



AGREEMENT NO. 21-R076431BB

**TRAFFIC SIGNAL AND INTELLIGENT TRANSPORTATION
SYSTEMS MAINTENANCE**

between

**MANATEE COUNTY
(COUNTY)**

and

**B & E SIGNAL AND LIGHTING, INC.
(CONTRACTOR)**

AGREEMENT FOR TRAFFIC SIGNAL AND INTELLIGENT TRANSPORTATION SYSTEMS MAINTENANCE

THIS AGREEMENT is made and entered into as of this 8th day of June, 2021, by and between **MANATEE COUNTY**, a political subdivision of the State of Florida, (“**COUNTY**”), with offices located at 1112 Manatee Avenue West, Bradenton, Florida 34205 and **B & E SIGNAL AND LIGHTING, INC.**, a Florida Corporation, (“**CONTRACTOR**”), with offices located at 6447 33rd Street East, Sarasota, FL 34243, and duly authorized to conduct business in the State of Florida. **COUNTY** and **CONTRACTOR** are collectively referred to as the “Parties” and individually as “Party.”

WHEREAS, **CONTRACTOR** engages in the business of traffic signal and intelligent transportation systems maintenance services; and

WHEREAS, **COUNTY** has determined that it is necessary, expedient and in the best interest of **COUNTY** to retain **CONTRACTOR** to render the non-professional services described in this Agreement; and

WHEREAS, this Agreement is a result of **CONTRACTOR'S** submission of a bid in response to Invitation for Bid No. 21-R076431BB and **COUNTY** thereafter conducted a competitive selection process in accordance with the Manatee County Procurement Code.

NOW, THEREFORE, the **COUNTY** and **CONTRACTOR**, in consideration of the mutual covenants, promises, and representations contained herein, the sufficiency of which is hereby acknowledged, the Parties hereto agree as follows:

ARTICLE 1. SCOPE OF SERVICES

CONTRACTOR shall provide non-professional services as described in **Exhibit A**, Scope of Services (“Services”). “Task” as used in this Agreement, refers to particular categories/groupings of Services specified in **Exhibit A**.

ARTICLE 2. EXHIBITS INCORPORATED

This Agreement consists of a primary contract and four (4) exhibits, which are as follows:

Exhibit A, Scope of Services

Exhibit B, Fee Rate Schedule

Exhibit C, Affidavit of No Conflict

Exhibit D, Insurance Requirements and Contractor’s Insurance Statement

These Exhibits are attached hereto and are incorporated into this Agreement. In the event of a conflict between the terms and conditions provided in the Articles of this Agreement and any Exhibit, the provisions contained within these Articles shall prevail unless the Exhibit specifically states that it shall prevail.

ARTICLE 3. AGREEMENT TERM

- A. This Agreement shall commence on the date of execution by COUNTY (“Effective Date”). This Agreement shall remain in force through June 7, 2024 unless terminated by COUNTY pursuant to Article 8, but not to exceed three (3) years.
- B. COUNTY reserves the right to extend the initial term of three (3) years for an additional two (2) one-year periods.

ARTICLE 4. COMPENSATION

- A. CONTRACTOR shall be compensated for the Services and all expenditures incurred in providing the Services.
- B. The fee rates specified in **Exhibit B** shall be the total compensation for the Services and shall contain all applicable costs, to include salaries, office operation, transportation, equipment, overhead, general and administrative, incidental expenses, fringe benefits and operating margin.

ARTICLE 5. INVOICES AND TIME OF PAYMENT

- A. Subject to the provisions of this Agreement, COUNTY shall pay CONTRACTOR for the Services at a rate of compensation according to the deliverable payment schedule stated in **Exhibit B**.
- B. COUNTY shall approve of all invoices prior to payment.
- C. COUNTY shall have forty-five (45) days from the receipt of an invoice seeking payment of fees or costs to either pay the invoice, or notify CONTRACTOR that the deliverable, or any part thereof, is unacceptable.
- D. COUNTY shall have the right to retain from any payment due CONTRACTOR under this Agreement, an amount sufficient to satisfy any amount of liquidated damages due and owing to COUNTY by CONTRACTOR on any other Agreement between CONTRACTOR and COUNTY.
- E. All costs of providing the Services shall be the responsibility of CONTRACTOR.
- F. Any dispute between COUNTY and CONTRACTOR with regard to the Services or CONTRACTOR’S invoice shall be resolved pursuant to the dispute resolution procedures established by Manatee County Procurement Code and Article 12 of this Agreement.

ARTICLE 6. RESPONSIBILITIES OF CONTRACTOR

- A. CONTRACTOR shall appoint an Agent with respect to the Services to be performed by

CONTRACTOR pursuant to this Agreement. CONTRACTOR'S Agent shall have the authority to make representations on behalf of CONTRACTOR, receive information, and interpret and define the needs of CONTRACTOR and make decisions pertinent to the Services. CONTRACTOR'S Agent shall have the right to designate other employees of CONTRACTOR to serve in his or her absence. CONTRACTOR reserves the right to designate a different agent, provided that COUNTY is given advance written notice thereof.

- B. CONTRACTOR shall perform the Services in accordance with the terms and conditions of this Agreement.
- C. CONTRACTOR shall ensure that all employees assigned to render the Services are duly qualified, registered, licensed or certified to provide the Services required.
- D. CONTRACTOR shall be responsible for collecting all existing data required for the successful completion of each Task.
- E. CONTRACTOR shall not engage in any obligations, undertakings, contracts or professional obligations that create a conflict of interest, or even an appearance of a conflict of interest, with respect to the Services. CONTRACTOR attests to this via an Affidavit of No Conflict, **Exhibit C**.
- F. CONTRACTOR shall be entitled to rely upon information provided from COUNTY. Information may include, but is not limited to, additional services, consultations, investigations, and reports necessary for the execution of CONTRACTOR'S work under this Agreement. CONTRACTOR shall be fully responsible for verifying, to the extent practicable, documents and information provided by COUNTY and identifying any obvious deficiencies concerning the documents and information provided. CONTRACTOR shall notify COUNTY of any errors or deficiencies noted in such information provided and assist, to the extent practicable, COUNTY in the identification and resolution of same. CONTRACTOR agrees to incorporate the provisions of this paragraph in any subcontract into which it might enter with reference to the work performed under this Agreement.
- G. CONTRACTOR shall be responsible for the professional quality and technical accuracy of the Services and any other services furnished by CONTRACTOR under this Agreement. CONTRACTOR shall, without additional compensation, correct or revise any errors or deficiencies in the Services.
- H. CONTRACTOR shall maintain an adequate and competent staff of professionally qualified persons during the term of this Agreement for the purpose of rendering the required Services hereunder. CONTRACTOR shall not sublet, assign or transfer any Services without prior written consent of COUNTY.
- I. COUNTY may require in writing that CONTRACTOR remove from the Services any of CONTRACTOR'S personnel that COUNTY determines to be incompetent, careless or otherwise objectionable. No claims for an increase in compensation or agreement term based on COUNTY'S use of this provision will be valid.

- J. CONTRACTOR understands and agrees that this is a firm fixed price contract and that there shall be no allowances or reimbursement for any cost whatsoever except as otherwise explicitly provided in this Agreement. CONTRACTOR agrees to fulfill its obligations under this Agreement, regardless of cost, for the sole and sufficient compensation stated in Exhibit B with no expectation of additional compensation. COUNTY will not be obligated to pay CONTRACTOR any amount in excess of the firm fixed price specified in Exhibit B.

ARTICLE 7. RESPONSIBILITIES OF COUNTY

- A. COUNTY shall, through its County Administrator, appoint an individual to serve as County Representative. The County Representative shall have the authority to transmit instructions, receive information, interpret and define the policy of COUNTY and make decisions pertinent to the Services. COUNTY reserves the right to designate a different County Representative, provided that CONTRACTOR is given advance written notice thereof.
- B. COUNTY shall make available, at no cost to CONTRACTOR, information relative to the project that is useful in the performance of the Services.
- C. COUNTY shall provide prompt notice to CONTRACTOR whenever COUNTY observes or otherwise becomes aware of any defect in the performance of the Services.
- D. COUNTY shall give careful and reasonable consideration to the findings and recommendations of CONTRACTOR and shall respond and issue notices to proceed in a timely manner.
- E. COUNTY personnel shall be available on a time-permitting basis, where required and necessary to assist CONTRACTOR. The availability and necessity of said personnel to assist CONTRACTOR shall be at the discretion of COUNTY.
- F. COUNTY shall perform the responsibilities enumerated in this Article at no cost to CONTRACTOR.

ARTICLE 8. COUNTY OWNERSHIP OF WORK PRODUCT

The Parties agree that COUNTY shall have exclusive ownership of all reports, documents, designs, ideas, materials, reports, concepts, plans, creative works, and other work product developed for or provided to COUNTY in connection with this Agreement, and all patent rights, copyrights, trade secret rights and other intellectual property rights relating thereto (collectively “the Intellectual Property”). CONTRACTOR hereby assigns and transfers all rights in the Intellectual Property to COUNTY. CONTRACTOR further agrees to execute and deliver such assignments and other documents as COUNTY may later require to perfect, maintain and enforce COUNTY’S rights as sole owner of the Intellectual property, including all rights under patent and copyright law.

ARTICLE 9. TERMINATION OF AGREEMENT

- A. TERMINATION FOR CAUSE:

1. COUNTY shall have the right, by written notice to CONTRACTOR, to terminate this Agreement, in whole or in part, for failure to substantially comply with the terms and conditions of this Agreement, to include:
 - a. Failure to provide Services that comply with the specifications herein or that fail to meet COUNTY'S performance standards;
 - b. Failure to perform the Services within the time specified in this Agreement; or
 - c. Work that is at a rate that disrupts the overall performance of this Agreement.
2. Prior to termination for default, COUNTY shall provide adequate written notice to CONTRACTOR, affording CONTRACTOR the opportunity to cure the deficiencies or to submit a specific plan to resolve the deficiencies within ten (10) days (or the period specified in the notice) after receipt of the notice. Failure to adequately cure the deficiency shall result in termination action.
3. Such termination may also result in suspension or debarment of CONTRACTOR in accordance with Manatee County's Procurement Ordinance, Chapter 2-26. CONTRACTOR shall be liable for any damage to COUNTY resulting from CONTRACTOR'S default of the Agreement.
4. In the event of termination of this Agreement, CONTRACTOR shall be liable for any damage to COUNTY resulting from CONTRACTOR'S default of this Agreement. This liability includes any increased costs incurred by COUNTY in completing performance under this Agreement.
5. In the event of termination by COUNTY for any cause, CONTRACTOR shall not have any right or claim against COUNTY for lost profits or compensation for lost opportunities. After a receipt of COUNTY'S Notice of Termination and except as otherwise directed by COUNTY, CONTRACTOR shall:
 - a. Stop the Services on the date and to the extent specified;
 - b. Terminate and settle all orders and subcontracts relating to the performance of the terminated Services;
 - c. Transfer all work in process, completed work, and other materials related to the terminated Services as directed by COUNTY; and
 - d. Continue and complete all parts of the Services that have not been terminated.

B. TERMINATION WITHOUT CAUSE:

COUNTY may terminate this Agreement, in whole or in part, without cause. COUNTY shall provide CONTRACTOR a written "Notice of Intent to Terminate" thirty (30) days prior to the date of termination. If this Agreement is terminated by the COUNTY without cause, CONTRACTOR shall be entitled to payment for all Services performed to the satisfaction of the COUNTY and all expenses incurred under this Agreement prior to termination, less any costs, expenses or damages due to the failure of the CONTRACTOR to properly perform pursuant to this Agreement. CONTRACTOR shall not be entitled to any other compensation, including anticipated profits on unperformed Services.

ARTICLE 10. TRANSITION SERVICES UPON TERMINATION

Upon termination or expiration of this Agreement, CONTRACTOR shall cooperate with COUNTY to assist with the orderly transfer of the Services provided by CONTRACTOR to COUNTY. Prior to termination or expiration of this Agreement, COUNTY may require CONTRACTOR to perform and, if so required, CONTRACTOR shall perform, certain transition services necessary to shift the Services to another provider or to COUNTY itself as described below (the "Transition Services"). The Transition Services may include but shall not be limited to:

- A. Working with COUNTY to jointly develop a mutually agreed upon Transition Services plan to facilitate the termination of the Services;
- B. Executing the Transition Services plan activities;
- C. Answering questions regarding the Services on an as-needed basis; and
- D. Providing such other reasonable Services needed to effectuate an orderly transition to a new service provider or to COUNTY.

ARTICLE 11. DISPUTE RESOLUTION

- A. Disputes shall be resolved in accordance with the Manatee County Purchasing Code (Chapter 2-26 of the Manatee County Code of Ordinances). Any dispute resolution constituting a material change in this Agreement shall not be final until an amendment to this Agreement has been approved and executed by the County Procurement Official.
- B. CONTRACTOR agrees it must exhaust all dispute resolution procedures set forth in Manatee County's Procurement Code prior to instituting any action in state or federal court or before any administrative agency or tribunal.

ARTICLE 12. COMPLIANCE WITH LAWS

All Services rendered or performed by CONTRACTOR pursuant to the provisions of this Agreement shall be in compliance with all applicable local, state and federal laws and ordinances. CONTRACTOR shall have and keep current at all times during the term of this Agreement all licenses and permits as required by law.

ARTICLE 13. NON-DISCRIMINATION

CONTRACTOR shall not discriminate against any employee or applicant for employment because of race, color, sex, creed, national origin, disability or age, and will take affirmative action to ensure that all employees and applicants are afforded equal employment opportunities. Such action will be taken with reference to, but shall not be limited to, recruitment, employment, job assignment, promotion, upgrading, demotion, transfer, layoff or termination, rates of training or retraining (including apprenticeship and on-the-job training).

ARTICLE 14. MAINTENANCE OF RECORDS; AUDITS; LICENSES

- A. CONTRACTOR shall maintain records, accounts, property records, and personnel records in accordance with generally accepted accounting principles, as deemed necessary by

COUNTY to assure proper accounting of funds and compliance with the provisions of this Agreement.

- B. CONTRACTOR shall provide COUNTY all information, reports, records and documents required by this Agreement or by COUNTY ordinances, rules or procedures, or as needed by COUNTY to monitor and evaluate CONTRACTOR'S performance. Such materials shall also be made available to COUNTY upon request for auditing purposes. Inspection or copying will occur during normal business hours, and as often as COUNTY may deem necessary. COUNTY shall have the right to obtain and inspect any audit pertaining to the performance of this Agreement or CONTRACTOR made by any local, state or federal agency. To the extent such materials are in the possession of a third party, CONTRACTOR must obtain them from that third party, or certify in writing to COUNTY why it was unable to do so. CONTRACTOR shall retain all records and supporting documents related to this Agreement in accordance with all applicable laws, rules and regulations, and, at a minimum, retain all records and supporting documents related to this Agreement, except duplicate copies or drafts, for at least three (3) years after the termination date.
- C. CONTRACTOR shall obtain any licenses required to provide the Services and maintain full compliance with any licensure requirements. Copies of reports provided to or by any licensing or regulatory agency shall be forwarded to COUNTY within ten (10) days of receipt by CONTRACTOR. CONTRACTOR shall immediately notify COUNTY if the required licenses of any of its principles or agents working on this Agreement are terminated, suspended, revoked or are otherwise invalid and/or are no longer in good standing.

ARTICLE 15. PUBLIC RECORDS

Pursuant to Florida Statutes §119.0701, to the extent CONTRACTOR is performing services on behalf of COUNTY, CONTRACTOR shall:

- A. Keep and maintain public records that would ordinarily be required by COUNTY to perform the service.
- B. Upon request from COUNTY'S custodian of public records, provide COUNTY with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes, or as otherwise provided by law.
- C. Ensure that public records that are exempt or confidential from public records disclosure requirements are not disclosed except as authorized by law for the duration of this Agreement and following completion of this Agreement if CONTRACTOR does not transfer the records to COUNTY.
- D. Upon completion of this Agreement, transfer, at no cost, to COUNTY all public records in possession of CONTRACTOR or keep and maintain public records required by COUNTY to perform the service. If CONTRACTOR transfers all public records to COUNTY upon completion of this Agreement, CONTRACTOR shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If

CONTRACTOR keeps and maintains public records upon completion of this Agreement, CONTRACTOR shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to COUNTY, upon request from COUNTY'S custodian of public records, in a format that is compatible with the information technology systems of COUNTY.

IF CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO COUNTY'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT:

Phone: 941.742.5845

Email: Debbie.Scaccianoce@mymanatee.org

**Mail or hand delivery:
Attn: Records Manager
1112 Manatee Avenue West
Bradenton, FL 34205**

ARTICLE 16. INDEMNIFICATION

- A. Each Party shall defend, indemnify, save and hold harmless the other, its officers, employees and agents, from any and all third-party claims, liabilities, loss, or cause of action for property damage or bodily injury, including death, arising out of any negligent actions or omissions of the indemnifying Party, its agents, officers, employees or agents in the performance of this Agreement, including without limitation, defects in design, or errors or omissions that result in material cost increases to the indemnified Party. Such indemnification shall include, but not be limited to, the payment of all valid claims, losses, and judgements of any nature whatsoever in connection therewith and the payment of all related fees and costs, including attorneys' fees, incurred by the indemnified Party in connection with the indemnifying Party's activities arising out of the performance of this Agreement. This indemnification obligation shall not be construed to negate, abridge or reduce any other rights or remedies which otherwise may be available to an indemnified Party or person described in this paragraph or deemed to affect the rights, privileges and immunities of COUNTY as set forth in Section 768.28, Florida Statutes.
- B. CONTRACTOR will indemnify, defend, save and hold harmless the COUNTY, its officers, and employees all third-party claims, liabilities, loss, or cause of action that the Services constitutes an infringement of any third-party intellectual property right(s), unless such claim is based on COUNTY'S wrongful or illegitimate use of the Services. The foregoing states the entire liability of CONTRACTOR and the sole and exclusive remedy for COUNTY with respect to any third-party claim of infringement or misappropriation of intellectual property rights. Such indemnification shall include, but not be limited to, the payment of all valid claims, losses, and judgments of any nature whatsoever in connection therewith and the payment of all related fees and costs, including attorneys' fees.

ARTICLE 17. NO WAIVER OF SOVEREIGN IMMUNITY

Nothing herein shall be interpreted as a waiver by COUNTY of its rights, including the limitations of the waiver of immunity as set forth in Section 768.28, Florida Statutes, or any other applicable statutes or immunities. COUNTY expressly reserves these rights to the full extent allowed by law.

ARTICLE 18. INSURANCE

- A. CONTRACTOR shall, at its own cost and expense, acquire and maintain (and cause any subcontractors, representatives, or agents to acquire and maintain) insurance policies that comply with the Insurance Requirements, attached as **Exhibit D**, during the term of this Agreement, to include any renewal terms.
- B. Certificates of Insurance and copies of policies evidencing the insurance coverage specified in **Exhibit D** shall be filed with the Procurement Official before the Effective Date of this Agreement. The required certificates shall identify the type of policy, policy number, date of expiration, amount of coverage, companies affording coverage, shall refer specifically to the title of this Agreement, and shall name Manatee County as an additional insured. No changes shall be made to the insurance coverage without prior written approval by COUNTY'S Risk Management Division.
- C. Insurance shall remain in force for at least three (3) years after completion of the Services in the amounts and types of coverage as required by **Exhibit D**, including coverage for all Services completed under this Agreement.
- D. If the initial insurance expires prior to the termination of this Agreement, renewal Certificates of Insurance and required copies of policies shall be furnished by CONTRACTOR and delivered to the Procurement Official thirty (30) days prior to the date of their expiration.

ARTICLE 19. SOLICITATION OF AGREEMENT

CONTRACTOR warrants that it has not employed or retained any company or person other than a bona fide employee working solely for CONTRACTOR to solicit or secure this Agreement, and that it has not paid or agreed to pay any company or person other than an employee working solely for CONTRACTOR, any fee, commission, percentage, brokerage fee, gift, contingent fee, or any other consideration contingent upon or resulting from the award or making of this Agreement. For breach or violation of this warranty, COUNTY shall have the right to annul this Agreement without liability, or at its discretion, to deduct from this Agreement price or consideration or otherwise recover the full amount of such fee, commission, percentage, brokerage fee, gifts, or contingent fee.

ARTICLE 20. ASSIGNMENT AND SUBCONTRACTING

CONTRACTOR shall not assign or transfer any right or duty under this Agreement to any other Party without the prior written consent of COUNTY. In the event CONTRACTOR asserts it is necessary to utilize the services of third parties to perform any of the Services, CONTRACTOR shall first obtain prior written approval of COUNTY.

Approval to utilize any third party shall not relieve CONTRACTOR from any direct liability or responsibility to COUNTY pursuant to the provisions of this Agreement, or obligate COUNTY to make any payments other than payments due to CONTRACTOR as outlined in this Agreement. All terms and conditions of this Agreement shall extend to and be binding on any approved purchaser, assignee, or other successor in interest.

Assignment, pledging, sale, transfer or encumbering of any interest or rights under this Agreement, to anyone other than the CONTRACTOR, without the prior written consent of the COUNTY, shall be grounds for immediate termination of this Agreement.

ARTICLE 21. CERTIFICATION OF NON-PAYMENT OF COMMISSION OR GIFT

CONTRACTOR warrants that it has not employed or retained any company or person other than a bona fide employee working solely for CONTRACTOR to solicit or secure this Agreement, and that it has not paid or agreed to pay any company or person other than an employee working solely for CONTRACTOR, any fee, commission, percentage, brokerage fee, gift, contingent fee, or any other consideration contingent upon or resulting from the award or making of this Agreement. For breach or violation of this warranty, COUNTY shall have the right to annul this Agreement, without liability or at its discretion to deduct from the agreement price consideration or otherwise recover the full amount of such fee, commission, percentage, brokerage fee, gifts, or contingent fee.

ARTICLE 22. KEY PERSONNEL

The following key personnel shall be the COUNTY primary contacts assigned to this Agreement by CONTRACTOR:

Billy Masila, CEO

CONTRACTOR shall notify the COUNTY in writing within ten (10) business days of any changes to the key personnel.

ARTICLE 23. SUB-CONTRACTORS

If CONTRACTOR receives written approval from the COUNTY to use the services of a sub-contractor(s), CONTRACTOR shall utilize the fees specified in **Exhibit B** for any subcontractors utilized in the provision of the Services.

ARTICLE 24. LIABILITY FOR NEGLIGENCE.

To the fullest extent allowed by law, the individuals performing the Services pursuant to this Agreement shall be personally liable for negligent acts or omissions. To the fullest extent allowed by law, CONTRACTOR shall likewise be liable for negligent acts or omissions in the performance of the Services.

ARTICLE 25. NOTICES

All notices, requests and authorizations provided for herein shall be in writing and shall be delivered by hand or mailed through the U.S. Mail, addressed as follows:

To COUNTY: Manatee County Government
Traffic Operations Division
Attn: Traffic Operations Division Manager
2904 12th Street Court East
Bradenton, FL 34208
Phone: (941) 708-7509
Email: aaron.burkett@mymanatee.org

To CONTRACTOR: B & E Signal and Lighting, Inc.
Attn: Billy Masila, CEO
6447 33rd Street East
Sarasota, FL 34243
Phone: (941) 758-3594
Email: nisa@beutility.com

ARTICLE 26. RELATIONSHIP OF PARTIES

The relationship of CONTRACTOR to COUNTY shall be that of an independent contractor. Nothing herein contained shall be construed as vesting or delegating to CONTRACTOR or any of the officers, employees, personnel, agents, or sub-contractors of CONTRACTOR any rights, interest or status as an employee of COUNTY. COUNTY shall not be liable to any person, firm or corporation that is employed by Agreements or provides goods or services to CONTRACTOR in connection with this Agreement or for debts or claims accruing to such parties. CONTRACTOR shall promptly pay, discharge or take such action as may be necessary and reasonable to settle such debts or claims.

ARTICLE 27. NO CONFLICT

By accepting award of this Agreement, CONTRACTOR, which shall include its directors, officers and employees, represents that it presently has no interest in and shall acquire no interest in any business or activity which would conflict in any manner with the performance of duties or Services required hereunder.

ARTICLE 28. ETHICAL CONSIDERATIONS

CONTRACTOR recognizes that in rendering the Services, CONTRACTOR is working for the residents of Manatee County, Florida, subject to public observation, scrutiny and inquiry; and based upon said recognition CONTRACTOR shall, in all of its relationships with COUNTY pursuant to this Agreement, conduct itself in accordance with all of the recognized applicable ethical standards set by any related national societies, and the reasonable traditions to perform the Services. CONTRACTOR shall be truthful in its communications with COUNTY personnel regarding matters pertaining to this Agreement and the Services rendered to COUNTY.

ARTICLE 29. PUBLIC ENTITY CRIMES

CONTRACTOR has been made aware of the Florida Public Entity Crimes Act, Florida Statutes § 287.133, specifically section 2(a), and COUNTY'S requirement that CONTRACTOR comply with it in all respects prior to and during the term of this Agreement.

ARTICLE 30. TAXES

COUNTY is exempt from Federal Excise and State Sales Taxes (F.E.T. Exemption Certificate No. 59-78-0089K; FL Sales Tax Exemption Certificate No. 51-02-027548-53C). Therefore, CONTRACTOR is prohibited from charging or imposing any sales or service taxes. Nothing herein shall affect CONTRACTOR’S normal tax liability.

CONTRACTOR shall be responsible for payment of federal, state, and local taxes which may be imposed upon CONTRACTOR under applicable law to the extent that CONTRACTOR is responsible for the payment of same under applicable law.

ARTICLE 31. FORCE MAJEURE

Neither Party shall be considered in default in performance of its obligations hereunder to the extent that performance of such obligations or any of them is delayed or prevented by Force Majeure.

Force Majeure shall include, but not be limited to, hostility, revolution, civil commotion, strike, epidemic, accident, fire, flood, wind, earthquake, hurricane, explosion, lack of or failure of transportation facilities, any law, proclamation, regulation, ordinance or other act of government, or any act of God or any cause whether of the same or different nature, existing or future; provided that the cause, whether or not enumerated in this Article, is beyond the control and without the fault or negligence of the Party seeking relief under this Article.

ARTICLE 32. GOVERNING LAW, JURISDICTION AND VENUE

This Agreement shall be governed by the laws of the State of Florida. Any action filed regarding this Agreement will be filed only in Manatee County, Florida, or if in Federal Court, the Middle District of Florida, Tampa Division.

ARTICLE 33. ATTORNEY FEES

In the event of any litigation arising under the terms of this Agreement, each Party shall be responsible for their own attorney's fees, including appellate fees, regardless of the outcome of the litigation.

ARTICLE 34. PATENT AND COPYRIGHT RESPONSIBILITY

Any material or design specified by CONTRACTOR or supplied by CONTRACTOR pursuant to this Agreement shall not knowingly infringe any patent or copyright, and CONTRACTOR shall be solely responsible for securing any necessary licenses required for patented or copyrighted material utilized by CONTRACTOR in the performance of the Services.

ARTICLE 35. AMENDMENTS

This Agreement and Exhibits referenced herein constitute the entire Agreement between the Parties with respect to subject matter and mutually agree that no verbal agreements, representations, warranties or other understandings affecting the same exist. No amendment hereof shall be effective until and unless reduced to writing and executed by the Parties. The Parties shall execute any additional documents as may be necessary to implement and carry out the intent of this Agreement.

ARTICLE 36. SEVERABILITY

It is understood and agreed by the Parties hereto that if any part, term, or provision of this Agreement is held to be illegal or in conflict with any law, the validity of the remaining portions or provisions shall not be affected, and the rights and obligations of the Parties shall be construed and enforced as if this Agreement did not contain the particular part, term or provision held to be invalid.

ARTICLE 37. LEGAL REFERENCES

All references to statutory sections or chapters shall be construed to include subsequent amendments to such provisions, and to refer to the successor provision of any such provision. References to “applicable law” and “general law” shall be construed to include provisions of local, state and federal law, whether established by legislative action, administrative rule or regulation, or judicial decision.

ARTICLE 38. HEADINGS, CONSTRUCTION

The Parties agree that they have each participated in the drafting of this Agreement and that the rules with respect to construing ambiguities against the drafter of a contract shall not apply in any action or litigation regarding this Agreement. All articles and descriptive headings of paragraphs of this Agreement are inserted for convenience only and shall not affect the construction or interpretation hereof.

ARTICLE 39. TIME

For purposes of computing any period of number of days hereunder for notices or performance of ten (10) days or less, Saturdays, Sundays and holidays shall be excluded, unless otherwise stated.


ARTICLE 40. AUTHORITY TO EXECUTE

Each of the Parties hereto covenants to the other Party that it has lawful authority to enter into this Agreement.

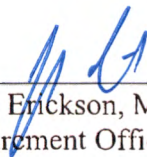
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IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be duly executed effective as of the date set forth above.

B & E SIGNAL AND LIGHTING, INC.

By: 
Printed Name: Billy T. Masila
Title: CEO
Date: 5.14.21

**MANATEE COUNTY, a political subdivision
of the State of Florida**


Jacob Erickson, MBA, CPPO, NIGP-CPP
Procurement Official

Date: June 8, 2021

EXHIBITS

EXHIBIT A, SCOPE OF SERVICES

A.1 SCOPE

CONTRACTOR shall furnish all necessary labor, tools, licensing, certifications, transportation, materials, cleaning solutions, equipment, incidentals, and vehicles and facilities for transportation of all materials necessary to repair, construct, and maintain the COUNTY'S traffic signals, highway lighting, and Intelligent Transportation Systems (ITS). This includes, but is not limited to, signalization electrical and electronic equipment, hardware, structural supports, power service assemblies, pull boxes, cabling, conduit, protective devices, control devices, lighting, battery backup units, detection devices, and ITS components.

A.2 CONTRACTOR'S RESPONSIBILITIES AND REQUIREMENTS

A. GENERAL REQUIREMENTS

CONTRACTOR shall:

1. Provide as-needed maintenance, installation, construction, and repair services for traffic signals, highway lighting, ITS, and other related devices ("Services").
2. Provide the Services during normal working hours. Normal working hours for the COUNTY'S Traffic Operations Division are 7:00 A.M. to 3:30 P.M., Monday through Friday, excluding COUNTY holidays. If CONTRACTOR desires to work outside of the normal working hours, CONTRACTOR shall get prior approval from COUNTY. All requests shall be made forty-eight (48) hours prior to the planned work schedule.
3. Provide the Services as directed by COUNTY. Not all tasks to be performed are included in Exhibit B, Fee Rate Schedule. COUNTY reserves the right to add, delete, and revise Line Items listed in Exhibit B, Fee Rate Schedule.
4. Provide all Services in accordance with the current editions of the following published documents: Manatee County Traffic Design Standards; Florida Department of Transportation (FDOT) Design Standards; Manual on Uniform Traffic Control Devices (MUTCD); FDOT Minimum Specifications for Traffic Control Signals and Devices (MSTCSD); National Electric Code (NEC); and National Electrical Safety Code (NESC).
5. Provide all Services in compliance with the regulations and requirements of the Public Service Commission (PSC) and all other applicable laws, rules, and ordinances.
6. Provide products that are listed in the FDOT Approved Products List (APL) and Qualified Products List (QPL), unless otherwise indicated and approved by COUNTY.
7. Ensure that all equipment repairs conform to all applicable laws and safety requirements and are equipped with warning lights in accordance with 8-4.1 of the Standard Specifications.

8. Adhere to the requirements of 29 CFR, Part 1910, OSHA and the American National Standard Safety Code for Crawler, Locomotive, and Truck Cranes, ANSI A29.2 1969, B30.5 1968, and A92.2 1969 for items relating to lifting devices such as cranes.
9. Refer to the Manatee County Traffic Design Standards for additional details regarding material, installation, and repair requirements.
10. Provide all Services in accordance with the standards established in the FDOT Maintenance Rating Program.
11. Ensure that all lane closures are preapproved by COUNTY and are in accordance with FDOT Standard Specifications. CONTRACTOR shall not occupy any portion of the roadway during peak traffic periods as may be established by COUNTY. The only exception is an emergency.
12. Provide the replacement of infrastructure (e.g. light poles) damaged by traffic crashes or natural causes within seven (7) calendar days from the date the Release Order is issued. In cases where shop drawings are required, CONTRACTOR shall expedite the preparation of the drawings and the ordering of the material to avoid any delays in the infrastructure's replacement. CONTRACTOR shall take immediate action to protect the safety of the public by removing any elements that may cause a hazard. Services also include the removal and/or proper disposal of the damaged parts and debris; wiring/rewiring; and providing all hardware, splices, and related parts necessary to make a complete replacement installation.
13. Ensure that all non-emergency Services are started within fourteen (14) calendar days from the date the Release Order is issued, unless otherwise agreed to by COUNTY. CONTRACTOR shall start work on all non-emergency projects/tasks within fourteen (14) calendar days from the date the Release Order is issued, unless otherwise agreed to by COUNTY.
14. Ensure that all emergency Services are started within two (2) hours of work order authorization/notification from COUNTY, unless otherwise agreed to by COUNTY. CONTRACTOR shall be onsite and ready to perform the work, with all material and equipment needed to perform the work, within two (2) hours of work order authorization/notification from COUNTY.
15. Maintain all material and equipment storage sites outside the Right-of-Way (ROW) limits on any state or COUNTY maintained roadway. Materials may be temporarily stored on the ROW, except for medians, for a period not to exceed twenty-four (24) hours, with prior approval from COUNTY. Materials stored along the roadway shall be placed so as not to intrude into the clear recovery area, cause an unsafe condition, or to cause any inconvenience to the public. COUNTY will not be held liable for any damages, incidents, or accidents that may occur as a result of storing material within the ROW.
16. Keep all new parts unopened and in their original containers until the time of installation.

17. Expedite the submittal of shop drawings for COUNTY approval to avoid any delays in completion of the Services.
18. Ask questions and receive responses from COUNTY concerning interpretation, clarification, or additional information pertaining to projects/tasks before beginning any work. CONTRACTOR shall have a full understanding of all projects/tasks before beginning work.
19. Install and replace all parts as originally designed by the manufacturer or by an alternate method with prior approval from COUNTY.
20. Ensure that any substitutions for replacement of existing damaged equipment are both functionally and aesthetically compatible with the existing components and are preapproved, in writing, by COUNTY.
21. Immediately report to COUNTY any fatalities or serious injuries to its employees or members of the public.
22. Immediately report to COUNTY any damage of more than \$500.00 to COUNTY property or property adjacent to the work-site resulting from an employee accident during the performance of the work.
23. Provide certification that confirms employees are trained in all appropriate safety practices contained within Section 29, Part 1910.333 of the Code of Federal Regulations (CFR) Occupational Safety and Health Administration (OSHA) relating to 'Lock-out, Tag-out' procedures prior to an employee being assigned to perform work under this Agreement and ensure employees apply these practices to the provision of the Services to COUNTY.
24. Ensure that all Maintenance of Traffic (MOT) certifications are current and provide proof of training upon request.
25. Ensure that all employees are trained in safe operation of the equipment necessary to do the work required under this Agreement. COUNTY shall have the authority to remove from the job site any of CONTRACTOR'S employees acting in a manner as to endanger the safety of CONTRACTOR'S employees, COUNTY'S employees, or that of the public.
26. Ensure the crew foreman and the foreman assistant are knowledgeable, experienced, and trained in the maintenance and repair of ITS.
27. Ensure and adhere to the following:
 - a. Preserve from damage on all existing property within the project limits of, or in any way affected by the work, the removal or destruction of which is not specified by COUNTY. This applies, but is not limited to public and private property, public and private utilities, trees, shrubs, crops, sod, signs, monuments, fences, guardrail, pipe and underground structures, ITS facilities, traffic control signals and devices, highway

- lighting, and public highways (except natural wear and tear of highway resulting from legitimate use thereof by CONTRACTOR).
- b. COUNTY underground facility locations shown in the plans are approximate. Unless otherwise shown in the plans, COUNTY underground facilities will be located by COUNTY through notification to "Sunshine 811".
 - c. Whenever CONTRACTOR'S activities damage such existing property, immediately restore it to a condition equal to or better than that existing at the time such damage occurred, at no expense to COUNTY.
 - d. Temporary repairs may be used to immediately restore ITS facilities and traffic control signals and devices. Permanent repairs to ITS facilities and traffic control signals and devices shall be made within ninety (90) calendar days of any temporary repairs and prior to final acceptance of the project. Submit permanent ITS facility repair plans to COUNTY prior to beginning repair work.

B. EMERGENCY SERVICES REQUIREMENTS

CONTRACTOR shall:

1. Provide emergency Services for emergency events, storms, incidents, and accidents that require short and long term remediation and restoration efforts to repair various traffic control devices. Emergency Services may include long term traffic signal and sign repair, removal of downed poles or mast arms impeding or otherwise threatening the safe use of the public right of way, and the repair of the electrical system in a way that prevents electrical shock to any individuals who come in contact.
2. Ensure twenty-four (24) hours per day and seven (7) days per week availability for emergency Services; this includes all hours outside of normal working hours, holidays, and weekends.
3. Respond to COUNTY within fifteen (15) minutes of being contacted by COUNTY via phone or email.
4. Report to the emergency work site location or locations within two (2) hours of receiving work order authorization/notification from COUNTY. CONTRACTOR shall be onsite and ready to perform the work, with all material and equipment needed to perform the work, within two (2) hours of receiving work order authorization/notification from COUNTY.
5. Provide an Emergency Contact Technician to receive and respond to verbal and written work requests from COUNTY as follows:
 - a. The Emergency Contact Technician shall be available twenty-four (24) hours per day and seven (7) days per week, including all hours outside of normal working hours, holidays, and weekends.
 - b. The Emergency Contact Technician shall be available to meet with COUNTY as-needed and shall respond to COUNTY within fifteen (15) minutes of being contacted via phone or email.

- c. CONTRACTOR shall immediately notify COUNTY of any changes to the Emergency Contact Technician such as a new technician or replacement technician, phone number, email address, etc.
- d. CONTRACTOR shall require that their Emergency Contact Technician be continuously available twenty-four (24) hours per day and seven (7) days per week, including all hours outside of normal working hours, holidays, and weekends, for direction from COUNTY via cellular telephone, electronic paging device, email, or other methods approved in advance by COUNTY.

C. EMERGENCY, PRIORITY, AND ROUTINE FAILURES

CONTRACTOR shall provide Emergency, Priority, and Routine Services within the required response times as follows:

1. Emergency Failures are failures that represent an immediate risk to the public, failures that cause a closure of the public travel-ways, or failures to the communications network that render the Advanced Traffic Management System inoperable.
 - a. Upon notification of an Emergency Failure from COUNTY, CONTRACTOR shall respond and complete repairs or eliminate the instant danger within four (4) hours of the reported incident. The notification from COUNTY may be verbally by telephone, email, facsimile, or text message.
2. Priority Failures are failures of individual components or systems that are adversely affecting the proper operation and full functionality of the signal, lighting system or ITS device.
 - a. Upon notification of a Priority Failure from COUNTY, CONTRACTOR shall respond and complete repairs or restore proper operation within twenty-four (24) hours of the reported incident. The notification from COUNTY may be verbally by telephone, written letter, system report, email, facsimile, text message, or through the daily/weekly maintenance check.
3. Routine Failures are failures that, while requiring attention, are not adversely affecting the immediate operation of the signal, lighting system or ITS device.
 - a. Upon notification of a Routine Failure from COUNTY, CONTRACTOR shall respond and complete repairs within seven (7) calendar days of the reported incident, or a longer timeframe as approved by COUNTY. The notification from COUNTY may be verbally by telephone, written letter, system report, email, facsimile, text message, or through the daily/weekly maintenance check.

D. TESTING AND INSPECTIONS

Upon completion, all work is subject to inspection by COUNTY prior to payment of invoice. No work shall be performed, nor materials used, without prior authorization by COUNTY. COUNTY shall have the authority to review and approve material submittals and perform verification tests.

COUNTY shall have the authority to reject materials or suspend work at any time until any questions at issue can be resolved through the hierarchy of authority. All issues will be resolved as expeditiously as possible.

E. MAINTENANCE OF TRAFFIC

The term Traffic Control Plan (TCP) includes Maintenance of Traffic (MOT) Plan and are intended to be synonymous for the Maintenance of Traffic.

CONTRACTOR shall provide, install, and maintain traffic devices according to the FDOT Design Standards Index 600 series, latest edition, and applicable laws and ordinances. The traffic control shall provide a safe work zone and safe flow of traffic in and through the project site. CONTRACTOR shall maintain all traffic control devices required for the work. CONTRACTOR shall remove maintenance of traffic devices when no longer required at no additional cost to COUNTY.

When a lane and/or road closure is required, CONTRACTOR shall submit a completed TCP to include details of the lane closure to COUNTY for approval at least ten (10) calendar days before the date of the proposed closure. No closures shall be implemented without COUNTY approval. CONTRACTOR shall be responsible for notifying FDOT and obtaining any required right-of-way permits for lane closures or road closures.

F. EMERGENCIES AT WORK SITE

In the event of an emergency, CONTRACTOR shall immediately take appropriate action to notify emergency services as needed. CONTRACTOR shall inform COUNTY within twenty-four (24) hours of any incident or accident which occurs while in transit to and from work location or while performing work.

G. PROJECT SCHEDULES

COUNTY may assign an order of priority to projects. CONTRACTOR shall use the priorities given by COUNTY when developing a schedule.

H. MOBILIZATION

Mobilization includes flag persons, cones, signs, and temporary maintenance. Only one (1) line item/lump sum fee is permitted for mobilization per each Release Order. Multiple line items/fees for mobilization per each Release Order will not be accepted by COUNTY. CONTRACTOR shall combine all mobilization fees together for one (1) line item having one (1) lump sum fee per each Release Order.

I. WORK AREA CLEAN-UP REQUIREMENTS

CONTRACTOR shall ensure and adhere to the following:

1. During the progress of the work, CONTRACTOR shall keep the premises and maintained travel lanes free from accumulations of waste, discarded or surplus material, rubbish and other debris or contaminates resulting from the work.

2. Following completion of the work, CONTRACTOR shall remove all waste material, rubbish, and debris from and about the premises as well as all tools, appliances, construction equipment, machinery, and surplus material. CONTRACTOR shall leave the site clean and ready for occupancy by COUNTY at substantial completion of the work.
3. CONTRACTOR shall take all measures necessary to protect surrounding public and private property, adjacent buildings, roads, drives, sidewalks, drains, sewers, utilities, trees, mail boxes, landscaping, structures, poles, and appurtenances from damage due to work. Responsibility and payment for correction of such damage is the sole responsibility of CONTRACTOR.

J. MATERIALS

CONTRACTOR shall provide, to the COUNTY, immediately upon delivery or as soon thereafter as is practical, copies of all delivery tickets and/or invoices for all material and equipment to be used for each project.

K. SAFETY – UTILITY COORDINATION

CONTRACTOR is responsible for providing for the safety of all CONTRACTOR'S and subcontractor's employees at the work site.

CONTRACTOR is required to comply with Florida Statute (F.S.), Chapter 556, Underground Facility Damage Prevention and Safety Act. CONTRACTOR is responsible for contacting Sunshine State One-Call of Florida, Inc., at 1-800-432-4770 or www.callsunshine.com, no less than two (2) business days, forty-eight (48) hours, and no more than five (5) business days before beginning any excavation, CONTRACTOR shall provide notification according to the procedures of the F.S. Chapter 556.

L. CONTAMINATION

Any equipment that is leaking fuel, lubricant, coolant, hydraulic fluid, or any other hazardous material shall immediately be repaired by CONTRACTOR to stop the leak.

CONTRACTOR shall clean up and dispose of any leaked fluids according to all applicable laws, ordinances, rules, and regulations within twenty-four (24) hours of occurrence. All repairs, removal, clean-up and/or disposal shall be at no cost to COUNTY.

M. PERMITS/ FEES/ REGULATIONS

CONTRACTOR is required to give all necessary notices, obtain all permits and inspections, and pay all costs in connection with the work.

CONTRACTOR shall assure compliance with all OSHA; EPA; and/or federal, state, and local rules and regulations. Any conflicts between the specifications and compliance with rules and regulations shall be brought to the attention of COUNTY and resolved before the work is to continue.

A.3 COUNTY RESPONSIBILITIES

COUNTY shall provide CONTRACTOR with a listing of all locations and identification numbers of the devices covered under this Agreement prior to commencement of Services.

A.4 METHOD OF PAYMENT

The Services specified herein will be paid for in accordance with the Work Tasks/Pay Items listed in this Scope in Section A.5 and the Line Items listed in Exhibit B, Fee Rate Schedule, and shall be full compensation for all labor, equipment, tools, incidentals, including installation and tests as required, and any necessary vehicles and facilities necessary to facilitate the tasks described. No payment will be made until appropriate inspections and/or tests of the work have been completed.

