIES COMMISSION
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BID FORM
page 2 of 2

The undersigned hereby declares that the following list states any and all variations from, and exceptions to, the requirements of the instruction and specifications.

These Prices are valid for orders placed within ninety (90) days from date of fully executed Contract Documents.

Submitted By:

Company _____

Name and Title _____ Signature _____

Telephone No. _____ e-mail _____

The COMMISSION reserves the right to award the contract to the Bidder(s) that the COMMISSION deems to offer the best overall bid. The COMMISSION is therefore not bound to accept a bid on the basis of lowest price. In addition, the COMMISSION at its sole discretion, reserves the right to cancel this Bid, to reject any and all bids, to waive any and all informalities and/or irregularities, to re-advertise with either the identical or revised specifications, or not award a contract at all if it is deemed to be in the best interest of the COMMISSION to do so. The COMMISSION also reserves the right to make multiple or split awards if it is deemed to be in the COMMISSION'S best interest. The COMMISSION shall not be responsible for any cost or expense incurred by the Bidder in preparing or submitting a bid or any cost prior to the execution of a contract agreement.

As representative for the PROPOSER, I have read and understand this statement.

Name and Title _____ Signature _____

BIDDERS MUST SIGN BID FORM.

**UTILITIES COMMISSION
CITY OF NEW SMYRNA BEACH, FLORIDA**

**ITB# 08-19
SMYRNA SUBSTATION EXPANSION**

STATEMENT OF NO BID

If you do **NOT** intend to bid on this requirement/ project, please return this form immediately. Thank you, Utilities Commission, City of New Smyrna Beach, Florida

We, the undersigned have declined to submit a bid due to the following reason(s):

- Specifications too "tight", i.e. geared toward one brand/manufacturer service only (explain below).
- Unable to meet time period for responding to bid.
- We do not offer this product or service.
- Our schedule would not permit us to perform.
- Unable to meet specifications.
- Unable to meet Bond/Insurance requirement(s).
- Specifications unclear (explain below).
- Unable to meet insurance requirements.
- Please remove us from your "bidder's list".
- Other (specify below).

REMARKS: _____

We understand that if the "No Bid" letter is not executed and returned our name may be deleted from the bidder's list of the Utilities Commission, City of New Smyrna Beach, FL.

Company Name: _____ **E-mail:** _____

Bid Number: _____ **Date:** _____

Signature: _____ **Fax:** _____

Telephone: _____

**UTILITIES COMMISSION
CITY OF NEW SMYRNA BEACH, FLORIDA**

ITB# 08-19
SMYRNA SUBSTATION EXPANSION

BID BOND – SECTION 00410

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned,

_____ as Principal, and _____

_____ as Surety, are hereby held and firmly bound unto the Utilities Commission, City of New Smyrna Beach, Florida as Owner in the penal sum of, (ten percent (10%) of the Contract Bid) _____

for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, successors and assigns to pay Owner upon default of Bidder the penal sum set forth on the face of this Bond.

Signed, this _____ day of _____, 20_____

The condition of the above obligation is such that whereas the Principal has submitted to the Utilities Commission, City of New Smyrna Beach, Florida a certain Bid, attached hereto and hereby made a part hereof, to enter into a contract in writing, for the Project Name Project.

NOW THEREFORE,

1. Default of Bidder shall occur upon failure of Bidder to deliver within the time required by the Bidding Documents the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the bidding documents and Contract Documents.
2. This obligation shall be null and void if:
 - 2.1 Owner accepts Bidder’s bid and Bidder delivers within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by paragraph 5 hereof).
 - 2.2 All bids are rejected by the Owner, or

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- 2.3 Owner fails to issue a notice of award to bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, consented to by Surety when required by paragraph 5 hereof).
3. Payment under this bond will be due and payable upon default of Bidder and within thirty (30) calendar days after receipt of Bidder and Surety of written notice of default from Owner which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.
 4. Surety waives notice of any and all defenses based on or arising out of any time extension to issue notice of award agreed to in writing by Owner and Bidder, provided that the time for issuing notice of award including extensions shall not in the aggregate exceed one hundred twenty (120) days from Bid Due without Surety's written consent.
 5. No suit or action shall be commenced under this Bond prior to thirty (30) calendar days after the notice of default required in paragraph 3 above is received by Bidder and Surety, and in no case later than one year after Bid Due Date.
 6. Any suit or action under this Bond shall be commenced only in a court of competent jurisdiction located in Volusia County, Florida.
 7. Notice required hereunder shall be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the party concerned.
 8. Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent or representative who executed this Bond on behalf of Surety to execute, seal and deliver such Bond and bind the Surety thereby.

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9. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of the Bond conflicts with any applicable provision of any applicable statute, then the provisions of said statute shall govern and the remainder of the Bond that is not in conflict therewith shall continue in full force and effect.
10. The term “bid” as used herein includes a bid, offer or proposal as applicable.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereunto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

Principal (Print Full Name)

Surety (Print Full Name)

By: _____ (L. S.)

By: _____
Signature (attach power of attorney)

Title: _____

Title: _____

Attest: _____
Signature and Title

Attest: _____
Signature and Title

IMPORTANT – Surety companies executing bonds must appear on the Treasury Department’s most current list (Circular 570 as amended) and be authorized to transact business in the State of Florida.

END OF SECTION

SECTION 00410

UTILITIES COMMISSION
CITY OF NEW SMYRNA BEACH, FLORIDA

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SMYRNA SUBSTATION EXPANSION

AGREEMENT – SECTION 00500
(TO BE COMPLETED BY UCNSB AND CONTRACTOR AFTER BID IS AWARDED)

This Agreement is by and between the Utilities Commission, City of New Smyrna Beach, Florida (herein called Owner) and LOW BIDDER NAME Contractors, Inc. (herein called Contractor).

Owner and Contractor, in consideration of the mutual covenants herein set forth, agree as follows:

ARTICLE 1 – WORK

1.01. Contractor shall complete all Work as specified or indicated in the Contract Documents based on the acceptance by Owner of Contractor's Bid.

The Work is generally described as follows:

Provide management and administration, labor and supervision, construction tools and equipment, materials and expendables, and temporary and permanent construction services to perform the individual construction items of work for the SMYRNA SUBSTATION EXPANSION, complete, including overhead and profit.

The project location is the Smyrna Substation, located at 3019 SR-44, New Smyrna Beach, Florida, west of I-95 and north of SR-44 (Volusia County).

In general, the project involves relocating a portion of transmission line and extending the substation grade to allow for substation expansion, constructing a substation addition to include two power transformers with high side circuit switcher protection, low side main-tie-main breakers, and six feeder circuit breakers, and removing the existing power transformer and feeder breakers.

Construction items of work will include material procurement, temporary construction and protection, clearing and grading, access road, fencing and gates, foundation installation, conduit and cable trench installation, ground grid installation, yard cover, transmission pole and conductor installation, owner-furnished power transformer and equipment installation, substation structures and supports, substation devices and bus materials, relay and control panels, power and control cable installation, wiring and testing, modifications and removals, and project documentation. All work shall be completed per the requirements of the Construction Drawings, Technical Specifications, and approved submittals.