A.5 WORK TASKS / PAY ITEMS

A. ITEM NO. 630-2-AB / CONDUIT / LINEAR FEET (LF)

A = Operation

1 - Furnish & Install

B = Installation Method

1 (open trench) Underground

2 (Directional Bore) Underground or Under pavement

3 (Jack & Bore) Typically under railroad

4 (Aboveground)

5 (Bridge Mount)

1. Payment for these items will be full compensation for all locating work, trenching, backfilling, bends, anchors, connections miscellaneous materials, surface restoration, labor and equipment required to construct a new conduit run, as approved by COUNTY.
2. The conduit trench surface shall be stabilized and restored by CONTRACTOR to a maintenance free condition as part of this item.
3. MEASUREMENT – TRENCH or BORE: Measurement is for the straight line HORIZONTAL DISTANCE of the trench or bore, from pull box to pull box, with no allowance for sweeps or vertical distance. No additional payment will be made for multiple runs of conduit within a trench or bore.
4. MEASUREMENT – ABOVEGROUND or BRIDGE MOUNT: Measurement will be for the actual length of conduit used.
5. Aboveground conduit shall be measured by CONTRACTOR, sketched and documented for submission to COUNTY for payment. Payment will be based on the actual linear feet installed.
6. Grounding for all metal conduit runs is included as an incidental cost under the conduit pay items.

B. ITEM NO. 632-7-A / SIGNAL CABLE / MIXED

A = Operation

- 1 (New or Reconstructed Intersection- Furnish & Install) PI
- 2 (Repair, Replacement, and other operations- Furnish & Install) LF
- 4 (Adjust/Modify) PI
- 6 (Remove- Intersection) PI
- 7 (Remove- Outside of Intersection) LF

1. This pay item is for traffic signals and traffic control devices only.
2. Includes cable, support wire, cable ties, cable clamps, lashing wire, terminal connectors and cable grounding, within the normal limits of the intersection. May include total intersection replacement, and/or pedestrian signals, as noted in the plans.
3. For New or Reconstructed Intersections, use the per Intersection pay item. This includes intersections where new poles are installed/relocated. Includes all lashing wire and tie wraps for span wire installations.
4. For Repairs/Replacement/Other operations where new signal cable is needed, use the linear foot pay item. This includes non-intersection school zone signals, adding a signal head to an existing mast arm or span wire, or signal cables outside of an intersection.
5. REMOVE: Payment includes all signal cable per intersection or per LF for other applications, such as between a controller and flashing beacon sign(s). Detail quantity/location in the plans.

C. ITEM NO. 634-4-ABC / SPAN WIRE ASSEMBLY / PER INTERSECTION (PI)

A = Operation

- 1 (Furnish & Install)
- 3 (Install), NOT USED
- 4 (Adjust) BC=00, NOT USED
- 5 (Replace), for maintenance activities
- 6 (Remove, poles to remain) NOT USED
- 7 Re tension

B = Attachment Type

- 4 (Single Point)
- 5 (Two Point)

C = Type Span

- 1 (Perpendicular)
- 2 (Diagonal) see details above; flashing beacon installations only
- 3 (Box or Drop Box)
- 4 (Other) NOT USED

1. This pay item is for permanent traffic signals and traffic control devices only.
2. Use the two point attachment type pay items as applicable. Perpendicular spans, box spans or drop box spans shall be used for all signal span wire assemblies. For new construction, diagonal span assemblies shall only be used for flashing beacon installations.
3. Other Span Type: Do not use for perpendicular, box, or diagonal spans. Complete plan details are required.
4. Install span wire in accordance with FDOT Design Standards.
5. OPERATIONS:
 - a. ADJUST: NOT TO BE USED FOR MOT or Temporary Signals. Adjust existing Span Wires, as detailed in the plans.
 - b. REMOVE: Payment per intersection includes removing the span wire, messenger wire, and all miscellaneous materials supporting the traffic signals, signs, and other traffic control devices.
 - c. REMOVE: When the poles are to be removed, "all attachments" are included with the removal cost; NO SEPARATE PAYMENT for removal of span wire.

D. ITEM NO. 635-2-AB / PULL & SPLICE BOX / EACH (EA)

A = Operation

1 (Furnish & Install)

3 (Install) B=0; item furnished by COUNTY

4 (Relocate) B=0; see detail

5 (Repair) maintenance use only

B = Cover Size; minimum depth per specification

1 (13 x 24) standard size

2 (17 x 30) large size

3 (30" X 60" rectangular) splice vault

1. Use in accordance with Section 635 of the FDOT Standard Specifications.
2. DIMENSIONS: For traffic signal applications, use spec size B=1[a]. For fiber optic cable applications, the spec calls for size B=2. All other sizes use spec B=0, COUNTY will furnish.
3. INSTALL (A=3): Item furnished by maintaining agency.
4. RELOCATE (A=4): Depending on the type of box, current condition, and the extent of the relocation, replacement versus relocation should be considered.
5. REPAIR: To include full replacement of box to include lid.

E. ITEM NO. 639-1-ABC / ELECTRICAL POWER SERVICE / ASSEMBLY (AS)

A = Operation

1 (Furnish & Install)

4 (Relocate) C=0

6 (Remove) C=0

B = Type of Service

1 (Overhead)

2 (Underground)

C = Meter Base

1 (Furnished by Power Company)

2 (Purchased by CONTRACTOR)

3 (Provided by COUNTY)

1. This pay item is for electrical power services for signals, lighting, ITS, and other roadway applications.
2. Installations shall adhere to FDOT Standard Specifications and Design Index 17736, Figure 'B'. Grounding is incidental to power service.
3. Unless otherwise specified all new/rebuild electrical power service assemblies shall be mounted on a separate 12ft, Class P-II, pre-stressed concrete pole.
4. Payment for the following items will be for a complete electrical power service assembly to include support poles, conduit, wiring, meter can, circuit breakers, breaker panels and enclosures, and all other associated electrical power service equipment and assembly components.
5. The pay items provided may make no distinction in voltage or amperage rating.
6. The pay item structure provides for the installation, repair, relocation or removal of complete power services assemblies and should not be used as a basis for paying for individual components of an electrical power service.

F. ITEM NO. 639-2-A / ELECTRICAL SERVICE WIRE / LINEAR FEET (LF)

A = Operation

1 (Furnish & Install)

4 (Relocate)

1. This pay item is for signals, lighting, ITS, and other roadway applications.
2. MEASUREMENT: Payment is per length of complete wire run (all conductors included), not per each conductor.

G. ITEM NO. 639-4-A / EMERGENCY (PORTABLE) GENERATOR/HOUSING / MIXED (MX)

A = Operation

1 (Furnish & Install) (Generator) EA for Emergency /Pre-Event contracts only

3 (Install) (Generator) EA. For Emergency /Pre-Event contracts only

4 (Install) EA, NOT USED

5 (Monitor and Refuel) (Generator) HR; For Emergency /Pre-Event contracts only

6 (Install) (Generator Housing Only) EA; housing furnished by COUNTY

1. This Mixed pay item is for installation of generators and generator housings for traffic signals.
2. Pay Item includes installation, refueling and monitoring of portable inverter/ generators to provide emergency response back-up power to traffic signals.
3. Pay item includes the installation of generator housings to include concrete foundation, conduit, bonding and grounding, and electrical conductors.
4. Coordinate procurement of the generator AND generator housing with COUNTY prior to purchase or use.
5. INSTALL: Coordinate the use of this pay item with COUNTY, to ensure the availability of generators, location for deployment, to review security measures for generator and instructions for returning the unit to COUNTY upon completion of assignment.
6. Pay item includes installation and operation of a portable inverter/ generator within existing portable generator housings for the purposes of providing emergency backup power to traffic signals.
7. MONITOR & REFUEL: This pay item includes monitoring and refueling of portable generators every 6 hours. Fuel to be included in payment for hourly rate. (No separate payment for fuel.)
8. INSTALL GENERATOR HOUSING ONLY: This pay item is for the installation of a generator housing only to include concrete foundation, conduit, bonding and grounding, and electrical conductors. Housing to be provided by COUNTY.

H. ITEM NO. 641-2-AB / PRESTRESSED CONCRETE POLE / EACH (EA)

A = Operation

1 (Furnish & Install)

3 (Install) B=0

6 (Complete/Deep Removal- Pedestal/Service Pole) B=0,

7 (Shallow Removal- Poles 30' and greater) B=0,

8 (Complete/Deep Removal- Poles 30' and greater) B=0,

B = Pole Type (defined in Design Standards)

1 (Type P-II Pedestal)

2 (Type P-II Service Pole)

3 (Type P-III)

4 (Type P-IV)

5 (Type P-V)

6 (Type P-VI)

7 (Type P-VII)

8 (Type P-VIII)

9 (Custom Design) * NOT USED

1. This pay item is for traffic signals and traffic control devices only.
2. Pole description, including the type, height, and other details will be provided by COUNTY upon issuance of Release Order.
3. This item is used as detailed on FDOT index 17725 and Index 17764 (pedestrian pedestal). Poles shall be on the FDOT QPL.
4. REMOVE: Includes the removal of pole, foundation, and any attachments (Vehicular Signal, Pedestrian Signal, Pedestrian Detector, span wire, or other). No separate payment for removal of attachments when removed with the pole. Items removed from the pole shall be returned to COUNTY.
5. Shallow pole removal= depth of 4 feet.
6. Deep pole removal= complete removal.
7. B=9 (Custom Design): For use ONLY when design standard index does NOT apply.
8. Designer shall show complete dimensions for pole. Supporting calculations shall be completed for intended signals application. Review specification requirements to determine if notes or modified specs are needed. Payment will be for the installation of frangible street light base to include the base, attachments, bolts and washers as per plans and standard indexes.

I. ITEM NO. 643-ABB / STRAIN POLE, WOOD / EACH (EA)

A = Operation

1 (Furnish & Install)

3 (Install) furnished by COUNTY

4 (Relocate)

6 (Remove) BB=00

BB = Pole Length (Specified In 5' Increments Only)

1. This pay item is for traffic signals and traffic control devices only.
2. Guying of all wood pole installations considered incidental.
3. REMOVE: All wood poles are to be removed completely. Payment includes the removal of all attachments.

J. ITEM NO. 646-1-AB / ALUMINUM SIGNALS POLE / EACH (EA)

A = Operation

1 (Furnish & Install)

3 (Install) B=0

4 (Relocate) B=0

6 (Remove) B=0

B = Pole Type

1 (Pedestal)

2 (Pedestrian Detector Post)

1. To be used in accordance with FDOT Design Standards, Index Nos. 17764 and 17784.
2. INSTALL: The install operation should only be used when the item is furnished by COUNTY for installation by CONTRACTOR.
3. REMOVE: The removal of the foundation is included with the removal of the pedestal, unless otherwise noted. All attachments are included with the removal of the pole (pedestrian detector, pedestrian signal, etc.) all equipment and material removed shall be returned to COUNTY.

K. ITEM NO. 649-3A-BCC / STEEL MAST ARM ASSEMBLY / EACH (EA)

A = Operation

1 (Furnish & Install)

3 (Install) BCC=000

4 (Relocate) BCC=000

6 (Remove) see remove options below, effective January 2015

8 (Repair) BCC=000

B = Wind Speed

2 (130 with signal back plates, COUNTY)

B = Remove Options

1 (Pole Only, entire foundation remains) CC=00

3 (Shallow, Bolt on attachment) CC=00

5 (Deep, Bolt on attachment) CC=00

CC = Arm Length(s)

For Single Arms

01 (36)

02 (46)

03 (60)

04 (70.5)

05 (78)

06 (36 w/ Luminaire)

07 (46 w/ Luminaire)

08 (60 w/ Luminaire)

09 (70.5 w/ Luminaire)

For Double Arm w/o Luminaire

10 (36-36)

11 (36-46)

12 (36-60)

13 (36-70.5)

14 (46-46)

15 (46-60)

16 (46-70.5)

17 (60-60)

18 (60-70.5)

19 (70.5-70.5)

Custom/Non-Standard Arm Combinations

99= (Custom) B=9, see details below

1. This pay item is for traffic signals and traffic control devices only.
2. Supports emergency removal of damaged mast arm assemblies and result of vehicle accidents for force majeure.
3. Refer to the FDOT PPM (Plans Preparation Manual) for current FDOT Policy on the use of Mast Arms.
4. Pole description, including the type, height, and other details shall be included in the signal plans. Payment includes foundation, as well as all incidentals, per specifications.
5. When "w/ Luminaire" is used, COUNTY will provide detail luminaire requirements in the plans.
6. Double Arm with luminaire requires special design (CC=99); not covered by design standard index. Complete calculations are required.
7. BCC=999 (Custom) to be used only when wind loads, specifications and/or standards do not apply, due to significant design changes. Complete design calculations, including wind loads, are required in the plans.

8. When street name signs are to be located on a signals mast arm, COUNTY will provide the detailed information to include sign (size, shape, letters, etc.) in the SIGNING plans.
9. REMOVE: Includes the removal of the foundation, as well as any attachments (vehicular/pedestrian signals, pedestrian detector, lighting, etc.).

L. ITEM NO. 650-1-AB / VEHICULAR TRAFFIC SIGNAL / ASSEMBLY (AS)

A = Operation

- 1 (Furnish & Install- Aluminum)*
 - 2 (Furnish & Install- Polycarbonate with Aluminum Top Section)*
 - 3 (Furnish & Install- Polycarbonate)*
 - 4 (Furnish & Install- Programmable)*
 - 5 (Install) B=0 Signal furnished by COUNTY
 - 6 (Remove- Poles to Remain) B=0
 - 7 (Relocate) B=0. DO NOT USE for MOT activities
- *NOT to be used for adding a section to an existing assembly; see pay item 650-2 for adding sections.

B = Sections, Ways

- 1 (1 Section, 1 way)
- 2 (1 Section, 2-4 ways)
- 3 (2 Section, 1-2 ways)
- 4 (3 Section, 1 way)
- 5 (3 Section 2-4 ways)
- 6 (4 Section, 1 way)
- 7 (4 Section, 2-4 ways)
- 8 (5 Section- straight, 1 way)
- 9 (5 Section-cluster, 1 way)

1. Pay item includes standard traffic signal with LED indications, back plates, visors, and all other materials necessary for a complete installation.
2. INSTALL only: material to be furnished by COUNTY.
3. REMOVE: No separate payment for signal head removal when the poles are to be removed.
4. RELOCATE: Includes the removal of the signal head and re installation as instructed in the work request. Payment includes signal cable and all other materials necessary for a complete and acceptable relocation.
5. NOTE: USE POLYCARBONATE SIGNAL HOUSING FOR ALL MAST ARM INSTALLATIONS AND ALUMINUM TOP SECTION W/ POLYCARBONATE BOTTOM SECTION SIGNAL HOUSING FOR SPAN WIRE INSTALLATIONS.

M. ITEM NO. 650-2-ABB / VEHICULAR SIGNAL AUXILIARIES / EACH (EA)

A = Operation

1 (Repair/Replace/Retrofit- Furnish & Install)

3 (Repair/Replace/Retrofit- Install) Item furnished by local agency

BB = Item

01 (Backplate – Black) NOT USED

02 (Backplate – Black with Retroreflective Border)

05 (Tunnel Visor)

06 (12" LED Module – Standard)

07 (8" LED Module – Emergency Signal)

08 (Add section/s to existing signal assembly)

1. This item is NOT TO BE USED FOR NEW SIGNAL ASSEMBLIES.

2. This item is intended for repair/replacement/retrofit of existing signal assemblies. Tabulate items by location in the work request.

N. ITEM NO. 653-1-AB / PEDESTRIAN SIGNAL / ASSEMBLY (AS)

A = Operation

1 (Furnish & Install LED Countdown)

3 (Install) B=0

4 (Relocate) B=0

6 (Remove Pedestrian Signal; pole/pedestal to remain) B=0

B = Ways

1 (1 way)

2 (2 ways)

1. This pay item is for traffic control devices. LED Countdown is the current standard.

2. REMOVE: No separate payment for removal of the Pedestrian Signal, when the pole/mast arm is being removed. See the pole/pedestal pay items.

O. ITEM NO. 654-2-AB / RECTANGULAR RAPID FLASHING BEACON ASSEMBLY (RRFB) / MIXED

A = Operation

1 (Furnish & Install- AC Powered) B=1 or 2

2 (Furnish & Install- Solar Powered) B=1 or 2

3 (Install) B=0 NOT USED

4 (Relocate) B=0 NOT USED

5 (Adjust/Modify) B=0 NOT USED

6 (Remove) B=0 NOT USED

7 (Replace) B=0 for Maintenance use

B = Component

1 (Complete Assembly- Single Direction) AS

2 (Complete Assembly- Back-to-Back) AS

3 (Cabinet) EA NOT USED

4 (Signs and RRFB unit) EA NOT USED

1. Refer to the FDOT Traffic Engineering Manual for additional information.
2. COMPLETE ASSEMBLY: "includes a rectangular beacon and signs for each approach, sign support structure, cabinet, electronics, wiring, and pedestrian detector. Solar panels are included in the cost of the assembly, when shown in the plans." NOTE: a minimum of 2 assemblies are normally needed per mid-block crossing- one for each approach.
3. SINGLE DIRECTION: Includes beacons and signs for one direction, with "everything on the post" included.
4. BACK-TO-BACK: Includes beacons and signs for both directions, with "everything on the post" included.
5. CABINET: Used for Maintenance activities only. For new installations, this item is included in the complete system.
6. SIGNS AND RRFB UNIT: Includes the beacons, signs, AND attachment hardware for a single direction unit, for non-standard installations. The signs with beacon pair are one unit, per each.
7. REPLACE: Maintenance use; Includes replacement of batteries, detectors, signal indications.

P. ITEM NO. 659-1-ABB / MAST ARM, SPAN WIRE, AND POLE MOUNTING ASSEMBLIES / EACH (EA)

A = Operation

1 (Repair/Replace/Retrofit- Furnish & Install) NOT for use with new signal assemblies

3 (Repair/Replace/Retrofit- Install) Item furnished by local agency

BB = Component

1 (Mast Arm Mounting Assembly) "Hanger"

2 (Span Wire Mounting Assembly) "Hanger" Other components, as requested

1. Pay item includes replacement of damaged traffic signal and sign mounting hardware and adjustable hanger assemblies.
2. NO SEPARATE PAYMENT will be made for hangers on new signal installations. This item is valid for repair /replacement /retrofit applications only.

3. All materials used shall be listed on the FDOT Qualified Products List (QPL).

Q. ITEM NO. 660-2-ABB / LOOP ASSEMBLY / ASSEMBLY (AS)

A = Operation

1 (Furnish & Install)

BB = Type

01 (Type A)

02 (Type B)

03 (Type C)

04 (Type D)

05 (Type E)

06 (Type F)

07 (Type G)

08 (Type H)

1. This pay item is for traffic signals and traffic control devices only.
2. Refer to FDOT Minimum Specifications for Traffic Control Signal Devices, as applicable. Includes cost of loop material, labor, equipment, etc. according to specifications. Price includes installation, splicing, 50ft or less of Belden 50-2 home run cable.

R. ITEM NO. 660-3-AB / VEHICLE DETECTION SYSTEM-MICROWAVE / EACH (EA)

A = Operation

1 (Furnish & Install) B=1 or 2

3 (Install) Department furnished equipment NOT USED

4 (Relocate) NOT USED

5 (Adjust/Modify) NOT USED

6 (Remove) B=0 NOT USED

8 (Preventative Maintenance) B=0 NOT USED

9 (Diagnosis and Misc. Repair) B=0 NOT USED

B = Component

0 (Complete System)

1 (Cabinet Equipment) NOT USED

2 (Above ground Equipment) Note: Mounting hardware and cabling is considered incidental to sensor.

1. This item is intended for Vehicle Detection Systems, excluding Loop Systems. Details such as location of detectors, detection zones, and roadside components provided by COUNTY.

S. ITEM NO. 660-4-AB[c] / VEHICLE DETECTION SYSTEM-VIDEO / EACH (EA)

A = Operation

- 1 (Furnish & Install)
- 3 (Install) COUNTY furnished equipment
- 4 (Relocate)
- 5 (Adjust/Modify)
- 6 (Remove) B=0
- 8 (Preventative Maintenance) B=0
- 9 (Diagnosis and Misc. Repair) B=0

B = Component

- 0 (Complete System)
- 1 (Cabinet Equipment)
- 2 (Above ground Equipment) Note: COUNTY will indicate quantity and location of camera(s). Mounting hardware and cabling is considered incidental to camera(s).

[c] = [a] 4 Directions, w/ 4 cameras

[b] 3 Directions, w/ 3 cameras

[c] 2 Directions, w/ 2 cameras

[d] 1 Direction, w/ 1 camera

1. This item is intended for Video Vehicle Detection Systems. Details such as location of detectors, detection zones, and roadside components will be provided by COUNTY. All materials used shall be on the FDOT APL and shall be fully compatible with COUNTY'S video detection systems.

T. ITEM NO. 660-5-AB / VEHICLE DETECTION SYSTEM-WIRELESS / EACH (EA)

A = Operation

- 1 (Furnish & Install)
- 3 (Install) Department furnished equipment
- 4 (Relocate)
- 5 (Adjust/Modify)
- 6 (Remove) B=0
- 8 (Preventative Maintenance) B=0
- 9 (Diagnosis and Misc. Repair) B=0

B = Component

- 0 (Complete System) only for A=6, 8, or 9

1 (Cabinet Equipment) Note: Pay item callout shall be used in plans to indicate QTY and location of shelf mount or detector-card style cabinet interface hardware required. Cabling, and other system components are considered incidental to interface card(s).

2 (Above ground Equipment) Note: Pay item callout shall be used in plans to indicate QTY and location of access point(s) or repeater(s) required. Mounting hardware and cabling is considered incidental to access point(s) and repeater(s).

3 (In-Road Electronics) Note: Pay item callout shall be used in plans to indicate QTY and location of wireless magnetometer sensors embedded in roadway

1. This item is intended for Wireless Vehicle Detection Systems.
2. Coordinate with COUNTY regarding equipment specifications, location of detectors, detection zones, and roadside components.

U. ITEM NO. 665-1-AB / PEDESTRIAN DETECTOR / EACH (EA)

A = Operation

1 (Furnish & Install)

3 (Install) Dept. Furnished Equipment; B=0

4 (Relocate) B=0

5 (Adjust/Modify) B=0

6 (Remove- Pole/Pedestal to Remain) B=0

8 (Preventative Maintenance) B=0

9 (Diagnosis and Misc. Repair) B=0

B = Type

1 (Standard)

2 (Accessible)

1. Pedestrian detectors may be mounted on poles, posts, or pedestals, in accordance with the FDOT Design Standards. Payment includes pedestrian information signs/sticker, as shown on FDOT Index 17784. Additional design guidance is available in MUTCD Section 4E.
2. Note: Poles, posts, and pedestals are paid separately under PAY ITEMS 641-, 646-, or 649.
3. INSTALL: Detector and Sign to be furnished by COUNTY. Incidental parts to complete the installation to be furnished by CONTRACTOR.
4. RELOCATE: COUNTY will provide relocation details in the work request.
5. REMOVE- POLE/PEDESTAL TO REMAIN: All removed equipment shall be returned to COUNTY. Note- No separate payment for removal of pedestrian detector when pole/pedestal is removed (included with pole removal).

V. ITEM NO. 670-5-ABC / TRAFFIC CONTROLLER ASSEMBLY / ASSEMBLY (AS)

A = Operation

1 (Furnish & Install)

3 (Install) BC=00; COUNTY furnished

4 (Modify) BC=00; DO NOT USE with a new controller

5 (Relocate Controller and Cabinet) BC=00

6 (Remove Controller and Cabinet) BC=00 effective 1-1-15

B = Cabinet with Controller Type
1 (NEMA)
5 (ATC)

C = Special Features
0 (None)
1 (One Preemption Plan)
2 (Two Preemption Plans)

1. This pay item is for traffic signals and traffic control devices only.
2. Note that the controller assembly includes both the controller electronics and the cabinet. Cabinet and all internal electronic components shall be listed on FDOT's QPL and strictly adhere to COUNTY specifications and standards.
3. FURNISH & INSTALL: includes all work and materials to set-up controller in the cabinet. COUNTY will provide all timing plan and program set up data.
4. MODIFY: Tech specs required to detail work to be completed. DO NOT USE this pay item for set- up of new controllers.
5. For Special Type, detail all components.
6. REMOVE: Includes the removal of the cabinet, all electronics, and base/foundation.
7. The description, materials, construction/installation requirements and method of measurement will be provided in the work request to clearly define the work to be completed for payment under this item.

W. ITEM NO. 676-2-ABB / ITS CABINET / EACH (EA)

A = Operation
1 (Furnish & Install)
3 (Install) BB=00
4 (Relocate) BB=00
5 (Adjust /Modify) BB=00
6 (Remove) BB=00

BB = Description- Function, Type and Size
1 (ITS Cabinet, pole mount)
2 (ITS Cabinet, pole mount w/sunshields)
3 (ITS Cabinet, base mount)
4 (ITS Cabinet, base mount w/sunshields) For unwired cabinet, use 676-1.

BB = Description-Type and Size
1 (336, 24" W x 36" H x 20" D)

- 2 (336S, 24" W x 46" H x 22" D)
- 3 (334, 24" W x 66" H x 30" D)

1. This cabinet is used to house traffic control devices and other electronics associated with Intelligent Transportation Systems.
2. The cabinet assembly includes both the ITS electronics and the cabinet. Cabinet and all internal electronic components shall be listed on FDOT's QPL and strictly adhere to COUNTY specifications and standards.

X. ITEM NO. 680-1-ABC / SYSTEM CONTROL EQUIPMENT / EACH (EA)

A = Operation

- 1 (Furnish & Install) C=2 or 3
- 3 (Install) BC=00
- 4 (Relocate) BC=00
- 5 (Adjust/Modify) BC=00
- 6 (Remove) BC=00
- 9 (Diagnostic and Misc. Repair) BC=00

B = System Type

- 1 (Adaptive Signal Control System - NEMA)
- 2 (Adaptive Signal Control System - 170)

C = Component

- 0 (Complete System) detail n plans all work/components involved
- 2 (Cabinet Equipment)
- 3 (Above Ground Equipment)

1. Specification currently only includes Adaptive Signal Control System.
2. Furnish & Install: Use BOTH 687-1-ABC pay items for cabinet equipment (1 each per cabinet) and above ground equipment (1 each per sensor).
3. INSTALL: Use BC=00. Detail components to be installed in the plans, including location of sensor(s). Components to be furnished by FDOT or local agency; include contact information in the plans.
4. ADJUST/MODIFY: Detail work to be completed in the plans or specifications.
5. REMOVE: Use BC=00. Detail work to be completed in the plans or specifications, including the quantity and location of the item(s) to be removed. Use a quantity of 1 each per complete system.

Y. ITEM NO. 682-1-AB / CCTV CAMERA / EACH (EA)

A = Operation

- 1 (Furnish & Install)
- 3 (Install)
- 4 (Relocate) B=0
- 5 (Adjust /Modify) B=0
- 6 (Remove & Dispose) B=0
- 7 (Remove & Stockpile) B=0
- 8 (Maintenance, clean lenses, pressurize dome)
- 9 (Misc. diagnostic and repair)

B = Type

- 1 (Dome enclosure, pressurized)
- 2 (External positioner, pressurized)
- 3 (Dome enclosure, non-pressurized)
- 4 (External positioner, non-pressurized)

1. For installations along the roadway or intersections, to provide video of traffic movements. Includes mounting hardware, cabling, and power supply.
2. CCTV components shall be listed on FDOT's QPL and strictly adhere to COUNTY specifications and standards.
3. PREVENTIVE MAINTENANCE: To include cleaning lenses, pressurizing domes.
4. DIAGNOSTIC AND MISC. REPAIR: For repair of CCTV unit to identify and correct power, communication, PTZ, dome pressure alarms and other miscellaneous repair items.

Z. ITEM NO. 633-1-ABC / FIBER OPTIC CABLE / LINEAR FEET (FT)

A = Operation

- 1 (Furnish & Install)
- 3 (Install) Furnished by COUNTY; C=0
- 4 (Relocate) C=0
- 6 (Remove) C=0

B = Location

- 1 (Bridge Mount)
- 2 (Underground)

C = Number of Fibers in Cable

- 1 (2 to 12)
- 2 (13 to 48)
- 3 (49 to 96)
- 4 (97 to 144)

1. For use in fiber optic networks that support ITS devices and their connection to communication hubs, transportation management centers, and related facilities.
Use "overhead" for installations involving bridges and other aboveground structures. Use "underground" for cable placed in buried conduit along the roadside.

AA. ITEM NO. 633-2-AB / FIBER OPTIC CONNECTION / EACH (EA)

A = Operation
3 (Install)

B = Type
1 (Splice)
2 (Termination)

1. For use in fiber optic networks where segments of fiber optic cable shall be spliced together, or when cables shall be terminated at the end of a segment. Note that each connection involves the fusing of individual optical fibers in a cable.

Payment "each" is for each FIBER to be connected, i.e. 30 fibers in one cable= 30 connections

BB. ITEM NO. 633-3-AB / FIBER OPTIC CONNECTION HARDWARE / EACH (EA)

A = Operation
1 (Furnish & Install)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

B = Component
1 (Splice Enclosure)
2 (Splice Tray)
3 (Pre-terminated Connector Assembly)
4 (Buffer Tube Fan Out Kit)
5 (Patch Panel, Pre-terminated)
6 (Patch Panel, Field Terminated)
7 (Connector Panel)

1. For use in fiber optic networks, where segments of cable shall be spliced together.
2. Hardware items include incidental hardware and cables for a complete installation.
3. Hardware items furnished with additional cable, such as pre-terminated patch panels, include the installation of the cable. DO NOT provide additional payment for cable installation under cable or conduit items.

CC. ITEM NO. 685-1-ABC / UNINTERRUPTABLE POWER SUPPLY / ASSEMBLY (AS)

A = Operation

1 (Furnish & Install)

2 (Install)

6 (Remove, pole/cabinet remains)

7 Relocate (B=0)

B = Type

1 (Line Interactive) installed within controller cabinet

2 (Online/Double Conversion) installed within controller cabinet

3 (Line Interactive, with Cabinet) includes separate cabinet for UPS only

4 (Online/Double Conversion, with Cabinet) includes separate cabinet for UPS only

C = Component

1 (Battery)

1. From Section 685 of the Specifications:

- a. UPS assemblies shall be designed for installation in a roadside NEMA 3R enclosure to provide battery backup functionality for traffic control systems, including traffic signal and intelligent transportation system (ITS) devices. UPS assemblies shall include batteries provided by the UPS manufacturer or in accordance with manufacturer's requirements.
- b. When UPS is installed or mounted OUTSIDE (attached to or piggy back) to a new or existing controller cabinet, payment for the UPS cabinet is included under 685.
- c. When UPS is installed SEPARATELY (base mounted), payment for the UPS cabinet will be included under 685. Detail UPS cabinet and base in the plans.
- d. Pay item includes installation of an uninterruptable power supply for traffic signal applications only. Complete installation includes cabinet, internal electronic and electrical components and batteries.
- e. UPS shall be listed on the FDOT APL and shall adhere to the COUNTY'S specifications and be compatible with existing systems.

DD. ITEM NO. 700-1-AB / SINGLE POST SIGN / ASSY (AS)

A = Operation

1 (Furnish & Install Ground Mount) max wind load 30 ft²

2 (Furnish & Install Barrier Mount, Index 11871) max wind load area 20 ft²*

3 (Furnish & Install Bridge Mount, Index 11870) max wind load area per index

4 (Install) B=0; furnished by FDOT or local agency

5 (Relocate) B=0; relocated within project

6 (Remove) B=0

7 (Furnish & Install, Custom with Wind load area >30 ft²) Index 11861, B=4

8 (Repair) for Maintenance use only; B=0

B = Combined sheeting area of all panels on post

1 (Up to 12 ft²) "less than 12"

2 (12-20 ft²)

3 (21-30 ft²)

4 (31+ ft²)

5 (21-24 ft² back-to-back) *valid for A=2 only, pending for updated index 11871

8 (In-Street Flexible Post) A=1

1. GROUND MOUNT: Includes the signs, hardware, post, and foundation, per index 11860 and 11861.
2. MEDIAN BARRIER MOUNT: Includes the signs, hardware, post, and materials necessary to complete the mount, per index 11871. Maximum wind load of 20 SF, per the index. See the Plans Preparation Manual (PPM), Volume 1, Sections 4.5 and 7.2.5.
3. BRIDGE MOUNT: Includes the signs, hardware, post, and materials necessary to complete the mount, per index 11870.
4. CUSTOM Wind Load: See Index 11861 IDS. Includes the signs, hardware, post and materials necessary to complete the mount. This item should ONLY be used when standard single or multi-post assemblies are not possible and is only intended for use on curb & gutter facilities where the distance between the curb and the sidewalk restricts the use of Index 11200.
5. RELOCATE/REMOVE: Includes panels, posts, foundation, and any other items attached to the assembly (beacon, solar panel, etc.), as noted in the plans. Removed items become the property of CONTRACTOR, unless otherwise noted in the plans/specs.

EE. ITEM NO. 700-5-AB / INTERNALLY ILLUMINATED SIGN / EACH (EA)

A = Operation

1 (Furnish & Install, Ground Mount) includes single post

2 (Furnish & Install, Overhead Mount) includes span wire or mast arm installation

4 (Install) B=0; furnished by COUNTY

5 (Relocate) B=0

6 (Remove) B=0

B = Size, square feet

1 (Up to 12 ft²)

2 (12-18 ft²) max 18 ft² for internal illumination, per specification

1. Internally Illuminated signs include street name signs. All mounting hardware is included in the sign pay item. The support structure (poles, span wire, and/or mast arm) is paid separately.

2. Signs shall be internally illuminated using LED. Sign designs shall adhere to FDOT and COUNTY Standards.
3. NOTE: Special 'M' series pay items reference specific COUNTY maintenance tasks not defined under FDOT BOE pay items. Refer to bid form for specific requirements for each 'M' series pay item. CONTRACTOR to provide materials for all 'M' series pay items.

FF. ITEM NO. 700-12-AB / SIGN BEACON / ASSEMBLY (AS)

A = Operation

- 1 (Furnish & Install, Ground Mount- AC Powered)
- 2 (Furnish & Install, Ground Mount- Solar Powered)
- 3 (Furnish & Install, Overhead Mount) span wire, mast arm, or other
- 4 (Install) furnished by FDOT or local agency
- 5 (Relocate Beacon; sign to remain) B=0
- 6 (Remove Beacon; sign to remain) B=0

B = Number of beacon(s) per sign

- 1 (One Beacon)
- 2 (Two Beacons)

1. Includes ONLY THE BEACON(S), cabinet, controller, and solar panel, when noted. DOES NOT INCLUDE THE SIGN or support structure.
2. Use this pay item along with single post, multi post, or other signs.
3. RELOCATE/REMOVE: These items are to be used ONLY when relocating or removing the beacons, WITH NO CHANGE to the sign assembly. If you are relocating or removing the entire assembly, the beacon(s) are included with the assembly; use the sign assembly.

GG. ITEM NO. M-1-A / HEAVY EQUIPMENT SERVICES / HOUR (HR)

A = Operation

- 01 (Furnish) Lift Truck / 30' Foot reach, w/ Operator
- 02 (Furnish) Lift Truck/ 50' Foot reach, w/ Operator
- 03 (Furnish) 16" – 42" diameter auger, w/ Operator
- 04 (Furnish) 4" Wide trencher, w/ Operator
- 05 (Furnish) Tractor w/ backhoe and bucket, w/ Operator
- 06 (Furnish) Pressure digger/drill rig, w/ Operator
- 07 (Furnish) Mobile crane, min. 60 Ton Cap., w/ Operator
- 08 (Furnish) Mobile crane, min. 65 Ton Cap., w/ Operator
- 09 (Furnish) Mobile crane, min. 85 Ton Cap., w/ Operator

1. These pay items support the hourly payment for use of heavy equipment with operators. Includes work performed outside of the scope of standard pay items listed above.
2. This pay item will not be used in conjunction with any of the above listed pay items.
3. Minimum rate charge is 4 hours.

HH. ITEM NO. M-2-A / PROFESSIONAL AND TECHNICAL SERVICES / MIXED (MX)

A = Operation

01 (Furnish) Geotechnical testing for foundations

02 (Furnish) Vacuum excavation/ soft dig (per structure or location)

03 (Furnish) Pick up and transport mast arms, strain poles (compound to job site)

04 (Furnish) Traffic Control Officer (during MOT)

05 (Furnish) Utility Locate Services

1. These pay items support the payment for provision of professional and technical services. Includes work performed outside of the scope of standard pay items listed above.
2. This pay item will not be used in conjunction with any of the above listed pay items.
3. Geotechnical testing for foundations: performed upon request, includes certified, licensed professional inspection and testing. COUNTY shall receive full test results in a timely manner.
4. Vacuum excavation/ soft dig: Performed upon request, per structure or location. Includes the use of a vacuum excavator to perform non-destructive excavation as needed to identify buried utilities or infrastructure.
5. Pick up and transport mast arms, strain poles: Performed upon request. Per transport. Includes the pick and transport of mast arms or strain poles site to site. All transportation done locally (Public Works compound to job site). Costs for crane services billed under the M-1-A pay item.
6. Traffic Control Officer: Performed as needed, per hour. Includes hiring off duty law enforcement to assist with maintenance of traffic. Utility Locate Services: Performed upon request, per hour for locating services for underground transportation infrastructure to include traffic signal, lighting, ITS. Services include electronic locating, marking with flags and paint, hand digging to uncover and visually verify conduit.

EXHIBIT B, FEE RATE SCHEDULE

EXHIBIT B, FEE RATE SCHEDULE
IFB NO. 21-R076431BB
TRAFFIC SIGNAL AND INTELLIGENT TRANSPORTATION SYSTEMS MAINTENANCE
B & E SIGNAL AND LIGHTING, INC.

LINE ITEM NO.	ACTIVITY F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING	DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	
CONDUIT										
1	F/I	FURNISH/INSTALL	CONDUIT BY TRENCHING	630-2-11	17721	2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT.	LF	\$4.00	500	\$2,000.00
2	F/I	FURNISH/INSTALL	CONDUIT BY TRENCHING	630-2-11		2" CONDUIT - 2-3 RUNS SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT - MEASUREMENT BASED ON LENGTH OF TRENCH.	LF	\$5.00	500	\$2,500.00
3	F/I	FURNISH/INSTALL	CONDUIT BY HAND DIGGING	630-2-11		2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT.	LF	\$5.00	500	\$2,500.00
4	F/I	FURNISH/INSTALL	CONDUIT BY HAND DIGGING	630-2-11		2" CONDUIT - 2-3 RUNS SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT - MEASUREMENT BASED ON LENGTH OF TRENCH.	LF	\$8.00	500	\$4,000.00
5	F/I	FURNISH/INSTALL	CONDUIT BY DIRECTIONAL BORING - FOR FIBER OPTIC CABLE	630-2-12	18202 AND 18204	1 1/4" HDPE CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT.	LF	\$12.00	1,000	\$12,000.00
6	F/I	FURNISH/INSTALL	CONDUIT BY DIRECTIONAL BORING	630-2-12	17721	2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT.	LF	\$13.00	1,000	\$13,000.00
7	F/I	FURNISH/INSTALL	CONDUIT BY DIRECTIONAL BORING	630-2-12		2" CONDUIT - 2-3 RUNS SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT - MEASUREMENT BASED ON LENGTH OF BORE.	LF	\$17.00	1,000	\$17,000.00
8	F/I	FURNISH/INSTALL	CONDUIT - JACK AND BORE	630-2-13		2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT.	LF	\$8.00	100	\$800.00
9	F/I	FURNISH/INSTALL	CONDUIT - ABOVEGROUND OR STRUCTURE MOUNTED	630-2-14		2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT - REMOVAL OF EXISTING CONDUIT AND CABLE CONSIDERED INCIDENTAL.	LF	\$5.00	100	\$500.00
10	F/I	FURNISH/INSTALL	CONDUIT - ABOVEGROUND	630-2-14		1-2" RIGID CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT- REMOVAL OF EXISTING CONDUIT AND CABLE CONSIDERED INCIDENTAL.	LF	\$8.00	100	\$800.00
11	F/I	FURNISH/INSTALL	CONDUIT - BRIDGE MOUNT	630-2-15		2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT - REMOVAL OF EXISTING CONDUIT AND CABLE CONSIDERED INCIDENTAL.	LF	\$9.00	100	\$900.00
SIGNAL CABLE										
12	F/I	FURNISH/INSTALL	SIGNAL CABLE - INSTALL NEW OR REPLACE EXISTING	632-7-1	NEC & NESC MANATEE COUNTY DESIGN GUIDE	FURNISH AND INSTALL TRAFFIC SIGNAL CABLING FROM CONTROLLER CABINET TO ALL TRAFFIC SIGNAL INDICATIONS, ILLUMINATED SIGNS, AND BLANK OUT SIGNS. SEPARATE PAY ITEMS SHALL APPLY TO DETECTION HOME RUNS. REMOVAL OF EXISTING CABLE SHALL BE CONSIDERED INCIDENTAL. ANY CABLE REMOVED SHALL BE RETURNED TO MANATEE COUNTY TRAFFIC OPERATIONS.	PI	\$10,275.00	3	\$30,825.00
13	F/I	FURNISH/INSTALL	SIGNAL CABLE -REPAIR, REPLACE, OTHER	632-7-2		REPAIR OR REPLACE TRAFFIC SIGNAL CABLING. INCLUDES 'BELDEN' 50-2 TYPE INDUCTIVE LOOP ASSEMBLY LEAD IN CABLE. REMOVAL OF EXISTING CABLE SHALL BE CONSIDERED INCIDENTAL. ANY CABLE REMOVED SHALL BE RETURNED TO MANATEE COUNTY TRAFFIC OPERATIONS.	LF	\$3.75	300	\$1,125.00
SPAN WIRE ASSEMBLIES										
14	F/I	FURNISH/INSTALL	SPAN WIRE ASSEMBLY - PERPENDICULAR	634-4-151	17727	PERPENDICULAR - 2 POINT ATTACHMENT SECTION 634 OF FDOT STANDARD SPECIFICATIONS & MSTCSD SECTION A634.	PI	\$2,750.00	1	\$2,750.00
15	F/I	FURNISH/INSTALL	SPAN WIRE ASSEMBLY - DIAGONAL	634-4-152		DIAGONAL - 2 POINT ATTACHMENT SECTION 634 OF FDOT STANDARD SPECIFICATIONS & MSTCSD SECTION A634.	PI	\$1,750.00	1	\$1,750.00
16	F/I	FURNISH/INSTALL	SPAN WIRE ASSEMBLY - BOX	634-4-153		BOX SPAN - 2 POINT ATTACHMENT SECTION 634 OF FDOT STANDARD SPECIFICATIONS & MSTCSD SECTION A634.	PI	\$3,275.00	1	\$3,275.00
17	M/E	REMOVE	SPAN WIRE ASSEMBLY - REMOVE	634-4-600		SECTION 634 OF FDOT STANDARD SPECIFICATIONS & MSTCSD SECTION A635. INCLUDES ADJUSTMENT AND/OR REPLACEMENT OF HARDWARE AS NEEDED. ADJUSTING AND RE-SECURING SIGNAL CABLE END TO END.	PI	\$1,500.00	1	\$1,500.00
18	M/E	REPAIR	SPAN WIRE - RE-TENTION	634-4-700		SECTION 634 OF FDOT STANDARD SPECIFICATIONS & MSTCSD SECTION A635. INCLUDES ADJUSTMENT AND/OR REPLACEMENT OF HARDWARE AS NEEDED. ADJUSTING AND RE-SECURING SIGNAL CABLE END TO END.	EA	\$1,275.00	3	\$3,825.00
PULL AND SPLICE BOX										
19	F/I	FURNISH/INSTALL	PULL BOX AND LID - QUAZITE - 17" X 30" (LARGE SIZE)	635-2-12	17721	REMOVAL OF EXISTING CONCRETE SIDEWALK OR LANDING PAD AND BOX SHALL BE CONSIDERED INCIDENTAL. CONTRACTOR TO DISPOSE OF ANY DAMAGED BOXES PROPERLY. ANY DISTURBED DIRT SHALL BE RETURNED TO THE PRE-WORK GRADE CONSTRUCTION CONDITION AND BE COMPATIBLE WITH SURROUNDING GROUND AREAS.	EA	\$525.00	5	\$2,625.00
20	F/I	FURNISH/INSTALL	PULL BOX AND LID - QUAZITE - 30" X 60"	635-2-13		REMOVAL OF EXISTING CONCRETE SIDEWALK OR LANDING PAD AND BOX SHALL BE CONSIDERED INCIDENTAL. CONTRACTOR TO DISPOSE OF ANY DAMAGED BOXES PROPERLY. ANY DISTURBED DIRT SHALL BE RETURNED TO THE PRE-WORK GRADE CONSTRUCTION CONDITION AND BE COMPATIBLE WITH SURROUNDING GROUND AREAS.	EA	\$1,875.00	2	\$3,750.00
21	I/O	INSTALL	PULL BOX AND LID - QUAZITE - 17" X 30"	635-2-30		REMOVAL OF EXISTING CONCRETE SIDEWALK OR LANDING PAD AND BOX SHALL BE CONSIDERED INCIDENTAL. CONTRACTOR TO DISPOSE OF ANY DAMAGED BOXES PROPERLY. ANY DISTURBED DIRT SHALL BE RETURNED TO THE PRE-WORK GRADE CONSTRUCTION CONDITION AND BE COMPATIBLE WITH SURROUNDING GROUND AREAS. COUNTY PROVIDED MATERIALS.	EA	\$375.00	5	\$1,875.00
22	M/E	REMOVE/INSTALL	PULL BOX AND LID - RELOCATE	635-2-40		ADJUST OR RELOCATE. REMOVAL OF EXISTING CONCRETE SIDEWALK OR LANDING PAD AND BOX SHALL BE CONSIDERED INCIDENTAL. ANY DISTURBED CONCRETE OR DIRT SHALL BE RETURNED TO THE PRE-WORK GRADE CONSTRUCTION CONDITION AND BE COMPATIBLE WITH THE SURROUNDING AREAS.	EA	\$575.00	5	\$2,875.00
POWER SERVICE										