The Owner will furnish the Contractor with the following items. All other items required for completion of the Work will be furnished by the Contractor and shall be a part of the Contractor's bid price. Contractor shall install all materials provided by Owner or Contractor.

- Circuit Switcher, SF6, 121 kV class, 1200 A, with steel support structure, Southern States, quantity 2;
- Power Transformer with LTC, 115Δ-22.86Y kV, 18/24/30//33.6 MVA, ABB, quantity 2;
- Vacuum Circuit Breaker, outdoor, 27 kV class, 1200A, ABB, quantity 9.

Some construction items of work can be completed without taking a clearance outage. Other items of work will require a clearance outage on either a transmission line, or a segment of substation bus,

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or of the existing substation power transformer. All outages must be approved by the Owner, and denial of an outage request will be cause for a change in the project cost or schedule.

The contractors or other qualified Bidders on the construction covered by this proposal, along with their suppliers and sub-contractors, are considered to be experts in the procurement and installation of substation and transmission materials, and as experts, should have complete and up-to-date information as to the cost of raw materials, labor and other factors affecting the final price of such construction. Therefore, firm price proposals are specifically requested.

Bidders shall inform themselves fully of the requirements of applicable Federal, State and local laws, statutes, regulations, standards, permits and other requirements which are incorporated herein by reference and which shall have the same effect as if fully set forth.

ARTICLE 2 – CONTRACT PRICE

2.01. Owner shall pay Contractor for completion of the Work designated in Article 1 in accordance with the Contract Documents, a not-to-exceed amount of: Written Dollar Amount (\$###,###.##) as indicated in Contractor's Bid.

ARTICLE 3 – PAYMENT PROCEDURES

3.01. Submittal and Processing of Payments

A. Contractor shall submit Applications for Payment in accordance with Article 9 of the General Terms and Conditions. Applications for Payment will be processed by Owner as provided in the General Terms and Conditions.

3.02. Progress Payments

A. Owner shall make progress payments on account of the Contract Price on the basis of Contractor's Applications for Payment. All progress payments will be on the basis of the progress of the Work measured established in the General Terms and Conditions.

B. Consent of the Surety shall be obtained before final payment is paid by Owner. Consent of the Surety, signed by an agent, must be accompanied by a certified copy of such agent's authority to act for the Surety.

3.03. Final Payment

A. Upon completion and acceptance of the Work in accordance with the General Terms and Conditions, Owner shall pay the remainder of the Contract Price as provided in the General Terms and Conditions.

ARTICLE 4 – CONTRACTOR'S REPRESENTATIONS

4.01. In order to induce Owner to enter into this Agreement, Contractor makes the following representations:

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- A. Contractor has examined and carefully studied the Contract Documents and the other related data identified in the Bidding Documents.
- B. Contractor has visited the Site and become familiar with and is satisfied as to the general, local, and site conditions that may affect cost, progress, and performance of the Work.
- C. Contractor is familiar with and is satisfied as to all Federal, state, and local Laws and Regulations that may affect cost, progress, and performance of the Work.
- D. Contractor has obtained and carefully studied (or assumes responsibility for having done so) all additional or supplementary examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, including application of the specific means, methods, techniques, sequences, and procedures of construction, if any, expressly required by the Contract Documents to be employed by Contractor, and safety precautions and programs incident thereto.
- E. Contractor does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract Documents.
- F. Contractor is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Contract Documents.
- G. Contractor has correlated the information known to Contractor, information and observations obtained from visits to the Site, reports and drawings identified in the Contract Drawings, and all additional examinations, investigations, explorations, tests, studies, and data with the Contract Documents.
- H. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

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ARTICLE 5 – CONTRACT DOCUMENTS

5.01. The Contract Documents which comprise the entire agreement between Owner and Contractor concerning the Work consist of the following:

1. Section 00500 – Agreement.
2. Contractor Submitted Bid Document.
3. ITB #08-19.
4. Bid Addenda (if applicable)
5. Performance and Payment Bond.
6. Power of Attorney.
7. Certificate of Insurance.
8. Contract Drawings
9. Contract Specifications
10. Notice of Award.
11. Notice to Proceed.

5.02. The Contract Documents may be amended, modified, or supplemented only as provided in General Terms and Conditions.

ARTICLE 6 – MISCELLANEOUS

6.01. Term.

A. Terms used in this Agreement will have the meanings indicated in the General Terms and Conditions

6.02. Assignment of Contract.

A. No assignment by a party hereto of any rights under or interests in the Contract will be binding on another party hereto without the written consent of the party sought to be bound; and specifically, but without limitation, moneys that may become due and moneys that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law); and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

6.03. Successors and Assigns.

A. Owner and Contractor each binds itself, its partners, successors, assigns, and legal representatives to the other party hereto, its partners, successors, assigns, and legal representatives in respect to all covenants, agreements, and obligations contained in the Contract Documents.

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6.04. Public Access to Documents.

Contractor shall allow public access to all documents, papers, letters, or other material subject to the provisions of Chapter 119, Florida Statutes, made or received by the Contractor in conjunction with this project. Specifically, the Contractor must:

- (1) Keep and maintain public records that ordinarily and necessarily would be required by the Owner in order to perform the services being performed by the Contractor.
- (2) Provide the public with access to public records on the same terms and conditions that the Owner would provide the records and at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes, or as otherwise provided by law.
- (3) Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law.
- (4) Meet all requirements for retaining public records and transfer, at no cost, to the Owner all public records in possession of the Contractor upon termination of the contract and destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. All records stored electronically must be provided to the Owner in a format that is compatible with the information technology systems of the Owner.

The Contractor shall promptly provide the Owner with a copy of any request to inspect or copy public records in possession of the Contractor and shall promptly provide the Owner a copy of the Contractor's response to each such request. Failure to grant such public access will be grounds for immediate termination of this contract by the Owner.

6.04. Severability.

A. Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon Owner and Contractor, who agree that the Contract Documents shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

6.05. Business Addresses.

A. The business address of Contractor given herein is hereby designated as the place to which all notices, letters, and other communication to Contractor will be mailed or delivered. The address of Owner appearing herein is hereby designated as the place to which all notices, letters, and other communication to Owner shall be mailed or delivered. Either party may change its address at any time by an instrument in writing delivered to the other party.

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IN WITNESS WHEREOF, Owner and Contractor have signed this Agreement. One counterpart each has been delivered to Owner and Contractor.

This Agreement will be effective on _____, 2019.

Owner: Utilities Commission, City of New Smyrna Beach, FL Contractor: _____

By: Joseph G. Bunch By: _____

Title: General Manager Title: _____

Address for giving notices: Derek M. Wainscott, P.E. Address for giving notices: _____
P.O. Box 100 _____
New Smyrna Beach, FL 32170-0100 _____

Physical Address: 200 Canal Street
New Smyrna Beach, FL 32168

Approved as to Form: Contractor's License No. _____

Thomas A. Cloud, Attorney for Owner Expiration Date: _____

END OF SECTION

SECTION 00500

UTILITIES COMMISSION
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PERFORMANCE AND PAYMENT BOND – SECTION 00645

*(TO BE COMPLETED BY UCNSB AND CONTRACTOR AFTER BID IS AWARDED)
(PAYMENTS WILL NOT BE MADE TO CONTRACTOR UNTIL A RECORDED COPY OF THE PERFORMANCE AND
PAYMENT BOND ARE SUBMITTED TO THE COMMISSION)*

PUBLIC CONSTRUCTION BOND

Bond No. (enter bond number)

BY THIS BOND, We _____, as Principal
and _____, a corporation, as Surety, are bound to
UTILITIES COMMISSION, CITY OF NEW SMYRNA BEACH, FL., herein called Owner, in the sum of
\$ _____,
_____ , for payment of which we bind ourselves, our heirs, personal
representatives, successors, and assigns, jointly and severally.

THE CONDITION OF THIS BOND is that if Principal:

1. Performs the contract dated _____, 2018, between Principal and Owner for construction of **SMYRNA SUBSTATION EXPANSION –ITB #08-19**, the contract being made a part of this bond by reference, at the times and in the manner prescribed in the contract; and
2. Promptly makes payments to all claimants, as defined in Section 255.05(1), Florida Statutes, supplying Principal with labor, materials, or supplies, used directly or indirectly by Principal in the prosecution of the work provided for in the contract; and
3. Pays Owner all losses, damages, expenses, costs, and attorney’s fees, including appellate proceedings, that Owner sustains because of a default by Principal under the contract; and
4. Performs the guarantee of all work and materials furnished under the contract for the time specified in the contract, then this bond is void; otherwise it remains in full force.

Any action instituted by a claimant under this bond for payment must be in accordance with the notice and time limitation provisions in Section 255.05(2), Florida Statutes.

Any changes in or under the contract documents and compliance or noncompliance with any formalities connected with the contract or the changes does not affect Surety’s obligation under this bond.

DATED ON _____, 2018.

(Name of Principal) _____

By: _____

(Name of Surety) _____

By: _____

Attorney in Fact

END OF SECTION

**UTILITIES COMMISSION
CITY OF NEW SMYRNA BEACH, FLORIDA**

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SMYRNA SUBSTATION EXPANSION

PROJECT REQUIREMENTS – 01000

PART 1 - GENERAL

1.00 DESCRIPTION

- A. This Section includes:
 - 1. Protection and Restoration of Property.
 - 2. Change Orders.
 - 3. Public Access and Convenience.
 - 4. Traffic Control.
 - 5. Survey Work.
 - 6. Existing Utilities.
 - 7. Special Conditions.
 - 8. Coordination.
 - 9. Abbreviations and Symbols.
- B. Related work specified elsewhere includes:
 - [Project Specific Conditions - Section 01010.](#)
 - Application for Payment - Section 01027.

1.01 PROTECTION AND RESTORATION OF PROPERTY

- A. The Contractor shall not enter upon private property for any purpose without first obtaining permission and he shall use every precaution necessary to prevent damage or injury to any public or private property, trees, fences, monuments, and underground structures, etc., on and adjacent to the site of the work.
- B. The Contractor shall not do any work that would affect any pipeline, telephone, telegraph, or electric transmission line, or other structure. The Contractor shall not enter upon the right-of-way or other lands appurtenant thereto, until authority therefore has been secured from the proper persons.
- C. The Contractor shall be responsible for all damage or injury to property of any person or entity resulting from any act, omission, neglect or misconduct in his manner or method of executing said work, from his non-execution of said work, or from defective work or materials. The Contractor shall not be released from said responsibility until the work shall have been completed and accepted and the contract requirements fulfilled.
- D. When or where any direct or indirect damage or injury is done to public or private property by or on account of any act, omission, neglect, or misconduct in the execution of the work, or in consequence of the non-execution thereof on the part of the Contractor, or any act in the proper completion of work, the Contractor shall restore such property, at his own expense, to a condition equal or better to that existing before such damage or injury was done by repairing, rebuilding, or otherwise restoring, as may be directed. If not possible, the Contractor shall make good such damage or injury in a manner acceptable to the damaged or injured party.

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1.02 CHANGE ORDERS

- A. The Owner or Engineer may at any time make changes within the general scope of the project, issue additional instructions, require additional work or direct the omission of portions of the work; provided, however, that the Contractor shall not proceed with any change involving an increase or decrease in contract sum, without prior written authorization from the Owner or Engineer in accordance with the procedure outlined hereunder.
- B. The Owner or Engineer shall order changes in the project by giving the Contractor a written change order request (“Change Order Request”), setting forth in detail the nature of the requested change. Within ten (10) days of receipt of a Change Order Request, the Contractor shall furnish to the Owner or Engineer a statement setting forth in detail, with a suitable break-down by quantity and unit price the Contractor’s estimate of the changes in the contract sum. If the Owner approves in writing such estimate by the contractor, such Change Order Request and such estimate shall constitute a Change Order, and the additional funds will be paid from the “Contingency” item in the Schedule of Values, as set forth in the Contractor’s estimate. This procedure shall apply to both additive and deductive change orders.
- C. The Owner or Engineer may make minor changes to the work not involving a change in the contract sum without the use of a Change Order.
- D. Additional work performed by the Contractor without authorization of a Change Order is done at its own risk and will not entitle it to an increase in the Contract Price or an extension of the Contract Time.

1.03 PUBLIC ACCESS AND CONVENIENCE

- A. At all points in the work where public access to any building, house, place of business, public road, or sidewalk would be obstructed by any section of the Contractor in executing the work required by this Contract, the Contractor shall provide such temporary structure, bridges or roadway as may be necessary to maintain public access at all times. At least one lane for vehicular traffic shall be maintained in streets on which the Contractor is working unless otherwise authorized by the Engineer in writing.
- B. Prior to temporarily cutting off access to driveways and garages, the Contractor shall give 24 hours notice to affected property owners. Interruptions to use of private property shall be kept to a minimum. The Contractor is responsible for and may make other suitable arrangements with owners of private driveways in lieu of the requirement of this Section.
- C. Materials stored at the site of the work shall be so placed and the work shall at all times be so conducted as to cause minimum obstruction to vehicular or pedestrian traffic. No roadway shall be closed or opened except by express permission of the City, County or such other authorized public agency having jurisdiction.

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- D. The Contractor shall exercise precaution at all times for the protection of persons and property. The safety provisions of applicable laws, building codes and construction codes shall be observed.

1.04 TRAFFIC CONTROL

- A. It shall be the responsibility of the Contractor in performance of the work elements of the Contract to furnish all traffic control equipment and personnel.
- B. The Contractor shall provide bypasses, crossings, and other means for the maintenance of one-way traffic in all streets, and two-way traffic wherever possible, in all streets where work is in progress. The Contractor shall plan and schedule his operations to impose the least possible interference with normal traffic flow. Any such interference shall be cleared with the applicable local, County or State agency prior to beginning construction.
- C. The Contractor shall provide, erect, and maintain effective barricades, danger signals, and signs on all intercepted streets or highways and in other locations where required for the protection of the work and the safety of the public. Barricades or obstructions which encroach on, or are adjacent to public rights-of-way shall be provided with lights which shall be kept burning at all times between sunset and sunrise. Conformity with State, County and local laws and regulations is required in the use of streets and highways. The Contractor shall be responsible for all damages resulting from any neglect or failure to meet these requirements. Watchmen shall be provided as required by local regulations or as necessary to fulfill the requirements stated herein.
- D. The State of Florida Department of Transportation "Utility Accommodation Guide Procedure 616-400" and its "Uniform Manual for Traffic Control Devices" shall be followed as applicable. Additionally, traffic control requirements shall meet all local, State and Federal requirements.