LINE ITEM NO.	ACTIVITY F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING		DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE
23	F/I	FURNISH/INSTALL	ELECTRIC POWER SERVICE ASSEMBLY - OVERHEAD	639-1-112	17736 & FDOT BOE SECTION 620	FOR INSTALLATION OF A COMPLETE POWER SERVICE ASSEMBLY TO INCLUDE POLE, METER CAN HOUSING, DISCONNECT, CONDUIT, WIRING AND ALL HARDWARE. POWER SERVICE SHALL BE INSTALLED PER FDOT AND MANATEE COUNTY DESIGN STANDARDS. POWER SERVICE SHALL INCLUDE VERTICAL CONDUIT AND WIRE ANY HORIZONTAL CONDUIT AND WIRE SHALL BE UNDER A SEPARATE LINE ITEM. ADDITIONAL INFO SECTION A639 MSTCSD.	EA	\$2,550.00	2	\$5,100.00
24	F/I	FURNISH/INSTALL	ELECTRIC POWER SERVICE ASSEMBLY - UNDERGROUND	639-1-122		FOR INSTALLATION OF A COMPLETE POWER SERVICE ASSEMBLY TO INCLUDE POLE, METER CAN HOUSING, DISCONNECT, CONDUIT, WIRING AND ALL HARDWARE. POWER SERVICE SHALL BE INSTALLED PER FDOT AND MANATEE COUNTY DESIGN STANDARDS. HORIZONTAL CONDUIT AND WIRE SHALL BE UNDER A SEPARATE LINE ITEM. ADDITIONAL INFO SECTION A639 MSTCSD.	EA	\$1,275.00	2	\$2,550.00
25	M/E	REMOVE	ELECTRIC POWER SERVICE ASSEMBLY - REMOVE	639-1-600		FOR REMOVAL OF POWER SERVICE ASSEMBLY TO INCLUDE POLE, METER CAN HOUSING, DISCONNECT, CONDUIT, WIRING AND ALL HARDWARE. ADDITIONAL INFO SECTION A639 MSTCSD - FOR EMERGENCY REPAIR OR SPECIAL PROJECT REBUILDS. MAY BE USED FOR EMERGENCY REPAIRS OF DAMAGED SERVICE ASSEMBLIES.	EA	\$750.00	2	\$1,500.00
26	M/E	REMOVE/INSTALL	ELECTRICAL POWER SERVICE - UTILITY SERVICE RISER - RELOCATE	639-1-410	17504	FOR RELOCATION OF EXISTING ELECTRICAL POWER SERVICE CONDUIT RISER AND SERVICE CONDUCTORS. DISCONNECT AND REMOVE EXISTING SERVICE RISER ASSEMBLY FROM OLD UTILITY COMPANY POWER POLE AND REINSTALL ON NEW UTILITY COMPANY INSTALLED POLE. INCLUDES UNDERGROUND OR OVERHEAD CONDUIT AND CABLE ADJUSTMENT. MINOR HARDWARE - NUTS BOLTS BRACKETS TO BE SUPPLIED BY CONTRACTOR.	EA	\$690.00	5	\$3,450.00
27	F/I	FURNISH/INSTALL	ELECTRICAL POWER SERVICE - UTILITY SERVICE RISER - RELOCATE	639-1-420		FOR RELOCATION OF EXISTING ELECTRICAL POWER SERVICE CONDUIT RISER AND SERVICE CONDUCTORS. DISCONNECT AND REMOVE EXISTING SERVICE RISER ASSEMBLY FROM OLD UTILITY COMPANY POWER POLE AND REINSTALL ON NEW UTILITY COMPANY INSTALLED POLE. INCLUDES UNDERGROUND OR OVERHEAD CONDUIT AND CABLE ADJUSTMENT. MINOR HARDWARE - NUTS BOLTS BRACKETS TO BE SUPPLIED BY CONTRACTOR.	EA	\$895.00	5	\$4,475.00
28	M/E	MODIFY EXISTING	ELECTRICAL SERVICE WIRE - RELOCATE	639-2-4	NEC & NESC	RELOCATE EXISTING ELECTRICAL SERVICE CONDUCTORS. REMOVAL SHALL BE CONSIDERED INCIDENTAL, ANY UNUSED CONDUCTOR REMOVED SHALL BE RETURNED TO MANATEE COUNTY TRAFFIC OPERATIONS. ADDITIONAL INFO ON WIRE SECTION A639 MSTCSD.	LF	\$1.00	500	\$500.00
29	F/I	FURNISH/INSTALL	ELECTRICAL SERVICE WIRE - FURNISH AND INSTALL	639-2-1		NO. 6 AWG STRANDED COPPER - REMOVAL OF EXISTING CONDUCTOR SHALL BE CONSIDERED INCIDENTAL, ANY CONDUCTOR REMOVED SHALL BE RETURNED TO MANATEE COUNTY TRAFFIC OPERATIONS. ADDITIONAL INFO ON WIRE SECTION A639 MSTCSD.	LF	\$1.85	5000	\$9,250.00
EMERGENCY PORTABLE GENERATOR HOUSING										
30	I/O	INSTALL	EMERGENCY GENERATOR - HOUSING ONLY	639-4-6	MANATEE COUNTY DESIGN GUIDE	EQUIPMENT PROVIDED BY COUNTY. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED.	EA	\$2,675.00	2	\$5,350.00
PRESTRESSED CONCRETE POLE										
31	F/I	FURNISH/INSTALL	PRESTRESSED CONCRETE POLE	641-2-12	17764	(TYPE P-II SERVICE POLE) MAY BE USED FOR TRAFFIC MONITORING ASSEMBLIES.	EA	\$1,275.00	1	\$1,275.00
32	M/E	REMOVE	PRESTRESSED CONCRETE POLE	641-2-70		SHALLOW REMOVAL- POLES 30' AND GREATER.	EA	\$4,750.00	1	\$4,750.00
33	M/E	REMOVE	PRESTRESSED CONCRETE POLE	641-2-80		COMPLETE/DEEP REMOVAL- POLES 30' AND GREATER.	EA	\$10,750.00	1	\$10,750.00
34	I/O	INSTALL	PRESTRESSED CONCRETE POLE	641-2-30		(VARIOUS SIZES) INSTALL ONLY.	EA	\$7,550.00	1	\$7,550.00
STRAIN POLE - WOOD										
35	F/I	FURNISH/INSTALL	STRAIN POLE - WOOD POLE NOMINAL SIZE 40'	643-140	17727	DIRECT BURY METHOD - GUYING CONSIDERED INCIDENTAL.	EA	\$1,675.00	2	\$3,350.00
36	F/I	FURNISH/INSTALL	STRAIN POLE - WOOD POLE NOMINAL SIZE 50'	643-150		DIRECT BURY METHOD - GUYING CONSIDERED INCIDENTAL.	EA	\$1,965.00	2	\$3,930.00
37	M/E	REMOVE	STRAIN POLE WOOD - REMOVE	643-600		REMOVAL OF WOOD STRAIN POLE.	EA	\$675.00	2	\$1,350.00
ALUMINUM SIGNAL POLE										
38	F/I	FURNISH/INSTALL	ALUMINUM SIGNAL POLE - PEDESTAL	646-1-11	17764/17784	ALUMINUM SIGNAL POLE - PEDESTAL - FURNISH AND INSTALL POLE TO INCLUDE TRANSFORMER BASE AND HARDWARE. CONCRETE FOUNDATION, CONDUIT, GROUND ROD, AND LOCKING COLLAR. FOR REPLACEMENT OF A COMPLETE PEDESTRIAN SIGNAL ASSEMBLY.	AS	\$1,278.00	10	\$12,780.00
39	F/I	FURNISH/INSTALL	ALUMINUM SIGNAL POLE - PEDESTRIAN DETECTOR POST	646-1-12		ALUMINUM SIGNAL POLE - PEDESTRIAN DETECTOR POST- FURNISH AND INSTALL POST TO INCLUDE CONCRETE FOUNDATION, CONDUIT, GROUND ROD.	AS	\$875.00	10	\$8,750.00
STEEL MAST ARM ASSEMBLY										
40	M/E	REMOVE	STEEL MAST ARM ASSEMBLY - REMOVE	649-36-100	17743	FOR STEEL STRAIN POLES AND MAST ARM ASSEMBLIES UP TO CLASS VIII +/- 50'. REMOVE AND TRANSPORT WITHIN COUNTY. CONTRACTOR TO PROVIDE APPROPRIATELY SIZED CRANE AND TRUCK. RETURN ALL EQUIPMENT REMOVED TO MANATEE COUNTY TRAFFIC OPERATIONS. MAY BE USED TO SUPPORT RAPID RESPONSE FOR EMERGENCY REMOVALS DUE TO INCIDENTS, ACCIDENTS, ETC.	EA	\$6,750.00	1	\$6,750.00
41	M/E	REPAIR	MAST ARM REPAIR - MAINTENANCE - GROUT PAD	649-38-000	17745	REMOVE/ REPLACE EXISTING GROUT PAD. PER MAST ARM STRUCTURE.	EA	\$285.00	10	\$2,850.00
42	F/I	FURNISH/INSTALL	MAST ARM REPAIR - MAINTENANCE - WIRE MESH SCREEN	649-38-000	17745 AND Section 649-6	INSTALL/ REPLACE CRITTER SCREEN AT OPENINGS ON MOMENT CONNECTION PLATE.	EA	\$235.00	10	\$2,350.00
43	M/E	REPAIR	MAST ARM REPAIR - MAINTENANCE - SPOT PAINT <100 SQ INCHES	649-38-000	17745	REMOVE AND TREAT RUST SPOTS, SPOT PAINT. PER TREATMENT AREA.	EA	\$985.00	10	\$9,850.00
44	M/E	REPAIR	MAST ARM REPAIR - MAINTENANCE - SPOT PAINT >100 SQ INCHES	649-38-000		REMOVE AND TREAT RUST SPOTS, SPOT PAINT. PER TREATMENT AREA. NOT TO EXCEED 300 SQ. INCHES PER TREATMENT AREA.	EA	\$2,955.00	10	\$29,550.00
45	M/E	REPAIR	MAST ARM REPAIR - MAINTENANCE - NUTS, HAND HOLE COVERS, TOE COVERS	649-38-000		TIGHTEN MAST ARM MOMENT CONNECTION NUTS, REPLACE MISSING NUTS, SECURE, INSTALL OR REPLACE MISSING HAND HOLE AND TOE COVERS. PER MAST ARM STRUCTURE. PER ASSEMBLY.	EA	\$975.00	20	\$19,500.00
VEHICULAR TRAFFIC SIGNAL										

LINE ITEM NO.	ACTIVITY F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING		DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE
46	M/E	RELOCATE	VEHICULAR TRAFFIC SIGNAL - RELOCATE - 1, 3, 4 OR 5-SECTION W/REFLECTIVE BORDER BACKPLATE	650-1-70	N/A	RELOCATE SIGNAL HEAD. ADJUSTMENT OF HARDWARE SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION A650 OF MSTCSD & MUTCD 4D.15.	EA	\$750.00	2	\$1,500.00
47	F/I	FURNISH/INSTALL	VEHICLE SIGNAL HEAD - 1 SECTION W/REFLECTIVE BORDER BACKPLATE	650-1-11	N/A	FOR INSTALLATION OR REPLACEMENT OF SIGNAL ASSEMBLY TO INCLUDE LED INSERT, BACKPLATE WITH REFLECTIVE BORDER, TUNNEL VISOR AND MOUNTING HARDWARE. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION A650 OF MSTCSD.	EA	\$525.00	4	\$2,100.00
48	F/I	FURNISH/INSTALL	VEHICLE SIGNAL HEAD - 3 SECTION W/REFLECTIVE BORDER BACKPLATE	650-1-14	N/A	FOR INSTALLATION OR REPLACEMENT OF SIGNAL ASSEMBLY TO INCLUDE LED INSERT, BACKPLATE WITH REFLECTIVE BORDER, TUNNEL VISOR AND MOUNTING HARDWARE. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION A650 OF MSTCSD.	EA	\$721.00	80	\$57,680.00
49	F/I	FURNISH/INSTALL	VEHICLE SIGNAL HEAD - 4 SECTION W/REFLECTIVE BORDER BACKPLATE	650-1-16	N/A	FOR INSTALLATION OR REPLACEMENT OF SIGNAL ASSEMBLY TO INCLUDE LED INSERT, BACKPLATE WITH REFLECTIVE BORDER, TUNNEL VISOR AND MOUNTING HARDWARE. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION A650 OF MSTCSD.	EA	\$985.00	4	\$3,940.00
50	F/I	FURNISH/INSTALL	VEHICLE SIGNAL HEAD - 5 SECTION CLUSTER W/REFLECTIVE BORDER BACKPLATE	650-1-19	N/A	FOR INSTALLATION OR REPLACEMENT OF SIGNAL ASSEMBLY TO INCLUDE LED INSERT, BACKPLATE WITH REFLECTIVE BORDER, TUNNEL VISOR AND MOUNTING HARDWARE. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION A650 OF MSTCSD.	EA	\$1,275.00	20	\$25,500.00
VEHICULAR SIGNAL AUXILIARIES										
51	F/I	FURNISH/INSTALL	VEHICULAR SIGNAL AUXILIARIES - 12" LED MODULE - RE-LAMP	650-2-106	N/A	FOR RE-LAMPING INTERSECTIONS. REMOVAL OF EXISTING MODULE CONSIDERED INCIDENTAL.	EA	\$325.00	200	\$65,000.00
52	F/I	FURNISH/INSTALL	VEHICULAR SIGNAL AUXILIARIES - BACKPLATE W/ REFLECTIVE BORDER	650-1-19	N/A	FOR REPLACEMENT OF EXISTING OR MISSING BACKPLATES. REMOVAL OF EXISTING EQUIPMENT CONSIDERED INCIDENTAL.	EA	\$185.00	25	\$4,625.00
PEDESTRIAN SIGNAL										
53	F/I	FURNISH/INSTALL	PEDESTRIAN SIGNAL - RE-LAMP	653-1-11	N/A	FOR REPLACEMENT OF PEDESTRIAN LED COUNTDOWN MODULE ONLY. REMOVAL OF EXISTING EQUIPMENT CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION 653.	EA	\$215.00	80	\$17,200.00
54	F/I	FURNISH/INSTALL	PEDESTRIAN SIGNAL - (1 WAY)	653-1-11	17764	FOR INSTALLATION OF PEDESTRIAN SIGNAL TO INCLUDE, COUNTDOWN LED INSERT, HOUSING, AND MOUNTING HARDWARE- REMOVAL OF EXISTING EQUIPMENT CONSIDERED INCIDENTAL.	AS	\$448.00	40	\$17,920.00
55	F/I	FURNISH/INSTALL	PEDESTRIAN SIGNAL - (2 WAY)	653-1-12	17764	FOR INSTALLATION OF PEDESTRIAN SIGNAL TO INCLUDE, COUNTDOWN LED INSERT, HOUSING, AND MOUNTING HARDWARE - REMOVAL OF EXISTING EQUIPMENT CONSIDERED INCIDENTAL.	AS	\$955.00	20	\$19,100.00
RECTANGULAR RAPID FLASHING BEACON										
56	F/I	FURNISH/INSTALL	RECTANGULAR RAPID FLASHING BEACON	654-2-21	TEM	FOR INSTALLATION OF COMPLETE ASSEMBLY - 1 WAY.	AS	\$6,275.00	2	\$12,550.00
57	F/I	FURNISH/INSTALL	RECTANGULAR RAPID FLASHING BEACON	654-2-22	TEM	FOR INSTALLATION OF COMPLETE ASSEMBLY - 2 WAY.	AS	\$6,975.00	2	\$13,950.00
MAST ARM, SPAN WIRE, AND POLE MOUNTING ASSEMBLIES										
58	M/E	REPAIR	MAST ARM, SPAN WIRE, POLE MOUNTING ASSEMBLY REPAIR/ REPLACE	659-1-11	N/A	INCLUDES REPLACEMENT OF DAMAGED TRAFFIC SIGNAL AND SIGN MOUNTING HARDWARE AND ADJUSTABLE HANGER ASSEMBLIES.	AS	\$1,765.00	1	\$1,765.00
59	M/E	REPAIR	MAST ARM, SPAN WIRE, POLE MOUNTING ASSEMBLY REPAIR/ REPLACE	659-1-12	N/A	INCLUDES REPLACEMENT OF DAMAGED TRAFFIC SIGNAL AND SIGN MOUNTING HARDWARE AND ADJUSTABLE HANGER ASSEMBLIES.	AS	\$1,765.00	2	\$3,530.00
LOOP ASSEMBLY										
60	F/I	INSTALL/REPAIR	LOOP TYPE B 6'X 6'	660-2-102	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$575.00	10	\$5,750.00
61	F/I	INSTALL/REPAIR	LOOP TYPE A 6' X 20'	660-2-101	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$675.00	10	\$6,750.00
62	F/I	INSTALL/REPAIR	LOOP TYPE A 6' X 30'	660-2-101	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$825.00	10	\$8,250.00
63	F/I	INSTALL/REPAIR	LOOP TYPE A 6' X 40'	660-2-101	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$1,150.00	10	\$11,500.00
64	F/I	INSTALL/REPAIR	LOOP TYPE F 6' X 20'	660-2-106	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$875.00	10	\$8,750.00
65	F/I	INSTALL/REPAIR	LOOP TYPE F 6' X 30'	660-2-106	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$975.00	10	\$9,750.00
66	F/I	INSTALL/REPAIR	LOOP TYPE F 6' X 40'	660-2-106	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$1,275.00	10	\$12,750.00
67	F/I	INSTALL/REPAIR	LOOP TYPE F 6' X 50'	660-2-106	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$1,475.00	5	\$7,375.00

LINE ITEM NO.	ACTIVITY F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING	DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	
VEHICLE DETECTION SYSTEM - MICROWAVE										
68	I/O	INSTALL	VEHICLE DETECTION SYSTEM - MICROWAVE	660-3-10	REFER TO MANATEE COUNTY DESIGN GUIDE	PI	\$5,010.00	2	\$10,020.00	
69	F/I	INSTALL/REPAIR	VEHICLE DETECTION SYSTEM - MICROWAVE - ABOVE GROUND EQUIPMENT	660-3-12		FOR COMPLETE SYSTEM INSTALLATION. ALL MAJOR MATERIALS PROVIDED BY COUNTY. INCIDENTAL ITEMS TO BE PROVIDED BY THE CONTRACTOR. FOR INSTALLATION OR REPLACEMENT OF ABOVE GROUND SYSTEM SENSORS. ALL MATERIALS AND SYSTEM SPECIFICATIONS MUST BE APPROVED BY THE COUNTY PRIOR TO PURCHASE.	EA	\$6,102.00	5	\$30,510.00
VEHICLE DETECTION SYSTEM - VIDEO										
70	F/O	REPAIR	VIDEO DETECTION SYSTEM - MAINTENANCE - PER INTERSECTION	660-4-80	REFER TO MANATEE COUNTY DESIGN GUIDE	PI	\$2,350.00	20	\$47,000.00	
71	I/O	INSTALL	VIDEO DETECTION SYSTEM (INSTALL) - CABINET EQUIPMENT (PER LOCATION)	660-4-31		FOR COMPLETE SYSTEM INSTALLATION. ALL MAJOR MATERIALS PROVIDED BY COUNTY. INCIDENTAL ITEMS TO BE PROVIDED BY THE CONTRACTOR.	EA	\$2,310.00	2	\$4,620.00
72	I/O	INSTALL	VIDEO CAMERA (INSTALL) - ABOVE GROUND EQUIPMENT (PER CAMERA)	660-4-32		USE FOR SINGLE OR MULTIPLE CAMERA INSTALLATIONS. COST PER SINGLE CAMERA INSTALLATION. ALL EQUIPMENT TO BE SUPPLIED BY MANATEE COUNTY. INCIDENTAL ITEMS TO BE PROVIDED BY THE CONTRACTOR.	EA	\$2,350.00	2	\$4,700.00
VEHICLE DETECTION SYSTEM - WIRELESS										
73	I/O	INSTALL AND/OR REPLACE	VEHICLE DETECTION SYSTEM - WIRELESS - CABINET EQUIPMENT - (PER INTERSECTION)	660-5-31	REFER TO MANATEE COUNTY DESIGN GUIDE	PI	\$2,310.00	2	\$4,620.00	
74	I/O	INSTALL AND/OR REPLACE	VEHICLE DETECTION SYSTEM - WIRELESS - ABOVE GROUND EQUIPMENT (PER SENSOR)	660-5-32		ALL EQUIPMENT TO BE SUPPLIED BY MANATEE COUNTY. TO INCLUDE SENSORS, CABLE AND CONNECTORS, MOUNTING HARDWARE AND CONTROL EQUIPMENT. INCIDENTAL ITEMS TO BE PROVIDED BY THE CONTRACTOR. FOR NEW INSTALLATION OR REPLACEMENT OF EXISTING SENSORS OR EQUIPMENT. COST PER SENSOR INSTALLATION. REMOVAL OF EXISTING DEVICE CONSIDERED INCIDENTAL. MANATEE COUNTY WILL PROVIDE ALL MAJOR MATERIALS, EQUIPMENT AND SENSORS. CONTRACTOR TO PROVIDE ANY INCIDENTAL ITEMS SUCH AS MISCELLANEOUS CONNECTORS OR HARDWARE TO COMPLETE THE INSTALLATION.	EA	\$2,350.00	10	\$23,500.00
75	I/O	INSTALL AND/OR REPLACE	VEHICLE DETECTION SYSTEM - WIRELESS - IN ROAD ELECTRONICS (PER SENSOR)	660-5-33		INSTALL PER MANUFACTURER SPECIFICATIONS. UPON REMOVING OR INSTALLING SENSOR THE ROAD SURFACE/PAVEMENT IS TO BE RESTORED TO ORIGINAL GRADE - SENSORS PROVIDED BY COUNTY.	EA	\$275.00	10	\$2,750.00
PEDESTRIAN DETECTOR										
76	I/O	INSTALL	PEDESTRIAN DETECTOR	665-1-30	REFER TO MANATEE COUNTY DESIGN GUIDE	EA	\$75.00	20	\$1,500.00	
77	I/O	INSTALL/REPLACE	PEDESTRIAN DETECTOR - STANDARD PUSHBUTTON	665-1-90		INSTALL PEDESTRIAN DETECTOR. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION 653. REPLACEMENT OF CABLING CONSIDERED ADDITIONAL. COUNTY SHALL PROVIDE ALL DETECTORS. DIAGNOSE AND REPAIR PEDESTRIAN DETECTOR PUSHBUTTON. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION 653. REPLACEMENT OF CABLING CONSIDERED ADDITIONAL. COUNTY SHALL PROVIDE ALL PUSH BUTTONS.	EA	\$95.00	20	\$1,900.00
78	I/O	INSTALL/REPLACE	PEDESTRIAN DETECTOR - ACCESSIBLE (AUDIBLE) PUSHBUTTON	665-1-90		DIAGNOSE AND REPAIR AUDIBLE PEDESTRIAN DETECTOR PUSHBUTTON. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION 653. REPLACEMENT OF CABLING CONSIDERED ADDITIONAL. COUNTY SHALL PROVIDE ALL PUSH BUTTONS. RETURN DAMAGED AUDIBLE PUSHBUTTONS TO THE COUNTY FOR REPAIR.	EA	\$115.00	5	\$575.00
TRAFFIC CONTROLLER ASSEMBLY										
79	I/O	INSTALL	TRAFFIC CONTROLLER ASSEMBLY - CONTROLLER WITH CABINET	670-5-300	17841	AS	\$5,610.00	2	\$11,220.00	
80	M/E	RELOCATE	TRAFFIC CONTROLLER ASSEMBLY - CONCRETE FOUNDATION	670-5-500	17841	EA	\$3,765.00	2	\$7,530.00	
81	M/E	REMOVE	TRAFFIC CONTROLLER ASSEMBLY - CONCRETE FOUNDATION - REMOVE	670-5-600	17841	EA	\$750.00	2	\$1,500.00	
82	I/O	INSTALL	TRAFFIC CONTROLLER ASSEMBLY - CONCRETE FOUNDATION - INSTALL	670-5-100	17841	EA	\$2,750.00	2	\$5,500.00	
ITS CABINET										
83	I/O	INSTALL	ITS CABINET - CCTV	676-2-300	18108	EA	\$2,305.00	2	\$4,610.00	
SYSTEM CONTROL EQUIPMENT										
84	I/O	INSTALL	ADAPTIVE SIGNAL CONTROL SYSTEM - INSTALL	680-1-300	N/A	PI	\$375.00	1	\$375.00	
CCTV CAMERA										
85	I/O	INSTALL	CCTV CAMERA	682-1-33	REFER TO MANATEE COUNTY DESIGN GUIDE	EA	\$1,945.00	2	\$3,890.00	
FIBER OPTIC CABLE										
86	I/O	INSTALL	FIBER OPTIC CABLE - INSTALL ONLY - BRIDGE MOUNT	633-1-310	18202-18204	LF	\$1.00	1,000	\$1,000.00	
87	I/O	INSTALL	FIBER OPTIC CABLE - INSTALL ONLY - UNDERGROUND	633-1-320	18202-18204	LF	\$1.00	5,000	\$5,000.00	
FIBER OPTIC CONNECTION										
88	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION - SPLICE	633-2-31	REFER TO MANATEE COUNTY DESIGN	EA	\$47.00	288	\$13,536.00	

LINE ITEM NO.	ACTIVITY F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING		DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE
89	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION - TERMINATION	633-2-31	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL FIBER OPTIC CABLE SPLICE, PER TERMINATION, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$45.00	16	\$720.00
FIBER OPTIC CONNECTION - HARDWARE										
90	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION- HARDWARE - SPLICE ENCLOSURE	633-3-11	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$475.00	1	\$475.00
91	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION- HARDWARE - SPLICE TRAY	633-3-12		INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE , ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$75.00	1	\$75.00
92	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION- HARDWARE - PRE-TERMINATED CONNECTOR ASSEMBLY	633-3-13		INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$375.00	1	\$375.00
93	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION- HARDWARE - BUFFER TUBE FAN OUT KIT	633-3-14		INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$475.00	1	\$475.00
94	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION- HARDWARE - PATCH PANEL - PRE-TERMINATED	633-3-15		INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$275.00	1	\$275.00
95	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION- HARDWARE - PATCH PANEL - FIELD TERMINATED	633-3-16		INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$425.00	1	\$425.00
96	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION- HARDWARE - CONNECTOR PANEL	633-3-17		INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$425.00	1	\$425.00
UNINTERRUPTABLE POWER SUPPLY										
97	F/I	FURNISH/INSTALL	UNINTERRUPTABLE POWER SUPPLY	685-1-13	REFER TO MANATEE COUNTY DESIGN GUIDE	FURNISH AND INSTALL A COMPLETE UPS ASSEMBLY TO INCLUDE, UPS, CABINET AND BATTERIES. ALL MATERIALS SHALL BE APPROVED BY THE COUNTY BEFORE PURCHASE AND INSTALLATION.	EA	\$6,586.00	2	\$13,172.00
98	I/O	INSTALL/REPAIR	UNINTERRUPTABLE POWER SUPPLY - BATTERY	685-1-231		INSTALL/ REPLACE BATTERY. MAJOR MATERIAL PROVIDED BY THE COUNTY. INCIDENTAL ITEMS TO BE PROVIDED BY THE CONTRACTOR. PAY ITEM INCLUDES REMOVAL AND DISPOSAL OF EXISTING BATTERY THROUGH COUNTY BATTERY SUPPLIER.	EA	\$1,385.00	20	\$27,700.00
SINGLE POST SIGN										
99	F/I	FURNISH/INSTALL	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	700-1-11	FDOT BOE	THESE ITEMS INCLUDE ALL SIGN PANEL(S), POST(S) AND FOUNDATION FOR A COMPLETE ASSEMBLY. ENSURE THAT SIGN ASSEMBLIES MEET THE WIND LOAD AREA REQUIREMENTS OF THE DESIGN STANDARDS. FOR DETERMINING THE SHEETING AREA FOR PAYMENT, ADD THE AREA OF ALL SIGN MESSAGES ON THE ASSEMBLY (FRONT AND BACK MESSAGES).	AS	\$575.00	1	\$575.00
100	F/I	FURNISH/INSTALL	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	700-1-12			AS	\$1,375.00	1	\$1,375.00
101	F/I	FURNISH/INSTALL	SINGLE POST SIGN, F&I GROUND MOUNT, 21-30 SF	700-1-13			AS	\$3,275.00	1	\$3,275.00
102	F/I	FURNISH/INSTALL	SINGLE POST SIGN, F&I GROUND MOUNT, 31+ SF	700-1-14			AS	\$4,750.00	1	\$4,750.00
103	M/E	REPAIR	SINGLE POST SIGN, F&I GROUND MOUNT REPAIR	700-1-80			FOR REPAIR OF GROUND MOUNT TRAFFIC SIGNS, INCLUDES POLE (U-CHANNEL AND BASE) REPLACEMENT AS NEEDED.	AS	\$375.00	1
INTERNALLY ILLUMINATED SIGN										
104	I/O	INSTALL	INTERNALLY-ILLUMINATED SIGN - INSTALL ONLY	700-5-40	17748	FOR INSTALLATION OF INTERNALLY ILLUMINATED SIGN, INSTALLATION OF POWER CABLE CONSIDERED INCIDENTAL. COUNTY TO PROVIDE ALL SIGNS. CONTRACTOR SHALL PROVIDE ALL MOUNTING HARDWARE, CABLING AND MISCELLANEOUS CONNECTORS HARDWARE TO COMPLETE THE INSTALLATION. ADDITIONAL INFO SECTION A699.	EA	\$1,022.00	1	\$1,022.00
105	M/E	REMOVE	INTERNALLY-ILLUMINATED SIGN - REMOVAL	700-5-60	17748	REMOVAL OF SIGN ASSEMBLY. MAY BE USED FOR UPGRADES OR REPLACEMENTS.	EA	\$750.00	1	\$750.00
106	M/E	MODIFY	INTERNALLY-ILLUMINATED SIGN - LED RETROFIT	M700-5-70	REFER TO MANATEE COUNTY DESIGN GUIDE	REMOVAL OF FLUORESCENT LAMP AND BALLAST AND REPLACE WITH FDOT APPROVED LED RETROFIT KIT. CONTRACTOR TO DISPOSE OF LAMPS, BALLASTS, OR UNUSABLE MATERIALS PROPERLY. CONTRACTOR TO PROVIDE MATERIALS.	EA	\$2,165.00	1	\$2,165.00
107	M/E	REPAIR	INTERNALLY-ILLUMINATED SIGN - REPAIR - LED	M700-5-70		DIAGNOSE AND REPAIR LED SIGN. REPLACE LED DRIVER. CONTRACTOR TO PROVIDE MATERIALS.	EA	\$1,375.00	20	\$27,500.00
108	M/E	REPAIR	INTERNALLY-ILLUMINATED SIGN - REPAIR - FLUORESCENT	M700-5-70		DIAGNOSE AND REPAIR FLUORESCENT SIGN. REPLACE LAMP AND BALLAST. CONTRACTOR TO PROVIDE MATERIALS.	EA	\$1,275.00	5	\$6,375.00
109	M/E	REPAIR	INTERNALLY-ILLUMINATED SIGN - REFACE	M700-5-70		REPLACE EXISTING SIGN FACE. REPLACEMENT SHALL BE EXACT FIT, USE EXISTING DESIGN, AND FDOT AND MUTCD COMPLIANT MATERIALS. CONTRACTOR TO PROVIDE MATERIALS.	EA	\$1,475.00	20	\$29,500.00
110	M/E	REMOVE/INSTALL	INTERNALLY-ILLUMINATED SIGN - RELOCATE SIGN	700-5-50		INCLUDES RELOCATING AND RECONNECTING ALL WIRING AND HARDWARE. CONTRACTOR TO PROVIDE ANY ADDITIONAL MATERIALS NECESSARY TO COMPLETE THE INSTALLATION. SPLICES IN CONDUCTORS MAY BE PERMITTED ONLY AT HAND HOLE ACCESS POINTS. ALL CABLING SHALL BE PROPERLY DRESSED AND TAGGED.	EA	\$975.00	1	\$975.00
FLASHING BEACONS										
111	I/O	INSTALL	SIGN BEACON - INSTALL ONLY	700-12-41	11862	COUNTY TO PROVIDE MATERIALS. CONTRACTOR TO REMOVE AND DISPOSE OF DEBRIS, RESTORE LANDSCAPE TO THE PRE-WORK GRADE CONSTRUCTION CONDITION AND BE COMPATIBLE WITH SURROUNDING GROUND AREAS.	EA	\$1,375.00	1	\$1,375.00
SERVICES										
112	F/O	FURNISH	LABOR	None	N/A	COST PER TECHNICIAN PER HOUR.	HR	\$65.00	1	\$65.00
113	F/O	FURNISH	MATERIAL	None	N/A	FOR ADDITIONAL MATERIALS, MARKUP NOT TO EXCEED 10%. THIS ITEM IS PAID PER LOCATION FOR SHORT DURATION WORK LASTING LESS THAN 2 DAYS. THIS ITEM IS USED FOR MOBILIZATION AND MOT COSTS ASSOCIATED WITH TROUBLE CALLS AND EMERGENCY RESPONSE. NO ADDITIONAL MOT PAY ITEMS MAY BE USED WITH THIS ITEM.	EA	\$1.00	1	\$1.00
114	F/O	FURNISH	MOBILIZATION	101- Maint	FDOT BOE	FOR PROJECTS LASTING TWO (2) OR MORE DAYS AT THE SAME PROJECT LOCATION, PROVIDE MAINTENANCE OF TRAFFIC BILLED PER DAY. COSTS FOR TEMPORARY MOT LASTING LESS THAN TWO (2) DAYS TO BE INCLUDED IN MOBILIZATION COSTS (SEE 101- MAINT).	EA	\$750.00	1	\$750.00
115	F/O	FURNISH	MAINTENANCE OF TRAFFIC (MOT)	102-1- MOT	FDOT BOE	FOR PROJECTS LASTING TWO (2) OR MORE DAYS AT THE SAME PROJECT LOCATION, PROVIDE MAINTENANCE OF TRAFFIC BILLED PER DAY. COSTS FOR TEMPORARY MOT LASTING LESS THAN TWO (2) DAYS TO BE INCLUDED IN MOBILIZATION COSTS (SEE 101- MAINT).	DAY	\$875.00	1	\$875.00
116	F/O	FURNISH	HEAVY EQUIPMENT	M-1-A	N/A	PROVIDE HOURLY USE OF SPECIALTY HEAVY EQUIPMENT. THIS PAY ITEM IS NOT TO BE USED IN COMBINATION WITH FURNISH AND INSTALL PAY ITEMS ABOVE.	HR	\$110.00	1	\$110.00
117	F/O	FURNISH	PROFESSIONAL/TECHNICAL SERVICES	M-2-A	N/A	PROVIDE HOURLY PROFESSIONAL AND TECHNICAL SERVICES. THIS PAY ITEM IS NOT TO BE USED IN COMBINATION WITH FURNISH AND INSTALL PAY ITEMS ABOVE.	HR	\$65.00	1	\$65.00

EXHIBIT C, AFFIDAVIT OF NO CONFLICT

STATE OF Florida
COUNTY OF Manatee

BEFORE ME, the undersigned authority, this day personally appeared [INSERT NAME] Billy Masila, as [INSERT TITLE] CEO of [INSERT CONTRACTOR NAME] B&E Signal and Lighting Inc (hereinafter "CONTRACTOR") with full authority to bind CONTRACTOR, who being first duly sworn, deposes and says that CONTRACTOR:

- (a) Is not currently engaged and will not become engaged in any obligations, undertakings or contracts that will require CONTRACTOR to maintain an adversarial role against the County or that will impair or influence the advice, recommendations or quality of work provided to the County; and
- (b) Has provided full disclosure of all potentially conflicting contractual relationships and full disclosure of contractual relationships deemed to raise a question of conflict(s); and
- (c) Has provided full disclosure of prior work history and qualifications that may be deemed to raise a possible question of conflict(s).

Affiant makes this Affidavit for the purpose of inducing Manatee County, a political subdivision of the State of Florida, to enter into this Agreement No. 21-R076431BB for Traffic Signal and Intelligent Transportation Sys Maintenance
DATED this 14 day of May, 20 21.

[Signature]
CONTRACTOR Signature

The foregoing instrument was sworn to and acknowledged before me this 14 day of May, 20 21, by [NAME] Billy Masila, as [TITLE] CEO of [CONTRACTOR] B&E Signal and Lighting. He / She is personally known to me or has produced [Signature] [TYPE OF IDENTIFICATION] as identification.

[Signature]
Notary Signature
Commission No. _____



EXHIBIT D, INSURANCE REQUIREMENTS

The CONTRACTOR will not commence work under the resulting Agreement until all insurance coverages indicated by an “X” herein have been obtained. The CONTRACTOR shall obtain and submit to the Procurement Division within ten (10) calendar days from the date of notice of intent to award, at its expense, the following minimum amounts of insurance (inclusive of any amounts provided by an umbrella or excess policy): Work under this Agreement cannot commence until all insurance coverages indicated herein have been obtained on a standard ACORD form (inclusive of any amounts provided by an umbrella or excess policy):

Automobile Liability Insurance Required Limits

Coverage must be afforded under a per occurrence policy form including coverage for all owned, hired and non-owned vehicles for bodily injury and property damage of not less than:

- \$1,000,000 Combined Single Limit; OR
- \$ 500,000 Bodily Injury and \$500,000 Property Damage
- \$10,000 Personal Injury Protection (No Fault)
- \$500,000 Hired, Non-Owned Liability
- \$10,000 Medical Payments

This policy shall contain severability of interests’ provisions.

Commercial General Liability Insurance Required Limits (per Occurrence form only; claims-made form is not acceptable)

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name ‘Manatee County, a political subdivision of the State of Florida’ as an Additional Insured, and include limits not less than:

- \$1,000,000 Single Limit Per Occurrence
- \$2,000,000 Aggregate
- \$1,000,000 Products/Completed Operations Aggregate
- \$1,000,000 Personal and Advertising Injury Liability
- \$50,000 Fire Damage Liability
- \$10,000 Medical Expense, and
- \$1,000,000, Third Party Property Damage
- \$ Project Specific Aggregate (Required on projects valued at over \$10,000,000)

This policy shall contain severability of interests’ provisions.

Employer’s Liability Insurance

Coverage limits of not less than:

- \$100,000 Each Accident
- \$500,000 Disease Each Employee
- \$500,000 Disease Policy Limit

Worker’s Compensation Insurance

US Longshoremen & Harbor Workers Act

Jones Act Coverage

Coverage limits of not less than:

- Statutory workers’ compensation coverage shall apply for all employees in compliance with the laws and statutes of the State of Florida and the federal government
- If any operations are to be undertaken on or about navigable waters, coverage must be included for the US Longshoremen & Harbor Workers Act and Jones Act

Should ‘leased employees’ be retained for any part of the project or service, the employee leasing agency shall provide evidence of Workers’ Compensation coverage and Employer’s Liability coverage for all personnel on the worksite and in compliance with the above Workers’ Compensation requirements. NOTE: Workers’ Compensation coverage is a firm requirement. Elective exemptions are considered on a case-by-case basis and are approved in a very limited number of instances.

Aircraft Liability Insurance Required Limits

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name ‘Manatee County a political subdivision of the State of Florida’ as an Additional Insured, and include limits not less than:

- \$ Each Occurrence Property and Bodily Injury with no less than \$100,000 per passenger each occurrence or a ‘smooth’ limit
- \$ General Aggregate

Un-Manned Aircraft Liability Insurance (Drone)

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name ‘Manatee County a political subdivision of the State of Florida’ as an Additional Insured, and include limits not less than:

- \$ Each Occurrence Property and Bodily Injury; Coverage shall specifically include operation of Unmanned Aircraft Systems (UAS), including liability and property damage
- \$ General Aggregate

Installation Floater Insurance

When the contract or agreement **does not** include construction of, or additions to, above ground building or structures, but does involve the installation of machinery or equipment, Installation Floater Insurance shall be afforded under a per occurrence policy form, policy shall be endorsed and name “Manatee County, a political subdivision of the State of Florida” as an Additional Insured, and include limits not less than:

- 100% of the completed value of such addition(s), building(s), or structure(s)

Professional Liability and/or Errors and Omissions (E&O) Liability Insurances

Coverage shall be afforded under either an occurrence policy form or a claims-made policy form. If the coverage form is on a claims-made basis, then coverage must be maintained for a minimum of three years from termination of date of the contract. Limits must not be less than:

- \$ 1,000,000 Bodily Injury and Property Damage Each Occurrence
- \$ 2,000,000 General Aggregate

Builder's Risk Insurance

When the contract or agreement includes the construction of roadways and/or the addition of a permanent structure or building, including the installation of machinery and/or equipment, Builder's Risk Insurance shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured, and include limits not less than:

- An amount equal to 100% of the completed value of the project, or the value of the equipment to be installed
- The policy shall not carry a self-insured retention/deductible greater than \$10,000

Coverage shall be for all risks and include, but not be limited to, storage and transport of materials, equipment, supplies of any kind whatsoever to be used on or incidental to the project, theft coverage, and Waiver of Occupancy Clause Endorsement, where applicable.

Cyber Liability Insurance

Coverage shall comply with Florida Statute 501.171, shall be afforded under a per occurrence policy form, policy shall be endorsed and name 'Manatee County, a political subdivision of the State of Florida' as an Additional Insured, and include limits not less than:

- \$ Security Breach Liability
- \$ Security Breach Expense Each Occurrence
- \$ Security Breach Expense Aggregate
- \$ Replacement or Restoration of Electronic Data
- \$ Extortion Threats
- \$ Business Income and Extra Expense
- \$ Public Relations Expense

NOTE: Policy must not carry a self-insured retention/deductible greater than \$25,000.

Hazardous Materials Insurance (As Noted Below)

Hazardous materials include all materials and substances that are currently designated or defined as hazardous by the law or rules of regulation by the State of Florida or federal government.

All coverage shall be afforded under either an occurrence policy form or a claims-made policy form, and the policy shall be endorsed and name 'Manatee County, a political subdivision of the State of Florida' as an Additional Insured. If the coverage form is on a claims-made basis, then coverage must be maintained for a minimum of three years from termination of date of the contract. Limits must not be less than:

Pollution Liability

Amount equal to the value of the contract, subject to a \$1,000,000 minimum, for Bodily Injury and Property Damage to include sudden and gradual release, each claim and aggregate.

Asbestos Liability (If handling within scope of Contract)

Amount equal to the value of the contract, subject to a \$1,000,000 minimum, for Bodily Injury and Property Damage to include sudden and gradual release, each claim and aggregate.

Disposal

When applicable, CONTRACTOR shall designate the disposal site and furnish a Certificate of Insurance from the disposal facility for Environmental Impairment Liability Insurance covering liability.

- Amount equal to the value of the contract, subject to a \$1,000,000 minimum, for Liability for Sudden and Accidental Occurrences, each claim and an aggregate
- Amount equal to the value of the contract, subject to a \$1,000,000 minimum, for Liability for Non-Sudden and Accidental Occurrences, each claim and an aggregate

Hazardous Waste Transportation Insurance

CONTRACTOR shall designate the hauler and have the hauler furnish a Certificate of Insurance for Automobile Liability insurance with Endorsement MCS-90 for liability arising out of the transportation of hazardous materials. EPA identification number shall be provided.

All coverage shall be afforded under either an occurrence policy form or a claims-made policy form and the policy shall be endorsed and name “Manatee County, a political subdivision of the State of Florida” as an Additional Insured. If the coverage form is on a claims-made basis, then coverage must be maintained for a minimum of three years from termination of date of the contract. Limits must not be less than:

- Amount equal to the value of the contract, subject to a \$1,000,000 minimum, per accident

Liquor Liability Insurance

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name “Manatee County, a political subdivision of the State of Florida” as an Additional Insured, and include limits not less than:

- \$1,000,000 Each Occurrence and Aggregate

Garage Keeper’s Liability Insurance

Coverage shall be required if the maintenance, servicing, cleaning or repairing of any County motor vehicles is inherent or implied within the provision of the contract.

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name “Manatee County, a political subdivision of the State of Florida” as an Additional Insured,

and include limits not less than:

- Property and asset coverage in the full replacement value of the lot or garage

Bailee’s Customer Liability Insurance

Coverage shall be required for damage and/or destruction when County property is temporarily under the care or custody of a person or organization, including property that is on, or in transit to and from the person or organization’s premises. Perils covered should include fire, lightning, theft, burglary, robbery, explosion, collision, flood, earthquake and damage or destruction during transportation by a carrier.