1.05 SURVEY WORK

- A. Prior to commencing work, the Contractor shall satisfy himself as to the accuracy of all survey or existing site information as indicated in the Drawings or Specifications. Should the Contractor discover any errors, inaccuracies or omissions in the survey data, he shall immediately notify the Engineer. The commencing of any of the work by the Contractor shall be held as the Contractor's acceptance that all survey or existing site information is correct and accurate, without any reasonably inferable errors, inaccuracies or omissions.
- B. The Contractor shall engage a Florida Registered Land Surveyor to carefully survey and place all control stakes, benchmarks, reference points and property corner and will be responsible for any mistake or loss of time caused by their unnecessary loss or disturbance. Control stakes, benchmarks, reference points and property corners disturbed by the Contractor's work shall be replaced by a Florida Registered Land Surveyor and Mapper, at the Contractor's expense. In the event the Owner must

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provide the services of the Florida Registered Surveyor and Mapper to perform this work, the cost of the surveying services will be deducted from any sums due the Contractor for the work performed under this Contract.

- C. All survey work shall be performed under the guidance and direction of a Florida Registered Surveyor and Mapper.
- D. All survey work for Record Drawings shall be performed by a Florida Registered Surveyor and Mapper.

1.06 EXISTING UTILITIES

- A. All existing utilities shown on the Drawings are located according to the information available to the Engineer at the time the Drawings were prepared and have not been independently verified by the Owner or the Engineer. Guarantee is not made that all existing underground utilities are shown or that the locations of those shown are accurate. The locations shown are for bidding purposes only. Finding the actual location of any existing utilities is the Contractor's responsibility and shall be done before he commences any work in the vicinity. Furthermore, the Contractor shall be fully responsible for any and all damages which might be occasioned by the Contractor's failure to exactly locate and preserve any and all underground utilities. The Owner or Engineer will assume no liability for any damages sustained or costs incurred because of the Contractor's operations -in the vicinity of existing utilities or structures, nor for temporary bracing and shoring of same. If it is necessary to shore, brace, or swing a utility, the utility company or department affected shall be contacted and their permission obtained regarding the method to use for such work.
- B. It is the Contractor's responsibility to locate all underground utilities before beginning work.
- C. The Contractor shall schedule and execute all work involving existing utilities in order to minimize necessary interruption of services. Whenever such interruption is necessary for completion of the work the Contractor is responsible for notifying the Engineer and the appropriate utility at least 48 hours in advance. All work to repair/restore utility service shall be performed to the satisfaction of the appropriate utility. All costs related to service maintenance, interruption, and restoration shall be included in the appropriate line item in the Contract, and will not be paid as an additional item.

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1.07 SPECIAL CONDITIONS

- A. Visits to the construction site may be made by representatives of local regulatory agencies. The Contractor shall submit details of all instructions from the above to the Engineer immediately. The Work will not be accepted by the Owner until final acceptance has been received from the various departments of the Regulatory Agencies having jurisdiction.
- B. The Contractor shall furnish sufficient labor, construction equipment and materials, and shall work such hours, including night shifts and overtime operations, as may be necessary to insure the prosecution of the work in accordance with the approved progress schedule. If, in the opinion of the Engineer, the Contractor falls behind the progress schedule, the Contractor shall take such steps as may be necessary to improve his progress and the Engineer may require him to increase the number of shifts and/or overtime operation, days of work and/or the amount of construction equipment and materials, all without additional cost to the Owner. The Contractor shall be responsible for any additional costs incurred by the Owner or Engineer due to the overtime work. The failure of the Contractor to comply with the requirements of the Engineer under this provision shall be grounds for determination of the Engineer that the Contractor is not prosecuting the work with such diligence as will insure completion within the time specified. Upon such determination, the Engineer may recommend to the Owner to seek such legal remedy as is deemed necessary to protect the Owner's interest.
- C. In addition to these Specifications all work must comply with the requirements of the local governing agency, Department of Transportation, Water Management District, Department of Environmental Protection, and all other applicable State or Federal agencies' Specifications and Permits. In the event of a conflict the more stringent specification or requirement shall govern.
- D. The items of work on this project are to proceed in the sequence of work items listed hereinafter and shall be operable within the time frame stated from the date of the Notice to Proceed. No work is to start that involves the modification to existing facilities without prior approval and authorization from the Owner or his designated representative. An advance notice of 48 hours is required to the Owner prior to start of any work that involves modifications to existing structures, piping or appurtenances.
- E. The Contractor is responsible for notifying all permitting agencies of his intentions to begin construction. Proper notification to each agency shall be given within the time frame required by that agency.
- F. The Contractor shall give the Engineer 10 days minimum notice before beginning work on the Project.
- G. Before performing tests, the Contractor shall provide the Engineer with a minimum of 48 hours notice.
- H. Before performing any work outside the designated limits of the work site, the Contractor shall secure any necessary permits and/or authorization from the

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applicable Owner, or verify that such has been previously obtained. All requirements of any said permits or authorization shall be followed.

- I. Contractor shall not work overtime unless authorized to do so by Owner. If overtime is required, Contractor shall provide seven (7) days minimum notice to Engineer and Owner.

1.08 **COORDINATION**

The Contractor shall be fully responsible for the coordination of his work and the work of his employees, subcontractors, and suppliers and to assure compliance with schedules.

1.09 **ABBREVIATIONS AND SYMBOLS**

A. Referenced Standards

1. Any reference to published specifications or standards of any organization or association shall comply with the requirements of the specification or standard which is current on the date of Advertisement for Bids. In case of a conflict between the referenced specifications or standards, the one having the more stringent requirements shall govern.

2. In case of conflict between the referenced specifications or standards and the Contract Documents, the Contract Documents shall govern.

END OF SECTION

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PROJECT SPECIFIC CONDITIONS – 01010

PART 1 - GENERAL

1.01 GENERAL

- A. It is the intent of these Specifications to set forth the standards of construction, materials, and guarantees required, and to establish the scope of work to be performed in the **SMYRNA SUBSTATION EXPANSION**, owned and operated by the COMMISSION.
- B. The Contractor is responsible for coordinating the detailed design requirements of all items and/or components for the substation project, excepting the items stated as being provided by the COMMISSION. Identification of items on the Contract Drawings are limited to the extent necessary to establish a pattern. Where Contract Drawings indicate or specifications refer to equipment or to operations in the singular, it is in reference to such items in the total quantity required for a complete and operable installation as specified.
- C. Contractor shall furnish all material and equipment shown or specified within this solicitation, including all components, appurtenances, and miscellaneous materials that are required to successfully install and operate the equipment provided. It is the intent of these Contract Drawings and Specifications for the Contractor to provide a complete, functioning system to the COMMISSION. The contractor is responsible for providing and installing all items necessary for a complete installation regardless of whether the item is specifically called out in the Contract Documents.
- D. It is understood that except as otherwise specifically stated in the Contract Documents, the Contractor shall provide and pay for all materials, labor, tools, equipment, light, temporary power, transportation, supervision, and temporary construction of any nature, and all other services and facilities of any nature whatsoever necessary to execute, complete, and deliver the Work within the specified time.
- E. All material purchased shall be new.

1.02 CONTRACT DOCUMENTS

- A. Where the Specifications state that an “Approved Equal” substitute is allowed, the Bidder shall submit data as necessary to establish equivalency. Purchase or installation of substitute materials before submittals are reviewed and accepted in writing by the COMMISSION or their Engineer are done at the Contractor’s risk.
- B. Likewise, exceptions to the Contract Documents or alternate arrangements, if proposed by the Contractor, shall be submitted in complete detail, including drawings illustrating the proposed changes. The exceptions must be completely described and itemized in an accompanying letter of transmittal and include any credit reduction that may be realized by acceptance of the substitution. Proceeding with any exceptions or alternate arrangements before submittals are reviewed and accepted in writing by the COMMISSION or their Engineer are done at the Contractor’s risk.

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1. If the Contractor proposes alternate methods of general arrangements or development, they shall follow the pattern set by the Contract Documents, and shall include any dimension changes necessary to adapt the alternate method of construction. The Contractor shall make all required field investigations as required to establish the existing conditions.
- C. Any discrepancies found between the Drawings and Specifications or any inconsistencies or ambiguities in the Drawings or Specifications shall be immediately reported to the COMMISSION or their Engineer, in writing, who shall promptly correct such inconsistencies or ambiguities in writing. Work done by the Contractor after discovery of such discrepancies, inconsistencies, or ambiguities prior to the corrections directed by the COMMISSION shall be done at the Contractor's risk.
- D. Anything mentioned in the Specifications and not shown on the Drawings or shown on the Drawings and not mentioned in the Specifications shall be of like effect as if shown or mentioned in both. Figure dimensions on Drawings shall govern over scale dimensions and detailed Drawings shall govern over general Drawings.

1.03 CONSTRUCTION SEQUENCE

- A. The Contractor shall sequence the construction activities such that outages to transmission lines, substation power transformers, and distribution equipment are minimized.
- B. A suggested construction sequence is included in the Contract Documents. This is a suggested sequence only, and the Contractor shall be responsible for submitting their own construction sequence and schedule for approval by the COMMISSION.
- C. The intent of the sequence is to minimize outages on the existing substation power transformer and distribution feeders. Stages 1 through 5 are to be completed with minimal line outages. After this the new equipment is to be tested and ready for energization upon completion of Stage 6.
- D. Contractor is advised that all transmission line, bus, and transformer outages shall be approved in advance by the COMMISSION and by the applicable third-party transmission system operator. Outage approval is not guaranteed and may be affected by time of year and system conditions outside of the COMMISSION's control.

1.04 CORRECTION OF WORK

- A. The Contractor shall promptly remove from the premises all Work rejected by the COMMISSION for failure to comply with the Contract Documents whether incorporated in the construction or not, and the Contractor shall promptly replace and re-execute the Work in accordance with the Contract Documents and without expense to the COMMISSION and shall bear the expense of making good all work of other Contractors destroyed or damaged by such removal or replacement.
- B. All removal and replacement work shall be done at the Contractor's expense. If the Contractor does not take action to remove such rejected Work within 10 days after receipt of Written Notice, the COMMISSION may remove such Work, store the materials, and replace the rejected Work at the expense of the Contractor.

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- C. Any work which may be done or materials ordered by the Contractor prior to receipt of the Notice to Proceed, incorporation of previously rejected Work, work done contrary to or regardless of the instruction of the COMMISSION, work done beyond the limits shown on the Plans, except as herein specified, or any extra work done without written authority from the COMMISSION, will be considered as unauthorized and may not be paid for. Work so done may be ordered removed or replaced at the Contractor's expense.

1.05 SUPERVISION BY CONTRACTOR

- A. The Contractor shall supervise and direct the Work. They shall be solely responsible for the means, methods, techniques, sequences, safety, and procedures of construction. The Contractor shall employ and maintain on the Work a qualified supervisor or superintendent at the site. The supervisor shall have full authority to act on behalf of the Contractor and all communications given to the supervisor shall be as binding as if given to the Contractor. The supervisor shall be present on the site at all times when the work is in progress as required to perform adequate supervision and coordination of the Work as determined by the COMMISSION. The supervisor shall have a thorough understanding of the Contract documents and shall have previous experience in the type of work being performed.

END OF SECTION

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APPLICATIONS FOR PAYMENTS – SECTION 01027

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division-1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This section specifies administrative and procedural requirements necessary to prepare and process the Contractor' Applications for Payment.
 - 1. Coordinate the Schedule of Values and Applications for Payment with the Contractor's Construction Schedule, List of Subcontracts, and Submittal Schedule.
- B. The Contractor's Construction Schedule and Submittal Schedule are included in section "Submittals".

1.03 SCHEDULE OF VALUES

- A. Coordinate preparation of the Schedule of Values with preparation of the Contractor's Construction Schedule.
 - 1. Correlate line items in the Schedule of Values with other required administrative schedules and forms, including:
 - a. Application for Payment form
 - b. List of subcontractors
 - c. Schedule of submittals.
 - 2. Submit the Schedule of Values to the Owner at the earliest feasible date, but in no case later than 7 days before the date scheduled for submittal of the initial Application for Payment.
 - 3. Where work is separated into phases, provide sub-schedules showing values correlated with each phase of payment.
- B. Format and Content: Use the Project Manual Table of Contents as a guide to establish the line items for the Schedule of Values. Provide at least one line item for each specification section.
 - 1. Provide a breakdown of the Contract Sum in enough detail to facilitate continued evaluation of Applications for Payment and progress reports. Provide several line items for principal subcontract amounts, when appropriate.
 - 2. Schedule Updating: Update and resubmit the Schedule of Values when Change Orders or Construction Change Directives result in a change in the Contract Sum.

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1.04 APPLICATIONS FOR PAYMENT

- A. Each Application for Payment shall be consistent with previous applications and payments as certified by the Engineer and paid for by the Owner.
 - 1. The initial Application for Payment, the Application for Payment at time of Substantial Completion, and the final Application for payment involve additional requirements.
- B. Payment Application Times: Payment applications shall be submitted to the Owner monthly for the work completed in the preceding month.
- C. Payment Amount: The invoice amount shall be determined based on an estimated percentage complete of the Labor/Equipment amount in each item of the Schedule of Values, plus the actual cost of materials installed during the time period.
- D. Retainage: The Owner shall withhold a retainage in the amount of 10% of each invoice. This amount shall be noted on the Application for Payment and deducted from the total amount requested. The retainage will be paid to the Contractor after approval of the Final Payment Application detailed below.
- E. Payment Application Forms: Use AIA forms for Applications for Payment.
- F. Application Preparation: Complete every entry on the form, including notarization and execution by person authorized to sign legal documents on behalf of the Owner. Incomplete applications will be returned without action.
 - 1. Entries shall match data on the Schedule of Values and Contractor's Construction Schedule. Use updated schedules if revisions have been made.
 - 2. Include amounts of Change Orders and construction Change Directives issued prior to the last day of the construction period covered by the application.
- G. Transmittal: Submit 5 signed and notarized copies of each Application for Payment to the Engineer by means ensuring receipt within 24 hours; one copy shall be complete, including waivers of lien and similar attachments, if required.
 - 1. Transmit each copy with a transmittal form listing attachments, and recording appropriate information related to the application.
- H. Waivers of Mechanics Lien: When required by the Owner, submit waivers of mechanics liens from subcontractors or sub-subcontractors and suppliers for the construction period covered by the previous application with each Application for Payment.
 - 1. Submit partial waivers on each item for the amount requested, prior to deduction for retainage, on each item.
 - 2. When an application shows completion of an item, submit final or full waivers.
 - 3. Waiver Delays: Submit each Application for Payment with the Contractor's waiver of mechanics lien for the period of construction covered by the application.
 - a. Submit final Application for Payment with or preceded by final waivers from every entity involved with performance of Work covered by the application who could lawfully be entitled to a lien.