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name “Manatee County, a political subdivision of the State of Florida” as an Additional Insured, and include limits not less than:

- Property and asset coverage in the full replacement value of the County asset(s) in the CONTRACTOR’S care, custody and control

Hull and Watercraft Liability Insurance

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name “Manatee County, a political subdivision of the State of Florida” as an Additional Insured, and include limits not less than:

- \$ Each Occurrence
- \$ General Aggregate
- \$ Fire Damage Liability
- \$10,000 Medical Expense, and
- \$ Third Party Property Damage
- \$ Project Specific Aggregate (Required on projects valued at over \$10,000,000)

INSURANCE REQUIREMENTS

THE POLICIES ARE TO CONTAIN, OR BE ENDORSED TO CONTAIN, THE FOLLOWING PROVISIONS:

Commercial General Liability and Automobile Liability Coverages

A. **“Manatee County, a Political Subdivision of the State of Florida,” is to be named as an Additional Insured in respect to:** Liability arising out of activities performed by or on behalf of the CONTRACTOR, his agents, representatives, and employees; products and completed operations of the CONTRACTOR; or automobiles owned, leased, hired or borrowed by the CONTRACTOR. The coverage shall contain no special limitation(s) on the scope of protection afforded to the COUNTY, its officials, employees or volunteers.

In addition to furnishing a Certificate of Insurance, the CONTRACTOR shall provide the endorsement that evidences Manatee COUNTY being listed as an Additional Insured. This can be done in one of two ways: (1) an endorsement can be issued that specifically lists

“Manatee County, a Political Subdivision of the State of Florida,” as Additional Insured; or, (2) an endorsement can be issued that states that all Certificate Holders are Additional Insured with respect to the policy.

- B. The CONTRACTOR'S insurance coverage shall be primary insurance with respect to the COUNTY, its officials, employees and volunteers. Any insurance or self-insurance maintained by the COUNTY, its officials, employees or volunteers shall be excess of CONTRACTOR'S insurance and shall be non-contributory.
- C. The insurance policies must be on an occurrence form.

Workers' Compensation and Employers' Liability Coverages

The insurer shall agree to waive all rights of subrogation against the COUNTY, its officials, employees and volunteers for losses arising from work performed by the CONTRACTOR for the COUNTY.

General Insurance Provisions Applicable To All Policies:

- A. Prior to the execution of contract, or issuance of a Purchase Order, and then annually upon the anniversary date(s) of the insurance policy's renewal date(s) for as long as this contract remains in effect, CONTRACTOR shall furnish the COUNTY with a Certificate(s) of Insurance (using an industry accepted certificate form, signed by the Issuer, with applicable endorsements, and containing the solicitation or contract number, and title or description) evidencing the coverage set forth above and naming “Manatee County, a Political Subdivision of the State of Florida” as an Additional Insured on the applicable coverage(s) set forth above.
- B. If the policy contains an aggregate limit, confirmation is needed in writing (letter, email, etc.) that the aggregate limit has not been eroded to procurement representative when supplying Certificate of Insurance.
- C. In addition, when requested in writing from the COUNTY, CONTRACTOR will provide the COUNTY with a certified copy of all applicable policies. The address where such certificates and certified policies shall be sent or delivered is as follows:

**Manatee County, a Political Subdivision of the State of Florida
Attn: Risk Management Division
1112 Manatee Avenue West, Suite 969
Bradenton, FL 34205**

The project's solicitation number and title shall be listed on each certificate.

- D. CONTRACTOR shall provide thirty (30) days written notice to the Risk Manager of any cancellation, non-renewal, termination, material change, or reduction in coverage of any insurance policies to procurement representative including solicitation number and title with all notices.

- E. CONTRACTOR agrees that should at any time CONTRACTOR fail to meet or maintain the required insurance coverage(s) as set forth herein, the COUNTY may terminate this contract.
- F. The CONTRACTOR waives all subrogation rights against COUNTY, a Political Subdivision of the State of Florida, for all losses or damages which occur during the contract and for any events occurring during the contract period, whether the suit is brought during the contract period or not.
- G. The CONTRACTOR has sole responsibility for all insurance premiums and policy deductibles.
- H. It is the CONTRACTOR'S responsibility to ensure that his agents, representatives and subcontractors comply with the insurance requirements set forth herein. CONTRACTOR shall include his agents, representatives, and subcontractors working on the project or at the worksite as insured under its policies, or CONTRACTOR shall furnish separate certificates and endorsements for each agent, representative, and subcontractor working on the project or at the worksite. All coverages for agents, representatives, and subcontractors shall be subject to all of the requirements set forth to the procurement representative.
- I. All required insurance policies must be written with a carrier having a minimum A.M. Best rating of A- FSC VII or better. In addition, the COUNTY has the right to review the CONTRACTOR'S deductible or self-insured retention and to require that it be reduced or eliminated.
- J. CONTRACTOR understands and agrees that the stipulated limits of coverage listed herein in this insurance section shall not be construed as a limitation of any potential liability to the COUNTY, or to others, and the COUNTY'S failure to request evidence of this insurance coverage shall not be construed as a waiver of CONTRACTOR'S obligation to provide and maintain the insurance coverage specified.
- K. CONTRACTOR understands and agrees that the COUNTY does not waive its immunity and nothing herein shall be interpreted as a waiver of the COUNTY'S rights, including the limitation of waiver of immunity, as set forth in Florida Statutes 768.28, or any other statutes, and the COUNTY expressly reserves these rights to the full extent allowed by law.
- L. No award shall be made until the Procurement Division has received the Certificate of Insurance in accordance with this section.

[Remainder of page intentionally left blank]

EXHIBIT D, CONTRACTOR'S INSURANCE STATEMENT

THE UNDERSIGNED has read and understands the aforementioned insurance requirements of this Agreement and shall provide the insurance required by this section within ten (10) days from the date of notice of intent to award.

Date: 5.14.21

Contractor's Name: B&E Signal and Lighting Inc

Authorized Signature: [Signature]

Printed Name/Title: Billy T Masila, CEO

Insurance Agency: Brown & Brown

Agent Name: Zach Schumacher

Agent Phone: 941-893-2208

Please return this completed and signed statement with your agreement.



AGREEMENT NO. 21-R076431BB

**TRAFFIC SIGNAL AND INTELLIGENT TRANSPORTATION
SYSTEMS MAINTENANCE**

between

**MANATEE COUNTY
(COUNTY)**

and

**SIEMENS MOBILITY, INC.
(CONTRACTOR)**

**AGREEMENT FOR TRAFFIC SIGNAL AND INTELLIGENT TRANSPORTATION
SYSTEMS MAINTENANCE**

THIS AGREEMENT is made and entered into as of this 8th day of June, 2021, by and between **MANATEE COUNTY**, a political subdivision of the State of Florida, (“**COUNTY**”), with offices located at 1112 Manatee Avenue West, Bradenton, Florida 34205 and **SIEMENS MOBILITY, INC.**, a Delaware Corporation, (“**CONTRACTOR**”), with offices located at 9225 Bee Caves Road, Austin, TX 78733, and duly authorized to conduct business in the State of Florida. **COUNTY** and **CONTRACTOR** are collectively referred to as the “Parties” and individually as “Party.”

WHEREAS, **CONTRACTOR** engages in the business of traffic signal and intelligent transportation systems maintenance services; and

WHEREAS, **COUNTY** has determined that it is necessary, expedient and in the best interest of **COUNTY** to retain **CONTRACTOR** to render the non-professional services described in this Agreement; and

WHEREAS, this Agreement is a result of **CONTRACTOR'S** submission of a bid in response to Invitation for Bid No. 21-R076431BB and **COUNTY** thereafter conducted a competitive selection process in accordance with the Manatee County Procurement Code.

NOW, THEREFORE, the **COUNTY** and **CONTRACTOR**, in consideration of the mutual covenants, promises, and representations contained herein, the sufficiency of which is hereby acknowledged, the Parties hereto agree as follows:

ARTICLE 1. SCOPE OF SERVICES

CONTRACTOR shall provide non-professional services as described in **Exhibit A**, Scope of Services (“Services”). “Task” as used in this Agreement, refers to particular categories/groupings of Services specified in **Exhibit A**.

ARTICLE 2. EXHIBITS INCORPORATED

This Agreement consists of a primary contract and four (4) exhibits, which are as follows:

Exhibit A, Scope of Services

Exhibit B, Fee Rate Schedule

Exhibit C, Affidavit of No Conflict

Exhibit D, Insurance Requirements and Contractor’s Insurance Statement

These Exhibits are attached hereto and are incorporated into this Agreement. In the event of a conflict between the terms and conditions provided in the Articles of this Agreement and any Exhibit, the provisions contained within these Articles shall prevail unless the Exhibit specifically states that it shall prevail.

ARTICLE 3. AGREEMENT TERM

- A. This Agreement shall commence on the date of execution by COUNTY (“Effective Date”). This Agreement shall remain in force through June 7, 2024 unless terminated by COUNTY pursuant to Article 8, but not to exceed three (3) years.
- B. COUNTY reserves the right to extend the initial term of three (3) years for an additional two (2) one-year periods.

ARTICLE 4. COMPENSATION

- A. CONTRACTOR shall be compensated for the Services and all expenditures incurred in providing the Services.
- B. The fee rates specified in **Exhibit B** shall be the total compensation for the Services and shall contain all applicable costs, to include salaries, office operation, transportation, equipment, overhead, general and administrative, incidental expenses, fringe benefits and operating margin.

ARTICLE 5. INVOICES AND TIME OF PAYMENT

- A. Subject to the provisions of this Agreement, COUNTY shall pay CONTRACTOR for the Services at a rate of compensation according to the deliverable payment schedule stated in **Exhibit B**.
- B. COUNTY shall approve of all invoices prior to payment.
- C. COUNTY shall have forty-five (45) days from the receipt of an invoice seeking payment of fees or costs to either pay the invoice, or notify CONTRACTOR that the deliverable, or any part thereof, is unacceptable.
- D. COUNTY shall have the right to retain from any payment due CONTRACTOR under this Agreement, an amount sufficient to satisfy any amount of liquidated damages due and owing to COUNTY by CONTRACTOR on any other Agreement between CONTRACTOR and COUNTY.
- E. All costs of providing the Services shall be the responsibility of CONTRACTOR.
- F. Any dispute between COUNTY and CONTRACTOR with regard to the Services or CONTRACTOR’S invoice shall be resolved pursuant to the dispute resolution procedures established by Manatee County Procurement Code and Article 12 of this Agreement.

ARTICLE 6. RESPONSIBILITIES OF CONTRACTOR

- A. CONTRACTOR shall appoint an Agent with respect to the Services to be performed by

CONTRACTOR pursuant to this Agreement. CONTRACTOR'S Agent shall have the authority to make representations on behalf of CONTRACTOR, receive information, and interpret and define the needs of CONTRACTOR and make decisions pertinent to the Services. CONTRACTOR'S Agent shall have the right to designate other employees of CONTRACTOR to serve in his or her absence. CONTRACTOR reserves the right to designate a different agent, provided that COUNTY is given advance written notice thereof.

- B. CONTRACTOR shall perform the Services in accordance with the terms and conditions of this Agreement.
- C. CONTRACTOR shall ensure that all employees assigned to render the Services are duly qualified, registered, licensed or certified to provide the Services required.
- D. CONTRACTOR shall be responsible for collecting all existing data required for the successful completion of each Task.
- E. CONTRACTOR shall not engage in any obligations, undertakings, contracts or professional obligations that create a conflict of interest, or even an appearance of a conflict of interest, with respect to the Services. CONTRACTOR attests to this via an Affidavit of No Conflict, **Exhibit C**.
- F. CONTRACTOR shall be entitled to rely upon information provided from COUNTY. Information may include, but is not limited to, additional services, consultations, investigations, and reports necessary for the execution of CONTRACTOR'S work under this Agreement. CONTRACTOR shall be fully responsible for verifying, to the extent practicable, documents and information provided by COUNTY and identifying any obvious deficiencies concerning the documents and information provided. CONTRACTOR shall notify COUNTY of any errors or deficiencies noted in such information provided and assist, to the extent practicable, COUNTY in the identification and resolution of same. CONTRACTOR agrees to incorporate the provisions of this paragraph in any subcontract into which it might enter with reference to the work performed under this Agreement.
- G. CONTRACTOR shall be responsible for the professional quality and technical accuracy of the Services and any other services furnished by CONTRACTOR under this Agreement. CONTRACTOR shall, without additional compensation, correct or revise any errors or deficiencies in the Services.
- H. CONTRACTOR shall maintain an adequate and competent staff of professionally qualified persons during the term of this Agreement for the purpose of rendering the required Services hereunder. CONTRACTOR shall not sublet, assign or transfer any Services without prior written consent of COUNTY.
- I. COUNTY may require in writing that CONTRACTOR remove from the Services any of CONTRACTOR'S personnel that COUNTY determines to be incompetent, careless or otherwise objectionable. No claims for an increase in compensation or agreement term based on COUNTY'S use of this provision will be valid.

- J. CONTRACTOR understands and agrees that this is a firm fixed price contract and that there shall be no allowances or reimbursement for any cost whatsoever except as otherwise explicitly provided in this Agreement. CONTRACTOR agrees to fulfill its obligations under this Agreement, regardless of cost, for the sole and sufficient compensation stated in Exhibit B with no expectation of additional compensation. COUNTY will not be obligated to pay CONTRACTOR any amount in excess of the firm fixed price specified in Exhibit B.

ARTICLE 7. RESPONSIBILITIES OF COUNTY

- A. COUNTY shall, through its County Administrator, appoint an individual to serve as County Representative. The County Representative shall have the authority to transmit instructions, receive information, interpret and define the policy of COUNTY and make decisions pertinent to the Services. COUNTY reserves the right to designate a different County Representative, provided that CONTRACTOR is given advance written notice thereof.
- B. COUNTY shall make available, at no cost to CONTRACTOR, information relative to the project that is useful in the performance of the Services.
- C. COUNTY shall provide prompt notice to CONTRACTOR whenever COUNTY observes or otherwise becomes aware of any defect in the performance of the Services.
- D. COUNTY shall give careful and reasonable consideration to the findings and recommendations of CONTRACTOR and shall respond and issue notices to proceed in a timely manner.
- E. COUNTY personnel shall be available on a time-permitting basis, where required and necessary to assist CONTRACTOR. The availability and necessity of said personnel to assist CONTRACTOR shall be at the discretion of COUNTY.
- F. COUNTY shall perform the responsibilities enumerated in this Article at no cost to CONTRACTOR.

ARTICLE 8. COUNTY OWNERSHIP OF WORK PRODUCT

The Parties agree that COUNTY shall have exclusive ownership of all reports, documents, designs, ideas, materials, reports, concepts, plans, creative works, and other work product developed for or provided to COUNTY in connection with this Agreement, and all patent rights, copyrights, trade secret rights and other intellectual property rights relating thereto (collectively “the Intellectual Property”). CONTRACTOR hereby assigns and transfers all rights in the Intellectual Property to COUNTY. CONTRACTOR further agrees to execute and deliver such assignments and other documents as COUNTY may later require to perfect, maintain and enforce COUNTY’S rights as sole owner of the Intellectual property, including all rights under patent and copyright law.

ARTICLE 9. TERMINATION OF AGREEMENT

- A. TERMINATION FOR CAUSE:

1. COUNTY shall have the right, by written notice to CONTRACTOR, to terminate this Agreement, in whole or in part, for failure to substantially comply with the terms and conditions of this Agreement, to include:
 - a. Failure to provide Services that comply with the specifications herein or that fail to meet COUNTY'S performance standards;
 - b. Failure to perform the Services within the time specified in this Agreement; or
 - c. Work that is at a rate that disrupts the overall performance of this Agreement.
2. Prior to termination for default, COUNTY shall provide adequate written notice to CONTRACTOR, affording CONTRACTOR the opportunity to cure the deficiencies or to submit a specific plan to resolve the deficiencies within ten (10) days (or the period specified in the notice) after receipt of the notice. Failure to adequately cure the deficiency shall result in termination action.
3. Such termination may also result in suspension or debarment of CONTRACTOR in accordance with Manatee County's Procurement Ordinance, Chapter 2-26. CONTRACTOR shall be liable for any damage to COUNTY resulting from CONTRACTOR'S default of the Agreement.
4. In the event of termination of this Agreement, CONTRACTOR shall be liable for any damage to COUNTY resulting from CONTRACTOR'S default of this Agreement. This liability includes any increased costs incurred by COUNTY in completing performance under this Agreement.
5. In the event of termination by COUNTY for any cause, CONTRACTOR shall not have any right or claim against COUNTY for lost profits or compensation for lost opportunities. After a receipt of COUNTY'S Notice of Termination and except as otherwise directed by COUNTY, CONTRACTOR shall:
 - a. Stop the Services on the date and to the extent specified;
 - b. Terminate and settle all orders and subcontracts relating to the performance of the terminated Services;
 - c. Transfer all work in process, completed work, and other materials related to the terminated Services as directed by COUNTY; and
 - d. Continue and complete all parts of the Services that have not been terminated.

B. TERMINATION WITHOUT CAUSE:

COUNTY may terminate this Agreement, in whole or in part, without cause. COUNTY shall provide CONTRACTOR a written "Notice of Intent to Terminate" thirty (30) days prior to the date of termination. If this Agreement is terminated by the COUNTY without cause, CONTRACTOR shall be entitled to payment for all Services performed to the satisfaction of the COUNTY and all expenses incurred under this Agreement prior to termination, less any costs, expenses or damages due to the failure of the CONTRACTOR to properly perform pursuant to this Agreement. CONTRACTOR shall not be entitled to any other compensation, including anticipated profits on unperformed Services.

ARTICLE 10. TRANSITION SERVICES UPON TERMINATION

Upon termination or expiration of this Agreement, CONTRACTOR shall cooperate with COUNTY to assist with the orderly transfer of the Services provided by CONTRACTOR to COUNTY. Prior to termination or expiration of this Agreement, COUNTY may require CONTRACTOR to perform and, if so required, CONTRACTOR shall perform, certain transition services necessary to shift the Services to another provider or to COUNTY itself as described below (the "Transition Services"). The Transition Services may include but shall not be limited to:

- A. Working with COUNTY to jointly develop a mutually agreed upon Transition Services plan to facilitate the termination of the Services;
- B. Executing the Transition Services plan activities;
- C. Answering questions regarding the Services on an as-needed basis; and
- D. Providing such other reasonable Services needed to effectuate an orderly transition to a new service provider or to COUNTY.

ARTICLE 11. DISPUTE RESOLUTION

- A. Disputes shall be resolved in accordance with the Manatee County Purchasing Code (Chapter 2-26 of the Manatee County Code of Ordinances). Any dispute resolution constituting a material change in this Agreement shall not be final until an amendment to this Agreement has been approved and executed by the County Procurement Official.
- B. CONTRACTOR agrees it must exhaust all dispute resolution procedures set forth in Manatee County's Procurement Code prior to instituting any action in state or federal court or before any administrative agency or tribunal.

ARTICLE 12. COMPLIANCE WITH LAWS

All Services rendered or performed by CONTRACTOR pursuant to the provisions of this Agreement shall be in compliance with all applicable local, state and federal laws and ordinances. CONTRACTOR shall have and keep current at all times during the term of this Agreement all licenses and permits as required by law.

ARTICLE 13. NON-DISCRIMINATION

CONTRACTOR shall not discriminate against any employee or applicant for employment because of race, color, sex, creed, national origin, disability or age, and will take affirmative action to ensure that all employees and applicants are afforded equal employment opportunities. Such action will be taken with reference to, but shall not be limited to, recruitment, employment, job assignment, promotion, upgrading, demotion, transfer, layoff or termination, rates of training or retraining (including apprenticeship and on-the-job training).

ARTICLE 14. MAINTENANCE OF RECORDS; AUDITS; LICENSES

- A. CONTRACTOR shall maintain records, accounts, property records, and personnel records in accordance with generally accepted accounting principles, as deemed necessary by

COUNTY to assure proper accounting of funds and compliance with the provisions of this Agreement.

- B. CONTRACTOR shall provide COUNTY all information, reports, records and documents required by this Agreement or by COUNTY ordinances, rules or procedures, or as needed by COUNTY to monitor and evaluate CONTRACTOR'S performance. Such materials shall also be made available to COUNTY upon request for auditing purposes. Inspection or copying will occur during normal business hours, and as often as COUNTY may deem necessary. COUNTY shall have the right to obtain and inspect any audit pertaining to the performance of this Agreement or CONTRACTOR made by any local, state or federal agency. To the extent such materials are in the possession of a third party, CONTRACTOR must obtain them from that third party, or certify in writing to COUNTY why it was unable to do so. CONTRACTOR shall retain all records and supporting documents related to this Agreement in accordance with all applicable laws, rules and regulations, and, at a minimum, retain all records and supporting documents related to this Agreement, except duplicate copies or drafts, for at least three (3) years after the termination date.
- C. CONTRACTOR shall obtain any licenses required to provide the Services and maintain full compliance with any licensure requirements. Copies of reports provided to or by any licensing or regulatory agency shall be forwarded to COUNTY within ten (10) days of receipt by CONTRACTOR. CONTRACTOR shall immediately notify COUNTY if the required licenses of any of its principles or agents working on this Agreement are terminated, suspended, revoked or are otherwise invalid and/or are no longer in good standing.

ARTICLE 15. PUBLIC RECORDS

Pursuant to Florida Statutes §119.0701, to the extent CONTRACTOR is performing services on behalf of COUNTY, CONTRACTOR shall:

- A. Keep and maintain public records that would ordinarily be required by COUNTY to perform the service.
- B. Upon request from COUNTY'S custodian of public records, provide COUNTY with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes, or as otherwise provided by law.
- C. Ensure that public records that are exempt or confidential from public records disclosure requirements are not disclosed except as authorized by law for the duration of this Agreement and following completion of this Agreement if CONTRACTOR does not transfer the records to COUNTY.
- D. Upon completion of this Agreement, transfer, at no cost, to COUNTY all public records in possession of CONTRACTOR or keep and maintain public records required by COUNTY to perform the service. If CONTRACTOR transfers all public records to COUNTY upon completion of this Agreement, CONTRACTOR shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If

CONTRACTOR keeps and maintains public records upon completion of this Agreement, CONTRACTOR shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to COUNTY, upon request from COUNTY'S custodian of public records, in a format that is compatible with the information technology systems of COUNTY.

IF CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO COUNTY'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT:

Phone: 941.742.5845

Email: Debbie.Scaccianoce@mymanatee.org

**Mail or hand delivery:
Attn: Records Manager
1112 Manatee Avenue West
Bradenton, FL 34205**

ARTICLE 16. INDEMNIFICATION

- A. Each Party shall defend, indemnify, save and hold harmless the other, its officers, employees and agents, from any and all third-party claims, liabilities, loss, or cause of action for property damage or bodily injury, including death, arising out of any negligent actions or omissions of the indemnifying Party, its agents, officers, employees or agents in the performance of this Agreement, including without limitation, defects in design, or errors or omissions that result in material cost increases to the indemnified Party. Such indemnification shall include, but not be limited to, the payment of all valid claims, losses, and judgements of any nature whatsoever in connection therewith and the payment of all related fees and costs, including attorneys' fees, incurred by the indemnified Party in connection with the indemnifying Party's activities arising out of the performance of this Agreement. This indemnification obligation shall not be construed to negate, abridge or reduce any other rights or remedies which otherwise may be available to an indemnified Party or person described in this paragraph or deemed to affect the rights, privileges and immunities of COUNTY as set forth in Section 768.28, Florida Statutes.
- B. CONTRACTOR will indemnify, defend, save and hold harmless the COUNTY, its officers, and employees all third-party claims, liabilities, loss, or cause of action that the Services constitutes an infringement of any third-party intellectual property right(s), unless such claim is based on COUNTY'S wrongful or illegitimate use of the Services. The foregoing states the entire liability of CONTRACTOR and the sole and exclusive remedy for COUNTY with respect to any third-party claim of infringement or misappropriation of intellectual property rights. Such indemnification shall include, but not be limited to, the payment of all valid claims, losses, and judgments of any nature whatsoever in connection therewith and the payment of all related fees and costs, including attorneys' fees.

ARTICLE 17. NO WAIVER OF SOVEREIGN IMMUNITY

Nothing herein shall be interpreted as a waiver by COUNTY of its rights, including the limitations of the waiver of immunity as set forth in Section 768.28, Florida Statutes, or any other applicable statutes or immunities. COUNTY expressly reserves these rights to the full extent allowed by law.

ARTICLE 18. INSURANCE

- A. CONTRACTOR shall, at its own cost and expense, acquire and maintain (and cause any subcontractors, representatives, or agents to acquire and maintain) insurance policies that comply with the Insurance Requirements, attached as **Exhibit D**, during the term of this Agreement, to include any renewal terms.
- B. Certificates of Insurance and copies of policies evidencing the insurance coverage specified in **Exhibit D** shall be filed with the Procurement Official before the Effective Date of this Agreement. The required certificates shall identify the type of policy, policy number, date of expiration, amount of coverage, companies affording coverage, shall refer specifically to the title of this Agreement, and shall name Manatee County as an additional insured. No changes shall be made to the insurance coverage without prior written approval by COUNTY'S Risk Management Division.
- C. Insurance shall remain in force for at least three (3) years after completion of the Services in the amounts and types of coverage as required by **Exhibit D**, including coverage for all Services completed under this Agreement.
- D. If the initial insurance expires prior to the termination of this Agreement, renewal Certificates of Insurance and required copies of policies shall be furnished by CONTRACTOR and delivered to the Procurement Official thirty (30) days prior to the date of their expiration.

ARTICLE 19. SOLICITATION OF AGREEMENT

CONTRACTOR warrants that it has not employed or retained any company or person other than a bona fide employee working solely for CONTRACTOR to solicit or secure this Agreement, and that it has not paid or agreed to pay any company or person other than an employee working solely for CONTRACTOR, any fee, commission, percentage, brokerage fee, gift, contingent fee, or any other consideration contingent upon or resulting from the award or making of this Agreement. For breach or violation of this warranty, COUNTY shall have the right to annul this Agreement without liability, or at its discretion, to deduct from this Agreement price or consideration or otherwise recover the full amount of such fee, commission, percentage, brokerage fee, gifts, or contingent fee.

ARTICLE 20. ASSIGNMENT AND SUBCONTRACTING

CONTRACTOR shall not assign or transfer any right or duty under this Agreement to any other Party without the prior written consent of COUNTY. In the event CONTRACTOR asserts it is necessary to utilize the services of third parties to perform any of the Services, CONTRACTOR shall first obtain prior written approval of COUNTY.

Approval to utilize any third party shall not relieve CONTRACTOR from any direct liability or responsibility to COUNTY pursuant to the provisions of this Agreement, or obligate COUNTY to make any payments other than payments due to CONTRACTOR as outlined in this Agreement. All terms and conditions of this Agreement shall extend to and be binding on any approved purchaser, assignee, or other successor in interest.

Assignment, pledging, sale, transfer or encumbering of any interest or rights under this Agreement, to anyone other than the CONTRACTOR, without the prior written consent of the COUNTY, shall be grounds for immediate termination of this Agreement.

ARTICLE 21. CERTIFICATION OF NON-PAYMENT OF COMMISSION OR GIFT

CONTRACTOR warrants that it has not employed or retained any company or person other than a bona fide employee working solely for CONTRACTOR to solicit or secure this Agreement, and that it has not paid or agreed to pay any company or person other than an employee working solely for CONTRACTOR, any fee, commission, percentage, brokerage fee, gift, contingent fee, or any other consideration contingent upon or resulting from the award or making of this Agreement. For breach or violation of this warranty, COUNTY shall have the right to annul this Agreement, without liability or at its discretion to deduct from the agreement price consideration or otherwise recover the full amount of such fee, commission, percentage, brokerage fee, gifts, or contingent fee.

ARTICLE 22. KEY PERSONNEL

The following key personnel shall be the COUNTY primary contacts assigned to this Agreement by CONTRACTOR:

William Tucker, Operations Manager

CONTRACTOR shall notify the COUNTY in writing within ten (10) business days of any changes to the key personnel.

ARTICLE 23. SUB-CONTRACTORS

If CONTRACTOR receives written approval from the COUNTY to use the services of a sub-contractor(s), CONTRACTOR shall utilize the fees specified in **Exhibit B** for any subcontractors utilized in the provision of the Services.

ARTICLE 24. LIABILITY FOR NEGLIGENCE.

To the fullest extent allowed by law, the individuals performing the Services pursuant to this Agreement shall be personally liable for negligent acts or omissions. To the fullest extent allowed by law, CONTRACTOR shall likewise be liable for negligent acts or omissions in the performance of the Services.

ARTICLE 25. NOTICES

All notices, requests and authorizations provided for herein shall be in writing and shall be delivered by hand or mailed through the U.S. Mail, addressed as follows:

To COUNTY: Manatee County Government
Traffic Operations Division
Attn: Traffic Operations Division Manager
2904 12th Street Court East
Bradenton, FL 34208
Phone: (941) 708-7509
Email: aaron.burkett@mymanatee.org

To CONTRACTOR: Siemens Mobility, Inc.
Attn: William Tucker, Operations Manager
9225 Bee Caves Road
Austin, TX 78733
Phone: (512) 837-8300
Email: william.tucker_jr@siemens.com

ARTICLE 26. RELATIONSHIP OF PARTIES

The relationship of CONTRACTOR to COUNTY shall be that of an independent contractor. Nothing herein contained shall be construed as vesting or delegating to CONTRACTOR or any of the officers, employees, personnel, agents, or sub-contractors of CONTRACTOR any rights, interest or status as an employee of COUNTY. COUNTY shall not be liable to any person, firm or corporation that is employed by Agreements or provides goods or services to CONTRACTOR in connection with this Agreement or for debts or claims accruing to such parties. CONTRACTOR shall promptly pay, discharge or take such action as may be necessary and reasonable to settle such debts or claims.

ARTICLE 27. NO CONFLICT

By accepting award of this Agreement, CONTRACTOR, which shall include its directors, officers and employees, represents that it presently has no interest in and shall acquire no interest in any business or activity which would conflict in any manner with the performance of duties or Services required hereunder.

ARTICLE 28. ETHICAL CONSIDERATIONS

CONTRACTOR recognizes that in rendering the Services, CONTRACTOR is working for the residents of Manatee County, Florida, subject to public observation, scrutiny and inquiry; and based upon said recognition CONTRACTOR shall, in all of its relationships with COUNTY pursuant to this Agreement, conduct itself in accordance with all of the recognized applicable ethical standards set by any related national societies, and the reasonable traditions to perform the Services. CONTRACTOR shall be truthful in its communications with COUNTY personnel regarding matters pertaining to this Agreement and the Services rendered to COUNTY.

ARTICLE 29. PUBLIC ENTITY CRIMES

CONTRACTOR has been made aware of the Florida Public Entity Crimes Act, Florida Statutes § 287.133, specifically section 2(a), and COUNTY'S requirement that CONTRACTOR comply with it in all respects prior to and during the term of this Agreement.

ARTICLE 30. TAXES

COUNTY is exempt from Federal Excise and State Sales Taxes (F.E.T. Exemption Certificate No. 59-78-0089K; FL Sales Tax Exemption Certificate No. 51-02-027548-53C). Therefore, CONTRACTOR is prohibited from charging or imposing any sales or service taxes. Nothing herein shall affect CONTRACTOR’S normal tax liability.

CONTRACTOR shall be responsible for payment of federal, state, and local taxes which may be imposed upon CONTRACTOR under applicable law to the extent that CONTRACTOR is responsible for the payment of same under applicable law.

ARTICLE 31. FORCE MAJEURE

Neither Party shall be considered in default in performance of its obligations hereunder to the extent that performance of such obligations or any of them is delayed or prevented by Force Majeure.

Force Majeure shall include, but not be limited to, hostility, revolution, civil commotion, strike, epidemic, accident, fire, flood, wind, earthquake, hurricane, explosion, lack of or failure of transportation facilities, any law, proclamation, regulation, ordinance or other act of government, or any act of God or any cause whether of the same or different nature, existing or future; provided that the cause, whether or not enumerated in this Article, is beyond the control and without the fault or negligence of the Party seeking relief under this Article.

ARTICLE 32. GOVERNING LAW, JURISDICTION AND VENUE

This Agreement shall be governed by the laws of the State of Florida. Any action filed regarding this Agreement will be filed only in Manatee County, Florida, or if in Federal Court, the Middle District of Florida, Tampa Division.

ARTICLE 33. ATTORNEY FEES

In the event of any litigation arising under the terms of this Agreement, each Party shall be responsible for their own attorney's fees, including appellate fees, regardless of the outcome of the litigation.

ARTICLE 34. PATENT AND COPYRIGHT RESPONSIBILITY

Any material or design specified by CONTRACTOR or supplied by CONTRACTOR pursuant to this Agreement shall not knowingly infringe any patent or copyright, and CONTRACTOR shall be solely responsible for securing any necessary licenses required for patented or copyrighted material utilized by CONTRACTOR in the performance of the Services.

ARTICLE 35. AMENDMENTS

This Agreement and Exhibits referenced herein constitute the entire Agreement between the Parties with respect to subject matter and mutually agree that no verbal agreements, representations, warranties or other understandings affecting the same exist. No amendment hereof shall be effective until and unless reduced to writing and executed by the Parties. The Parties shall execute any additional documents as may be necessary to implement and carry out the intent of this Agreement.

ARTICLE 36. SEVERABILITY

It is understood and agreed by the Parties hereto that if any part, term, or provision of this Agreement is held to be illegal or in conflict with any law, the validity of the remaining portions or provisions shall not be affected, and the rights and obligations of the Parties shall be construed and enforced as if this Agreement did not contain the particular part, term or provision held to be invalid.

ARTICLE 37. LEGAL REFERENCES

All references to statutory sections or chapters shall be construed to include subsequent amendments to such provisions, and to refer to the successor provision of any such provision. References to “applicable law” and “general law” shall be construed to include provisions of local, state and federal law, whether established by legislative action, administrative rule or regulation, or judicial decision.

ARTICLE 38. HEADINGS, CONSTRUCTION

The Parties agree that they have each participated in the drafting of this Agreement and that the rules with respect to construing ambiguities against the drafter of a contract shall not apply in any action or litigation regarding this Agreement. All articles and descriptive headings of paragraphs of this Agreement are inserted for convenience only and shall not affect the construction or interpretation hereof.

ARTICLE 39. TIME

For purposes of computing any period of number of days hereunder for notices or performance of ten (10) days or less, Saturdays, Sundays and holidays shall be excluded, unless otherwise stated.

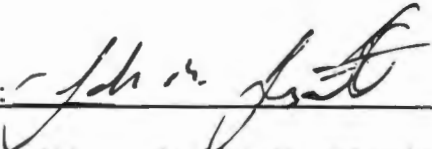
ARTICLE 40. AUTHORITY TO EXECUTE

Each of the Parties hereto covenants to the other Party that it has lawful authority to enter into this Agreement.

[Remainder of page intentionally left blank]

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be duly executed effective as of the date set forth above.

SIEMENS MOBILITY, INC.

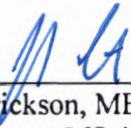
By: 

Printed Name: Joshua M. Lippincott

Title: Service Account Manager

Date: 5/19/2021

**MANATEE COUNTY, a political subdivision
of the State of Florida**



Jacob Erickson, MBA, CPPO, NIGP-CPP
Procurement Official

Date: June 8, 2021

EXHIBITS

EXHIBIT A, SCOPE OF SERVICES

A.1 SCOPE

CONTRACTOR shall furnish all necessary labor, tools, licensing, certifications, transportation, materials, cleaning solutions, equipment, incidentals, and vehicles and facilities for transportation of all materials necessary to repair, construct, and maintain the COUNTY'S traffic signals, highway lighting, and Intelligent Transportation Systems (ITS). This includes, but is not limited to, signalization electrical and electronic equipment, hardware, structural supports, power service assemblies, pull boxes, cabling, conduit, protective devices, control devices, lighting, battery backup units, detection devices, and ITS components.

A.2 CONTRACTOR'S RESPONSIBILITIES AND REQUIREMENTS

A. GENERAL REQUIREMENTS

CONTRACTOR shall:

1. Provide as-needed maintenance, installation, construction, and repair services for traffic signals, highway lighting, ITS, and other related devices ("Services").
2. Provide the Services during normal working hours. Normal working hours for the COUNTY'S Traffic Operations Division are 7:00 A.M. to 3:30 P.M., Monday through Friday, excluding COUNTY holidays. If CONTRACTOR desires to work outside of the normal working hours, CONTRACTOR shall get prior approval from COUNTY. All requests shall be made forty-eight (48) hours prior to the planned work schedule.
3. Provide the Services as directed by COUNTY. Not all tasks to be performed are included in Exhibit B, Fee Rate Schedule. COUNTY reserves the right to add, delete, and revise Line Items listed in Exhibit B, Fee Rate Schedule.
4. Provide all Services in accordance with the current editions of the following published documents: Manatee County Traffic Design Standards; Florida Department of Transportation (FDOT) Design Standards; Manual on Uniform Traffic Control Devices (MUTCD); FDOT Minimum Specifications for Traffic Control Signals and Devices (MSTCSD); National Electric Code (NEC); and National Electrical Safety Code (NESC).
5. Provide all Services in compliance with the regulations and requirements of the Public Service Commission (PSC) and all other applicable laws, rules, and ordinances.
6. Provide products that are listed in the FDOT Approved Products List (APL) and Qualified Products List (QPL), unless otherwise indicated and approved by COUNTY.
7. Ensure that all equipment repairs conform to all applicable laws and safety requirements and are equipped with warning lights in accordance with 8-4.1 of the Standard Specifications.

8. Adhere to the requirements of 29 CFR, Part 1910, OSHA and the American National Standard Safety Code for Crawler, Locomotive, and Truck Cranes, ANSI A29.2 1969, B30.5 1968, and A92.2 1969 for items relating to lifting devices such as cranes.
9. Refer to the Manatee County Traffic Design Standards for additional details regarding material, installation, and repair requirements.
10. Provide all Services in accordance with the standards established in the FDOT Maintenance Rating Program.
11. Ensure that all lane closures are preapproved by COUNTY and are in accordance with FDOT Standard Specifications. CONTRACTOR shall not occupy any portion of the roadway during peak traffic periods as may be established by COUNTY. The only exception is an emergency.
12. Provide the replacement of infrastructure (e.g. light poles) damaged by traffic crashes or natural causes within seven (7) calendar days from the date the Release Order is issued. In cases where shop drawings are required, CONTRACTOR shall expedite the preparation of the drawings and the ordering of the material to avoid any delays in the infrastructure's replacement. CONTRACTOR shall take immediate action to protect the safety of the public by removing any elements that may cause a hazard. Services also include the removal and/or proper disposal of the damaged parts and debris; wiring/rewiring; and providing all hardware, splices, and related parts necessary to make a complete replacement installation.
13. Ensure that all non-emergency Services are started within fourteen (14) calendar days from the date the Release Order is issued, unless otherwise agreed to by COUNTY. CONTRACTOR shall start work on all non-emergency projects/tasks within fourteen (14) calendar days from the date the Release Order is issued, unless otherwise agreed to by COUNTY.
14. Ensure that all emergency Services are started within two (2) hours of work order authorization/notification from COUNTY, unless otherwise agreed to by COUNTY. CONTRACTOR shall be onsite and ready to perform the work, with all material and equipment needed to perform the work, within two (2) hours of work order authorization/notification from COUNTY.
15. Maintain all material and equipment storage sites outside the Right-of-Way (ROW) limits on any state or COUNTY maintained roadway. Materials may be temporarily stored on the ROW, except for medians, for a period not to exceed twenty-four (24) hours, with prior approval from COUNTY. Materials stored along the roadway shall be placed so as not to intrude into the clear recovery area, cause an unsafe condition, or to cause any inconvenience to the public. COUNTY will not be held liable for any damages, incidents, or accidents that may occur as a result of storing material within the ROW.
16. Keep all new parts unopened and in their original containers until the time of installation.

17. Expedite the submittal of shop drawings for COUNTY approval to avoid any delays in completion of the Services.
18. Ask questions and receive responses from COUNTY concerning interpretation, clarification, or additional information pertaining to projects/tasks before beginning any work. CONTRACTOR shall have a full understanding of all projects/tasks before beginning work.
19. Install and replace all parts as originally designed by the manufacturer or by an alternate method with prior approval from COUNTY.
20. Ensure that any substitutions for replacement of existing damaged equipment are both functionally and aesthetically compatible with the existing components and are preapproved, in writing, by COUNTY.
21. Immediately report to COUNTY any fatalities or serious injuries to its employees or members of the public.
22. Immediately report to COUNTY any damage of more than \$500.00 to COUNTY property or property adjacent to the work-site resulting from an employee accident during the performance of the work.
23. Provide certification that confirms employees are trained in all appropriate safety practices contained within Section 29, Part 1910.333 of the Code of Federal Regulations (CFR) Occupational Safety and Health Administration (OSHA) relating to 'Lock-out, Tag-out' procedures prior to an employee being assigned to perform work under this Agreement and ensure employees apply these practices to the provision of the Services to COUNTY.
24. Ensure that all Maintenance of Traffic (MOT) certifications are current and provide proof of training upon request.
25. Ensure that all employees are trained in safe operation of the equipment necessary to do the work required under this Agreement. COUNTY shall have the authority to remove from the job site any of CONTRACTOR'S employees acting in a manner as to endanger the safety of CONTRACTOR'S employees, COUNTY'S employees, or that of the public.
26. Ensure the crew foreman and the foreman assistant are knowledgeable, experienced, and trained in the maintenance and repair of ITS.
27. Ensure and adhere to the following:
 - a. Preserve from damage on all existing property within the project limits of, or in any way affected by the work, the removal or destruction of which is not specified by COUNTY. This applies, but is not limited to public and private property, public and private utilities, trees, shrubs, crops, sod, signs, monuments, fences, guardrail, pipe and underground structures, ITS facilities, traffic control signals and devices, highway

- lighting, and public highways (except natural wear and tear of highway resulting from legitimate use thereof by CONTRACTOR).
- b. COUNTY underground facility locations shown in the plans are approximate. Unless otherwise shown in the plans, COUNTY underground facilities will be located by COUNTY through notification to "Sunshine 811".
 - c. Whenever CONTRACTOR'S activities damage such existing property, immediately restore it to a condition equal to or better than that existing at the time such damage occurred, at no expense to COUNTY.
 - d. Temporary repairs may be used to immediately restore ITS facilities and traffic control signals and devices. Permanent repairs to ITS facilities and traffic control signals and devices shall be made within ninety (90) calendar days of any temporary repairs and prior to final acceptance of the project. Submit permanent ITS facility repair plans to COUNTY prior to beginning repair work.

B. EMERGENCY SERVICES REQUIREMENTS

CONTRACTOR shall:

1. Provide emergency Services for emergency events, storms, incidents, and accidents that require short and long term remediation and restoration efforts to repair various traffic control devices. Emergency Services may include long term traffic signal and sign repair, removal of downed poles or mast arms impeding or otherwise threatening the safe use of the public right of way, and the repair of the electrical system in a way that prevents electrical shock to any individuals who come in contact.
2. Ensure twenty-four (24) hours per day and seven (7) days per week availability for emergency Services; this includes all hours outside of normal working hours, holidays, and weekends.
3. Respond to COUNTY within fifteen (15) minutes of being contacted by COUNTY via phone or email.
4. Report to the emergency work site location or locations within two (2) hours of receiving work order authorization/notification from COUNTY. CONTRACTOR shall be onsite and ready to perform the work, with all material and equipment needed to perform the work, within two (2) hours of receiving work order authorization/notification from COUNTY.
5. Provide an Emergency Contact Technician to receive and respond to verbal and written work requests from COUNTY as follows:
 - a. The Emergency Contact Technician shall be available twenty-four (24) hours per day and seven (7) days per week, including all hours outside of normal working hours, holidays, and weekends.
 - b. The Emergency Contact Technician shall be available to meet with COUNTY as-needed and shall respond to COUNTY within fifteen (15) minutes of being contacted via phone or email.

- c. CONTRACTOR shall immediately notify COUNTY of any changes to the Emergency Contact Technician such as a new technician or replacement technician, phone number, email address, etc.
- d. CONTRACTOR shall require that their Emergency Contact Technician be continuously available twenty-four (24) hours per day and seven (7) days per week, including all hours outside of normal working hours, holidays, and weekends, for direction from COUNTY via cellular telephone, electronic paging device, email, or other methods approved in advance by COUNTY.

C. EMERGENCY, PRIORITY, AND ROUTINE FAILURES

CONTRACTOR shall provide Emergency, Priority, and Routine Services within the required response times as follows:

- 1. Emergency Failures are failures that represent an immediate risk to the public, failures that cause a closure of the public travel-ways, or failures to the communications network that render the Advanced Traffic Management System inoperable.
 - a. Upon notification of an Emergency Failure from COUNTY, CONTRACTOR shall respond and complete repairs or eliminate the instant danger within four (4) hours of the reported incident. The notification from COUNTY may be verbally by telephone, email, facsimile, or text message.
- 2. Priority Failures are failures of individual components or systems that are adversely affecting the proper operation and full functionality of the signal, lighting system or ITS device.
 - a. Upon notification of a Priority Failure from COUNTY, CONTRACTOR shall respond and complete repairs or restore proper operation within twenty-four (24) hours of the reported incident. The notification from COUNTY may be verbally by telephone, written letter, system report, email, facsimile, text message, or through the daily/weekly maintenance check.
- 3. Routine Failures are failures that, while requiring attention, are not adversely affecting the immediate operation of the signal, lighting system or ITS device.
 - a. Upon notification of a Routine Failure from COUNTY, CONTRACTOR shall respond and complete repairs within seven (7) calendar days of the reported incident, or a longer timeframe as approved by COUNTY. The notification from COUNTY may be verbally by telephone, written letter, system report, email, facsimile, text message, or through the daily/weekly maintenance check.

D. TESTING AND INSPECTIONS

Upon completion, all work is subject to inspection by COUNTY prior to payment of invoice. No work shall be performed, nor materials used, without prior authorization by COUNTY. COUNTY shall have the authority to review and approve material submittals and perform verification tests.

COUNTY shall have the authority to reject materials or suspend work at any time until any questions at issue can be resolved through the hierarchy of authority. All issues will be resolved as expeditiously as possible.

E. MAINTENANCE OF TRAFFIC

The term Traffic Control Plan (TCP) includes Maintenance of Traffic (MOT) Plan and are intended to be synonymous for the Maintenance of Traffic.

CONTRACTOR shall provide, install, and maintain traffic devices according to the FDOT Design Standards Index 600 series, latest edition, and applicable laws and ordinances. The traffic control shall provide a safe work zone and safe flow of traffic in and through the project site. CONTRACTOR shall maintain all traffic control devices required for the work. CONTRACTOR shall remove maintenance of traffic devices when no longer required at no additional cost to COUNTY.

When a lane and/or road closure is required, CONTRACTOR shall submit a completed TCP to include details of the lane closure to COUNTY for approval at least ten (10) calendar days before the date of the proposed closure. No closures shall be implemented without COUNTY approval. CONTRACTOR shall be responsible for notifying FDOT and obtaining any required right-of-way permits for lane closures or road closures.

F. EMERGENCIES AT WORK SITE

In the event of an emergency, CONTRACTOR shall immediately take appropriate action to notify emergency services as needed. CONTRACTOR shall inform COUNTY within twenty-four (24) hours of any incident or accident which occurs while in transit to and from work location or while performing work.

G. PROJECT SCHEDULES

COUNTY may assign an order of priority to projects. CONTRACTOR shall use the priorities given by COUNTY when developing a schedule.

H. MOBILIZATION

Mobilization includes flag persons, cones, signs, and temporary maintenance. Only one (1) line item/lump sum fee is permitted for mobilization per each Release Order. Multiple line items/fees for mobilization per each Release Order will not be accepted by COUNTY. CONTRACTOR shall combine all mobilization fees together for one (1) line item having one (1) lump sum fee per each Release Order.

I. WORK AREA CLEAN-UP REQUIREMENTS

CONTRACTOR shall ensure and adhere to the following:

1. During the progress of the work, CONTRACTOR shall keep the premises and maintained travel lanes free from accumulations of waste, discarded or surplus material, rubbish and other debris or contaminates resulting from the work.

2. Following completion of the work, CONTRACTOR shall remove all waste material, rubbish, and debris from and about the premises as well as all tools, appliances, construction equipment, machinery, and surplus material. CONTRACTOR shall leave the site clean and ready for occupancy by COUNTY at substantial completion of the work.
3. CONTRACTOR shall take all measures necessary to protect surrounding public and private property, adjacent buildings, roads, drives, sidewalks, drains, sewers, utilities, trees, mail boxes, landscaping, structures, poles, and appurtenances from damage due to work. Responsibility and payment for correction of such damage is the sole responsibility of CONTRACTOR.

J. MATERIALS

CONTRACTOR shall provide, to the COUNTY, immediately upon delivery or as soon thereafter as is practical, copies of all delivery tickets and/or invoices for all material and equipment to be used for each project.

K. SAFETY – UTILITY COORDINATION

CONTRACTOR is responsible for providing for the safety of all CONTRACTOR’S and subcontractor’s employees at the work site.

CONTRACTOR is required to comply with Florida Statute (F.S.), Chapter 556, Underground Facility Damage Prevention and Safety Act. CONTRACTOR is responsible for contacting Sunshine State One-Call of Florida, Inc., at 1-800-432-4770 or www.callsunshine.com, no less than two (2) business days, forty-eight (48) hours, and no more than five (5) business days before beginning any excavation, CONTRACTOR shall provide notification according to the procedures of the F.S. Chapter 556.

L. CONTAMINATION

Any equipment that is leaking fuel, lubricant, coolant, hydraulic fluid, or any other hazardous material shall immediately be repaired by CONTRACTOR to stop the leak.

CONTRACTOR shall clean up and dispose of any leaked fluids according to all applicable laws, ordinances, rules, and regulations within twenty-four (24) hours of occurrence. All repairs, removal, clean-up and/or disposal shall be at no cost to COUNTY.

M. PERMITS/ FEES/ REGULATIONS

CONTRACTOR is required to give all necessary notices, obtain all permits and inspections, and pay all costs in connection with the work.

CONTRACTOR shall assure compliance with all OSHA; EPA; and/or federal, state, and local rules and regulations. Any conflicts between the specifications and compliance with rules and regulations shall be brought to the attention of COUNTY and resolved before the work is to continue.

A.3 COUNTY RESPONSIBILITIES

COUNTY shall provide CONTRACTOR with a listing of all locations and identification numbers of the devices covered under this Agreement prior to commencement of Services.

A.4 METHOD OF PAYMENT

The Services specified herein will be paid for in accordance with the Work Tasks/Pay Items listed in this Scope in Section A.5 and the Line Items listed in Exhibit B, Fee Rate Schedule, and shall be full compensation for all labor, equipment, tools, incidentals, including installation and tests as required, and any necessary vehicles and facilities necessary to facilitate the tasks described. No payment will be made until appropriate inspections and/or tests of the work have been completed.

A.5 WORK TASKS / PAY ITEMS

A. ITEM NO. 630-2-AB / CONDUIT / LINEAR FEET (LF)

A = Operation

1 - Furnish & Install

B = Installation Method

1 (open trench) Underground

2 (Directional Bore) Underground or Under pavement

3 (Jack & Bore) Typically under railroad

4 (Aboveground)

5 (Bridge Mount)

1. Payment for these items will be full compensation for all locating work, trenching, backfilling, bends, anchors, connections miscellaneous materials, surface restoration, labor and equipment required to construct a new conduit run, as approved by COUNTY.
2. The conduit trench surface shall be stabilized and restored by CONTRACTOR to a maintenance free condition as part of this item.
3. MEASUREMENT – TRENCH or BORE: Measurement is for the straight line HORIZONTAL DISTANCE of the trench or bore, from pull box to pull box, with no allowance for sweeps or vertical distance. No additional payment will be made for multiple runs of conduit within a trench or bore.
4. MEASUREMENT – ABOVEGROUND or BRIDGE MOUNT: Measurement will be for the actual length of conduit used.
5. Aboveground conduit shall be measured by CONTRACTOR, sketched and documented for submission to COUNTY for payment. Payment will be based on the actual linear feet installed.
6. Grounding for all metal conduit runs is included as an incidental cost under the conduit pay items.

B. ITEM NO. 632-7-A / SIGNAL CABLE / MIXED

A = Operation

- 1 (New or Reconstructed Intersection- Furnish & Install) PI
- 2 (Repair, Replacement, and other operations- Furnish & Install) LF
- 4 (Adjust/Modify) PI
- 6 (Remove- Intersection) PI
- 7 (Remove- Outside of Intersection) LF

1. This pay item is for traffic signals and traffic control devices only.
2. Includes cable, support wire, cable ties, cable clamps, lashing wire, terminal connectors and cable grounding, within the normal limits of the intersection. May include total intersection replacement, and/or pedestrian signals, as noted in the plans.
3. For New or Reconstructed Intersections, use the per Intersection pay item. This includes intersections where new poles are installed/relocated. Includes all lashing wire and tie wraps for span wire installations.
4. For Repairs/Replacement/Other operations where new signal cable is needed, use the linear foot pay item. This includes non-intersection school zone signals, adding a signal head to an existing mast arm or span wire, or signal cables outside of an intersection.
5. REMOVE: Payment includes all signal cable per intersection or per LF for other applications, such as between a controller and flashing beacon sign(s). Detail quantity/location in the plans.

C. ITEM NO. 634-4-ABC / SPAN WIRE ASSEMBLY / PER INTERSECTION (PI)

A = Operation

- 1 (Furnish & Install)
- 3 (Install), NOT USED
- 4 (Adjust) BC=00, NOT USED
- 5 (Replace), for maintenance activities
- 6 (Remove, poles to remain) NOT USED
- 7 Re tension

B = Attachment Type

- 4 (Single Point)
- 5 (Two Point)

C = Type Span

- 1 (Perpendicular)
- 2 (Diagonal) see details above; flashing beacon installations only
- 3 (Box or Drop Box)
- 4 (Other) NOT USED

1. This pay item is for permanent traffic signals and traffic control devices only.
2. Use the two point attachment type pay items as applicable. Perpendicular spans, box spans or drop box spans shall be used for all signal span wire assemblies. For new construction, diagonal span assemblies shall only be used for flashing beacon installations.
3. Other Span Type: Do not use for perpendicular, box, or diagonal spans. Complete plan details are required.
4. Install span wire in accordance with FDOT Design Standards.
5. OPERATIONS:
 - a. ADJUST: NOT TO BE USED FOR MOT or Temporary Signals. Adjust existing Span Wires, as detailed in the plans.
 - b. REMOVE: Payment per intersection includes removing the span wire, messenger wire, and all miscellaneous materials supporting the traffic signals, signs, and other traffic control devices.
 - c. REMOVE: When the poles are to be removed, "all attachments" are included with the removal cost; NO SEPARATE PAYMENT for removal of span wire.

D. ITEM NO. 635-2-AB / PULL & SPLICE BOX / EACH (EA)

A = Operation

1 (Furnish & Install)

3 (Install) B=0; item furnished by COUNTY

4 (Relocate) B=0; see detail

5 (Repair) maintenance use only

B = Cover Size; minimum depth per specification

1 (13 x 24) standard size

2 (17 x 30) large size

3 (30" X 60" rectangular) splice vault

1. Use in accordance with Section 635 of the FDOT Standard Specifications.
2. DIMENSIONS: For traffic signal applications, use spec size B=1[a]. For fiber optic cable applications, the spec calls for size B=2. All other sizes use spec B=0, COUNTY will furnish.
3. INSTALL (A=3): Item furnished by maintaining agency.
4. RELOCATE (A=4): Depending on the type of box, current condition, and the extent of the relocation, replacement versus relocation should be considered.
5. REPAIR: To include full replacement of box to include lid.

E. ITEM NO. 639-1-ABC / ELECTRICAL POWER SERVICE / ASSEMBLY (AS)

A = Operation

1 (Furnish & Install)

4 (Relocate) C=0

6 (Remove) C=0

B = Type of Service

1 (Overhead)

2 (Underground)

C = Meter Base

1 (Furnished by Power Company)

2 (Purchased by CONTRACTOR)

3 (Provided by COUNTY)

1. This pay item is for electrical power services for signals, lighting, ITS, and other roadway applications.
2. Installations shall adhere to FDOT Standard Specifications and Design Index 17736, Figure 'B'. Grounding is incidental to power service.
3. Unless otherwise specified all new/rebuild electrical power service assemblies shall be mounted on a separate 12ft, Class P-II, pre-stressed concrete pole.
4. Payment for the following items will be for a complete electrical power service assembly to include support poles, conduit, wiring, meter can, circuit breakers, breaker panels and enclosures, and all other associated electrical power service equipment and assembly components.
5. The pay items provided may make no distinction in voltage or amperage rating.
6. The pay item structure provides for the installation, repair, relocation or removal of complete power services assemblies and should not be used as a basis for paying for individual components of an electrical power service.

F. ITEM NO. 639-2-A / ELECTRICAL SERVICE WIRE / LINEAR FEET (LF)

A = Operation

1 (Furnish & Install)

4 (Relocate)

1. This pay item is for signals, lighting, ITS, and other roadway applications.
2. MEASUREMENT: Payment is per length of complete wire run (all conductors included), not per each conductor.

G. ITEM NO. 639-4-A / EMERGENCY (PORTABLE) GENERATOR/HOUSING / MIXED (MX)

A = Operation

1 (Furnish & Install) (Generator) EA for Emergency /Pre-Event contracts only

3 (Install) (Generator) EA. For Emergency /Pre-Event contracts only

4 (Install) EA, NOT USED

5 (Monitor and Refuel) (Generator) HR; For Emergency /Pre-Event contracts only

6 (Install) (Generator Housing Only) EA; housing furnished by COUNTY

1. This Mixed pay item is for installation of generators and generator housings for traffic signals.
2. Pay Item includes installation, refueling and monitoring of portable inverter/ generators to provide emergency response back-up power to traffic signals.
3. Pay item includes the installation of generator housings to include concrete foundation, conduit, bonding and grounding, and electrical conductors.
4. Coordinate procurement of the generator AND generator housing with COUNTY prior to purchase or use.
5. INSTALL: Coordinate the use of this pay item with COUNTY, to ensure the availability of generators, location for deployment, to review security measures for generator and instructions for returning the unit to COUNTY upon completion of assignment.
6. Pay item includes installation and operation of a portable inverter/ generator within existing portable generator housings for the purposes of providing emergency backup power to traffic signals.
7. MONITOR & REFUEL: This pay item includes monitoring and refueling of portable generators every 6 hours. Fuel to be included in payment for hourly rate. (No separate payment for fuel.)
8. INSTALL GENERATOR HOUSING ONLY: This pay item is for the installation of a generator housing only to include concrete foundation, conduit, bonding and grounding, and electrical conductors. Housing to be provided by COUNTY.

H. ITEM NO. 641-2-AB / PRESTRESSED CONCRETE POLE / EACH (EA)

A = Operation

1 (Furnish & Install)

3 (Install) B=0

6 (Complete/Deep Removal- Pedestal/Service Pole) B=0,

7 (Shallow Removal- Poles 30' and greater) B=0,

8 (Complete/Deep Removal- Poles 30' and greater) B=0,

B = Pole Type (defined in Design Standards)

1 (Type P-II Pedestal)

2 (Type P-II Service Pole)

3 (Type P-III)

4 (Type P-IV)

5 (Type P-V)

6 (Type P-VI)

7 (Type P-VII)

8 (Type P-VIII)

9 (Custom Design) * NOT USED

1. This pay item is for traffic signals and traffic control devices only.
2. Pole description, including the type, height, and other details will be provided by COUNTY upon issuance of Release Order.
3. This item is used as detailed on FDOT index 17725 and Index 17764 (pedestrian pedestal). Poles shall be on the FDOT QPL.
4. REMOVE: Includes the removal of pole, foundation, and any attachments (Vehicular Signal, Pedestrian Signal, Pedestrian Detector, span wire, or other). No separate payment for removal of attachments when removed with the pole. Items removed from the pole shall be returned to COUNTY.
5. Shallow pole removal= depth of 4 feet.
6. Deep pole removal= complete removal.
7. B=9 (Custom Design): For use ONLY when design standard index does NOT apply.
8. Designer shall show complete dimensions for pole. Supporting calculations shall be completed for intended signals application. Review specification requirements to determine if notes or modified specs are needed. Payment will be for the installation of frangible street light base to include the base, attachments, bolts and washers as per plans and standard indexes.

I. ITEM NO. 643-ABB / STRAIN POLE, WOOD / EACH (EA)

A = Operation

1 (Furnish & Install)

3 (Install) furnished by COUNTY

4 (Relocate)

6 (Remove) BB=00

BB = Pole Length (Specified In 5' Increments Only)

1. This pay item is for traffic signals and traffic control devices only.
2. Guying of all wood pole installations considered incidental.
3. REMOVE: All wood poles are to be removed completely. Payment includes the removal of all attachments.

J. ITEM NO. 646-1-AB / ALUMINUM SIGNALS POLE / EACH (EA)

A = Operation

1 (Furnish & Install)

3 (Install) B=0

4 (Relocate) B=0

6 (Remove) B=0

B = Pole Type

1 (Pedestal)

2 (Pedestrian Detector Post)

1. To be used in accordance with FDOT Design Standards, Index Nos. 17764 and 17784.
2. INSTALL: The install operation should only be used when the item is furnished by COUNTY for installation by CONTRACTOR.
3. REMOVE: The removal of the foundation is included with the removal of the pedestal, unless otherwise noted. All attachments are included with the removal of the pole (pedestrian detector, pedestrian signal, etc.) all equipment and material removed shall be returned to COUNTY.

K. ITEM NO. 649-3A-BCC / STEEL MAST ARM ASSEMBLY / EACH (EA)

A = Operation

1 (Furnish & Install)

3 (Install) BCC=000

4 (Relocate) BCC=000

6 (Remove) see remove options below, effective January 2015

8 (Repair) BCC=000

B = Wind Speed

2 (130 with signal back plates, COUNTY)

B = Remove Options

1 (Pole Only, entire foundation remains) CC=00

3 (Shallow, Bolt on attachment) CC=00

5 (Deep, Bolt on attachment) CC=00

CC = Arm Length(s)

For Single Arms

01 (36)

02 (46)

03 (60)

04 (70.5)

05 (78)

06 (36 w/ Luminaire)

07 (46 w/ Luminaire)

08 (60 w/ Luminaire)

09 (70.5 w/ Luminaire)

For Double Arm w/o Luminaire

10 (36-36)

11 (36-46)

12 (36-60)

13 (36-70.5)

14 (46-46)

15 (46-60)

16 (46-70.5)

17 (60-60)

18 (60-70.5)

19 (70.5-70.5)

Custom/Non-Standard Arm Combinations

99= (Custom) B=9, see details below

1. This pay item is for traffic signals and traffic control devices only.
2. Supports emergency removal of damaged mast arm assemblies and result of vehicle accidents for force majeure.
3. Refer to the FDOT PPM (Plans Preparation Manual) for current FDOT Policy on the use of Mast Arms.
4. Pole description, including the type, height, and other details shall be included in the signal plans. Payment includes foundation, as well as all incidentals, per specifications.
5. When "w/ Luminaire" is used, COUNTY will provide detail luminaire requirements in the plans.
6. Double Arm with luminaire requires special design (CC=99); not covered by design standard index. Complete calculations are required.
7. BCC=999 (Custom) to be used only when wind loads, specifications and/or standards do not apply, due to significant design changes. Complete design calculations, including wind loads, are required in the plans.

8. When street name signs are to be located on a signals mast arm, COUNTY will provide the detailed information to include sign (size, shape, letters, etc.) in the SIGNING plans.
9. REMOVE: Includes the removal of the foundation, as well as any attachments (vehicular/pedestrian signals, pedestrian detector, lighting, etc.).

L. ITEM NO. 650-1-AB / VEHICULAR TRAFFIC SIGNAL / ASSEMBLY (AS)

A = Operation

- 1 (Furnish & Install- Aluminum)*
 - 2 (Furnish & Install- Polycarbonate with Aluminum Top Section)*
 - 3 (Furnish & Install- Polycarbonate)*
 - 4 (Furnish & Install- Programmable)*
 - 5 (Install) B=0 Signal furnished by COUNTY
 - 6 (Remove- Poles to Remain) B=0
 - 7 (Relocate) B=0. DO NOT USE for MOT activities
- *NOT to be used for adding a section to an existing assembly; see pay item 650-2 for adding sections.

B = Sections, Ways

- 1 (1 Section, 1 way)
- 2 (1 Section, 2-4 ways)
- 3 (2 Section, 1-2 ways)
- 4 (3 Section, 1 way)
- 5 (3 Section 2-4 ways)
- 6 (4 Section, 1 way)
- 7 (4 Section, 2-4 ways)
- 8 (5 Section- straight, 1 way)
- 9 (5 Section-cluster, 1 way)

1. Pay item includes standard traffic signal with LED indications, back plates, visors, and all other materials necessary for a complete installation.
2. INSTALL only: material to be furnished by COUNTY.
3. REMOVE: No separate payment for signal head removal when the poles are to be removed.
4. RELOCATE: Includes the removal of the signal head and re installation as instructed in the work request. Payment includes signal cable and all other materials necessary for a complete and acceptable relocation.
5. NOTE: USE POLYCARBONATE SIGNAL HOUSING FOR ALL MAST ARM INSTALLATIONS AND ALUMINUM TOP SECTION W/ POLYCARBONATE BOTTOM SECTION SIGNAL HOUSING FOR SPAN WIRE INSTALLATIONS.

M. ITEM NO. 650-2-ABB / VEHICULAR SIGNAL AUXILIARIES / EACH (EA)

A = Operation

1 (Repair/Replace/Retrofit- Furnish & Install)

3 (Repair/Replace/Retrofit- Install) Item furnished by local agency

BB = Item

01 (Backplate – Black) NOT USED

02 (Backplate – Black with Retroreflective Border)

05 (Tunnel Visor)

06 (12" LED Module – Standard)

07 (8" LED Module – Emergency Signal)

08 (Add section/s to existing signal assembly)

1. This item is NOT TO BE USED FOR NEW SIGNAL ASSEMBLIES.

2. This item is intended for repair/replacement/retrofit of existing signal assemblies. Tabulate items by location in the work request.

N. ITEM NO. 653-1-AB / PEDESTRIAN SIGNAL / ASSEMBLY (AS)

A = Operation

1 (Furnish & Install LED Countdown)

3 (Install) B=0

4 (Relocate) B=0

6 (Remove Pedestrian Signal; pole/pedestal to remain) B=0

B = Ways

1 (1 way)

2 (2 ways)

1. This pay item is for traffic control devices. LED Countdown is the current standard.

2. REMOVE: No separate payment for removal of the Pedestrian Signal, when the pole/mast arm is being removed. See the pole/pedestal pay items.

O. ITEM NO. 654-2-AB / RECTANGULAR RAPID FLASHING BEACON ASSEMBLY (RRFB) / MIXED

A = Operation

1 (Furnish & Install- AC Powered) B=1 or 2

2 (Furnish & Install- Solar Powered) B=1 or 2

3 (Install) B=0 NOT USED

4 (Relocate) B=0 NOT USED

5 (Adjust/Modify) B=0 NOT USED

6 (Remove) B=0 NOT USED

7 (Replace) B=0 for Maintenance use

B = Component

1 (Complete Assembly- Single Direction) AS

2 (Complete Assembly- Back-to-Back) AS

3 (Cabinet) EA NOT USED

4 (Signs and RRFB unit) EA NOT USED

1. Refer to the FDOT Traffic Engineering Manual for additional information.
2. COMPLETE ASSEMBLY: "includes a rectangular beacon and signs for each approach, sign support structure, cabinet, electronics, wiring, and pedestrian detector. Solar panels are included in the cost of the assembly, when shown in the plans." NOTE: a minimum of 2 assemblies are normally needed per mid-block crossing- one for each approach.
3. SINGLE DIRECTION: Includes beacons and signs for one direction, with "everything on the post" included.
4. BACK-TO-BACK: Includes beacons and signs for both directions, with "everything on the post" included.
5. CABINET: Used for Maintenance activities only. For new installations, this item is included in the complete system.
6. SIGNS AND RRFB UNIT: Includes the beacons, signs, AND attachment hardware for a single direction unit, for non-standard installations. The signs with beacon pair are one unit, per each.
7. REPLACE: Maintenance use; Includes replacement of batteries, detectors, signal indications.

P. ITEM NO. 659-1-ABB / MAST ARM, SPAN WIRE, AND POLE MOUNTING ASSEMBLIES / EACH (EA)

A = Operation

1 (Repair/Replace/Retrofit- Furnish & Install) NOT for use with new signal assemblies

3 (Repair/Replace/Retrofit- Install) Item furnished by local agency

BB = Component

1 (Mast Arm Mounting Assembly) "Hanger"

2 (Span Wire Mounting Assembly) "Hanger" Other components, as requested

1. Pay item includes replacement of damaged traffic signal and sign mounting hardware and adjustable hanger assemblies.
2. NO SEPARATE PAYMENT will be made for hangers on new signal installations. This item is valid for repair /replacement /retrofit applications only.

3. All materials used shall be listed on the FDOT Qualified Products List (QPL).

Q. ITEM NO. 660-2-ABB / LOOP ASSEMBLY / ASSEMBLY (AS)

A = Operation

1 (Furnish & Install)

BB = Type

01 (Type A)

02 (Type B)

03 (Type C)

04 (Type D)

05 (Type E)

06 (Type F)

07 (Type G)

08 (Type H)

1. This pay item is for traffic signals and traffic control devices only.
2. Refer to FDOT Minimum Specifications for Traffic Control Signal Devices, as applicable. Includes cost of loop material, labor, equipment, etc. according to specifications. Price includes installation, splicing, 50ft or less of Belden 50-2 home run cable.

R. ITEM NO. 660-3-AB / VEHICLE DETECTION SYSTEM-MICROWAVE / EACH (EA)

A = Operation

1 (Furnish & Install) B=1 or 2

3 (Install) Department furnished equipment NOT USED

4 (Relocate) NOT USED

5 (Adjust/Modify) NOT USED

6 (Remove) B=0 NOT USED

8 (Preventative Maintenance) B=0 NOT USED

9 (Diagnosis and Misc. Repair) B=0 NOT USED

B = Component

0 (Complete System)

1 (Cabinet Equipment) NOT USED

2 (Above ground Equipment) Note: Mounting hardware and cabling is considered incidental to sensor.

1. This item is intended for Vehicle Detection Systems, excluding Loop Systems. Details such as location of detectors, detection zones, and roadside components provided by COUNTY.

S. ITEM NO. 660-4-AB[c] / VEHICLE DETECTION SYSTEM-VIDEO / EACH (EA)

A = Operation

- 1 (Furnish & Install)
- 3 (Install) COUNTY furnished equipment
- 4 (Relocate)
- 5 (Adjust/Modify)
- 6 (Remove) B=0
- 8 (Preventative Maintenance) B=0
- 9 (Diagnosis and Misc. Repair) B=0

B = Component

0 (Complete System)

1 (Cabinet Equipment)

2 (Above ground Equipment) Note: COUNTY will indicate quantity and location of camera(s). Mounting hardware and cabling is considered incidental to camera(s).

[c] = [a] 4 Directions, w/ 4 cameras

[b] 3 Directions, w/ 3 cameras

[c] 2 Directions, w/ 2 cameras

[d] 1 Direction, w/ 1 camera

1. This item is intended for Video Vehicle Detection Systems. Details such as location of detectors, detection zones, and roadside components will be provided by COUNTY. All materials used shall be on the FDOT APL and shall be fully compatible with COUNTY'S video detection systems.

T. ITEM NO. 660-5-AB / VEHICLE DETECTION SYSTEM-WIRELESS / EACH (EA)

A = Operation

1 (Furnish & Install)

3 (Install) Department furnished equipment

4 (Relocate)

5 (Adjust/Modify)

6 (Remove) B=0

8 (Preventative Maintenance) B=0

9 (Diagnosis and Misc. Repair) B=0

B = Component

0 (Complete System) only for A=6, 8, or 9

1 (Cabinet Equipment) Note: Pay item callout shall be used in plans to indicate QTY and location of shelf mount or detector-card style cabinet interface hardware required. Cabling, and other system components are considered incidental to interface card(s).

2 (Above ground Equipment) Note: Pay item callout shall be used in plans to indicate QTY and location of access point(s) or repeater(s) required. Mounting hardware and cabling is considered incidental to access point(s) and repeater(s).

3 (In-Road Electronics) Note: Pay item callout shall be used in plans to indicate QTY and location of wireless magnetometer sensors embedded in roadway

1. This item is intended for Wireless Vehicle Detection Systems.
2. Coordinate with COUNTY regarding equipment specifications, location of detectors, detection zones, and roadside components.

U. ITEM NO. 665-1-AB / PEDESTRIAN DETECTOR / EACH (EA)

A = Operation

1 (Furnish & Install)

3 (Install) Dept. Furnished Equipment; B=0

4 (Relocate) B=0

5 (Adjust/Modify) B=0

6 (Remove- Pole/Pedestal to Remain) B=0

8 (Preventative Maintenance) B=0

9 (Diagnosis and Misc. Repair) B=0

B = Type

1 (Standard)

2 (Accessible)

1. Pedestrian detectors may be mounted on poles, posts, or pedestals, in accordance with the FDOT Design Standards. Payment includes pedestrian information signs/sticker, as shown on FDOT Index 17784. Additional design guidance is available in MUTCD Section 4E.
2. Note: Poles, posts, and pedestals are paid separately under PAY ITEMS 641-, 646-, or 649.
3. INSTALL: Detector and Sign to be furnished by COUNTY. Incidental parts to complete the installation to be furnished by CONTRACTOR.
4. RELOCATE: COUNTY will provide relocation details in the work request.
5. REMOVE- POLE/PEDESTAL TO REMAIN: All removed equipment shall be returned to COUNTY. Note- No separate payment for removal of pedestrian detector when pole/pedestal is removed (included with pole removal).

V. ITEM NO. 670-5-ABC / TRAFFIC CONTROLLER ASSEMBLY / ASSEMBLY (AS)

A = Operation

1 (Furnish & Install)

3 (Install) BC=00; COUNTY furnished

4 (Modify) BC=00; DO NOT USE with a new controller

5 (Relocate Controller and Cabinet) BC=00

6 (Remove Controller and Cabinet) BC=00 effective 1-1-15

B = Cabinet with Controller Type
1 (NEMA)
5 (ATC)

C = Special Features
0 (None)
1 (One Preemption Plan)
2 (Two Preemption Plans)

1. This pay item is for traffic signals and traffic control devices only.
2. Note that the controller assembly includes both the controller electronics and the cabinet. Cabinet and all internal electronic components shall be listed on FDOT's QPL and strictly adhere to COUNTY specifications and standards.
3. FURNISH & INSTALL: includes all work and materials to set-up controller in the cabinet. COUNTY will provide all timing plan and program set up data.
4. MODIFY: Tech specs required to detail work to be completed. DO NOT USE this pay item for set- up of new controllers.
5. For Special Type, detail all components.
6. REMOVE: Includes the removal of the cabinet, all electronics, and base/foundation.
7. The description, materials, construction/installation requirements and method of measurement will be provided in the work request to clearly define the work to be completed for payment under this item.

W. ITEM NO. 676-2-ABB / ITS CABINET / EACH (EA)

A = Operation
1 (Furnish & Install)
3 (Install) BB=00
4 (Relocate) BB=00
5 (Adjust /Modify) BB=00
6 (Remove) BB=00

BB = Description- Function, Type and Size
1 (ITS Cabinet, pole mount)
2 (ITS Cabinet, pole mount w/sunshields)
3 (ITS Cabinet, base mount)
4 (ITS Cabinet, base mount w/sunshields) For unwired cabinet, use 676-1.

BB = Description-Type and Size
1 (336, 24" W x 36" H x 20" D)

- 2 (336S, 24" W x 46" H x 22" D)
- 3 (334, 24" W x 66" H x 30" D)

1. This cabinet is used to house traffic control devices and other electronics associated with Intelligent Transportation Systems.
2. The cabinet assembly includes both the ITS electronics and the cabinet. Cabinet and all internal electronic components shall be listed on FDOT's QPL and strictly adhere to COUNTY specifications and standards.

X. ITEM NO. 680-1-ABC / SYSTEM CONTROL EQUIPMENT / EACH (EA)

A = Operation

- 1 (Furnish & Install) C=2 or 3
- 3 (Install) BC=00
- 4 (Relocate) BC=00
- 5 (Adjust/Modify) BC=00
- 6 (Remove) BC=00
- 9 (Diagnostic and Misc. Repair) BC=00

B = System Type

- 1 (Adaptive Signal Control System - NEMA)
- 2 (Adaptive Signal Control System - 170)

C = Component

- 0 (Complete System) detail n plans all work/components involved
- 2 (Cabinet Equipment)
- 3 (Above Ground Equipment)

1. Specification currently only includes Adaptive Signal Control System.
2. Furnish & Install: Use BOTH 687-1-ABC pay items for cabinet equipment (1 each per cabinet) and above ground equipment (1 each per sensor).
3. INSTALL: Use BC=00. Detail components to be installed in the plans, including location of sensor(s). Components to be furnished by FDOT or local agency; include contact information in the plans.
4. ADJUST/MODIFY: Detail work to be completed in the plans or specifications.
5. REMOVE: Use BC=00. Detail work to be completed in the plans or specifications, including the quantity and location of the item(s) to be removed. Use a quantity of 1 each per complete system.

Y. ITEM NO. 682-1-AB / CCTV CAMERA / EACH (EA)

A = Operation

- 1 (Furnish & Install)
- 3 (Install)
- 4 (Relocate) B=0
- 5 (Adjust /Modify) B=0
- 6 (Remove & Dispose) B=0
- 7 (Remove & Stockpile) B=0
- 8 (Maintenance, clean lenses, pressurize dome)
- 9 (Misc. diagnostic and repair)

B = Type

- 1 (Dome enclosure, pressurized)
- 2 (External positioner, pressurized)
- 3 (Dome enclosure, non-pressurized)
- 4 (External positioner, non-pressurized)

1. For installations along the roadway or intersections, to provide video of traffic movements. Includes mounting hardware, cabling, and power supply.
2. CCTV components shall be listed on FDOT's QPL and strictly adhere to COUNTY specifications and standards.
3. PREVENTIVE MAINTENANCE: To include cleaning lenses, pressurizing domes.
4. DIAGNOSTIC AND MISC. REPAIR: For repair of CCTV unit to identify and correct power, communication, PTZ, dome pressure alarms and other miscellaneous repair items.

Z. ITEM NO. 633-1-ABC / FIBER OPTIC CABLE / LINEAR FEET (FT)

A = Operation

- 1 (Furnish & Install)
- 3 (Install) Furnished by COUNTY; C=0
- 4 (Relocate) C=0
- 6 (Remove) C=0

B = Location

- 1 (Bridge Mount)
- 2 (Underground)

C = Number of Fibers in Cable

- 1 (2 to 12)
- 2 (13 to 48)
- 3 (49 to 96)
- 4 (97 to 144)

1. For use in fiber optic networks that support ITS devices and their connection to communication hubs, transportation management centers, and related facilities.
Use "overhead" for installations involving bridges and other aboveground structures. Use "underground" for cable placed in buried conduit along the roadside.

AA. ITEM NO. 633-2-AB / FIBER OPTIC CONNECTION / EACH (EA)

A = Operation
3 (Install)

B = Type
1 (Splice)
2 (Termination)

1. For use in fiber optic networks where segments of fiber optic cable shall be spliced together, or when cables shall be terminated at the end of a segment. Note that each connection involves the fusing of individual optical fibers in a cable.

Payment "each" is for each FIBER to be connected, i.e. 30 fibers in one cable= 30 connections

BB. ITEM NO. 633-3-AB / FIBER OPTIC CONNECTION HARDWARE / EACH (EA)

A = Operation
1 (Furnish & Install)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

B = Component
1 (Splice Enclosure)
2 (Splice Tray)
3 (Pre-terminated Connector Assembly)
4 (Buffer Tube Fan Out Kit)
5 (Patch Panel, Pre-terminated)
6 (Patch Panel, Field Terminated)
7 (Connector Panel)

1. For use in fiber optic networks, where segments of cable shall be spliced together.
2. Hardware items include incidental hardware and cables for a complete installation.
3. Hardware items furnished with additional cable, such as pre-terminated patch panels, include the installation of the cable. DO NOT provide additional payment for cable installation under cable or conduit items.

CC. ITEM NO. 685-1-ABC / UNINTERRUPTABLE POWER SUPPLY / ASSEMBLY (AS)

A = Operation

1 (Furnish & Install)

2 (Install)

6 (Remove, pole/cabinet remains)

7 Relocate (B=0)

B = Type

1 (Line Interactive) installed within controller cabinet

2 (Online/Double Conversion) installed within controller cabinet

3 (Line Interactive, with Cabinet) includes separate cabinet for UPS only

4 (Online/Double Conversion, with Cabinet) includes separate cabinet for UPS only

C = Component

1 (Battery)

1. From Section 685 of the Specifications:

- a. UPS assemblies shall be designed for installation in a roadside NEMA 3R enclosure to provide battery backup functionality for traffic control systems, including traffic signal and intelligent transportation system (ITS) devices. UPS assemblies shall include batteries provided by the UPS manufacturer or in accordance with manufacturer's requirements.
- b. When UPS is installed or mounted OUTSIDE (attached to or piggy back) to a new or existing controller cabinet, payment for the UPS cabinet is included under 685.
- c. When UPS is installed SEPARATELY (base mounted), payment for the UPS cabinet will be included under 685. Detail UPS cabinet and base in the plans.
- d. Pay item includes installation of an uninterruptable power supply for traffic signal applications only. Complete installation includes cabinet, internal electronic and electrical components and batteries.
- e. UPS shall be listed on the FDOT APL and shall adhere to the COUNTY'S specifications and be compatible with existing systems.

DD. ITEM NO. 700-1-AB / SINGLE POST SIGN / ASSY (AS)

A = Operation

1 (Furnish & Install Ground Mount) max wind load 30 ft²

2 (Furnish & Install Barrier Mount, Index 11871) max wind load area 20 ft²*

3 (Furnish & Install Bridge Mount, Index 11870) max wind load area per index

4 (Install) B=0; furnished by FDOT or local agency

5 (Relocate) B=0; relocated within project

6 (Remove) B=0

7 (Furnish & Install, Custom with Wind load area >30 ft²) Index 11861, B=4

8 (Repair) for Maintenance use only; B=0

B = Combined sheeting area of all panels on post

1 (Up to 12 ft²) "less than 12"

2 (12-20 ft²)

3 (21-30 ft²)

4 (31+ ft²)

5 (21-24 ft² back-to-back) *valid for A=2 only, pending for updated index 11871

8 (In-Street Flexible Post) A=1

1. GROUND MOUNT: Includes the signs, hardware, post, and foundation, per index 11860 and 11861.
2. MEDIAN BARRIER MOUNT: Includes the signs, hardware, post, and materials necessary to complete the mount, per index 11871. Maximum wind load of 20 SF, per the index. See the Plans Preparation Manual (PPM), Volume 1, Sections 4.5 and 7.2.5.
3. BRIDGE MOUNT: Includes the signs, hardware, post, and materials necessary to complete the mount, per index 11870.
4. CUSTOM Wind Load: See Index 11861 IDS. Includes the signs, hardware, post and materials necessary to complete the mount. This item should ONLY be used when standard single or multi-post assemblies are not possible and is only intended for use on curb & gutter facilities where the distance between the curb and the sidewalk restricts the use of Index 11200.
5. RELOCATE/REMOVE: Includes panels, posts, foundation, and any other items attached to the assembly (beacon, solar panel, etc.), as noted in the plans. Removed items become the property of CONTRACTOR, unless otherwise noted in the plans/specs.

EE. ITEM NO. 700-5-AB / INTERNALLY ILLUMINATED SIGN / EACH (EA)

A = Operation

1 (Furnish & Install, Ground Mount) includes single post

2 (Furnish & Install, Overhead Mount) includes span wire or mast arm installation

4 (Install) B=0; furnished by COUNTY

5 (Relocate) B=0

6 (Remove) B=0

B = Size, square feet

1 (Up to 12 ft²)

2 (12-18 ft²) max 18 ft² for internal illumination, per specification

1. Internally Illuminated signs include street name signs. All mounting hardware is included in the sign pay item. The support structure (poles, span wire, and/or mast arm) is paid separately.

2. Signs shall be internally illuminated using LED. Sign designs shall adhere to FDOT and COUNTY Standards.
3. NOTE: Special 'M' series pay items reference specific COUNTY maintenance tasks not defined under FDOT BOE pay items. Refer to bid form for specific requirements for each 'M' series pay item. CONTRACTOR to provide materials for all 'M' series pay items.

FF. ITEM NO. 700-12-AB / SIGN BEACON / ASSEMBLY (AS)

A = Operation

- 1 (Furnish & Install, Ground Mount- AC Powered)
- 2 (Furnish & Install, Ground Mount- Solar Powered)
- 3 (Furnish & Install, Overhead Mount) span wire, mast arm, or other
- 4 (Install) furnished by FDOT or local agency
- 5 (Relocate Beacon; sign to remain) B=0
- 6 (Remove Beacon; sign to remain) B=0

B = Number of beacon(s) per sign

- 1 (One Beacon)
- 2 (Two Beacons)

1. Includes ONLY THE BEACON(S), cabinet, controller, and solar panel, when noted. DOES NOT INCLUDE THE SIGN or support structure.
2. Use this pay item along with single post, multi post, or other signs.
3. RELOCATE/REMOVE: These items are to be used ONLY when relocating or removing the beacons, WITH NO CHANGE to the sign assembly. If you are relocating or removing the entire assembly, the beacon(s) are included with the assembly; use the sign assembly.

GG. ITEM NO. M-1-A / HEAVY EQUIPMENT SERVICES / HOUR (HR)

A = Operation

- 01 (Furnish) Lift Truck / 30' Foot reach, w/ Operator
- 02 (Furnish) Lift Truck/ 50' Foot reach, w/ Operator
- 03 (Furnish) 16" – 42" diameter auger, w/ Operator
- 04 (Furnish) 4" Wide trencher, w/ Operator
- 05 (Furnish) Tractor w/ backhoe and bucket, w/ Operator
- 06 (Furnish) Pressure digger/drill rig, w/ Operator
- 07 (Furnish) Mobile crane, min. 60 Ton Cap., w/ Operator
- 08 (Furnish) Mobile crane, min. 65 Ton Cap., w/ Operator
- 09 (Furnish) Mobile crane, min. 85 Ton Cap., w/ Operator

1. These pay items support the hourly payment for use of heavy equipment with operators. Includes work performed outside of the scope of standard pay items listed above.
2. This pay item will not be used in conjunction with any of the above listed pay items.
3. Minimum rate charge is 4 hours.

HH. ITEM NO. M-2-A / PROFESSIONAL AND TECHNICAL SERVICES / MIXED (MX)

A = Operation

01 (Furnish) Geotechnical testing for foundations

02 (Furnish) Vacuum excavation/ soft dig (per structure or location)

03 (Furnish) Pick up and transport mast arms, strain poles (compound to job site)

04 (Furnish) Traffic Control Officer (during MOT)

05 (Furnish) Utility Locate Services

1. These pay items support the payment for provision of professional and technical services. Includes work performed outside of the scope of standard pay items listed above.
2. This pay item will not be used in conjunction with any of the above listed pay items.
3. Geotechnical testing for foundations: performed upon request, includes certified, licensed professional inspection and testing. COUNTY shall receive full test results in a timely manner.
4. Vacuum excavation/ soft dig: Performed upon request, per structure or location. Includes the use of a vacuum excavator to perform non-destructive excavation as needed to identify buried utilities or infrastructure.
5. Pick up and transport mast arms, strain poles: Performed upon request. Per transport. Includes the pick and transport of mast arms or strain poles site to site. All transportation done locally (Public Works compound to job site). Costs for crane services billed under the M-1-A pay item.
6. Traffic Control Officer: Performed as needed, per hour. Includes hiring off duty law enforcement to assist with maintenance of traffic. Utility Locate Services: Performed upon request, per hour for locating services for underground transportation infrastructure to include traffic signal, lighting, ITS. Services include electronic locating, marking with flags and paint, hand digging to uncover and visually verify conduit.

EXHIBIT B, FEE RATE SCHEDULE

EXHIBIT B, FEE RATE SCHEDULE
IFB NO. 21-R076431BB
TRAFFIC SIGNAL AND INTELLIGENT TRANSPORTATION SYSTEMS MAINTENANCE
SIEMENS MOBILITY, INC.