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4. Waiver Forms: Submit waivers of lien on forms, and executed in a manner, acceptable to Owner.
- I. Initial Application for Payment: Administrative actions and submittals that must precede or coincide with submittal of the first Application for Payment include the following:
1. List of subcontractors.
 2. Schedule of Values.
 3. Contractor's Construction Schedule.
 4. Submittal Schedule.
 5. Certificates of insurance and insurance policies.
 6. Performance and Payment Bonds.
 7. Copy of Building Permit.
- J. Application for Payment at Substantial Completion: Following issuance of the Certificate of Substantial Completion, submit an Application for Payment; Administrative actions and submittals that shall proceed or coincide with this application include:
1. Warranties (guarantees) and maintenance agreements.
 2. Maintenance instructions.
 3. Start-up performance reports.
 4. Change-over information related to Owner's occupancy, use, operation and maintenance.
 5. Final cleaning.
 6. List of incomplete Work, recognized as exceptions to Engineer's Certificate of Substantial Completion.
- K. Final Payment Application: Administrative actions and submittals which must precede or coincide with submittal of the final payment Application for Payment include the following:
1. Evidence of completion of project closeout requirements.
 2. Evidence of completion of items specified for completion after Substantial Completion.
 3. AIA Document G706, "Contractor's Affidavit of Payment of Debts and Claims": or other evidence acceptable to the Owner.
 4. AIA Document G706A, "Contractor's Affidavit of Release of Liens".
 5. AIA Document G707, "Consent of Surety to Final Payment".
 6. Assurance that work not complete and accepted will be completed without undue delay.
 7. Transmittal of required project construction records to Owner.
 8. Removal of temporary facilities and services.
 9. Removal of surplus materials, rubbish and similar elements.
 10. Change of door locks to Owner's access.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION
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CONSTRUCTION PHOTOGRAPHS – SECTION 01380

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division-1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section specifies requirements of photographic documentation of the project conditions before construction. The video tape and photographs will serve as record of existing conditions for disputes arising from restoration, and should therefore be taken along the lines of construction at such frequency as necessary to depict details of existing conditions.
- B. Payment: All cost for photographs and video tapes including processing, indexing and cataloging shall be on a lump sum basis, and shall be paid for by the Contractor, excepting photographs taken by the Engineer or the Owner.

1.03 SUBMITTALS

- A. Photographs and Digital Video Disks: capable of being viewed in Windows 7 or above based software.
- B. Provide full-size narrated DVD with label to identify subject areas.
- C. Provide photographs, as necessary, to supplement DVD to clearly depict existing conditions.

1.04 QUALITY ASSURANCE

- A. Video narration shall completely (location, orientation, etc.) identify each scene.
- B. Index and catalog photographs in such a manner that each scene is readily identifiable.
- C. Photographs shall indicate the orientation of view and shall indicate date and time the photograph was made.

PART 2 - PRODUCTS (NOT APPLICABLE)

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PART 3 - EXECUTION

3.01 CONSTRUCTION DOCUMENTATION

- A. Pre-Construction Conditions: Take photographs and video tape all areas where construction is to take place within two weeks prior to the start of construction. Submit processed photographs to the Engineer before construction commences.
- B. During construction or when major equipment is installed or where problems occur, the Contractor shall take pictures and videotape.
- C. Post-Construction Conditions: Upon completion of construction work and before final payment, the contractor shall take photographs and video tapes of all completed construction and of all areas disturbed or restored by construction activities.
- D. Unusual Conditions encountered during construction shall be photographed and video taped if not already a matter of photographic record.

END OF SECTION

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PROJECT CLOSEOUT – SECTION 01700

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division-1 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section specifies administrative and procedural requirements for project closeout, including but not limited to:
 - 1. Field review procedures.
 - 2. Project record document submittal.
 - 3. Operating and maintenance manual submittal.
 - 4. Submittal of warranties.
 - 5. Final cleaning.
- B. Closeout requirements for specific construction activities are included in the appropriate specifications.

1.03 SUBSTANTIAL COMPLETION

- A. Preliminary Procedures: Before requesting a Substantial Completion meeting, Contractor shall complete the following.
 - 1. Submit specific warranties, workmanship bonds, maintenance agreements, final certifications and similar documents.
 - 2. Obtain and submit releases enabling the Owner unrestricted use of the Work and access to services and utilities; include occupancy permits, operating certificates and similar releases.
- B. Field Review Procedures: On receipt of a notice that the facilities are substantially complete, the Engineer will proceed with field review meeting with the Contractor and Owner or Owner's representative present. The Engineer will review documentation provided by the Contractor and the Owner's representative. From field observations and the documentation provided, the Engineer will prepare a "punch list" of items that must be completed or corrected before the work can be considered complete and the final payment is made. The work which is substantially complete will be considered cleared for partial utilization and turned over to the Owner. These items may be put into service by the Owner and shall not be altered by the Contractor.

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1.04 FINAL COMPLETION

- A. Preliminary Procedures: Before requesting final inspection for certification of final acceptance and final payment, Contractor shall complete the following.
1. Submit the final payment request with releases and supporting documentation not previously submitted and accepted. Include certificates of insurance for products and completed operations where required.
 2. Submit an updated final statement, accounting for final additional changes to the Contract Sum.
 3. Submit a copy of the Engineer's final inspection list of items to be completed or corrected, stating that each item has been completed or otherwise resolved for acceptance.
 4. Submit final meter readings for utilities, a measured record of stored fuel, and similar data as of the date of Substantial Completion, or when the Owner took possession of and responsibility for corresponding elements of the Work.
 5. Submit consent of surety to final payment.
 6. Submit a final liquidated damages settlement statement.
 7. Submit evidence of final, continuing insurance coverage complying with insurance requirements.
- B. Re-inspection Procedure: The Engineer will schedule a final completion meeting to review the work identified in the punch list upon receipt of notice from the Contractor that the work has been completed.
1. Upon completion of Final Completion review, the Engineer will prepare a notification for the Contractor and Owner of final completion, or advise the Contractor of work that is incomplete or of obligations that have not been fulfilled but are required for final acceptance. This notification of final completion only implies that through examination of records and visual inspection the work appears to meet the requirements of the drawings and specifications as all construction activities are not observed by the Engineer. If the Engineer must perform another review of any work identified on the punch list because the Contractor failed to complete all work before the final completion inspection, the Contractor will be responsible for paying all of the Engineer's cost for another field review.