LINE ITEM NO.	F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING	ACTIVITY	DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE
CONDUIT										
1	F/I	FURNISH/INSTALL	CONDUIT BY TRENCHING	630-2-11	17721	2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT.	LF	\$6.90	500	\$3,450.00
2	F/I	FURNISH/INSTALL	CONDUIT BY TRENCHING	630-2-11		2" CONDUIT - 2-3 RUNS SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT - MEASUREMENT BASED ON LENGTH OF TRENCH.	LF	\$7.08	500	\$3,540.00
3	F/I	FURNISH/INSTALL	CONDUIT BY HAND DIGGING	630-2-11		2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT.	LF	\$10.30	500	\$5,150.00
4	F/I	FURNISH/INSTALL	CONDUIT BY HAND DIGGING	630-2-11		2" CONDUIT - 2-3 RUNS SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT - MEASUREMENT BASED ON LENGTH OF TRENCH.	LF	\$10.48	500	\$5,240.00
5	F/I	FURNISH/INSTALL	CONDUIT BY DIRECTIONAL BORING - FOR FIBER OPTIC CABLE	630-2-12	18202 AND 18204	1 1/4" HDPE CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT.	LF	\$18.48	1,000	\$18,480.00
6	F/I	FURNISH/INSTALL	CONDUIT BY DIRECTIONAL BORING	630-2-12	17721	2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT.	LF	\$19.15	1,000	\$19,150.00
7	F/I	FURNISH/INSTALL	CONDUIT BY DIRECTIONAL BORING	630-2-12		2" CONDUIT - 2-3 RUNS SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT - MEASUREMENT BASED ON LENGTH OF BORE.	LF	\$20.05	1,000	\$20,050.00
8	F/I	FURNISH/INSTALL	CONDUIT - JACK AND BORE	630-2-13		2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT.	LF	\$45.00	100	\$4,500.00
9	F/I	FURNISH/INSTALL	CONDUIT - ABOVEGROUND OR STRUCTURE MOUNTED	630-2-14		2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT - REMOVAL OF EXISTING CONDUIT AND CABLE CONSIDERED INCIDENTAL.	LF	\$21.02	100	\$2,102.00
10	F/I	FURNISH/INSTALL	CONDUIT - ABOVEGROUND	630-2-14		1-2" RIGID CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT- REMOVAL OF EXISTING CONDUIT AND CABLE CONSIDERED INCIDENTAL.	LF	\$21.02	100	\$2,102.00
11	F/I	FURNISH/INSTALL	CONDUIT - BRIDGE MOUNT	630-2-15	2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT - REMOVAL OF EXISTING CONDUIT AND CABLE CONSIDERED INCIDENTAL.	LF	\$20.88	100	\$2,088.00	
SIGNAL CABLE										
12	F/I	FURNISH/INSTALL	SIGNAL CABLE - INSTALL NEW OR REPLACE EXISTING	632-7-1	NEC & NESC MANATEE COUNTY DESIGN GUIDE	FURNISH AND INSTALL TRAFFIC SIGNAL CABLING FROM CONTROLLER CABINET TO ALL TRAFFIC SIGNAL INDICATIONS, ILLUMINATED SIGNS, AND BLANK OUT SIGNS. SEPARATE PAY ITEMS SHALL APPLY TO DETECTION HOME RUNS. REMOVAL OF EXISTING CABLE SHALL BE CONSIDERED INCIDENTAL. ANY CABLE REMOVED SHALL BE RETURNED TO MANATEE COUNTY TRAFFIC OPERATIONS.	PI	\$6,112.54	3	\$18,337.62
13	F/I	FURNISH/INSTALL	SIGNAL CABLE - REPAIR, REPLACE, OTHER	632-7-2		REPAIR OR REPLACE TRAFFIC SIGNAL CABLING. INCLUDES 'BELDEN' 50-2 TYPE INDUCTIVE LOOP ASSEMBLY LEAD IN CABLE. REMOVAL OF EXISTING CABLE SHALL BE CONSIDERED INCIDENTAL. ANY CABLE REMOVED SHALL BE RETURNED TO MANATEE COUNTY TRAFFIC OPERATIONS.	LF	\$5.24	300	\$1,572.00
SPAN WIRE ASSEMBLIES										
14	F/I	FURNISH/INSTALL	SPAN WIRE ASSEMBLY - PERPENDICULAR	634-4-151	17727	PERPENDICULAR - 2 POINT ATTACHMENT SECTION 634 OF FDOT STANDARD SPECIFICATIONS & MSTCSD SECTION A634.	PI	\$2,610.17	1	\$2,610.17
15	F/I	FURNISH/INSTALL	SPAN WIRE ASSEMBLY - DIAGONAL	634-4-152		DIAGONAL - 2 POINT ATTACHMENT SECTION 634 OF FDOT STANDARD SPECIFICATIONS & MSTCSD SECTION A634.	PI	\$2,872.14	1	\$2,872.14
16	F/I	FURNISH/INSTALL	SPAN WIRE ASSEMBLY - BOX	634-4-153		BOX SPAN - 2 POINT ATTACHMENT SECTION 634 OF FDOT STANDARD SPECIFICATIONS & MSTCSD SECTION A634.	PI	\$5,789.83	1	\$5,789.83
17	M/E	REMOVE	SPAN WIRE ASSEMBLY - REMOVE	634-4-600		SECTION 634 OF FDOT STANDARD SPECIFICATIONS & MSTCSD SECTION A635. INCLUDES ADJUSTMENT AND/OR REPLACEMENT OF HARDWARE AS NEEDED. ADJUSTING AND RE-SECURING SIGNAL CABLE END TO END.	PI	\$340.23	1	\$340.23
18	M/E	REPAIR	SPAN WIRE - RE-TENTION	634-4-700		SECTION 634 OF FDOT STANDARD SPECIFICATIONS & MSTCSD SECTION A635. INCLUDES ADJUSTMENT AND/OR REPLACEMENT OF HARDWARE AS NEEDED. ADJUSTING AND RE-SECURING SIGNAL CABLE END TO END.	EA	\$170.12	3	\$510.36
PULL AND SPLICE BOX										
19	F/I	FURNISH/INSTALL	PULL BOX AND LID - QUAZITE - 17" X 30" (LARGE SIZE)	635-2-12	17721	REMOVAL OF EXISTING CONCRETE SIDEWALK OR LANDING PAD AND BOX SHALL BE CONSIDERED INCIDENTAL. CONTRACTOR TO DISPOSE OF ANY DAMAGED BOXES PROPERLY. ANY DISTURBED DIRT SHALL BE RETURNED TO THE PRE-WORK GRADE CONSTRUCTION CONDITION AND BE COMPATIBLE WITH SURROUNDING GROUND AREAS.	EA	\$1,068.69	5	\$5,343.45
20	F/I	FURNISH/INSTALL	PULL BOX AND LID - QUAZITE - 30" X 60"	635-2-13		REMOVAL OF EXISTING CONCRETE SIDEWALK OR LANDING PAD AND BOX SHALL BE CONSIDERED INCIDENTAL. CONTRACTOR TO DISPOSE OF ANY DAMAGED BOXES PROPERLY. ANY DISTURBED DIRT SHALL BE RETURNED TO THE PRE-WORK GRADE CONSTRUCTION CONDITION AND BE COMPATIBLE WITH SURROUNDING GROUND AREAS.	EA	\$2,041.74	2	\$4,083.48
21	I/O	INSTALL	PULL BOX AND LID - QUAZITE - 17" X 30"	635-2-30		REMOVAL OF EXISTING CONCRETE SIDEWALK OR LANDING PAD AND BOX SHALL BE CONSIDERED INCIDENTAL. CONTRACTOR TO DISPOSE OF ANY DAMAGED BOXES PROPERLY. ANY DISTURBED DIRT SHALL BE RETURNED TO THE PRE-WORK GRADE CONSTRUCTION CONDITION AND BE COMPATIBLE WITH SURROUNDING GROUND AREAS. COUNTY PROVIDED MATERIALS.	EA	\$510.35	5	\$2,551.75
22	M/E	REMOVE/INSTALL	PULL BOX AND LID - RELOCATE	635-2-40		ADJUST OR RELOCATE. REMOVAL OF EXISTING CONCRETE SIDEWALK OR LANDING PAD AND BOX SHALL BE CONSIDERED INCIDENTAL. ANY DISTURBED CONCRETE OR DIRT SHALL BE RETURNED TO THE PRE-WORK GRADE CONSTRUCTION CONDITION AND BE COMPATIBLE WITH THE SURROUNDING AREAS.	EA	\$340.23	5	\$1,701.15
POWER SERVICE										

LINE ITEM NO.	ACTIVITY F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING	DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	UNIT BID PRICE	MULTIPLE R	EXTENDED BID PRICE
23	F/I	FURNISH/INSTALL	ELECTRIC POWER SERVICE ASSEMBLY - OVERHEAD	639-1-112	17736 & FDOT BOE SECTION 620	EA	\$1,869.95	2	\$3,739.90
24	F/I	FURNISH/INSTALL	ELECTRIC POWER SERVICE ASSEMBLY - UNDERGROUND	639-1-122		EA	\$2,315.35	2	\$4,630.70
25	M/E	REMOVE	ELECTRIC POWER SERVICE ASSEMBLY - REMOVE	639-1-600		EA	\$713.22	2	\$1,426.44
26	M/E	REMOVE/INSTALL	ELECTRICAL POWER SERVICE - UTILITY SERVICE RISER - RELOCATE	639-1-410	17504	EA	\$1,360.93	5	\$6,804.65
27	F/I	FURNISH/INSTALL	ELECTRICAL POWER SERVICE - UTILITY SERVICE RISER - RELOCATE	639-1-420		EA	\$2,652.74	5	\$13,263.70
28	M/E	MODIFY EXISTING	ELECTRICAL SERVICE WIRE - RELOCATE	639-2-4	NEC & NESC	LF	\$1.34	500	\$670.00
29	F/I	FURNISH/INSTALL	ELECTRICAL SERVICE WIRE - FURNISH AND INSTALL	639-2-1		LF	\$5.62	5000	\$28,100.00
EMERGENCY PORTABLE GENERATOR HOUSING									
30	I/O	INSTALL	EMERGENCY GENERATOR - HOUSING ONLY	639-4-6	MANATEE COUNTY DESIGN GUIDE	EA	\$510.35	2	\$1,020.70
PRESTRESSED CONCRETE POLE									
31	F/I	FURNISH/INSTALL	PRESTRESSED CONCRETE POLE	641-2-12	17764	EA	\$1,387.47	1	\$1,387.47
32	M/E	REMOVE	PRESTRESSED CONCRETE POLE	641-2-70		EA	\$2,764.32	1	\$2,764.32
33	M/E	REMOVE	PRESTRESSED CONCRETE POLE	641-2-80		EA	\$4,271.19	1	\$4,271.19
34	I/O	INSTALL	PRESTRESSED CONCRETE POLE	641-2-30		EA	\$3,037.29	1	\$3,037.29
STRAIN POLE - WOOD									
35	F/I	FURNISH/INSTALL	STRAIN POLE - WOOD POLE NOMINAL SIZE 40'	643-140	17727	EA	\$2,428.88	2	\$4,857.76
36	F/I	FURNISH/INSTALL	STRAIN POLE - WOOD POLE NOMINAL SIZE 50'	643-150		EA	\$3,060.07	2	\$6,120.14
37	M/E	REMOVE	STRAIN POLE WOOD - REMOVE	643-600		EA	\$1,708.48	2	\$3,416.96
ALUMINUM SIGNAL POLE									
38	F/I	FURNISH/INSTALL	ALUMINUM SIGNAL POLE - PEDESTAL	646-1-11	17764/17784	AS	\$1,186.44	10	\$11,864.40
39	F/I	FURNISH/INSTALL	ALUMINUM SIGNAL POLE - PEDESTRIAN DETECTOR POST	646-1-12		AS	\$879.53	10	\$8,795.30
STEEL MAST ARM ASSEMBLY									
40	M/E	REMOVE	STEEL MAST ARM ASSEMBLY - REMOVE	649-36-100	17743	EA	\$996.61	1	\$996.61
41	M/E	REPAIR	MAST ARM REPAIR - MAINTENANCE - GROUT PAD	649-38-000	17745	EA	\$364.20	10	\$3,642.00
42	F/I	FURNISH/INSTALL	MAST ARM REPAIR - MAINTENANCE - WIRE MESH SCREEN	649-38-000	17745 AND Section 649-6	EA	\$230.04	10	\$2,300.40
43	M/E	REPAIR	MAST ARM REPAIR - MAINTENANCE - SPOT PAINT <100 SQ INCHES	649-38-000	17745	EA	\$400.15	10	\$4,001.50
44	M/E	REPAIR	MAST ARM REPAIR - MAINTENANCE - SPOT PAINT >100 SQ INCHES	649-38-000		EA	\$1,090.26	10	\$10,902.60
45	M/E	REPAIR	MAST ARM REPAIR - MAINTENANCE - NUTS, HAND HOLE COVERS, TOE COVERS	649-38-000		EA	\$200.08	20	\$4,001.60
VEHICULAR TRAFFIC SIGNAL									

LINE ITEM NO.	ACTIVITY F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING		DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	UNIT BID PRICE	MULTIPLE R	EXTENDED BID PRICE
46	M/E	RELOCATE	VEHICULAR TRAFFIC SIGNAL - RELOCATE - 1, 3, 4 OR 5-SECTION W/REFLECTIVE BORDER BACKPLATE	650-1-70	N/A	RELOCATE SIGNAL HEAD. ADJUSTMENT OF HARDWARE SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION A650 OF MSTCSD & MUTCD 4D.15.	EA	\$151.56	2	\$303.12
47	F/I	FURNISH/INSTALL	VEHICLE SIGNAL HEAD - 1 SECTION W/REFLECTIVE BORDER BACKPLATE	650-1-11	N/A	FOR INSTALLATION OR REPLACEMENT OF SIGNAL ASSEMBLY TO INCLUDE LED INSERT, BACKPLATE WITH REFLECTIVE BORDER, TUNNEL VISOR AND MOUNTING HARDWARE. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION A650 OF MSTCSD.	EA	\$629.70	4	\$2,518.80
48	F/I	FURNISH/INSTALL	VEHICLE SIGNAL HEAD - 3 SECTION W/REFLECTIVE BORDER BACKPLATE	650-1-14	N/A	FOR INSTALLATION OR REPLACEMENT OF SIGNAL ASSEMBLY TO INCLUDE LED INSERT, BACKPLATE WITH REFLECTIVE BORDER, TUNNEL VISOR AND MOUNTING HARDWARE. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION A650 OF MSTCSD.	EA	\$922.08	80	\$73,766.40
49	F/I	FURNISH/INSTALL	VEHICLE SIGNAL HEAD - 4 SECTION W/REFLECTIVE BORDER BACKPLATE	650-1-16	N/A	FOR INSTALLATION OR REPLACEMENT OF SIGNAL ASSEMBLY TO INCLUDE LED INSERT, BACKPLATE WITH REFLECTIVE BORDER, TUNNEL VISOR AND MOUNTING HARDWARE. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION A650 OF MSTCSD.	EA	\$1,133.57	4	\$4,534.28
50	F/I	FURNISH/INSTALL	VEHICLE SIGNAL HEAD - 5 SECTION CLUSTER W/REFLECTIVE BORDER BACKPLATE	650-1-19	N/A	FOR INSTALLATION OR REPLACEMENT OF SIGNAL ASSEMBLY TO INCLUDE LED INSERT, BACKPLATE WITH REFLECTIVE BORDER, TUNNEL VISOR AND MOUNTING HARDWARE. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION A650 OF MSTCSD.	EA	\$1,427.78	20	\$28,555.60
VEHICULAR SIGNAL AUXILIARIES										
51	F/I	FURNISH/INSTALL	VEHICULAR SIGNAL AUXILIARIES - 12" LED MODULE - RE-LAMP	650-2-106	N/A	FOR RE-LAMPING INTERSECTIONS. REMOVAL OF EXISTING MODULE CONSIDERED INCIDENTAL.	EA	\$102.88	200	\$20,576.00
52	F/I	FURNISH/INSTALL	VEHICULAR SIGNAL AUXILIARIES - BACKPLATE W/ REFLECTIVE BORDER	650-1-19	N/A	FOR REPLACEMENT OF EXISTING OR MISSING BACKPLATES. REMOVAL OF EXISTING EQUIPMENT CONSIDERED INCIDENTAL.	EA	\$204.90	25	\$5,122.50
PEDESTRIAN SIGNAL										
53	F/I	FURNISH/INSTALL	PEDESTRIAN SIGNAL - RE-LAMP	653-1-11	N/A	FOR REPLACEMENT OF PEDESTRIAN LED COUNTDOWN MODULE ONLY. REMOVAL OF EXISTING EQUIPMENT CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION 653.	EA	\$240.85	80	\$19,268.00
54	F/I	FURNISH/INSTALL	PEDESTRIAN SIGNAL - (1 WAY)	653-1-11	17764	FOR INSTALLATION OF PEDESTRIAN SIGNAL TO INCLUDE, COUNTDOWN LED INSERT, HOUSING, AND MOUNTING HARDWARE- REMOVAL OF EXISTING EQUIPMENT CONSIDERED INCIDENTAL.	AS	\$633.05	40	\$25,322.00
55	F/I	FURNISH/INSTALL	PEDESTRIAN SIGNAL - (2 WAY)	653-1-12	17764	FOR INSTALLATION OF PEDESTRIAN SIGNAL TO INCLUDE, COUNTDOWN LED INSERT, HOUSING, AND MOUNTING HARDWARE - REMOVAL OF EXISTING EQUIPMENT CONSIDERED INCIDENTAL.	AS	\$1,138.98	20	\$22,779.60
RECTANGULAR RAPID FLASHING BEACON										
56	F/I	FURNISH/INSTALL	RECTANGULAR RAPID FLASHING BEACON	654-2-21	TEM	FOR INSTALLATION OF COMPLETE ASSEMBLY - 1 WAY.	AS	\$6,500.00	2	\$13,000.00
57	F/I	FURNISH/INSTALL	RECTANGULAR RAPID FLASHING BEACON	654-2-22	TEM	FOR INSTALLATION OF COMPLETE ASSEMBLY - 2 WAY.	AS	\$6,500.00	2	\$13,000.00
MAST ARM, SPAN WIRE, AND POLE MOUNTING ASSEMBLIES										
58	M/E	REPAIR	MAST ARM, SPAN WIRE, POLE MOUNTING ASSEMBLY REPAIR/ REPLACE	659-1-11	N/A	INCLUDES REPLACEMENT OF DAMAGED TRAFFIC SIGNAL AND SIGN MOUNTING HARDWARE AND ADJUSTABLE HANGER ASSEMBLIES.	AS	\$349.88	1	\$349.88
59	M/E	REPAIR	MAST ARM, SPAN WIRE, POLE MOUNTING ASSEMBLY REPAIR/ REPLACE	659-1-12	N/A	INCLUDES REPLACEMENT OF DAMAGED TRAFFIC SIGNAL AND SIGN MOUNTING HARDWARE AND ADJUSTABLE HANGER ASSEMBLIES.	AS	\$549.98	2	\$1,099.96
LOOP ASSEMBLY										
60	F/I	INSTALL/REPAIR	LOOP TYPE B 6' X 6'	660-2-102	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$738.08	10	\$7,380.80
61	F/I	INSTALL/REPAIR	LOOP TYPE A 6' X 20'	660-2-101	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$854.24	10	\$8,542.40
62	F/I	INSTALL/REPAIR	LOOP TYPE A 6' X 30'	660-2-101	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$949.15	10	\$9,491.50
63	F/I	INSTALL/REPAIR	LOOP TYPE A 6' X 40'	660-2-101	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$1,044.07	10	\$10,440.70
64	F/I	INSTALL/REPAIR	LOOP TYPE F 6' X 20'	660-2-106	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$854.24	10	\$8,542.40
65	F/I	INSTALL/REPAIR	LOOP TYPE F 6' X 30'	660-2-106	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$949.15	10	\$9,491.50
66	F/I	INSTALL/REPAIR	LOOP TYPE F 6' X 40'	660-2-106	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$1,044.07	10	\$10,440.70

LINE ITEM NO.	ACTIVITY F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING		DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	UNIT BID PRICE	MULTIPLE R	EXTENDED BID PRICE
67	F/I	INSTALL/REPAIR	LOOP TYPE F 6' X 50'	660-2-106	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$1,138.98	5	\$5,694.90
VEHICLE DETECTION SYSTEM - MICROWAVE										
68	I/O	INSTALL	VEHICLE DETECTION SYSTEM - MICROWAVE	660-3-10	REFER TO MANATEE COUNTY DESIGN GUIDE	FOR COMPLETE SYSTEM INSTALLATION. ALL MAJOR MATERIALS PROVIDED BY COUNTY. INCIDENTAL ITEMS TO BE PROVIDED BY THE CONTRACTOR.	PI	\$1,360.93	2	\$2,721.86
69	F/I	INSTALL/REPAIR	VEHICLE DETECTION SYSTEM - MICROWAVE - ABOVE GROUND EQUIPMENT	660-3-12		FOR INSTALLATION OR REPLACEMENT OF ABOVE GROUND SYSTEM SENSORS. ALL MATERIALS AND SYSTEM SPECIFICATIONS MUST BE APPROVED BY THE COUNTY PRIOR TO PURCHASE.	EA	\$6,730.44	5	\$33,652.20
VEHICLE DETECTION SYSTEM - VIDEO										
70	F/O	REPAIR	VIDEO DETECTION SYSTEM - MAINTENANCE - PER INTERSECTION	660-4-80	REFER TO MANATEE COUNTY DESIGN GUIDE	CLEAN ALL LENSES, AND TIGHTEN CABLING AND CONNECTIONS, TERMINAL BOX, HOUSING AND MOUNTING BRACKETS, STRAIGHTEN CAMERA AND MOUNTING ASSEMBLY, AND READJUST DETECTION ZONES.	PI	\$680.47	20	\$13,609.40
71	I/O	INSTALL	VIDEO DETECTION SYSTEM (INSTALL) - CABINET EQUIPMENT (PER LOCATION)	660-4-31		FOR COMPLETE SYSTEM INSTALLATION. ALL MAJOR MATERIALS PROVIDED BY COUNTY. INCIDENTAL ITEMS TO BE PROVIDED BY THE CONTRACTOR.	EA	\$340.23	2	\$680.46
72	I/O	INSTALL	VIDEO CAMERA (INSTALL) - ABOVE GROUND EQUIPMENT (PER CAMERA)	660-4-32		USE FOR SINGLE OR MULTIPLE CAMERA INSTALLATIONS. COST PER SINGLE CAMERA INSTALLATION. ALL EQUIPMENT TO BE SUPPLIED BY MANATEE COUNTY. INCIDENTAL ITEMS TO BE PROVIDED BY THE CONTRACTOR.	EA	\$680.47	2	\$1,360.94
VEHICLE DETECTION SYSTEM - WIRELESS										
73	I/O	INSTALL AND/OR REPLACE	VEHICLE DETECTION SYSTEM - WIRELESS - CABINET EQUIPMENT - (PER INTERSECTION)	660-5-31	REFER TO MANATEE COUNTY DESIGN GUIDE	ALL EQUIPMENT TO BE SUPPLIED BY MANATEE COUNTY, TO INCLUDE SENSORS, CABLE AND CONNECTORS, MOUNTING HARDWARE AND CONTROL EQUIPMENT. INCIDENTAL ITEMS TO BE PROVIDED BY THE CONTRACTOR.	PI	\$340.23	2	\$680.46
74	I/O	INSTALL AND/OR REPLACE	VEHICLE DETECTION SYSTEM - WIRELESS - ABOVE GROUND EQUIPMENT (PER SENSOR)	660-5-32		FOR NEW INSTALLATION OR REPLACEMENT OF EXISTING SENSORS OR EQUIPMENT. COST PER SENSOR INSTALLATION. REMOVAL OF EXISTING DEVICE CONSIDERED INCIDENTAL. MANATEE COUNTY WILL PROVIDE ALL MAJOR MATERIALS, EQUIPMENT AND SENSORS. CONTRACTOR TO PROVIDE ANY INCIDENTAL ITEMS SUCH AS MISCELLANEOUS CONNECTORS OR HARDWARE TO COMPLETE THE INSTALLATION.	EA	\$170.12	10	\$1,701.20
75	I/O	INSTALL AND/OR REPLACE	VEHICLE DETECTION SYSTEM - WIRELESS - IN ROAD ELECTRONICS (PER SENSOR)	660-5-33		INSTALL PER MANUFACTURER SPECIFICATIONS. UPON REMOVING OR INSTALLING SENSOR THE ROAD SURFACE/PAVEMENT IS TO BE RESTORED TO ORIGINAL GRADE - SENSORS PROVIDED BY COUNTY.	EA	\$127.59	10	\$1,275.90
PEDESTRIAN DETECTOR										
76	I/O	INSTALL	PEDESTRIAN DETECTOR	665-1-30	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL PEDESTRIAN DETECTOR. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION 653. REPLACEMENT OF CABLING CONSIDERED ADDITIONAL. COUNTY SHALL PROVIDE ALL DETECTORS.	EA	\$127.59	20	\$2,551.80
77	I/O	INSTALL/REPLACE	PEDESTRIAN DETECTOR - STANDARD PUSHBUTTON	665-1-90		DIAGNOSE AND REPAIR PEDESTRIAN DETECTOR PUSHBUTTON. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION 653. REPLACEMENT OF CABLING CONSIDERED ADDITIONAL. COUNTY SHALL PROVIDE ALL PUSH BUTTONS.	EA	\$127.59	20	\$2,551.80
78	I/O	INSTALL/REPLACE	PEDESTRIAN DETECTOR - ACCESSIBLE (AUDIBLE) PUSHBUTTON	665-1-90		DIAGNOSE AND REPAIR AUDIBLE PEDESTRIAN DETECTOR PUSHBUTTON. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION 653. REPLACEMENT OF CABLING CONSIDERED ADDITIONAL. COUNTY SHALL PROVIDE ALL PUSH BUTTONS. RETURN DAMAGED AUDIBLE PUSHBUTTONS TO THE COUNTY FOR REPAIR.	EA	\$127.59	5	\$637.95
TRAFFIC CONTROLLER ASSEMBLY										
79	I/O	INSTALL	TRAFFIC CONTROLLER ASSEMBLY - CONTROLLER WITH CABINET	670-5-300	17841	EQUIPMENT PROVIDED BY COUNTY. REMOVAL OF EXISTING CONTROLLER CABINET AND EQUIPMENT SHALL BE CONSIDERED INCIDENTAL. REMOVAL AND RE-INSTALLATION OF UPS AND UPS CABINET CONSIDERED AS AN ADDITIONAL ITEM. DOES NOT INCLUDE FOUNDATION.	AS	\$2,372.88	2	\$4,745.76
80	M/E	RELOCATE	TRAFFIC CONTROLLER ASSEMBLY - CONCRETE FOUNDATION	670-5-500	17841	INCLUDES RELOCATING OR REBUILDING EXISTING CONTROLLER CABINET FOUNDATION. INCLUDES REMOVAL AND DISPOSAL OF OLD BASE MATERIAL, REWORK EXISTING CONDUIT, INSTALL NEW CONCRETE FOUNDATION, AND RESTORE WORKSITE TO THE PRE-WORK CONDITION.	EA	\$2,180.53	2	\$4,361.06
81	M/E	REMOVE	TRAFFIC CONTROLLER ASSEMBLY - CONCRETE FOUNDATION - REMOVE	670-5-600	17841	INCLUDES REMOVAL ONLY OF EXISTING CONTROLLER CABINET AND FOUNDATION. INCLUDES DISPOSAL OF OLD BASE MATERIAL, AND RESTORE WORKSITE TO THE PRE-WORK CONDITION.	EA	\$768.64	2	\$1,537.28
82	I/O	INSTALL	TRAFFIC CONTROLLER ASSEMBLY - CONCRETE FOUNDATION - INSTALL	670-5-100	17841	FURNISH AND INSTALL CONTROLLER CABINET CONCRETE FOUNDATION. INCLUDES, TECH LANDING PAD AND CONDUIT. COUNT AND SPACING OF CONDUIT MAY VARY PER INSTALLATION. MAY BE USED FOR CONTROLLER CABINET OR EMERGENCY GENERATOR CABINET.	EA	\$1,500.06	2	\$3,000.12
ITS CABINET										
83	I/O	INSTALL	ITS CABINET - CCTV	676-2-300	18108	INSTALL ITS CABINET FOR CCTV. COUNTY TO PROVIDE CABINET. CONTRACTOR SHALL PROVIDE ALL HARDWARE AND MATERIALS TO MOUNT THE CABINET, CONNECT POWER AND COMMUNICATION.	EA	\$370.19	2	\$740.38
SYSTEM CONTROL EQUIPMENT										
84	I/O	INSTALL	ADAPTIVE SIGNAL CONTROL SYSTEM - INSTALL	680-1-300	N/A	FOR INSTALLATION ONLY OF ADAPTIVE SIGNAL CONTROL SYSTEM. COUNTY TO PROVIDE ALL MATERIALS.	PI	\$1,360.93	1	\$1,360.93
CCTV CAMERA										
85	I/O	INSTALL	CCTV CAMERA	682-1-33	REFER TO MANATEE COUNTY DESIGN GUIDE	FOR INSTALLATION OF CAMERA. REMOVAL OF EXISTING CAMERA CONSIDERED INCIDENTAL. RETURN ALL REMOVED DEVICES TO THE COUNTY.	EA	\$680.47	2	\$1,360.94
FIBER OPTIC CABLE										
86	I/O	INSTALL	FIBER OPTIC CABLE - INSTALL ONLY - BRIDGE MOUNT	633-1-310	18202-18204	INSTALL FIBER OPTIC CABLE, BRIDGE MOUNT, VARIOUS SIZES. ALL MATERIALS PROVIDED BY MANATEE COUNTY.	LF	\$5.00	1,000	\$5,000.00

LINE ITEM NO.	ACTIVITY F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING		DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	UNIT BID PRICE	MULTIPLE R	EXTENDED BID PRICE
87	I/O	INSTALL	FIBER OPTIC CABLE - INSTALL ONLY - UNDERGROUND	633-1-320	18202-18204	INSTALL FIBER OPTIC CABLE, UNDERGROUND, VARIOUS SIZES. ALL PROVIDED BY MANATEE COUNTY.	LF	\$3.50	5,000	\$17,500.00
FIBER OPTIC CONNECTION										
88	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION - SPLICE	633-2-31	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$41.76	288	\$12,026.88
89	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION - TERMINATION	633-2-31		INSTALL FIBER OPTIC CABLE SPLICE, PER TERMINATION, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$78.83	16	\$1,261.28
FIBER OPTIC CONNECTION - HARDWARE										
90	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION- HARDWARE - SPLICE ENCLOSURE	633-3-11	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$696.11	1	\$696.11
91	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION- HARDWARE - SPLICE TRAY	633-3-12		INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$57.90	1	\$57.90
92	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION- HARDWARE - PRE-TERMINATED CONNECTOR ASSEMBLY	633-3-13		INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$50.30	1	\$50.30
93	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION- HARDWARE - BUFFER TUBE FAN OUT KIT	633-3-14		INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$200.21	1	\$200.21
94	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION- HARDWARE - PATCH PANEL - PRE-TERMINATED	633-3-15		INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$1,233.89	1	\$1,233.89
95	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION- HARDWARE - PATCH PANEL - FIELD TERMINATED	633-3-16		INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$1,456.94	1	\$1,456.94
96	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION- HARDWARE - CONNECTOR PANEL	633-3-17		INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$141.42	1	\$141.42
UNINTERRUPTABLE POWER SUPPLY										
97	F/I	FURNISH/INSTALL	UNINTERRUPTABLE POWER SUPPLY	685-1-13	REFER TO MANATEE COUNTY DESIGN GUIDE	FURNISH AND INSTALL A COMPLETE UPS ASSEMBLY TO INCLUDE, UPS, CABINET AND BATTERIES. ALL MATERIALS SHALL BE APPROVED BY THE COUNTY BEFORE PURCHASE AND INSTALLATION.	EA	\$7,061.68	2	\$14,123.36
98	I/O	INSTALL/REPAIR	UNINTERRUPTABLE POWER SUPPLY - BATTERY	685-1-231		INSTALL/ REPLACE BATTERY. MAJOR MATERIAL PROVIDED BY THE COUNTY. INCIDENTAL ITEMS TO BE PROVIDED BY THE CONTRACTOR. PAY ITEM INCLUDES REMOVAL AND DISPOSAL OF EXISTING BATTERY THROUGH COUNTY BATTERY SUPPLIER.	EA	\$85.06	20	\$1,701.20
SINGLE POST SIGN										
99	F/I	FURNISH/INSTALL	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	700-1-11	FDOT BOE	THESE ITEMS INCLUDE ALL SIGN PANEL(S), POST(S) AND FOUNDATION FOR A COMPLETE ASSEMBLY. ENSURE THAT SIGN ASSEMBLIES MEET THE WIND LOAD AREA REQUIREMENTS OF THE DESIGN STANDARDS. FOR DETERMINING THE SHEETING AREA FOR PAYMENT, ADD THE AREA OF ALL SIGN MESSAGES ON THE ASSEMBLY (FRONT AND BACK MESSAGES).	AS	\$379.66	1	\$379.66
100	F/I	FURNISH/INSTALL	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	700-1-12			AS	\$1,095.52	1	\$1,095.52
101	F/I	FURNISH/INSTALL	SINGLE POST SIGN, F&I GROUND MOUNT, 21-30 SF	700-1-13			AS	\$1,545.70	1	\$1,545.70
102	F/I	FURNISH/INSTALL	SINGLE POST SIGN, F&I GROUND MOUNT, 31+ SF	700-1-14			AS	\$2,088.14	1	\$2,088.14
103	M/E	REPAIR	SINGLE POST SIGN, F&I GROUND MOUNT REPAIR	700-1-80			FOR REPAIR OF GROUND MOUNT TRAFFIC SIGNS, INCLUDES POLE (U-CHANNEL AND BASE) REPLACEMENT AS NEEDED.	AS	\$260.00	1
INTERNALLY ILLUMINATED SIGN										
104	I/O	INSTALL	INTERNALLY-ILLUMINATED SIGN - INSTALL ONLY	700-5-40	17748	FOR INSTALLATION OF INTERNALLY ILLUMINATED SIGN, INSTALLATION OF POWER CABLE CONSIDERED INCIDENTAL. COUNTY TO PROVIDE ALL SIGNS. CONTRACTOR SHALL PROVIDE ALL MOUNTING HARDWARE, CABLING AND MISCELLANEOUS CONNECTORS HARDWARE TO COMPLETE THE INSTALLATION. ADDITIONAL INFO SECTION A699.	EA	\$510.35	1	\$510.35
105	M/E	REMOVE	INTERNALLY-ILLUMINATED SIGN - REMOVAL	700-5-60	17748	REMOVAL OF SIGN ASSEMBLY. MAY BE USED FOR UPGRADES OR REPLACEMENTS.	EA	\$170.12	1	\$170.12
106	M/E	MODIFY	INTERNALLY-ILLUMINATED SIGN - LED RETROFIT	M700-5-70	REFER TO MANATEE COUNTY DESIGN GUIDE	REMOVAL OF FLUORESCENT LAMP AND BALLAST AND REPLACE WITH FDOT APPROVED LED RETROFIT KIT. CONTRACTOR TO DISPOSE OF LAMPS, BALLASTS, OR UNUSABLE MATERIALS PROPERLY. CONTRACTOR TO PROVIDE MATERIALS.	EA	\$554.78	1	\$554.78
107	M/E	REPAIR	INTERNALLY-ILLUMINATED SIGN - REPAIR - LED	M700-5-70		DIAGNOSE AND REPAIR LED SIGN. REPLACE LED DRIVER. CONTRACTOR TO PROVIDE MATERIALS.	EA	\$409.80	20	\$8,196.00
108	M/E	REPAIR	INTERNALLY-ILLUMINATED SIGN - REPAIR - FLUORESCENT	M700-5-70		DIAGNOSE AND REPAIR FLUORESCENT SIGN. REPLACE LAMP AND BALLAST. CONTRACTOR TO PROVIDE MATERIALS.	EA	\$351.05	5	\$1,755.25
109	M/E	REPAIR	INTERNALLY-ILLUMINATED SIGN - REFACE	M700-5-70		REPLACE EXISTING SIGN FACE. REPLACEMENT SHALL BE EXACT FIT, USE EXISTING DESIGN, AND FDOT AND MUTCD COMPLIANT MATERIALS. CONTRACTOR TO PROVIDE MATERIALS.	EA	\$575.20	20	\$11,504.00
110	M/E	REMOVE/INSTALL	INTERNALLY-ILLUMINATED SIGN - RELOCATE SIGN	700-5-50		INCLUDES RELOCATING AND RECONNECTING ALL WIRING AND HARDWARE. CONTRACTOR TO PROVIDE ANY ADDITIONAL MATERIALS NECESSARY TO COMPLETE THE INSTALLATION. SPLICES IN CONDUCTORS MAY BE PERMITTED ONLY AT HAND HOLE ACCESS POINTS. ALL CABLING SHALL BE PROPERLY DRESSED AND TAGGED.	EA	\$1,020.70	1	\$1,020.70
FLASHING BEACONS										
111	I/O	INSTALL	SIGN BEACON - INSTALL ONLY	700-12-41	11862	COUNTY TO PROVIDE MATERIALS. CONTRACTOR TO REMOVE AND DISPOSE OF DEBRIS, RESTORE LANDSCAPE TO THE PRE-WORK GRADE CONSTRUCTION CONDITION AND BE COMPATIBLE WITH SURROUNDING GROUND AREAS.	EA	\$680.47	1	\$680.47
SERVICES										
112	F/O	FURNISH	LABOR	None	N/A	COST PER TECHNICIAN PER HOUR.	HR	\$85.06	1	\$85.06
113	F/O	FURNISH	MATERIAL	None	N/A	FOR ADDITIONAL MATERIALS. MARKUP NOT TO EXCEED 10%.	EA	\$1.10	1	\$1.10
114	F/O	FURNISH	MOBILIZATION	101- Maint	FDOT BOE	THIS ITEM IS PAID PER LOCATION FOR SHORT DURATION WORK LASTING LESS THAN 2 DAYS. THIS ITEM IS USED FOR MOBILIZATION AND MOT COSTS ASSOCIATED WITH TROUBLE CALLS AND EMERGENCY RESPONSE. NO ADDITIONAL MOT PAY ITEMS MAY BE USED WITH THIS ITEM.	EA	\$340.23	1	\$340.23
115	F/O	FURNISH	MAINTENANCE OF TRAFFIC (MOT)	102-1- MOT	FDOT BOE	FOR PROJECTS LASTING TWO (2) OR MORE DAYS AT THE SAME PROJECT LOCATION, PROVIDE MAINTENANCE OF TRAFFIC BILLED PER DAY. COSTS FOR TEMPORARY MOT LASTING LESS THAN TWO (2) DAYS TO BE INCLUDED IN MOBILIZATION COSTS (SEE 101-MAINT).	DAY	\$487.73	1	\$487.73

LINE ITEM NO.	ACTIVITY F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING		DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	UNIT BID PRICE	MULTIPLIE R	EXTENDED BID PRICE
116	F/O	FURNISH	HEAVY EQUIPMENT	M-1-A	N/A	PROVIDE HOURLY USE OF SPECIALTY HEAVY EQUIPMENT. THIS PAY ITEM IS NOT TO BE USED IN COMBINATION WITH FURNISH AND INSTALL PAY ITEMS ABOVE.	HR	\$224.00	1	\$224.00
117	F/O	FURNISH	PROFESSIONAL/TECHNICAL SERVICES	M-2-A	N/A	PROVIDE HOURLY PROFESSIONAL AND TECHNICAL SERVICES. THIS PAY ITEM IS NOT TO BE USED IN COMBINATION WITH FURNISH AND INSTALL PAY ITEMS ABOVE.	HR	\$350.00	1	\$350.00

EXHIBIT C, AFFIDAVIT OF NO CONFLICT

STATE OF Georgia
COUNTY OF Paulding

BEFORE ME, the undersigned authority, this day personally appeared [INSERT NAME] _____
Joshua M. Lippincott, as [INSERT TITLE] Account Manager of
[INSERT CONTRACTOR NAME] Siemens Mobility, Inc., (hereinafter
"CONTRACTOR") with full authority to bind CONTRACTOR, who being first duly sworn,
deposes and says that CONTRACTOR:

- (a) Is not currently engaged and will not become engaged in any obligations, undertakings or contracts that will require CONTRACTOR to maintain an adversarial role against the County or that will impair or influence the advice, recommendations or quality of work provided to the County; and
- (b) Has provided full disclosure of all potentially conflicting contractual relationships and full disclosure of contractual relationships deemed to raise a question of conflict(s); and
- (c) Has provided full disclosure of prior work history and qualifications that may be deemed to raise a possible question of conflict(s).

Affiant makes this Affidavit for the purpose of inducing Manatee County, a political subdivision of the State of Florida, to enter into this Agreement No21-R076431BB for Traffic Signal and Intelligent Transportation Systems Maintenance (550-88)

DATED this 19 day of May, 2021.

[Handwritten Signature]
CONTRACTOR Signature

The foregoing instrument was sworn to and acknowledged before me this 19th day of May, 2021, by [NAME] Joshua M. Lippincott, as [TITLE] _____ of [CONTRACTOR] _____. He / She is personally known to me or has produced Drivers license [TYPE OF IDENTIFICATION] as identification.

[Handwritten Signature]
Notary Signature

Commission No. N/A



EXHIBIT D, INSURANCE REQUIREMENTS

The CONTRACTOR will not commence work under the resulting Agreement until all insurance coverages indicated by an “X” herein have been obtained. The CONTRACTOR shall obtain and submit to the Procurement Division within ten (10) calendar days from the date of notice of intent to award, at its expense, the following minimum amounts of insurance (inclusive of any amounts provided by an umbrella or excess policy): Work under this Agreement cannot commence until all insurance coverages indicated herein have been obtained on a standard ACORD form (inclusive of any amounts provided by an umbrella or excess policy):

Automobile Liability Insurance Required Limits

Coverage must be afforded under a per occurrence policy form including coverage for all owned, hired and non-owned vehicles for bodily injury and property damage of not less than:

- \$1,000,000 Combined Single Limit; OR
- \$ 500,000 Bodily Injury and \$500,000 Property Damage
- \$10,000 Personal Injury Protection (No Fault)
- \$500,000 Hired, Non-Owned Liability
- \$10,000 Medical Payments

This policy shall contain severability of interests’ provisions.

Commercial General Liability Insurance Required Limits (per Occurrence form only; claims-made form is not acceptable)

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name ‘Manatee County, a political subdivision of the State of Florida’ as an Additional Insured, and include limits not less than:

- \$1,000,000 Single Limit Per Occurrence
- \$2,000,000 Aggregate
- \$1,000,000 Products/Completed Operations Aggregate
- \$1,000,000 Personal and Advertising Injury Liability
- \$50,000 Fire Damage Liability
- \$10,000 Medical Expense, and
- \$1,000,000, Third Party Property Damage
- \$ Project Specific Aggregate (Required on projects valued at over \$10,000,000)

This policy shall contain severability of interests’ provisions.

Employer’s Liability Insurance

Coverage limits of not less than:

- \$100,000 Each Accident
- \$500,000 Disease Each Employee
- \$500,000 Disease Policy Limit

Worker's Compensation Insurance

US Longshoremen & Harbor Workers Act

Jones Act Coverage

Coverage limits of not less than:

- Statutory workers' compensation coverage shall apply for all employees in compliance with the laws and statutes of the State of Florida and the federal government
- If any operations are to be undertaken on or about navigable waters, coverage must be included for the US Longshoremen & Harbor Workers Act and Jones Act

Should 'leased employees' be retained for any part of the project or service, the employee leasing agency shall provide evidence of Workers' Compensation coverage and Employer's Liability coverage for all personnel on the worksite and in compliance with the above Workers' Compensation requirements. NOTE: Workers' Compensation coverage is a firm requirement. Elective exemptions are considered on a case-by-case basis and are approved in a very limited number of instances.

Aircraft Liability Insurance Required Limits

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name 'Manatee County a political subdivision of the State of Florida' as an Additional Insured, and include limits not less than:

- \$ Each Occurrence Property and Bodily Injury with no less than \$100,000 per passenger each occurrence or a 'smooth' limit
- \$ General Aggregate

Un-Manned Aircraft Liability Insurance (Drone)

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name 'Manatee County a political subdivision of the State of Florida' as an Additional Insured, and include limits not less than:

- \$ Each Occurrence Property and Bodily Injury; Coverage shall specifically include operation of Unmanned Aircraft Systems (UAS), including liability and property damage
- \$ General Aggregate

Installation Floater Insurance

When the contract or agreement **does not** include construction of, or additions to, above ground building or structures, but does involve the installation of machinery or equipment, Installation Floater Insurance shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured, and include limits not less than:

- 100% of the completed value of such addition(s), building(s), or structure(s)

Professional Liability and/or Errors and Omissions (E&O) Liability Insurances

Coverage shall be afforded under either an occurrence policy form or a claims-made policy form. If the coverage form is on a claims-made basis, then coverage must be maintained for a minimum of three years from termination of date of the contract. Limits must not be less than:

- \$ 1,000,000 Bodily Injury and Property Damage Each Occurrence
- \$ 2,000,000 General Aggregate

Builder's Risk Insurance

When the contract or agreement includes the construction of roadways and/or the addition of a permanent structure or building, including the installation of machinery and/or equipment, Builder's Risk Insurance shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured, and include limits not less than:

- An amount equal to 100% of the completed value of the project, or the value of the equipment to be installed
- The policy shall not carry a self-insured retention/deductible greater than \$10,000

Coverage shall be for all risks and include, but not be limited to, storage and transport of materials, equipment, supplies of any kind whatsoever to be used on or incidental to the project, theft coverage, and Waiver of Occupancy Clause Endorsement, where applicable.

Cyber Liability Insurance

Coverage shall comply with Florida Statute 501.171, shall be afforded under a per occurrence policy form, policy shall be endorsed and name 'Manatee County, a political subdivision of the State of Florida' as an Additional Insured, and include limits not less than:

- \$ Security Breach Liability
- \$ Security Breach Expense Each Occurrence
- \$ Security Breach Expense Aggregate
- \$ Replacement or Restoration of Electronic Data
- \$ Extortion Threats
- \$ Business Income and Extra Expense
- \$ Public Relations Expense

NOTE: Policy must not carry a self-insured retention/deductible greater than \$25,000.

Hazardous Materials Insurance (As Noted Below)

Hazardous materials include all materials and substances that are currently designated or defined as hazardous by the law or rules of regulation by the State of Florida or federal government.

All coverage shall be afforded under either an occurrence policy form or a claims-made policy form, and the policy shall be endorsed and name 'Manatee County, a political subdivision of the State of Florida' as an Additional Insured. If the coverage form is on a claims-made basis, then coverage must be maintained for a minimum of three years from termination of date of the contract. Limits must not be less than:

Pollution Liability

Amount equal to the value of the contract, subject to a \$1,000,000 minimum, for Bodily Injury and Property Damage to include sudden and gradual release, each claim and aggregate.