1.05 RECORD DOCUMENT SUBMITTALS

- A. General: Do not use record documents for construction purposes; protect from deterioration and loss in a secure, fire-resistive location; provide access to record documents for the Engineer's reference during normal working hours.
- B. Record Drawings: Maintain a clean, undamaged set of blue or black line white-prints of Contract Drawings and Shop Drawings. Mark the set to show the actual installation where the installation varies substantially from the Work as originally shown. Mark whichever drawing is most capable of showing conditions fully and accurately; where Shop Drawings are used, record a cross-reference at the corresponding location on the Contract Drawings. Give particular attention to concealed elements that would be

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difficult to measure and record at a later date. An independent Florida licensed land surveyor must be retained to locate all surface improvements including extent of any paving, and all pipe inverts and structure top elevations for sanitary sewer and stormwater improvements.

1. Mark record sets with red erasable pencil; use other colors to distinguish between variations in separate categories of the Work.
 2. Mark new information that is important to the Owner, but was not shown on Contract Drawings or Shop Drawings.
 3. Note related Change Order numbers where applicable.
 4. Organize record drawing sheets into manageable sets, bind with durable paper cover sheets, and print suitable titles, dates and other identification on the cover of each set.
- C. Record Specifications: Maintain one complete copy of the Project Manual, including addenda, and one copy of other written construction documents such as Change Orders and modifications issued in printed form during construction. Mark these documents to show substantial variations in actual Work performed in comparison with the text of the Specifications and modifications. Give particular attention to substitutions, selection of options and similar information on elements that are concealed or cannot otherwise be readily discerned later by direct observation. Note related record drawing information and Product Data. Upon completion of the Work, submit record Specifications to the Engineer for the Owner's records.
- D. Record Product Data: Maintain one copy of each Product Data submittal. Mark these documents to show significant variations in actual Work performed in comparison with information submitted. Include variations in products delivered to the site, and from the manufacturer's installation instructions and recommendations. Give particular attention to concealed products and portions of the Work which cannot otherwise be readily discerned later by direct observation. Note related Change Orders and mark-up of record drawings and Specifications. Upon completion of mark-up, submit complete set of record Product Data to the Engineer for the Owner's records.
- E. Record Sample Submitted: Immediately prior to the date or dates of Substantial Completion, the Contractor will meet at the site with the Engineer and the Owner's personnel to determine which of the submitted Samples that have been maintained during progress of the Work are to be transmitted to the Owner for record purposes. Comply with delivery to the Owner's Sample storage area.
- F. Miscellaneous Record Submittals: Refer to other Specification Sections for requirements of miscellaneous record-keeping and submittals in connection with actual performance of the Work. Immediately prior to the date or dates of Substantial Completion, complete miscellaneous records and place in good order, properly identified and bound or filed, ready for continued use and reference. Submit to the Engineer for the Owner's records.

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- G. Maintenance Manuals: Organize operating and maintenance data into suitable sets of manageable size. Bind properly indexed data in individual heavy-duty 2-inch, 3-ring vinyl-covered binders, with pocket folders for folded sheet information. Mark appropriate identification on front and spine of each binder. Include the following types of information:
1. Emergency instructions.
 2. Spare parts list.
 3. Copies of warranties.
 4. Wiring diagrams.
 5. Recommended "turn around" cycles.
 6. Inspection procedures.
 7. Shop Drawings and Product Data.
 8. Fixture lamping schedule.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.01 CLOSEOUT PROCEDURES

- A. Operating and Maintenance Instructions: Arrange for each installer of equipment that requires regular maintenance to meet with the Owner's personnel to provide instruction in proper operation and maintenance. If installers are not experienced in procedures, provide instruction by manufacturer's representatives. Include a detailed review of the following items:
1. Maintenance manuals.
 2. Record documents.
 3. Spare parts and materials.
 4. Tools.
 5. Lubricants.
 6. Fuels.
 7. Identification systems.
 8. Control sequences.
 9. Hazards.
 10. Cleaning.
 11. Warranties and bonds.
 12. Maintenance agreements and similar continuing commitments.

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- B. As part of instruction for operating equipment, demonstrate the following procedures:
 - 1. Start-up.
 - 2. Shutdown.
 - 3. Emergency operations.
 - 4. Noise and vibration adjustments.
 - 5. Safety procedures.
 - 6. Economy and efficiency adjustments.
 - 7. Effective energy utilization.

3.02 FINAL CLEANING

- A. General: General cleaning during construction is required by the General Conditions and included in Section "Temporary Facilities".
- B. Before the completion of the project, the Contractor shall, unless otherwise especially directed or permitted in writing:
 - 1. Tear down and remove all temporary buildings and structures which he built;
 - 2. Remove all temporary works, tools, and machinery or other construction equipment furnished by him;
 - 3. Remove, acceptably disinfect, and cover all organic matter and material containing organic matter in, under, and around privies, houses, and other buildings used by him;
 - 4. Remove all rubbish from any grounds which he has occupied; and
 - 5. Leave the roads, all parts of the premises and adjacent property affected by his operations, in a neat and satisfactory condition.
- C. The Contractor shall restore or replace any public or private property damaged by his work, equipment, or employees, to a condition at least equal to that existing immediately prior to the beginning of the operations. To this end, the Contractor shall restore all highway, roadside and landscaping work within any right-of-way, platted or prescriptive. Acceptable materials, equipment, and methods shall be used for such restoration.
- D. The Contractor shall thoroughly clean all materials and equipment installed by him and his subcontractors and on completion of the work shall deliver the facilities undamaged and in fresh and new-appearing condition.
- E. It is the intent of the Specifications to place the responsibility on the Contractor to restore to their original condition all items disturbed, destroyed or damaged during construction.
- F. When finished surfaces require cleaning with cleaning materials the Contractor shall use only those cleaning materials which will not create hazards to health or property and which will not damage the surfaces. Cleaning materials shall be used only on those surfaces recommended by the manufacturer. The manufacturer's directions and recommendations shall be followed at all times.
- G. The Contractor shall do everything in his power to keep the amount of dust produced during his construction activities to a minimum. If required by the Engineer, the Contractor, at his expense, shall spray water or other dust control agents over the areas

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which are producing the dust. Construction operations shall be scheduled so that dust and other contaminants will not fall on wet or newly-coated surfaces.

- H. Compliance: Comply with regulations of authorities having jurisdiction and safety standards for cleaning. Do not burn waste materials. Do not bury debris or excess materials on the Owner's property. Do not discharge volatile, harmful or dangerous materials into drainage systems. Remove waste materials from the site and dispose of in a lawful manner. Where extra materials of value remaining after completion of associated Work have become the Owner's property, arrange for disposition of these materials as directed.
- I. Inspection
Prior to final completion, the Owner, Engineer and Contractor shall review the site with regards to site cleanup, restoration and maintenance of the system. The Contractor shall clean and/or restore all items determined to be unsatisfactory by the Owner or Engineer, at his expense.

END OF SECTION

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SECTION 04400
MEASUREMENT AND PAYMENT

PART 1- GENERAL

1.01 GENERAL

The intent of this section is to define the basis of payment for Bid Items listed in the Bid Tabulation Form. Separate payment will be made only for specific items listed in this section. For all of the following, Bidder shall furnish management and administration, labor and supervision, construction tools and equipment, materials and expendables, and temporary and permanent construction services as required to perform the individual items of work, complete, including overhead and profit.