Asbestos Liability (If handling within scope of Contract)

Amount equal to the value of the contract, subject to a \$1,000,000 minimum, for Bodily Injury and Property Damage to include sudden and gradual release, each claim and aggregate.

Disposal

When applicable, CONTRACTOR shall designate the disposal site and furnish a Certificate of Insurance from the disposal facility for Environmental Impairment Liability Insurance covering liability.

- Amount equal to the value of the contract, subject to a \$1,000,000 minimum, for Liability for Sudden and Accidental Occurrences, each claim and an aggregate
- Amount equal to the value of the contract, subject to a \$1,000,000 minimum, for Liability for Non-Sudden and Accidental Occurrences, each claim and an aggregate

Hazardous Waste Transportation Insurance

CONTRACTOR shall designate the hauler and have the hauler furnish a Certificate of Insurance for Automobile Liability insurance with Endorsement MCS-90 for liability arising out of the transportation of hazardous materials. EPA identification number shall be provided.

All coverage shall be afforded under either an occurrence policy form or a claims-made policy form and the policy shall be endorsed and name “Manatee County, a political subdivision of the State of Florida” as an Additional Insured. If the coverage form is on a claims-made basis, then coverage must be maintained for a minimum of three years from termination of date of the contract. Limits must not be less than:

- Amount equal to the value of the contract, subject to a \$1,000,000 minimum, per accident

Liquor Liability Insurance

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name “Manatee County, a political subdivision of the State of Florida” as an Additional Insured, and include limits not less than:

- \$1,000,000 Each Occurrence and Aggregate

Garage Keeper’s Liability Insurance

Coverage shall be required if the maintenance, servicing, cleaning or repairing of any County motor vehicles is inherent or implied within the provision of the contract.

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name “Manatee County, a political subdivision of the State of Florida” as an Additional Insured,

and include limits not less than:

- Property and asset coverage in the full replacement value of the lot or garage

Bailee’s Customer Liability Insurance

Coverage shall be required for damage and/or destruction when County property is temporarily under the care or custody of a person or organization, including property that is on, or in transit to and from the person or organization’s premises. Perils covered should include fire, lightning, theft, burglary, robbery, explosion, collision, flood, earthquake and damage or destruction during transportation by a carrier.

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name “Manatee County, a political subdivision of the State of Florida” as an Additional Insured, and include limits not less than:

- Property and asset coverage in the full replacement value of the County asset(s) in the CONTRACTOR’S care, custody and control

Hull and Watercraft Liability Insurance

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name “Manatee County, a political subdivision of the State of Florida” as an Additional Insured, and include limits not less than:

- \$ Each Occurrence
- \$ General Aggregate
- \$ Fire Damage Liability
- \$10,000 Medical Expense, and
- \$ Third Party Property Damage
- \$ Project Specific Aggregate (Required on projects valued at over \$10,000,000)

INSURANCE REQUIREMENTS

THE POLICIES ARE TO CONTAIN, OR BE ENDORSED TO CONTAIN, THE FOLLOWING PROVISIONS:

Commercial General Liability and Automobile Liability Coverages

A. **“Manatee County, a Political Subdivision of the State of Florida,” is to be named as an Additional Insured in respect to:** Liability arising out of activities performed by or on behalf of the CONTRACTOR, his agents, representatives, and employees; products and completed operations of the CONTRACTOR; or automobiles owned, leased, hired or borrowed by the CONTRACTOR. The coverage shall contain no special limitation(s) on the scope of protection afforded to the COUNTY, its officials, employees or volunteers.

In addition to furnishing a Certificate of Insurance, the CONTRACTOR shall provide the endorsement that evidences Manatee COUNTY being listed as an Additional Insured. This can be done in one of two ways: (1) an endorsement can be issued that specifically lists

“Manatee County, a Political Subdivision of the State of Florida,” as Additional Insured; or, (2) an endorsement can be issued that states that all Certificate Holders are Additional Insured with respect to the policy.

- B. The CONTRACTOR'S insurance coverage shall be primary insurance with respect to the COUNTY, its officials, employees and volunteers. Any insurance or self-insurance maintained by the COUNTY, its officials, employees or volunteers shall be excess of CONTRACTOR'S insurance and shall be non-contributory.
- C. The insurance policies must be on an occurrence form.

Workers' Compensation and Employers' Liability Coverages

The insurer shall agree to waive all rights of subrogation against the COUNTY, its officials, employees and volunteers for losses arising from work performed by the CONTRACTOR for the COUNTY.

General Insurance Provisions Applicable To All Policies:

- A. Prior to the execution of contract, or issuance of a Purchase Order, and then annually upon the anniversary date(s) of the insurance policy's renewal date(s) for as long as this contract remains in effect, CONTRACTOR shall furnish the COUNTY with a Certificate(s) of Insurance (using an industry accepted certificate form, signed by the Issuer, with applicable endorsements, and containing the solicitation or contract number, and title or description) evidencing the coverage set forth above and naming “Manatee County, a Political Subdivision of the State of Florida” as an Additional Insured on the applicable coverage(s) set forth above.
- B. If the policy contains an aggregate limit, confirmation is needed in writing (letter, email, etc.) that the aggregate limit has not been eroded to procurement representative when supplying Certificate of Insurance.
- C. In addition, when requested in writing from the COUNTY, CONTRACTOR will provide the COUNTY with a certified copy of all applicable policies. The address where such certificates and certified policies shall be sent or delivered is as follows:

**Manatee County, a Political Subdivision of the State of Florida
Attn: Risk Management Division
1112 Manatee Avenue West, Suite 969
Bradenton, FL 34205**

The project's solicitation number and title shall be listed on each certificate.

- D. CONTRACTOR shall provide thirty (30) days written notice to the Risk Manager of any cancellation, non-renewal, termination, material change, or reduction in coverage of any insurance policies to procurement representative including solicitation number and title with all notices.

- E. CONTRACTOR agrees that should at any time CONTRACTOR fail to meet or maintain the required insurance coverage(s) as set forth herein, the COUNTY may terminate this contract.
- F. The CONTRACTOR waives all subrogation rights against COUNTY, a Political Subdivision of the State of Florida, for all losses or damages which occur during the contract and for any events occurring during the contract period, whether the suit is brought during the contract period or not.
- G. The CONTRACTOR has sole responsibility for all insurance premiums and policy deductibles.
- H. It is the CONTRACTOR'S responsibility to ensure that his agents, representatives and subcontractors comply with the insurance requirements set forth herein. CONTRACTOR shall include his agents, representatives, and subcontractors working on the project or at the worksite as insured under its policies, or CONTRACTOR shall furnish separate certificates and endorsements for each agent, representative, and subcontractor working on the project or at the worksite. All coverages for agents, representatives, and subcontractors shall be subject to all of the requirements set forth to the procurement representative.
- I. All required insurance policies must be written with a carrier having a minimum A.M. Best rating of A- FSC VII or better. In addition, the COUNTY has the right to review the deductible or self-insured retention and to require that it be reduced or eliminated. CONTRACTOR'S
- J. CONTRACTOR understands and agrees that the stipulated limits of coverage listed herein in this insurance section shall not be construed as a limitation of any potential liability to the COUNTY, or to others, and the COUNTY'S failure to request evidence of this insurance coverage shall not be construed as a waiver of CONTRACTOR'S obligation to provide and maintain the insurance coverage specified.
- K. CONTRACTOR understands and agrees that the COUNTY does not waive its immunity and nothing herein shall be interpreted as a waiver of the COUNTY'S rights, including the limitation of waiver of immunity, as set forth in Florida Statutes 768.28, or any other statutes, and the COUNTY expressly reserves these rights to the full extent allowed by law.
- L. No award shall be made until the Procurement Division has received the Certificate of Insurance in accordance with this section.

[Remainder of page intentionally left blank]

EXHIBIT D, CONTRACTOR'S INSURANCE STATEMENT

THE UNDERSIGNED has read and understands the aforementioned insurance requirements of this Agreement and shall provide the insurance required by this section within ten (10) days from the date of notice of intent to award.

Date: 5/19/2021

Contractor's Name: Siemens Mobility, Inc.

Authorized Signature: 

Printed Name/Title: Joshua M. Lippincott / Service Account Manager

Insurance Agency: Marsh USA

Agent Name: Manashi Mukherjee

Agent Phone: (973) 401-5000

Please return this completed and signed statement with your agreement.



AGREEMENT NO. 21-R076431BB

**TRAFFIC SIGNAL AND INTELLIGENT TRANSPORTATION
SYSTEMS MAINTENANCE**

between

**MANATEE COUNTY
(COUNTY)**

and

**TRAFFIC CONTROL DEVICES, INC.
(CONTRACTOR)**

**AGREEMENT FOR TRAFFIC SIGNAL AND INTELLIGENT TRANSPORTATION
SYSTEMS MAINTENANCE**

THIS AGREEMENT is made and entered into as of this 8th day of June, 2021, by and between **MANATEE COUNTY**, a political subdivision of the State of Florida, (“**COUNTY**”), with offices located at 1112 Manatee Avenue West, Bradenton, Florida 34205 and **TRAFFIC CONTROL DEVICES, INC.**, a Florida Corporation, (“**CONTRACTOR**”), with offices located at 242 North Westmonte Drive, Altamonte Springs, FL 32714, and duly authorized to conduct business in the State of Florida. **COUNTY** and **CONTRACTOR** are collectively referred to as the “Parties” and individually as “Party.”

WHEREAS, **CONTRACTOR** engages in the business of traffic signal and intelligent transportation systems maintenance services; and

WHEREAS, **COUNTY** has determined that it is necessary, expedient and in the best interest of **COUNTY** to retain **CONTRACTOR** to render the non-professional services described in this Agreement; and

WHEREAS, this Agreement is a result of **CONTRACTOR'S** submission of a bid in response to Invitation for Bid No. 21-R076431BB and **COUNTY** thereafter conducted a competitive selection process in accordance with the Manatee County Procurement Code.

NOW, THEREFORE, the **COUNTY** and **CONTRACTOR**, in consideration of the mutual covenants, promises, and representations contained herein, the sufficiency of which is hereby acknowledged, the Parties hereto agree as follows:

ARTICLE 1. SCOPE OF SERVICES

CONTRACTOR shall provide non-professional services as described in **Exhibit A**, Scope of Services (“Services”). “Task” as used in this Agreement, refers to particular categories/groupings of Services specified in **Exhibit A**.

ARTICLE 2. EXHIBITS INCORPORATED

This Agreement consists of a primary contract and four (4) exhibits, which are as follows:

Exhibit A, Scope of Services

Exhibit B, Fee Rate Schedule

Exhibit C, Affidavit of No Conflict

Exhibit D, Insurance Requirements and Contractor’s Insurance Statement

These Exhibits are attached hereto and are incorporated into this Agreement. In the event of a conflict between the terms and conditions provided in the Articles of this Agreement and any Exhibit, the provisions contained within these Articles shall prevail unless the Exhibit specifically states that it shall prevail.

ARTICLE 3. AGREEMENT TERM

- A. This Agreement shall commence on the date of execution by COUNTY (“Effective Date”). This Agreement shall remain in force through June 7, 2024 unless terminated by COUNTY pursuant to Article 8, but not to exceed three (3) years.
- B. COUNTY reserves the right to extend the initial term of three (3) years for an additional two (2) one-year periods.

ARTICLE 4. COMPENSATION

- A. CONTRACTOR shall be compensated for the Services and all expenditures incurred in providing the Services.
- B. The fee rates specified in **Exhibit B** shall be the total compensation for the Services and shall contain all applicable costs, to include salaries, office operation, transportation, equipment, overhead, general and administrative, incidental expenses, fringe benefits and operating margin.

ARTICLE 5. INVOICES AND TIME OF PAYMENT

- A. Subject to the provisions of this Agreement, COUNTY shall pay CONTRACTOR for the Services at a rate of compensation according to the deliverable payment schedule stated in **Exhibit B**.
- B. COUNTY shall approve of all invoices prior to payment.
- C. COUNTY shall have forty-five (45) days from the receipt of an invoice seeking payment of fees or costs to either pay the invoice, or notify CONTRACTOR that the deliverable, or any part thereof, is unacceptable.
- D. COUNTY shall have the right to retain from any payment due CONTRACTOR under this Agreement, an amount sufficient to satisfy any amount of liquidated damages due and owing to COUNTY by CONTRACTOR on any other Agreement between CONTRACTOR and COUNTY.
- E. All costs of providing the Services shall be the responsibility of CONTRACTOR.
- F. Any dispute between COUNTY and CONTRACTOR with regard to the Services or CONTRACTOR’S invoice shall be resolved pursuant to the dispute resolution procedures established by Manatee County Procurement Code and Article 12 of this Agreement.

ARTICLE 6. RESPONSIBILITIES OF CONTRACTOR

- A. CONTRACTOR shall appoint an Agent with respect to the Services to be performed by

CONTRACTOR pursuant to this Agreement. CONTRACTOR'S Agent shall have the authority to make representations on behalf of CONTRACTOR, receive information, and interpret and define the needs of CONTRACTOR and make decisions pertinent to the Services. CONTRACTOR'S Agent shall have the right to designate other employees of CONTRACTOR to serve in his or her absence. CONTRACTOR reserves the right to designate a different agent, provided that COUNTY is given advance written notice thereof.

- B. CONTRACTOR shall perform the Services in accordance with the terms and conditions of this Agreement.
- C. CONTRACTOR shall ensure that all employees assigned to render the Services are duly qualified, registered, licensed or certified to provide the Services required.
- D. CONTRACTOR shall be responsible for collecting all existing data required for the successful completion of each Task.
- E. CONTRACTOR shall not engage in any obligations, undertakings, contracts or professional obligations that create a conflict of interest, or even an appearance of a conflict of interest, with respect to the Services. CONTRACTOR attests to this via an Affidavit of No Conflict, **Exhibit C**.
- F. CONTRACTOR shall be entitled to rely upon information provided from COUNTY. Information may include, but is not limited to, additional services, consultations, investigations, and reports necessary for the execution of CONTRACTOR'S work under this Agreement. CONTRACTOR shall be fully responsible for verifying, to the extent practicable, documents and information provided by COUNTY and identifying any obvious deficiencies concerning the documents and information provided. CONTRACTOR shall notify COUNTY of any errors or deficiencies noted in such information provided and assist, to the extent practicable, COUNTY in the identification and resolution of same. CONTRACTOR agrees to incorporate the provisions of this paragraph in any subcontract into which it might enter with reference to the work performed under this Agreement.
- G. CONTRACTOR shall be responsible for the professional quality and technical accuracy of the Services and any other services furnished by CONTRACTOR under this Agreement. CONTRACTOR shall, without additional compensation, correct or revise any errors or deficiencies in the Services.
- H. CONTRACTOR shall maintain an adequate and competent staff of professionally qualified persons during the term of this Agreement for the purpose of rendering the required Services hereunder. CONTRACTOR shall not sublet, assign or transfer any Services without prior written consent of COUNTY.
- I. COUNTY may require in writing that CONTRACTOR remove from the Services any of CONTRACTOR'S personnel that COUNTY determines to be incompetent, careless or otherwise objectionable. No claims for an increase in compensation or agreement term based on COUNTY'S use of this provision will be valid.

- J. CONTRACTOR understands and agrees that this is a firm fixed price contract and that there shall be no allowances or reimbursement for any cost whatsoever except as otherwise explicitly provided in this Agreement. CONTRACTOR agrees to fulfill its obligations under this Agreement, regardless of cost, for the sole and sufficient compensation stated in Exhibit B with no expectation of additional compensation. COUNTY will not be obligated to pay CONTRACTOR any amount in excess of the firm fixed price specified in Exhibit B.

ARTICLE 7. RESPONSIBILITIES OF COUNTY

- A. COUNTY shall, through its County Administrator, appoint an individual to serve as County Representative. The County Representative shall have the authority to transmit instructions, receive information, interpret and define the policy of COUNTY and make decisions pertinent to the Services. COUNTY reserves the right to designate a different County Representative, provided that CONTRACTOR is given advance written notice thereof.
- B. COUNTY shall make available, at no cost to CONTRACTOR, information relative to the project that is useful in the performance of the Services.
- C. COUNTY shall provide prompt notice to CONTRACTOR whenever COUNTY observes or otherwise becomes aware of any defect in the performance of the Services.
- D. COUNTY shall give careful and reasonable consideration to the findings and recommendations of CONTRACTOR and shall respond and issue notices to proceed in a timely manner.
- E. COUNTY personnel shall be available on a time-permitting basis, where required and necessary to assist CONTRACTOR. The availability and necessity of said personnel to assist CONTRACTOR shall be at the discretion of COUNTY.
- F. COUNTY shall perform the responsibilities enumerated in this Article at no cost to CONTRACTOR.

ARTICLE 8. COUNTY OWNERSHIP OF WORK PRODUCT

The Parties agree that COUNTY shall have exclusive ownership of all reports, documents, designs, ideas, materials, reports, concepts, plans, creative works, and other work product developed for or provided to COUNTY in connection with this Agreement, and all patent rights, copyrights, trade secret rights and other intellectual property rights relating thereto (collectively “the Intellectual Property”). CONTRACTOR hereby assigns and transfers all rights in the Intellectual Property to COUNTY. CONTRACTOR further agrees to execute and deliver such assignments and other documents as COUNTY may later require to perfect, maintain and enforce COUNTY’S rights as sole owner of the Intellectual property, including all rights under patent and copyright law.

ARTICLE 9. TERMINATION OF AGREEMENT

- A. TERMINATION FOR CAUSE:

1. COUNTY shall have the right, by written notice to CONTRACTOR, to terminate this Agreement, in whole or in part, for failure to substantially comply with the terms and conditions of this Agreement, to include:
 - a. Failure to provide Services that comply with the specifications herein or that fail to meet COUNTY'S performance standards;
 - b. Failure to perform the Services within the time specified in this Agreement; or
 - c. Work that is at a rate that disrupts the overall performance of this Agreement.
2. Prior to termination for default, COUNTY shall provide adequate written notice to CONTRACTOR, affording CONTRACTOR the opportunity to cure the deficiencies or to submit a specific plan to resolve the deficiencies within ten (10) days (or the period specified in the notice) after receipt of the notice. Failure to adequately cure the deficiency shall result in termination action.
3. Such termination may also result in suspension or debarment of CONTRACTOR in accordance with Manatee County's Procurement Ordinance, Chapter 2-26. CONTRACTOR shall be liable for any damage to COUNTY resulting from CONTRACTOR'S default of the Agreement.
4. In the event of termination of this Agreement, CONTRACTOR shall be liable for any damage to COUNTY resulting from CONTRACTOR'S default of this Agreement. This liability includes any increased costs incurred by COUNTY in completing performance under this Agreement.
5. In the event of termination by COUNTY for any cause, CONTRACTOR shall not have any right or claim against COUNTY for lost profits or compensation for lost opportunities. After a receipt of COUNTY'S Notice of Termination and except as otherwise directed by COUNTY, CONTRACTOR shall:
 - a. Stop the Services on the date and to the extent specified;
 - b. Terminate and settle all orders and subcontracts relating to the performance of the terminated Services;
 - c. Transfer all work in process, completed work, and other materials related to the terminated Services as directed by COUNTY; and
 - d. Continue and complete all parts of the Services that have not been terminated.

B. TERMINATION WITHOUT CAUSE:

COUNTY may terminate this Agreement, in whole or in part, without cause. COUNTY shall provide CONTRACTOR a written "Notice of Intent to Terminate" thirty (30) days prior to the date of termination. If this Agreement is terminated by the COUNTY without cause, CONTRACTOR shall be entitled to payment for all Services performed to the satisfaction of the COUNTY and all expenses incurred under this Agreement prior to termination, less any costs, expenses or damages due to the failure of the CONTRACTOR to properly perform pursuant to this Agreement. CONTRACTOR shall not be entitled to any other compensation, including anticipated profits on unperformed Services.

ARTICLE 10. TRANSITION SERVICES UPON TERMINATION

Upon termination or expiration of this Agreement, CONTRACTOR shall cooperate with COUNTY to assist with the orderly transfer of the Services provided by CONTRACTOR to COUNTY. Prior to termination or expiration of this Agreement, COUNTY may require CONTRACTOR to perform and, if so required, CONTRACTOR shall perform, certain transition services necessary to shift the Services to another provider or to COUNTY itself as described below (the "Transition Services"). The Transition Services may include but shall not be limited to:

- A. Working with COUNTY to jointly develop a mutually agreed upon Transition Services plan to facilitate the termination of the Services;
- B. Executing the Transition Services plan activities;
- C. Answering questions regarding the Services on an as-needed basis; and
- D. Providing such other reasonable Services needed to effectuate an orderly transition to a new service provider or to COUNTY.

ARTICLE 11. DISPUTE RESOLUTION

- A. Disputes shall be resolved in accordance with the Manatee County Purchasing Code (Chapter 2-26 of the Manatee County Code of Ordinances). Any dispute resolution constituting a material change in this Agreement shall not be final until an amendment to this Agreement has been approved and executed by the County Procurement Official.
- B. CONTRACTOR agrees it must exhaust all dispute resolution procedures set forth in Manatee County's Procurement Code prior to instituting any action in state or federal court or before any administrative agency or tribunal.

ARTICLE 12. COMPLIANCE WITH LAWS

All Services rendered or performed by CONTRACTOR pursuant to the provisions of this Agreement shall be in compliance with all applicable local, state and federal laws and ordinances. CONTRACTOR shall have and keep current at all times during the term of this Agreement all licenses and permits as required by law.

ARTICLE 13. NON-DISCRIMINATION

CONTRACTOR shall not discriminate against any employee or applicant for employment because of race, color, sex, creed, national origin, disability or age, and will take affirmative action to ensure that all employees and applicants are afforded equal employment opportunities. Such action will be taken with reference to, but shall not be limited to, recruitment, employment, job assignment, promotion, upgrading, demotion, transfer, layoff or termination, rates of training or retraining (including apprenticeship and on-the-job training).

ARTICLE 14. MAINTENANCE OF RECORDS; AUDITS; LICENSES

- A. CONTRACTOR shall maintain records, accounts, property records, and personnel records in accordance with generally accepted accounting principles, as deemed necessary by

COUNTY to assure proper accounting of funds and compliance with the provisions of this Agreement.

- B. CONTRACTOR shall provide COUNTY all information, reports, records and documents required by this Agreement or by COUNTY ordinances, rules or procedures, or as needed by COUNTY to monitor and evaluate CONTRACTOR'S performance. Such materials shall also be made available to COUNTY upon request for auditing purposes. Inspection or copying will occur during normal business hours, and as often as COUNTY may deem necessary. COUNTY shall have the right to obtain and inspect any audit pertaining to the performance of this Agreement or CONTRACTOR made by any local, state or federal agency. To the extent such materials are in the possession of a third party, CONTRACTOR must obtain them from that third party, or certify in writing to COUNTY why it was unable to do so. CONTRACTOR shall retain all records and supporting documents related to this Agreement in accordance with all applicable laws, rules and regulations, and, at a minimum, retain all records and supporting documents related to this Agreement, except duplicate copies or drafts, for at least three (3) years after the termination date.
- C. CONTRACTOR shall obtain any licenses required to provide the Services and maintain full compliance with any licensure requirements. Copies of reports provided to or by any licensing or regulatory agency shall be forwarded to COUNTY within ten (10) days of receipt by CONTRACTOR. CONTRACTOR shall immediately notify COUNTY if the required licenses of any of its principles or agents working on this Agreement are terminated, suspended, revoked or are otherwise invalid and/or are no longer in good standing.

ARTICLE 15. PUBLIC RECORDS

Pursuant to Florida Statutes §119.0701, to the extent CONTRACTOR is performing services on behalf of COUNTY, CONTRACTOR shall:

- A. Keep and maintain public records that would ordinarily be required by COUNTY to perform the service.
- B. Upon request from COUNTY'S custodian of public records, provide COUNTY with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes, or as otherwise provided by law.
- C. Ensure that public records that are exempt or confidential from public records disclosure requirements are not disclosed except as authorized by law for the duration of this Agreement and following completion of this Agreement if CONTRACTOR does not transfer the records to COUNTY.
- D. Upon completion of this Agreement, transfer, at no cost, to COUNTY all public records in possession of CONTRACTOR or keep and maintain public records required by COUNTY to perform the service. If CONTRACTOR transfers all public records to COUNTY upon completion of this Agreement, CONTRACTOR shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If

CONTRACTOR keeps and maintains public records upon completion of this Agreement, CONTRACTOR shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to COUNTY, upon request from COUNTY'S custodian of public records, in a format that is compatible with the information technology systems of COUNTY.

IF CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO COUNTY'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS AGREEMENT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT:

Phone: 941.742.5845

Email: Debbie.Scaccianoce@mymanatee.org

**Mail or hand delivery:
Attn: Records Manager
1112 Manatee Avenue West
Bradenton, FL 34205**

ARTICLE 16. INDEMNIFICATION

- A. Each Party shall defend, indemnify, save and hold harmless the other, its officers, employees and agents, from any and all third-party claims, liabilities, loss, or cause of action for property damage or bodily injury, including death, arising out of any negligent actions or omissions of the indemnifying Party, its agents, officers, employees or agents in the performance of this Agreement, including without limitation, defects in design, or errors or omissions that result in material cost increases to the indemnified Party. Such indemnification shall include, but not be limited to, the payment of all valid claims, losses, and judgements of any nature whatsoever in connection therewith and the payment of all related fees and costs, including attorneys' fees, incurred by the indemnified Party in connection with the indemnifying Party's activities arising out of the performance of this Agreement. This indemnification obligation shall not be construed to negate, abridge or reduce any other rights or remedies which otherwise may be available to an indemnified Party or person described in this paragraph or deemed to affect the rights, privileges and immunities of COUNTY as set forth in Section 768.28, Florida Statutes.
- B. CONTRACTOR will indemnify, defend, save and hold harmless the COUNTY, its officers, and employees all third-party claims, liabilities, loss, or cause of action that the Services constitutes an infringement of any third-party intellectual property right(s), unless such claim is based on COUNTY'S wrongful or illegitimate use of the Services. The foregoing states the entire liability of CONTRACTOR and the sole and exclusive remedy for COUNTY with respect to any third-party claim of infringement or misappropriation of intellectual property rights. Such indemnification shall include, but not be limited to, the payment of all valid claims, losses, and judgments of any nature whatsoever in connection therewith and the payment of all related fees and costs, including attorneys' fees.

ARTICLE 17. NO WAIVER OF SOVEREIGN IMMUNITY

Nothing herein shall be interpreted as a waiver by COUNTY of its rights, including the limitations of the waiver of immunity as set forth in Section 768.28, Florida Statutes, or any other applicable statutes or immunities. COUNTY expressly reserves these rights to the full extent allowed by law.

ARTICLE 18. INSURANCE

- A. CONTRACTOR shall, at its own cost and expense, acquire and maintain (and cause any subcontractors, representatives, or agents to acquire and maintain) insurance policies that comply with the Insurance Requirements, attached as **Exhibit D**, during the term of this Agreement, to include any renewal terms.
- B. Certificates of Insurance and copies of policies evidencing the insurance coverage specified in **Exhibit D** shall be filed with the Procurement Official before the Effective Date of this Agreement. The required certificates shall identify the type of policy, policy number, date of expiration, amount of coverage, companies affording coverage, shall refer specifically to the title of this Agreement, and shall name Manatee County as an additional insured. No changes shall be made to the insurance coverage without prior written approval by COUNTY'S Risk Management Division.
- C. Insurance shall remain in force for at least three (3) years after completion of the Services in the amounts and types of coverage as required by **Exhibit D**, including coverage for all Services completed under this Agreement.
- D. If the initial insurance expires prior to the termination of this Agreement, renewal Certificates of Insurance and required copies of policies shall be furnished by CONTRACTOR and delivered to the Procurement Official thirty (30) days prior to the date of their expiration.

ARTICLE 19. SOLICITATION OF AGREEMENT

CONTRACTOR warrants that it has not employed or retained any company or person other than a bona fide employee working solely for CONTRACTOR to solicit or secure this Agreement, and that it has not paid or agreed to pay any company or person other than an employee working solely for CONTRACTOR, any fee, commission, percentage, brokerage fee, gift, contingent fee, or any other consideration contingent upon or resulting from the award or making of this Agreement. For breach or violation of this warranty, COUNTY shall have the right to annul this Agreement without liability, or at its discretion, to deduct from this Agreement price or consideration or otherwise recover the full amount of such fee, commission, percentage, brokerage fee, gifts, or contingent fee.

ARTICLE 20. ASSIGNMENT AND SUBCONTRACTING

CONTRACTOR shall not assign or transfer any right or duty under this Agreement to any other Party without the prior written consent of COUNTY. In the event CONTRACTOR asserts it is necessary to utilize the services of third parties to perform any of the Services, CONTRACTOR shall first obtain prior written approval of COUNTY.

Approval to utilize any third party shall not relieve CONTRACTOR from any direct liability or responsibility to COUNTY pursuant to the provisions of this Agreement, or obligate COUNTY to make any payments other than payments due to CONTRACTOR as outlined in this Agreement. All terms and conditions of this Agreement shall extend to and be binding on any approved purchaser, assignee, or other successor in interest.

Assignment, pledging, sale, transfer or encumbering of any interest or rights under this Agreement, to anyone other than the CONTRACTOR, without the prior written consent of the COUNTY, shall be grounds for immediate termination of this Agreement.

ARTICLE 21. CERTIFICATION OF NON-PAYMENT OF COMMISSION OR GIFT

CONTRACTOR warrants that it has not employed or retained any company or person other than a bona fide employee working solely for CONTRACTOR to solicit or secure this Agreement, and that it has not paid or agreed to pay any company or person other than an employee working solely for CONTRACTOR, any fee, commission, percentage, brokerage fee, gift, contingent fee, or any other consideration contingent upon or resulting from the award or making of this Agreement. For breach or violation of this warranty, COUNTY shall have the right to annul this Agreement, without liability or at its discretion to deduct from the agreement price consideration or otherwise recover the full amount of such fee, commission, percentage, brokerage fee, gifts, or contingent fee.

ARTICLE 22. KEY PERSONNEL

The following key personnel shall be the COUNTY primary contacts assigned to this Agreement by CONTRACTOR:

Gregory Cockman, President

CONTRACTOR shall notify the COUNTY in writing within ten (10) business days of any changes to the key personnel.

ARTICLE 23. SUB-CONTRACTORS

If CONTRACTOR receives written approval from the COUNTY to use the services of a sub-contractor(s), CONTRACTOR shall utilize the fees specified in **Exhibit B** for any subcontractors utilized in the provision of the Services.

ARTICLE 24. LIABILITY FOR NEGLIGENCE.

To the fullest extent allowed by law, the individuals performing the Services pursuant to this Agreement shall be personally liable for negligent acts or omissions. To the fullest extent allowed by law, CONTRACTOR shall likewise be liable for negligent acts or omissions in the performance of the Services.

ARTICLE 25. NOTICES

All notices, requests and authorizations provided for herein shall be in writing and shall be delivered by hand or mailed through the U.S. Mail, addressed as follows:

To COUNTY: Manatee County Government
Traffic Operations Division
Attn: Traffic Operations Division Manager
2904 12th Street Court East
Bradenton, FL 34208
Phone: (941) 708-7509
Email: aaron.burkett@mymanatee.org

To CONTRACTOR: Traffic Control Devices, Inc.
Attn: Gregory Cockman, President
242 North Westmonte Drive
Altamonte Springs, FL 32714
Phone: (407) 869-5300
Email: r.rebert@tcd-usa.com

ARTICLE 26. RELATIONSHIP OF PARTIES

The relationship of CONTRACTOR to COUNTY shall be that of an independent contractor. Nothing herein contained shall be construed as vesting or delegating to CONTRACTOR or any of the officers, employees, personnel, agents, or sub-contractors of CONTRACTOR any rights, interest or status as an employee of COUNTY. COUNTY shall not be liable to any person, firm or corporation that is employed by Agreements or provides goods or services to CONTRACTOR in connection with this Agreement or for debts or claims accruing to such parties. CONTRACTOR shall promptly pay, discharge or take such action as may be necessary and reasonable to settle such debts or claims.

ARTICLE 27. NO CONFLICT

By accepting award of this Agreement, CONTRACTOR, which shall include its directors, officers and employees, represents that it presently has no interest in and shall acquire no interest in any business or activity which would conflict in any manner with the performance of duties or Services required hereunder.

ARTICLE 28. ETHICAL CONSIDERATIONS

CONTRACTOR recognizes that in rendering the Services, CONTRACTOR is working for the residents of Manatee County, Florida, subject to public observation, scrutiny and inquiry; and based upon said recognition CONTRACTOR shall, in all of its relationships with COUNTY pursuant to this Agreement, conduct itself in accordance with all of the recognized applicable ethical standards set by any related national societies, and the reasonable traditions to perform the Services. CONTRACTOR shall be truthful in its communications with COUNTY personnel regarding matters pertaining to this Agreement and the Services rendered to COUNTY.

ARTICLE 29. PUBLIC ENTITY CRIMES

CONTRACTOR has been made aware of the Florida Public Entity Crimes Act, Florida Statutes § 287.133, specifically section 2(a), and COUNTY'S requirement that CONTRACTOR comply with it in all respects prior to and during the term of this Agreement.

ARTICLE 30. TAXES

COUNTY is exempt from Federal Excise and State Sales Taxes (F.E.T. Exemption Certificate No. 59-78-0089K; FL Sales Tax Exemption Certificate No. 51-02-027548-53C). Therefore, CONTRACTOR is prohibited from charging or imposing any sales or service taxes. Nothing herein shall affect CONTRACTOR’S normal tax liability.

CONTRACTOR shall be responsible for payment of federal, state, and local taxes which may be imposed upon CONTRACTOR under applicable law to the extent that CONTRACTOR is responsible for the payment of same under applicable law.

ARTICLE 31. FORCE MAJEURE

Neither Party shall be considered in default in performance of its obligations hereunder to the extent that performance of such obligations or any of them is delayed or prevented by Force Majeure.

Force Majeure shall include, but not be limited to, hostility, revolution, civil commotion, strike, epidemic, accident, fire, flood, wind, earthquake, hurricane, explosion, lack of or failure of transportation facilities, any law, proclamation, regulation, ordinance or other act of government, or any act of God or any cause whether of the same or different nature, existing or future; provided that the cause, whether or not enumerated in this Article, is beyond the control and without the fault or negligence of the Party seeking relief under this Article.

ARTICLE 32. GOVERNING LAW, JURISDICTION AND VENUE

This Agreement shall be governed by the laws of the State of Florida. Any action filed regarding this Agreement will be filed only in Manatee County, Florida, or if in Federal Court, the Middle District of Florida, Tampa Division.

ARTICLE 33. ATTORNEY FEES

In the event of any litigation arising under the terms of this Agreement, each Party shall be responsible for their own attorney's fees, including appellate fees, regardless of the outcome of the litigation.

ARTICLE 34. PATENT AND COPYRIGHT RESPONSIBILITY

Any material or design specified by CONTRACTOR or supplied by CONTRACTOR pursuant to this Agreement shall not knowingly infringe any patent or copyright, and CONTRACTOR shall be solely responsible for securing any necessary licenses required for patented or copyrighted material utilized by CONTRACTOR in the performance of the Services.

ARTICLE 35. AMENDMENTS

This Agreement and Exhibits referenced herein constitute the entire Agreement between the Parties with respect to subject matter and mutually agree that no verbal agreements, representations, warranties or other understandings affecting the same exist. No amendment hereof shall be effective until and unless reduced to writing and executed by the Parties. The Parties shall execute any additional documents as may be necessary to implement and carry out the intent of this Agreement.

ARTICLE 36. SEVERABILITY

It is understood and agreed by the Parties hereto that if any part, term, or provision of this Agreement is held to be illegal or in conflict with any law, the validity of the remaining portions or provisions shall not be affected, and the rights and obligations of the Parties shall be construed and enforced as if this Agreement did not contain the particular part, term or provision held to be invalid.

ARTICLE 37. LEGAL REFERENCES

All references to statutory sections or chapters shall be construed to include subsequent amendments to such provisions, and to refer to the successor provision of any such provision. References to “applicable law” and “general law” shall be construed to include provisions of local, state and federal law, whether established by legislative action, administrative rule or regulation, or judicial decision.

ARTICLE 38. HEADINGS, CONSTRUCTION

The Parties agree that they have each participated in the drafting of this Agreement and that the rules with respect to construing ambiguities against the drafter of a contract shall not apply in any action or litigation regarding this Agreement. All articles and descriptive headings of paragraphs of this Agreement are inserted for convenience only and shall not affect the construction or interpretation hereof.

ARTICLE 39. TIME

For purposes of computing any period of number of days hereunder for notices or performance of ten (10) days or less, Saturdays, Sundays and holidays shall be excluded, unless otherwise stated.

ARTICLE 40. AUTHORITY TO EXECUTE

Each of the Parties hereto covenants to the other Party that it has lawful authority to enter into this Agreement.

[Remainder of page intentionally left blank]

IN WITNESS WHEREOF, the Parties hereto have caused this Agreement to be duly executed effective as of the date set forth above.

TRAFFIC CONTROL DEVICES, INC.

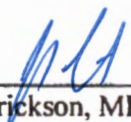
By:  _____

Printed Name: Gregory S. Cockman

Title: President

Date: 5/11/21

**MANATEE COUNTY, a political subdivision
of the State of Florida**



Jacob Erickson, MBA, CPPO, NIGP-CPP
Procurement Official

Date: June 8, 2021

EXHIBITS

EXHIBIT A, SCOPE OF SERVICES

A.1 SCOPE

CONTRACTOR shall furnish all necessary labor, tools, licensing, certifications, transportation, materials, cleaning solutions, equipment, incidentals, and vehicles and facilities for transportation of all materials necessary to repair, construct, and maintain the COUNTY'S traffic signals, highway lighting, and Intelligent Transportation Systems (ITS). This includes, but is not limited to, signalization electrical and electronic equipment, hardware, structural supports, power service assemblies, pull boxes, cabling, conduit, protective devices, control devices, lighting, battery backup units, detection devices, and ITS components.

A.2 CONTRACTOR'S RESPONSIBILITIES AND REQUIREMENTS

A. GENERAL REQUIREMENTS

CONTRACTOR shall:

1. Provide as-needed maintenance, installation, construction, and repair services for traffic signals, highway lighting, ITS, and other related devices ("Services").
2. Provide the Services during normal working hours. Normal working hours for the COUNTY'S Traffic Operations Division are 7:00 A.M. to 3:30 P.M., Monday through Friday, excluding COUNTY holidays. If CONTRACTOR desires to work outside of the normal working hours, CONTRACTOR shall get prior approval from COUNTY. All requests shall be made forty-eight (48) hours prior to the planned work schedule.
3. Provide the Services as directed by COUNTY. Not all tasks to be performed are included in Exhibit B, Fee Rate Schedule. COUNTY reserves the right to add, delete, and revise Line Items listed in Exhibit B, Fee Rate Schedule.
4. Provide all Services in accordance with the current editions of the following published documents: Manatee County Traffic Design Standards; Florida Department of Transportation (FDOT) Design Standards; Manual on Uniform Traffic Control Devices (MUTCD); FDOT Minimum Specifications for Traffic Control Signals and Devices (MSTCSD); National Electric Code (NEC); and National Electrical Safety Code (NESC).
5. Provide all Services in compliance with the regulations and requirements of the Public Service Commission (PSC) and all other applicable laws, rules, and ordinances.
6. Provide products that are listed in the FDOT Approved Products List (APL) and Qualified Products List (QPL), unless otherwise indicated and approved by COUNTY.
7. Ensure that all equipment repairs conform to all applicable laws and safety requirements and are equipped with warning lights in accordance with 8-4.1 of the Standard Specifications.

8. Adhere to the requirements of 29 CFR, Part 1910, OSHA and the American National Standard Safety Code for Crawler, Locomotive, and Truck Cranes, ANSI A29.2 1969, B30.5 1968, and A92.2 1969 for items relating to lifting devices such as cranes.
9. Refer to the Manatee County Traffic Design Standards for additional details regarding material, installation, and repair requirements.
10. Provide all Services in accordance with the standards established in the FDOT Maintenance Rating Program.
11. Ensure that all lane closures are preapproved by COUNTY and are in accordance with FDOT Standard Specifications. CONTRACTOR shall not occupy any portion of the roadway during peak traffic periods as may be established by COUNTY. The only exception is an emergency.
12. Provide the replacement of infrastructure (e.g. light poles) damaged by traffic crashes or natural causes within seven (7) calendar days from the date the Release Order is issued. In cases where shop drawings are required, CONTRACTOR shall expedite the preparation of the drawings and the ordering of the material to avoid any delays in the infrastructure's replacement. CONTRACTOR shall take immediate action to protect the safety of the public by removing any elements that may cause a hazard. Services also include the removal and/or proper disposal of the damaged parts and debris; wiring/rewiring; and providing all hardware, splices, and related parts necessary to make a complete replacement installation.
13. Ensure that all non-emergency Services are started within fourteen (14) calendar days from the date the Release Order is issued, unless otherwise agreed to by COUNTY. CONTRACTOR shall start work on all non-emergency projects/tasks within fourteen (14) calendar days from the date the Release Order is issued, unless otherwise agreed to by COUNTY.
14. Ensure that all emergency Services are started within two (2) hours of work order authorization/notification from COUNTY, unless otherwise agreed to by COUNTY. CONTRACTOR shall be onsite and ready to perform the work, with all material and equipment needed to perform the work, within two (2) hours of work order authorization/notification from COUNTY.
15. Maintain all material and equipment storage sites outside the Right-of-Way (ROW) limits on any state or COUNTY maintained roadway. Materials may be temporarily stored on the ROW, except for medians, for a period not to exceed twenty-four (24) hours, with prior approval from COUNTY. Materials stored along the roadway shall be placed so as not to intrude into the clear recovery area, cause an unsafe condition, or to cause any inconvenience to the public. COUNTY will not be held liable for any damages, incidents, or accidents that may occur as a result of storing material within the ROW.
16. Keep all new parts unopened and in their original containers until the time of installation.

17. Expedite the submittal of shop drawings for COUNTY approval to avoid any delays in completion of the Services.
18. Ask questions and receive responses from COUNTY concerning interpretation, clarification, or additional information pertaining to projects/tasks before beginning any work. CONTRACTOR shall have a full understanding of all projects/tasks before beginning work.
19. Install and replace all parts as originally designed by the manufacturer or by an alternate method with prior approval from COUNTY.
20. Ensure that any substitutions for replacement of existing damaged equipment are both functionally and aesthetically compatible with the existing components and are preapproved, in writing, by COUNTY.
21. Immediately report to COUNTY any fatalities or serious injuries to its employees or members of the public.
22. Immediately report to COUNTY any damage of more than \$500.00 to COUNTY property or property adjacent to the work-site resulting from an employee accident during the performance of the work.
23. Provide certification that confirms employees are trained in all appropriate safety practices contained within Section 29, Part 1910.333 of the Code of Federal Regulations (CFR) Occupational Safety and Health Administration (OSHA) relating to 'Lock-out, Tag-out' procedures prior to an employee being assigned to perform work under this Agreement and ensure employees apply these practices to the provision of the Services to COUNTY.
24. Ensure that all Maintenance of Traffic (MOT) certifications are current and provide proof of training upon request.
25. Ensure that all employees are trained in safe operation of the equipment necessary to do the work required under this Agreement. COUNTY shall have the authority to remove from the job site any of CONTRACTOR'S employees acting in a manner as to endanger the safety of CONTRACTOR'S employees, COUNTY'S employees, or that of the public.
26. Ensure the crew foreman and the foreman assistant are knowledgeable, experienced, and trained in the maintenance and repair of ITS.
27. Ensure and adhere to the following:
 - a. Preserve from damage on all existing property within the project limits of, or in any way affected by the work, the removal or destruction of which is not specified by COUNTY. This applies, but is not limited to public and private property, public and private utilities, trees, shrubs, crops, sod, signs, monuments, fences, guardrail, pipe and underground structures, ITS facilities, traffic control signals and devices, highway

- lighting, and public highways (except natural wear and tear of highway resulting from legitimate use thereof by CONTRACTOR).
- b. COUNTY underground facility locations shown in the plans are approximate. Unless otherwise shown in the plans, COUNTY underground facilities will be located by COUNTY through notification to "Sunshine 811".
 - c. Whenever CONTRACTOR'S activities damage such existing property, immediately restore it to a condition equal to or better than that existing at the time such damage occurred, at no expense to COUNTY.
 - d. Temporary repairs may be used to immediately restore ITS facilities and traffic control signals and devices. Permanent repairs to ITS facilities and traffic control signals and devices shall be made within ninety (90) calendar days of any temporary repairs and prior to final acceptance of the project. Submit permanent ITS facility repair plans to COUNTY prior to beginning repair work.

B. EMERGENCY SERVICES REQUIREMENTS

CONTRACTOR shall:

1. Provide emergency Services for emergency events, storms, incidents, and accidents that require short and long term remediation and restoration efforts to repair various traffic control devices. Emergency Services may include long term traffic signal and sign repair, removal of downed poles or mast arms impeding or otherwise threatening the safe use of the public right of way, and the repair of the electrical system in a way that prevents electrical shock to any individuals who come in contact.
2. Ensure twenty-four (24) hours per day and seven (7) days per week availability for emergency Services; this includes all hours outside of normal working hours, holidays, and weekends.
3. Respond to COUNTY within fifteen (15) minutes of being contacted by COUNTY via phone or email.
4. Report to the emergency work site location or locations within two (2) hours of receiving work order authorization/notification from COUNTY. CONTRACTOR shall be onsite and ready to perform the work, with all material and equipment needed to perform the work, within two (2) hours of receiving work order authorization/notification from COUNTY.
5. Provide an Emergency Contact Technician to receive and respond to verbal and written work requests from COUNTY as follows:
 - a. The Emergency Contact Technician shall be available twenty-four (24) hours per day and seven (7) days per week, including all hours outside of normal working hours, holidays, and weekends.
 - b. The Emergency Contact Technician shall be available to meet with COUNTY as-needed and shall respond to COUNTY within fifteen (15) minutes of being contacted via phone or email.

- c. CONTRACTOR shall immediately notify COUNTY of any changes to the Emergency Contact Technician such as a new technician or replacement technician, phone number, email address, etc.
- d. CONTRACTOR shall require that their Emergency Contact Technician be continuously available twenty-four (24) hours per day and seven (7) days per week, including all hours outside of normal working hours, holidays, and weekends, for direction from COUNTY via cellular telephone, electronic paging device, email, or other methods approved in advance by COUNTY.

C. EMERGENCY, PRIORITY, AND ROUTINE FAILURES

CONTRACTOR shall provide Emergency, Priority, and Routine Services within the required response times as follows:

1. Emergency Failures are failures that represent an immediate risk to the public, failures that cause a closure of the public travel-ways, or failures to the communications network that render the Advanced Traffic Management System inoperable.
 - a. Upon notification of an Emergency Failure from COUNTY, CONTRACTOR shall respond and complete repairs or eliminate the instant danger within four (4) hours of the reported incident. The notification from COUNTY may be verbally by telephone, email, facsimile, or text message.
2. Priority Failures are failures of individual components or systems that are adversely affecting the proper operation and full functionality of the signal, lighting system or ITS device.
 - a. Upon notification of a Priority Failure from COUNTY, CONTRACTOR shall respond and complete repairs or restore proper operation within twenty-four (24) hours of the reported incident. The notification from COUNTY may be verbally by telephone, written letter, system report, email, facsimile, text message, or through the daily/weekly maintenance check.
3. Routine Failures are failures that, while requiring attention, are not adversely affecting the immediate operation of the signal, lighting system or ITS device.
 - a. Upon notification of a Routine Failure from COUNTY, CONTRACTOR shall respond and complete repairs within seven (7) calendar days of the reported incident, or a longer timeframe as approved by COUNTY. The notification from COUNTY may be verbally by telephone, written letter, system report, email, facsimile, text message, or through the daily/weekly maintenance check.

D. TESTING AND INSPECTIONS

Upon completion, all work is subject to inspection by COUNTY prior to payment of invoice. No work shall be performed, nor materials used, without prior authorization by COUNTY. COUNTY shall have the authority to review and approve material submittals and perform verification tests.

COUNTY shall have the authority to reject materials or suspend work at any time until any questions at issue can be resolved through the hierarchy of authority. All issues will be resolved as expeditiously as possible.

E. MAINTENANCE OF TRAFFIC

The term Traffic Control Plan (TCP) includes Maintenance of Traffic (MOT) Plan and are intended to be synonymous for the Maintenance of Traffic.

CONTRACTOR shall provide, install, and maintain traffic devices according to the FDOT Design Standards Index 600 series, latest edition, and applicable laws and ordinances. The traffic control shall provide a safe work zone and safe flow of traffic in and through the project site. CONTRACTOR shall maintain all traffic control devices required for the work. CONTRACTOR shall remove maintenance of traffic devices when no longer required at no additional cost to COUNTY.

When a lane and/or road closure is required, CONTRACTOR shall submit a completed TCP to include details of the lane closure to COUNTY for approval at least ten (10) calendar days before the date of the proposed closure. No closures shall be implemented without COUNTY approval. CONTRACTOR shall be responsible for notifying FDOT and obtaining any required right-of-way permits for lane closures or road closures.

F. EMERGENCIES AT WORK SITE

In the event of an emergency, CONTRACTOR shall immediately take appropriate action to notify emergency services as needed. CONTRACTOR shall inform COUNTY within twenty-four (24) hours of any incident or accident which occurs while in transit to and from work location or while performing work.

G. PROJECT SCHEDULES

COUNTY may assign an order of priority to projects. CONTRACTOR shall use the priorities given by COUNTY when developing a schedule.

H. MOBILIZATION

Mobilization includes flag persons, cones, signs, and temporary maintenance. Only one (1) line item/lump sum fee is permitted for mobilization per each Release Order. Multiple line items/fees for mobilization per each Release Order will not be accepted by COUNTY. CONTRACTOR shall combine all mobilization fees together for one (1) line item having one (1) lump sum fee per each Release Order.

I. WORK AREA CLEAN-UP REQUIREMENTS

CONTRACTOR shall ensure and adhere to the following:

1. During the progress of the work, CONTRACTOR shall keep the premises and maintained travel lanes free from accumulations of waste, discarded or surplus material, rubbish and other debris or contaminates resulting from the work.

2. Following completion of the work, CONTRACTOR shall remove all waste material, rubbish, and debris from and about the premises as well as all tools, appliances, construction equipment, machinery, and surplus material. CONTRACTOR shall leave the site clean and ready for occupancy by COUNTY at substantial completion of the work.
3. CONTRACTOR shall take all measures necessary to protect surrounding public and private property, adjacent buildings, roads, drives, sidewalks, drains, sewers, utilities, trees, mail boxes, landscaping, structures, poles, and appurtenances from damage due to work. Responsibility and payment for correction of such damage is the sole responsibility of CONTRACTOR.

J. MATERIALS

CONTRACTOR shall provide, to the COUNTY, immediately upon delivery or as soon thereafter as is practical, copies of all delivery tickets and/or invoices for all material and equipment to be used for each project.

K. SAFETY – UTILITY COORDINATION

CONTRACTOR is responsible for providing for the safety of all CONTRACTOR'S and subcontractor's employees at the work site.

CONTRACTOR is required to comply with Florida Statute (F.S.), Chapter 556, Underground Facility Damage Prevention and Safety Act. CONTRACTOR is responsible for contacting Sunshine State One-Call of Florida, Inc., at 1-800-432-4770 or www.callsunshine.com, no less than two (2) business days, forty-eight (48) hours, and no more than five (5) business days before beginning any excavation, CONTRACTOR shall provide notification according to the procedures of the F.S. Chapter 556.

L. CONTAMINATION

Any equipment that is leaking fuel, lubricant, coolant, hydraulic fluid, or any other hazardous material shall immediately be repaired by CONTRACTOR to stop the leak.

CONTRACTOR shall clean up and dispose of any leaked fluids according to all applicable laws, ordinances, rules, and regulations within twenty-four (24) hours of occurrence. All repairs, removal, clean-up and/or disposal shall be at no cost to COUNTY.

M. PERMITS/ FEES/ REGULATIONS

CONTRACTOR is required to give all necessary notices, obtain all permits and inspections, and pay all costs in connection with the work.

CONTRACTOR shall assure compliance with all OSHA; EPA; and/or federal, state, and local rules and regulations. Any conflicts between the specifications and compliance with rules and regulations shall be brought to the attention of COUNTY and resolved before the work is to continue.

A.3 COUNTY RESPONSIBILITIES

COUNTY shall provide CONTRACTOR with a listing of all locations and identification numbers of the devices covered under this Agreement prior to commencement of Services.

A.4 METHOD OF PAYMENT

The Services specified herein will be paid for in accordance with the Work Tasks/Pay Items listed in this Scope in Section A.5 and the Line Items listed in Exhibit B, Fee Rate Schedule, and shall be full compensation for all labor, equipment, tools, incidentals, including installation and tests as required, and any necessary vehicles and facilities necessary to facilitate the tasks described. No payment will be made until appropriate inspections and/or tests of the work have been completed.

A.5 WORK TASKS / PAY ITEMS

A. ITEM NO. 630-2-AB / CONDUIT / LINEAR FEET (LF)

A = Operation

1 - Furnish & Install

B = Installation Method

1 (open trench) Underground

2 (Directional Bore) Underground or Under pavement

3 (Jack & Bore) Typically under railroad

4 (Aboveground)

5 (Bridge Mount)

1. Payment for these items will be full compensation for all locating work, trenching, backfilling, bends, anchors, connections miscellaneous materials, surface restoration, labor and equipment required to construct a new conduit run, as approved by COUNTY.
2. The conduit trench surface shall be stabilized and restored by CONTRACTOR to a maintenance free condition as part of this item.
3. MEASUREMENT – TRENCH or BORE: Measurement is for the straight line HORIZONTAL DISTANCE of the trench or bore, from pull box to pull box, with no allowance for sweeps or vertical distance. No additional payment will be made for multiple runs of conduit within a trench or bore.
4. MEASUREMENT – ABOVEGROUND or BRIDGE MOUNT: Measurement will be for the actual length of conduit used.
5. Aboveground conduit shall be measured by CONTRACTOR, sketched and documented for submission to COUNTY for payment. Payment will be based on the actual linear feet installed.
6. Grounding for all metal conduit runs is included as an incidental cost under the conduit pay items.

B. ITEM NO. 632-7-A / SIGNAL CABLE / MIXED

A = Operation

- 1 (New or Reconstructed Intersection- Furnish & Install) PI
- 2 (Repair, Replacement, and other operations- Furnish & Install) LF
- 4 (Adjust/Modify) PI
- 6 (Remove- Intersection) PI
- 7 (Remove- Outside of Intersection) LF

1. This pay item is for traffic signals and traffic control devices only.
2. Includes cable, support wire, cable ties, cable clamps, lashing wire, terminal connectors and cable grounding, within the normal limits of the intersection. May include total intersection replacement, and/or pedestrian signals, as noted in the plans.
3. For New or Reconstructed Intersections, use the per Intersection pay item. This includes intersections where new poles are installed/relocated. Includes all lashing wire and tie wraps for span wire installations.
4. For Repairs/Replacement/Other operations where new signal cable is needed, use the linear foot pay item. This includes non-intersection school zone signals, adding a signal head to an existing mast arm or span wire, or signal cables outside of an intersection.
5. REMOVE: Payment includes all signal cable per intersection or per LF for other applications, such as between a controller and flashing beacon sign(s). Detail quantity/location in the plans.

C. ITEM NO. 634-4-ABC / SPAN WIRE ASSEMBLY / PER INTERSECTION (PI)

A = Operation

- 1 (Furnish & Install)
- 3 (Install), NOT USED
- 4 (Adjust) BC=00, NOT USED
- 5 (Replace), for maintenance activities
- 6 (Remove, poles to remain) NOT USED
- 7 Re tension

B = Attachment Type

- 4 (Single Point)
- 5 (Two Point)

C = Type Span

- 1 (Perpendicular)
- 2 (Diagonal) see details above; flashing beacon installations only
- 3 (Box or Drop Box)
- 4 (Other) NOT USED

1. This pay item is for permanent traffic signals and traffic control devices only.
2. Use the two point attachment type pay items as applicable. Perpendicular spans, box spans or drop box spans shall be used for all signal span wire assemblies. For new construction, diagonal span assemblies shall only be used for flashing beacon installations.
3. Other Span Type: Do not use for perpendicular, box, or diagonal spans. Complete plan details are required.
4. Install span wire in accordance with FDOT Design Standards.
5. OPERATIONS:
 - a. ADJUST: NOT TO BE USED FOR MOT or Temporary Signals. Adjust existing Span Wires, as detailed in the plans.
 - b. REMOVE: Payment per intersection includes removing the span wire, messenger wire, and all miscellaneous materials supporting the traffic signals, signs, and other traffic control devices.
 - c. REMOVE: When the poles are to be removed, "all attachments" are included with the removal cost; NO SEPARATE PAYMENT for removal of span wire.

D. ITEM NO. 635-2-AB / PULL & SPLICE BOX / EACH (EA)

A = Operation

1 (Furnish & Install)

3 (Install) B=0; item furnished by COUNTY

4 (Relocate) B=0; see detail

5 (Repair) maintenance use only

B = Cover Size; minimum depth per specification

1 (13 x 24) standard size

2 (17 x 30) large size

3 (30" X 60" rectangular) splice vault

1. Use in accordance with Section 635 of the FDOT Standard Specifications.
2. DIMENSIONS: For traffic signal applications, use spec size B=1[a]. For fiber optic cable applications, the spec calls for size B=2. All other sizes use spec B=0, COUNTY will furnish.
3. INSTALL (A=3): Item furnished by maintaining agency.
4. RELOCATE (A=4): Depending on the type of box, current condition, and the extent of the relocation, replacement versus relocation should be considered.
5. REPAIR: To include full replacement of box to include lid.

E. ITEM NO. 639-1-ABC / ELECTRICAL POWER SERVICE / ASSEMBLY (AS)

A = Operation

1 (Furnish & Install)

4 (Relocate) C=0

6 (Remove) C=0

B = Type of Service

1 (Overhead)

2 (Underground)

C = Meter Base

1 (Furnished by Power Company)

2 (Purchased by CONTRACTOR)

3 (Provided by COUNTY)

1. This pay item is for electrical power services for signals, lighting, ITS, and other roadway applications.
2. Installations shall adhere to FDOT Standard Specifications and Design Index 17736, Figure 'B'. Grounding is incidental to power service.
3. Unless otherwise specified all new/rebuild electrical power service assemblies shall be mounted on a separate 12ft, Class P-II, pre-stressed concrete pole.
4. Payment for the following items will be for a complete electrical power service assembly to include support poles, conduit, wiring, meter can, circuit breakers, breaker panels and enclosures, and all other associated electrical power service equipment and assembly components.
5. The pay items provided may make no distinction in voltage or amperage rating.
6. The pay item structure provides for the installation, repair, relocation or removal of complete power services assemblies and should not be used as a basis for paying for individual components of an electrical power service.

F. ITEM NO. 639-2-A / ELECTRICAL SERVICE WIRE / LINEAR FEET (LF)

A = Operation

1 (Furnish & Install)

4 (Relocate)

1. This pay item is for signals, lighting, ITS, and other roadway applications.
2. MEASUREMENT: Payment is per length of complete wire run (all conductors included), not per each conductor.

G. ITEM NO. 639-4-A / EMERGENCY (PORTABLE) GENERATOR/HOUSING / MIXED (MX)

A = Operation

1 (Furnish & Install) (Generator) EA for Emergency /Pre-Event contracts only

3 (Install) (Generator) EA. For Emergency /Pre-Event contracts only

4 (Install) EA, NOT USED

5 (Monitor and Refuel) (Generator) HR; For Emergency /Pre-Event contracts only

6 (Install) (Generator Housing Only) EA; housing furnished by COUNTY

1. This Mixed pay item is for installation of generators and generator housings for traffic signals.
2. Pay Item includes installation, refueling and monitoring of portable inverter/ generators to provide emergency response back-up power to traffic signals.
3. Pay item includes the installation of generator housings to include concrete foundation, conduit, bonding and grounding, and electrical conductors.
4. Coordinate procurement of the generator AND generator housing with COUNTY prior to purchase or use.
5. INSTALL: Coordinate the use of this pay item with COUNTY, to ensure the availability of generators, location for deployment, to review security measures for generator and instructions for returning the unit to COUNTY upon completion of assignment.
6. Pay item includes installation and operation of a portable inverter/ generator within existing portable generator housings for the purposes of providing emergency backup power to traffic signals.
7. MONITOR & REFUEL: This pay item includes monitoring and refueling of portable generators every 6 hours. Fuel to be included in payment for hourly rate. (No separate payment for fuel.)
8. INSTALL GENERATOR HOUSING ONLY: This pay item is for the installation of a generator housing only to include concrete foundation, conduit, bonding and grounding, and electrical conductors. Housing to be provided by COUNTY.

H. ITEM NO. 641-2-AB / PRESTRESSED CONCRETE POLE / EACH (EA)

A = Operation

1 (Furnish & Install)

3 (Install) B=0

6 (Complete/Deep Removal- Pedestal/Service Pole) B=0,

7 (Shallow Removal- Poles 30' and greater) B=0,

8 (Complete/Deep Removal- Poles 30' and greater) B=0,

B = Pole Type (defined in Design Standards)

1 (Type P-II Pedestal)

2 (Type P-II Service Pole)

3 (Type P-III)

4 (Type P-IV)

5 (Type P-V)

6 (Type P-VI)

7 (Type P-VII)

8 (Type P-VIII)

9 (Custom Design) * NOT USED

1. This pay item is for traffic signals and traffic control devices only.
2. Pole description, including the type, height, and other details will be provided by COUNTY upon issuance of Release Order.
3. This item is used as detailed on FDOT index 17725 and Index 17764 (pedestrian pedestal). Poles shall be on the FDOT QPL.
4. REMOVE: Includes the removal of pole, foundation, and any attachments (Vehicular Signal, Pedestrian Signal, Pedestrian Detector, span wire, or other). No separate payment for removal of attachments when removed with the pole. Items removed from the pole shall be returned to COUNTY.
5. Shallow pole removal= depth of 4 feet.
6. Deep pole removal= complete removal.
7. B=9 (Custom Design): For use ONLY when design standard index does NOT apply.
8. Designer shall show complete dimensions for pole. Supporting calculations shall be completed for intended signals application. Review specification requirements to determine if notes or modified specs are needed. Payment will be for the installation of frangible street light base to include the base, attachments, bolts and washers as per plans and standard indexes.

I. ITEM NO. 643-ABB / STRAIN POLE, WOOD / EACH (EA)

A = Operation

1 (Furnish & Install)

3 (Install) furnished by COUNTY

4 (Relocate)

6 (Remove) BB=00

BB = Pole Length (Specified In 5' Increments Only)

1. This pay item is for traffic signals and traffic control devices only.
2. Guying of all wood pole installations considered incidental.
3. REMOVE: All wood poles are to be removed completely. Payment includes the removal of all attachments.

J. ITEM NO. 646-1-AB / ALUMINUM SIGNALS POLE / EACH (EA)

A = Operation

1 (Furnish & Install)

3 (Install) B=0

4 (Relocate) B=0

6 (Remove) B=0

B = Pole Type

1 (Pedestal)

2 (Pedestrian Detector Post)

1. To be used in accordance with FDOT Design Standards, Index Nos. 17764 and 17784.
2. INSTALL: The install operation should only be used when the item is furnished by COUNTY for installation by CONTRACTOR.
3. REMOVE: The removal of the foundation is included with the removal of the pedestal, unless otherwise noted. All attachments are included with the removal of the pole (pedestrian detector, pedestrian signal, etc.) all equipment and material removed shall be returned to COUNTY.

K. ITEM NO. 649-3A-BCC / STEEL MAST ARM ASSEMBLY / EACH (EA)

A = Operation

1 (Furnish & Install)

3 (Install) BCC=000

4 (Relocate) BCC=000

6 (Remove) see remove options below, effective January 2015

8 (Repair) BCC=000

B = Wind Speed

2 (130 with signal back plates, COUNTY)

B = Remove Options

1 (Pole Only, entire foundation remains) CC=00

3 (Shallow, Bolt on attachment) CC=00

5 (Deep, Bolt on attachment) CC=00

CC = Arm Length(s)

For Single Arms

01 (36)

02 (46)

03 (60)

04 (70.5)

05 (78)

06 (36 w/ Luminaire)

07 (46 w/ Luminaire)

08 (60 w/ Luminaire)

09 (70.5 w/ Luminaire)

For Double Arm w/o Luminaire

10 (36-36)

11 (36-46)

12 (36-60)

13 (36-70.5)

14 (46-46)

15 (46-60)

16 (46-70.5)

17 (60-60)

18 (60-70.5)

19 (70.5-70.5)

Custom/Non-Standard Arm Combinations

99= (Custom) B=9, see details below

1. This pay item is for traffic signals and traffic control devices only.
2. Supports emergency removal of damaged mast arm assemblies and result of vehicle accidents for force majeure.
3. Refer to the FDOT PPM (Plans Preparation Manual) for current FDOT Policy on the use of Mast Arms.
4. Pole description, including the type, height, and other details shall be included in the signal plans. Payment includes foundation, as well as all incidentals, per specifications.
5. When "w/ Luminaire" is used, COUNTY will provide detail luminaire requirements in the plans.
6. Double Arm with luminaire requires special design (CC=99); not covered by design standard index. Complete calculations are required.
7. BCC=999 (Custom) to be used only when wind loads, specifications and/or standards do not apply, due to significant design changes. Complete design calculations, including wind loads, are required in the plans.

8. When street name signs are to be located on a signals mast arm, COUNTY will provide the detailed information to include sign (size, shape, letters, etc.) in the SIGNING plans.
9. REMOVE: Includes the removal of the foundation, as well as any attachments (vehicular/pedestrian signals, pedestrian detector, lighting, etc.).

L. ITEM NO. 650-1-AB / VEHICULAR TRAFFIC SIGNAL / ASSEMBLY (AS)

A = Operation

- 1 (Furnish & Install- Aluminum)*
 - 2 (Furnish & Install- Polycarbonate with Aluminum Top Section)*
 - 3 (Furnish & Install- Polycarbonate)*
 - 4 (Furnish & Install- Programmable)*
 - 5 (Install) B=0 Signal furnished by COUNTY
 - 6 (Remove- Poles to Remain) B=0
 - 7 (Relocate) B=0. DO NOT USE for MOT activities
- *NOT to be used for adding a section to an existing assembly; see pay item 650-2 for adding sections.

B = Sections, Ways

- 1 (1 Section, 1 way)
- 2 (1 Section, 2-4 ways)
- 3 (2 Section, 1-2 ways)
- 4 (3 Section, 1 way)
- 5 (3 Section 2-4 ways)
- 6 (4 Section, 1 way)
- 7 (4 Section, 2-4 ways)
- 8 (5 Section- straight, 1 way)
- 9 (5 Section-cluster, 1 way)

1. Pay item includes standard traffic signal with LED indications, back plates, visors, and all other materials necessary for a complete installation.
2. INSTALL only: material to be furnished by COUNTY.
3. REMOVE: No separate payment for signal head removal when the poles are to be removed.
4. RELOCATE: Includes the removal of the signal head and re installation as instructed in the work request. Payment includes signal cable and all other materials necessary for a complete and acceptable relocation.
5. NOTE: USE POLYCARBONATE SIGNAL HOUSING FOR ALL MAST ARM INSTALLATIONS AND ALUMINUM TOP SECTION W/ POLYCARBONATE BOTTOM SECTION SIGNAL HOUSING FOR SPAN WIRE INSTALLATIONS.

M. ITEM NO. 650-2-ABB / VEHICULAR SIGNAL AUXILIARIES / EACH (EA)

A = Operation

1 (Repair/Replace/Retrofit- Furnish & Install)

3 (Repair/Replace/Retrofit- Install) Item furnished by local agency

BB = Item

01 (Backplate – Black) NOT USED

02 (Backplate – Black with Retroreflective Border)

05 (Tunnel Visor)

06 (12" LED Module – Standard)

07 (8" LED Module – Emergency Signal)

08 (Add section/s to existing signal assembly)

1. This item is NOT TO BE USED FOR NEW SIGNAL ASSEMBLIES.

2. This item is intended for repair/replacement/retrofit of existing signal assemblies. Tabulate items by location in the work request.

N. ITEM NO. 653-1-AB / PEDESTRIAN SIGNAL / ASSEMBLY (AS)

A = Operation

1 (Furnish & Install LED Countdown)

3 (Install) B=0

4 (Relocate) B=0

6 (Remove Pedestrian Signal; pole/pedestal to remain) B=0

B = Ways

1 (1 way)

2 (2 ways)

1. This pay item is for traffic control devices. LED Countdown is the current standard.

2. REMOVE: No separate payment for removal of the Pedestrian Signal, when the pole/mast arm is being removed. See the pole/pedestal pay items.

O. ITEM NO. 654-2-AB / RECTANGULAR RAPID FLASHING BEACON ASSEMBLY (RRFB) / MIXED

A = Operation

1 (Furnish & Install- AC Powered) B=1 or 2

2 (Furnish & Install- Solar Powered) B=1 or 2

3 (Install) B=0 NOT USED

4 (Relocate) B=0 NOT USED

5 (Adjust/Modify) B=0 NOT USED

6 (Remove) B=0 NOT USED

7 (Replace) B=0 for Maintenance use

B = Component

1 (Complete Assembly- Single Direction) AS

2 (Complete Assembly- Back-to-Back) AS

3 (Cabinet) EA NOT USED

4 (Signs and RRFB unit) EA NOT USED

1. Refer to the FDOT Traffic Engineering Manual for additional information.
2. COMPLETE ASSEMBLY: "includes a rectangular beacon and signs for each approach, sign support structure, cabinet, electronics, wiring, and pedestrian detector. Solar panels are included in the cost of the assembly, when shown in the plans." NOTE: a minimum of 2 assemblies are normally needed per mid-block crossing- one for each approach.
3. SINGLE DIRECTION: Includes beacons and signs for one direction, with "everything on the post" included.
4. BACK-TO-BACK: Includes beacons and signs for both directions, with "everything on the post" included.
5. CABINET: Used for Maintenance activities only. For new installations, this item is included in the complete system.
6. SIGNS AND RRFB UNIT: Includes the beacons, signs, AND attachment hardware for a single direction unit, for non-standard installations. The signs with beacon pair are one unit, per each.
7. REPLACE: Maintenance use; Includes replacement of batteries, detectors, signal indications.

P. ITEM NO. 659-1-ABB / MAST ARM, SPAN WIRE, AND POLE MOUNTING ASSEMBLIES / EACH (EA)

A = Operation

1 (Repair/Replace/Retrofit- Furnish & Install) NOT for use with new signal assemblies

3 (Repair/Replace/Retrofit- Install) Item furnished by local agency

BB = Component

1 (Mast Arm Mounting Assembly) "Hanger"

2 (Span Wire Mounting Assembly) "Hanger" Other components, as requested

1. Pay item includes replacement of damaged traffic signal and sign mounting hardware and adjustable hanger assemblies.
2. NO SEPARATE PAYMENT will be made for hangers on new signal installations. This item is valid for repair /replacement /retrofit applications only.

3. All materials used shall be listed on the FDOT Qualified Products List (QPL).

Q. ITEM NO. 660-2-ABB / LOOP ASSEMBLY / ASSEMBLY (AS)

A = Operation

1 (Furnish & Install)

BB = Type

01 (Type A)

02 (Type B)

03 (Type C)

04 (Type D)

05 (Type E)

06 (Type F)

07 (Type G)

08 (Type H)

1. This pay item is for traffic signals and traffic control devices only.
2. Refer to FDOT Minimum Specifications for Traffic Control Signal Devices, as applicable. Includes cost of loop material, labor, equipment, etc. according to specifications. Price includes installation, splicing, 50ft or less of Belden 50-2 home run cable.

R. ITEM NO. 660-3-AB / VEHICLE DETECTION SYSTEM-MICROWAVE / EACH (EA)

A = Operation

1 (Furnish & Install) B=1 or 2

3 (Install) Department furnished equipment NOT USED

4 (Relocate) NOT USED

5 (Adjust/Modify) NOT USED

6 (Remove) B=0 NOT USED

8 (Preventative Maintenance) B=0 NOT USED

9 (Diagnosis and Misc. Repair) B=0 NOT USED

B = Component

0 (Complete System)

1 (Cabinet Equipment) NOT USED

2 (Above ground Equipment) Note: Mounting hardware and cabling is considered incidental to sensor.

1. This item is intended for Vehicle Detection Systems, excluding Loop Systems. Details such as location of detectors, detection zones, and roadside components provided by COUNTY.

S. ITEM NO. 660-4-AB[c] / VEHICLE DETECTION SYSTEM-VIDEO / EACH (EA)

A = Operation

- 1 (Furnish & Install)
- 3 (Install) COUNTY furnished equipment
- 4 (Relocate)
- 5 (Adjust/Modify)
- 6 (Remove) B=0
- 8 (Preventative Maintenance) B=0
- 9 (Diagnosis and Misc. Repair) B=0

B = Component

- 0 (Complete System)
- 1 (Cabinet Equipment)
- 2 (Above ground Equipment) Note: COUNTY will indicate quantity and location of camera(s). Mounting hardware and cabling is considered incidental to camera(s).

[c] = [a] 4 Directions, w/ 4 cameras

[b] 3 Directions, w/ 3 cameras

[c] 2 Directions, w/ 2 cameras

[d] 1 Direction, w/ 1 camera

1. This item is intended for Video Vehicle Detection Systems. Details such as location of detectors, detection zones, and roadside components will be provided by COUNTY. All materials used shall be on the FDOT APL and shall be fully compatible with COUNTY'S video detection systems.

T. ITEM NO. 660-5-AB / VEHICLE DETECTION SYSTEM-WIRELESS / EACH (EA)

A = Operation

- 1 (Furnish & Install)
- 3 (Install) Department furnished equipment
- 4 (Relocate)
- 5 (Adjust/Modify)
- 6 (Remove) B=0
- 8 (Preventative Maintenance) B=0
- 9 (Diagnosis and Misc. Repair) B=0

B = Component

- 0 (Complete System) only for A=6, 8, or 9

1 (Cabinet Equipment) Note: Pay item callout shall be used in plans to indicate QTY and location of shelf mount or detector-card style cabinet interface hardware required. Cabling, and other system components are considered incidental to interface card(s).

2 (Above ground Equipment) Note: Pay item callout shall be used in plans to indicate QTY and location of access point(s) or repeater(s) required. Mounting hardware and cabling is considered incidental to access point(s) and repeater(s).

3 (In-Road Electronics) Note: Pay item callout shall be used in plans to indicate QTY and location of wireless magnetometer sensors embedded in roadway

1. This item is intended for Wireless Vehicle Detection Systems.
2. Coordinate with COUNTY regarding equipment specifications, location of detectors, detection zones, and roadside components.

U. ITEM NO. 665-1-AB / PEDESTRIAN DETECTOR / EACH (EA)

A = Operation

1 (Furnish & Install)

3 (Install) Dept. Furnished Equipment; B=0

4 (Relocate) B=0

5 (Adjust/Modify) B=0

6 (Remove- Pole/Pedestal to Remain) B=0

8 (Preventative Maintenance) B=0

9 (Diagnosis and Misc. Repair) B=0

B = Type

1 (Standard)

2 (Accessible)

1. Pedestrian detectors may be mounted on poles, posts, or pedestals, in accordance with the FDOT Design Standards. Payment includes pedestrian information signs/sticker, as shown on FDOT Index 17784. Additional design guidance is available in MUTCD Section 4E.
2. Note: Poles, posts, and pedestals are paid separately under PAY ITEMS 641-, 646-, or 649.
3. INSTALL: Detector and Sign to be furnished by COUNTY. Incidental parts to complete the installation to be furnished by CONTRACTOR.
4. RELOCATE: COUNTY will provide relocation details in the work request.
5. REMOVE- POLE/PEDESTAL TO REMAIN: All removed equipment shall be returned to COUNTY. Note- No separate payment for removal of pedestrian detector when pole/pedestal is removed (included with pole removal).

V. ITEM NO. 670-5-ABC / TRAFFIC CONTROLLER ASSEMBLY / ASSEMBLY (AS)

A = Operation

1 (Furnish & Install)

3 (Install) BC=00; COUNTY furnished

4 (Modify) BC=00; DO NOT USE with a new controller

5 (Relocate Controller and Cabinet) BC=00

6 (Remove Controller and Cabinet) BC=00 effective 1-1-15

B = Cabinet with Controller Type
1 (NEMA)
5 (ATC)

C = Special Features
0 (None)
1 (One Preemption Plan)
2 (Two Preemption Plans)

1. This pay item is for traffic signals and traffic control devices only.
2. Note that the controller assembly includes both the controller electronics and the cabinet. Cabinet and all internal electronic components shall be listed on FDOT's QPL and strictly adhere to COUNTY specifications and standards.
3. FURNISH & INSTALL: includes all work and materials to set-up controller in the cabinet. COUNTY will provide all timing plan and program set up data.
4. MODIFY: Tech specs required to detail work to be completed. DO NOT USE this pay item for set- up of new controllers.
5. For Special Type, detail all components.
6. REMOVE: Includes the removal of the cabinet, all electronics, and base/foundation.
7. The description, materials, construction/installation requirements and method of measurement will be provided in the work request to clearly define the work to be completed for payment under this item.

W. ITEM NO. 676-2-ABB / ITS CABINET / EACH (EA)

A = Operation
1 (Furnish & Install)
3 (Install) BB=00
4 (Relocate) BB=00
5 (Adjust /Modify) BB=00
6 (Remove) BB=00

BB = Description- Function, Type and Size
1 (ITS Cabinet, pole mount)
2 (ITS Cabinet, pole mount w/sunshields)
3 (ITS Cabinet, base mount)
4 (ITS Cabinet, base mount w/sunshields) For unwired cabinet, use 676-1.

BB = Description-Type and Size
1 (336, 24" W x 36" H x 20" D)

- 2 (336S, 24" W x 46" H x 22" D)
- 3 (334, 24" W x 66" H x 30" D)

1. This cabinet is used to house traffic control devices and other electronics associated with Intelligent Transportation Systems.
2. The cabinet assembly includes both the ITS electronics and the cabinet. Cabinet and all internal electronic components shall be listed on FDOT's QPL and strictly adhere to COUNTY specifications and standards.

X. ITEM NO. 680-1-ABC / SYSTEM CONTROL EQUIPMENT / EACH (EA)

A = Operation

- 1 (Furnish & Install) C=2 or 3
- 3 (Install) BC=00
- 4 (Relocate) BC=00
- 5 (Adjust/Modify) BC=00
- 6 (Remove) BC=00
- 9 (Diagnostic and Misc. Repair) BC=00

B = System Type

- 1 (Adaptive Signal Control System - NEMA)
- 2 (Adaptive Signal Control System - 170)

C = Component

- 0 (Complete System) detail n plans all work/components involved
- 2 (Cabinet Equipment)
- 3 (Above Ground Equipment)

1. Specification currently only includes Adaptive Signal Control System.
2. Furnish & Install: Use BOTH 687-1-ABC pay items for cabinet equipment (1 each per cabinet) and above ground equipment (1 each per sensor).
3. INSTALL: Use BC=00. Detail components to be installed in the plans, including location of sensor(s). Components to be furnished by FDOT or local agency; include contact information in the plans.
4. ADJUST/MODIFY: Detail work to be completed in the plans or specifications.
5. REMOVE: Use BC=00. Detail work to be completed in the plans or specifications, including the quantity and location of the item(s) to be removed. Use a quantity of 1 each per complete system.

Y. ITEM NO. 682-1-AB / CCTV CAMERA / EACH (EA)

A = Operation

- 1 (Furnish & Install)
- 3 (Install)
- 4 (Relocate) B=0
- 5 (Adjust /Modify) B=0
- 6 (Remove & Dispose) B=0
- 7 (Remove & Stockpile) B=0
- 8 (Maintenance, clean lenses, pressurize dome)
- 9 (Misc. diagnostic and repair)

B = Type

- 1 (Dome enclosure, pressurized)
- 2 (External positioner, pressurized)
- 3 (Dome enclosure, non-pressurized)
- 4 (External positioner, non-pressurized)

1. For installations along the roadway or intersections, to provide video of traffic movements. Includes mounting hardware, cabling, and power supply.
2. CCTV components shall be listed on FDOT's QPL and strictly adhere to COUNTY specifications and standards.
3. PREVENTIVE MAINTENANCE: To include cleaning lenses, pressurizing domes.
4. DIAGNOSTIC AND MISC. REPAIR: For repair of CCTV unit to identify and correct power, communication, PTZ, dome pressure alarms and other miscellaneous repair items.

Z. ITEM NO. 633-1-ABC / FIBER OPTIC CABLE / LINEAR FEET (FT)

A = Operation

- 1 (Furnish & Install)
- 3 (Install) Furnished by COUNTY; C=0
- 4 (Relocate) C=0
- 6 (Remove) C=0

B = Location

- 1 (Bridge Mount)
- 2 (Underground)

C = Number of Fibers in Cable

- 1 (2 to 12)
- 2 (13 to 48)
- 3 (49 to 96)
- 4 (97 to 144)

1. For use in fiber optic networks that support ITS devices and their connection to communication hubs, transportation management centers, and related facilities.
Use "overhead" for installations involving bridges and other aboveground structures. Use "underground" for cable placed in buried conduit along the roadside.

AA. ITEM NO. 633-2-AB / FIBER OPTIC CONNECTION / EACH (EA)

A = Operation
3 (Install)

B = Type
1 (Splice)
2 (Termination)

1. For use in fiber optic networks where segments of fiber optic cable shall be spliced together, or when cables shall be terminated at the end of a segment. Note that each connection involves the fusing of individual optical fibers in a cable.

Payment "each" is for each FIBER to be connected, i.e. 30 fibers in one cable= 30 connections

BB. ITEM NO. 633-3-AB / FIBER OPTIC CONNECTION HARDWARE / EACH (EA)

A = Operation
1 (Furnish & Install)
3 (Install)
4 (Relocate)
5 (Adjust /Modify)

B = Component
1 (Splice Enclosure)
2 (Splice Tray)
3 (Pre-terminated Connector Assembly)
4 (Buffer Tube Fan Out Kit)
5 (Patch Panel, Pre-terminated)
6 (Patch Panel, Field Terminated)
7 (Connector Panel)

1. For use in fiber optic networks, where segments of cable shall be spliced together.
2. Hardware items include incidental hardware and cables for a complete installation.
3. Hardware items furnished with additional cable, such as pre-terminated patch panels, include the installation of the cable. DO NOT provide additional payment for cable installation under cable or conduit items.

CC. ITEM NO. 685-1-ABC / UNINTERRUPTABLE POWER SUPPLY / ASSEMBLY (AS)

A = Operation

1 (Furnish & Install)

2 (Install)

6 (Remove, pole/cabinet remains)

7 Relocate (B=0)

B = Type

1 (Line Interactive) installed within controller cabinet

2 (Online/Double Conversion) installed within controller cabinet

3 (Line Interactive, with Cabinet) includes separate cabinet for UPS only

4 (Online/Double Conversion, with Cabinet) includes separate cabinet for UPS only

C = Component

1 (Battery)

1. From Section 685 of the Specifications:

- a. UPS assemblies shall be designed for installation in a roadside NEMA 3R enclosure to provide battery backup functionality for traffic control systems, including traffic signal and intelligent transportation system (ITS) devices. UPS assemblies shall include batteries provided by the UPS manufacturer or in accordance with manufacturer's requirements.
- b. When UPS is installed or mounted OUTSIDE (attached to or piggy back) to a new or existing controller cabinet, payment for the UPS cabinet is included under 685.
- c. When UPS is installed SEPARATELY (base mounted), payment for the UPS cabinet will be included under 685. Detail UPS cabinet and base in the plans.
- d. Pay item includes installation of an uninterruptable power supply for traffic signal applications only. Complete installation includes cabinet, internal electronic and electrical components and batteries.
- e. UPS shall be listed on the FDOT APL and shall adhere to the COUNTY'S specifications and be compatible with existing systems.

DD. ITEM NO. 700-1-AB / SINGLE POST SIGN / ASSY (AS)

A = Operation

1 (Furnish & Install Ground Mount) max wind load 30 ft²

2 (Furnish & Install Barrier Mount, Index 11871) max wind load area 20 ft²*

3 (Furnish & Install Bridge Mount, Index 11870) max wind load area per index

4 (Install) B=0; furnished by FDOT or local agency

5 (Relocate) B=0; relocated within project

6 (Remove) B=0

7 (Furnish & Install, Custom with Wind load area >30 ft²) Index 11861, B=4

8 (Repair) for Maintenance use only; B=0

B = Combined sheeting area of all panels on post

1 (Up to 12 ft²) "less than 12"

2 (12-20 ft²)

3 (21-30 ft²)

4 (31+ ft²)

5 (21-24 ft² back-to-back) *valid for A=2 only, pending for updated index 11871

8 (In-Street Flexible Post) A=1

1. GROUND MOUNT: Includes the signs, hardware, post, and foundation, per index 11860 and 11861.
2. MEDIAN BARRIER MOUNT: Includes the signs, hardware, post, and materials necessary to complete the mount, per index 11871. Maximum wind load of 20 SF, per the index. See the Plans Preparation Manual (PPM), Volume 1, Sections 4.5 and 7.2.5.
3. BRIDGE MOUNT: Includes the signs, hardware, post, and materials necessary to complete the mount, per index 11870.
4. CUSTOM Wind Load: See Index 11861 IDS. Includes the signs, hardware, post and materials necessary to complete the mount. This item should ONLY be used when standard single or multi-post assemblies are not possible and is only intended for use on curb & gutter facilities where the distance between the curb and the sidewalk restricts the use of Index 11200.
5. RELOCATE/REMOVE: Includes panels, posts, foundation, and any other items attached to the assembly (beacon, solar panel, etc.), as noted in the plans. Removed items become the property of CONTRACTOR, unless otherwise noted in the plans/specs.

EE. ITEM NO. 700-5-AB / INTERNALLY ILLUMINATED SIGN / EACH (EA)

A = Operation

1 (Furnish & Install, Ground Mount) includes single post

2 (Furnish & Install, Overhead Mount) includes span wire or mast arm installation

4 (Install) B=0; furnished by COUNTY

5 (Relocate) B=0

6 (Remove) B=0

B = Size, square feet

1 (Up to 12 ft²)

2 (12-18 ft²) max 18 ft² for internal illumination, per specification

1. Internally Illuminated signs include street name signs. All mounting hardware is included in the sign pay item. The support structure (poles, span wire, and/or mast arm) is paid separately.

2. Signs shall be internally illuminated using LED. Sign designs shall adhere to FDOT and COUNTY Standards.
3. NOTE: Special 'M' series pay items reference specific COUNTY maintenance tasks not defined under FDOT BOE pay items. Refer to bid form for specific requirements for each 'M' series pay item. CONTRACTOR to provide materials for all 'M' series pay items.

FF. ITEM NO. 700-12-AB / SIGN BEACON / ASSEMBLY (AS)

A = Operation

- 1 (Furnish & Install, Ground Mount- AC Powered)
- 2 (Furnish & Install, Ground Mount- Solar Powered)
- 3 (Furnish & Install, Overhead Mount) span wire, mast arm, or other
- 4 (Install) furnished by FDOT or local agency
- 5 (Relocate Beacon; sign to remain) B=0
- 6 (Remove Beacon; sign to remain) B=0

B = Number of beacon(s) per sign

- 1 (One Beacon)
- 2 (Two Beacons)

1. Includes ONLY THE BEACON(S), cabinet, controller, and solar panel, when noted. DOES NOT INCLUDE THE SIGN or support structure.
2. Use this pay item along with single post, multi post, or other signs.
3. RELOCATE/REMOVE: These items are to be used ONLY when relocating or removing the beacons, WITH NO CHANGE to the sign assembly. If you are relocating or removing the entire assembly, the beacon(s) are included with the assembly; use the sign assembly.

GG. ITEM NO. M-1-A / HEAVY EQUIPMENT SERVICES / HOUR (HR)

A = Operation

- 01 (Furnish) Lift Truck / 30' Foot reach, w/ Operator
- 02 (Furnish) Lift Truck/ 50' Foot reach, w/ Operator
- 03 (Furnish) 16" – 42" diameter auger, w/ Operator
- 04 (Furnish) 4" Wide trencher, w/ Operator
- 05 (Furnish) Tractor w/ backhoe and bucket, w/ Operator
- 06 (Furnish) Pressure digger/drill rig, w/ Operator
- 07 (Furnish) Mobile crane, min. 60 Ton Cap., w/ Operator
- 08 (Furnish) Mobile crane, min. 65 Ton Cap., w/ Operator
- 09 (Furnish) Mobile crane, min. 85 Ton Cap., w/ Operator

1. These pay items support the hourly payment for use of heavy equipment with operators. Includes work performed outside of the scope of standard pay items listed above.
2. This pay item will not be used in conjunction with any of the above listed pay items.
3. Minimum rate charge is 4 hours.

HH. ITEM NO. M-2-A / PROFESSIONAL AND TECHNICAL SERVICES / MIXED (MX)

A = Operation

01 (Furnish) Geotechnical testing for foundations

02 (Furnish) Vacuum excavation/ soft dig (per structure or location)

03 (Furnish) Pick up and transport mast arms, strain poles (compound to job site)

04 (Furnish) Traffic Control Officer (during MOT)

05 (Furnish) Utility Locate Services

1. These pay items support the payment for provision of professional and technical services. Includes work performed outside of the scope of standard pay items listed above.
2. This pay item will not be used in conjunction with any of the above listed pay items.
3. Geotechnical testing for foundations: performed upon request, includes certified, licensed professional inspection and testing. COUNTY shall receive full test results in a timely manner.
4. Vacuum excavation/ soft dig: Performed upon request, per structure or location. Includes the use of a vacuum excavator to perform non-destructive excavation as needed to identify buried utilities or infrastructure.
5. Pick up and transport mast arms, strain poles: Performed upon request. Per transport. Includes the pick and transport of mast arms or strain poles site to site. All transportation done locally (Public Works compound to job site). Costs for crane services billed under the M-1-A pay item.
6. Traffic Control Officer: Performed as needed, per hour. Includes hiring off duty law enforcement to assist with maintenance of traffic. Utility Locate Services: Performed upon request, per hour for locating services for underground transportation infrastructure to include traffic signal, lighting, ITS. Services include electronic locating, marking