For each Item, Payment for the completion of all work required of the Contractor shall be at the price shown in the Bid Tabulation Form. Payment in that amount will constitute full compensation for all work required and/or specified.

1.02 MEASUREMENT AND PAYMENT

A. Item 1- STAGE ONE Clearing, Site Work, Access Road, and Fence

Measurement shall consist of clearing and grubbing, earthwork, grading and drainage, paving, grassing, fence and gate additions and fence removals, as necessary for STAGE ONE, per the Construction Drawings and the requirements of applicable specification sections. STAGE ONE is to prepare the substation site to be able to accept delivery of two power transformers.

B. Item 2- STAGE ONE Transformer Foundations

Measurement shall consist of constructing cast-in-place concrete foundations for two power transformers, per the Construction Drawings and the requirements of Section 03300.

C. Item 3- STAGE ONE Replace Airport Line Structure 1

Measurement shall consist of replacing Structure 1 of the Airport 115kV transmission line, per the Construction Drawings and the requirements of Sections 02582 and 16301.

D. Item 4- Procure Transmission Materials

Measurement shall consist of obtaining approvals, procurement, transportation, accepting delivery, offloading, and storing or staging poles and other materials for transmission line construction, per the Construction Drawings and the requirements of Sections 02582 and 16301.

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E. Item 5- Procure Substation Material Package

Measurement shall consist of obtaining approvals, procurement, transportation, accepting delivery, offloading, and storing or staging substation steel structures, concrete lightning masts and line terminal poles, switches, instrument transformers, arresters, insulators, bus and other materials for substation construction, per the Construction Drawings and the requirements of applicable specification sections.

F. Item 6- Procure Relay / Control Panel Package

Measurement shall consist of obtaining approvals, procurement, transportation, accepting delivery, offloading, and storing or staging relay and control panels and any loose relays or other materials for protection and control construction, per the Construction Drawings and the requirements of Section 16290.

G. Item 7- Site Work and Yard Cover

Measurement shall consist of clearing and grubbing, earthwork, grading and drainage, grassing, and any yard cover not included in Bid Item 1, per the Construction Drawings and the requirements of applicable specification sections.

H. Item 8- Fences and Gates

Measurement shall consist of chain link fence and gate additions and removals not included in Bid Item 1, per the Construction Drawings and the requirements of Section 02830.

I. Item 9- Conduit, Cable Trench, Boxes, and Cable Tray

Measurement shall consist of installing raceways, conduit and fittings, cable trench, junction and pull boxes, cable tray riser, and cable tray, per the Construction Drawings and the requirements of applicable specification sections.

J. Item 10- Substation Grounding

Measurement shall consist of installing substation grounding and bonding conductors and connectors, per the Construction Drawings and the requirements of Section 16060.

K. Item 11- Substation Foundations

Measurement shall consist of constructing drilled-pier or cast-in-place concrete substation foundations (excluding foundations installed under Bid Item 2), per the Construction Drawings, approved submittals, and the requirements of Sections 02466 and 03300.

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L. Item 12- Transmission Line Relocation

Measurement shall consist of constructing an extension of the Cassadaga 115kV transmission line into a new substation line terminal position, and removing the spans into the existing line terminal, per the Construction Drawings and the requirements of Section 16301.

M. Item 13- Install Owner-Furnished Circuit Switchers

Measurement shall consist of circuit switcher and support structure assembly or adjustment, rigging, placing, leveling and securing to the foundation, and making high voltage, low voltage power, CT, control, and grounding connections, per the Construction Drawings and the requirements of applicable specification sections.

N. Item 14- Install Owner-Furnished Vacuum Circuit Breakers

Measurement shall consist of vacuum circuit breaker and frame assembly or adjustment, rigging, placing, leveling and securing to the foundation, and making high voltage, low voltage power, CT, control, and grounding connections, per the Construction Drawings and the requirements of applicable specification sections. This Item excludes Testing, see Bid Item 19.

O. Item 15- Install Substation Materials

Measurement shall consist of assembling and installing substation steel structures, concrete lightning masts and line terminal poles, switches, instrument transformers, arresters, insulators, bus and other substation materials, per the Construction Drawings and the requirements of applicable specification sections.

P. Item 16- Relocations and Removals

Measurement shall consist of structure and equipment relocations where indicated, demolition, removals not specifically covered under other Bid Items, and return of removed materials, per the Construction Drawings and the requirements of applicable specification sections.

The two 23kV oil circuit breakers and six step-voltage regulators shall be removed from their foundations and set aside at a location on site to be designated by the Owner.

The 115x138-23kV 18/24/30 MVA non-LTC Westinghouse power transformer shall be removed from the site, and disposition shall be the responsibility of the Contractor. The transformer was manufactured in 1980, and is certified as Non-PCB.

Weight without oil: 93,900 lb

Oil: 8,014 gallons

Weight with oil: 154,000 lb

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Q. Item 17- Panelboards, Transfer Switch, Power and Control Cables

Measurement shall consist of installing panelboards and breakers, automatic transfer switch, and pulling and training low voltage power, CT, and control cables in various raceways, per the Construction Drawings and the requirements of applicable specification sections.

R. Item 18- Install Relay / Control Panels

Measurement shall consist of installing relay and control panels, mounting and wiring any loose relays or devices, and terminating low voltage power, CT, and control cables, per the Construction Drawings, approved submittals, and the requirements of applicable specification sections. This Item excludes Testing, see Bid Item 19.

S. Item 19- Testing and Documentation

Measurement shall consist of performing vacuum circuit breaker field testing per the manufacturer's recommendations, cable testing, relay and control functionality testing, testing of grounds, commissioning and energization, any other testing called for in the Construction Drawings or applicable specification sections, and reporting of test results.

T. Item 20- Contingency

Measurement shall consist of completing approved Change Order work.

U. Item A- Additional 5/8" x 10' Ground Rod (Transmission)

Unit Price measurement shall consist of procuring and installing each ground rod extension and coupling required *in addition to* the basic installation units, and documentation therefor, per the requirements of the Construction Drawings and Section 16301 Article 3.09.

V. Item B- Additional Concrete

Unit Price measurement shall consist of procuring and installing each cubic yard of *additional* cast-in-place concrete for a foundation, where the final Construction Drawing requirement is greater than the Bid Drawing quantity. Payment shall be to the nearest tenth of a cubic yard.

W. Item C- Additional Rebar

Unit Price measurement shall consist of procuring and installing each pound of *additional* steel reinforcing bars for a foundation, where the final Construction Drawing requirement is greater than the Bid Drawing quantity.

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X. Item D- Additional Control Cable

Unit Price measurement shall consist of procuring and installing each 100 linear feet of *additional* multi-conductor control cable, where the final Construction Drawing requirement is greater than the Bid Drawings number of runs and distances. Payment shall be to the nearest tenth of a unit (ten feet).

Y. Item E- Additional SIS Panel Wire

Unit Price measurement shall consist of procuring and installing each 100 linear feet of *additional* SIS panel wire, where the final Construction Drawing requirement is greater than the Bid Drawings number of runs and distances. Payment shall be to the nearest tenth of a unit (ten feet).

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION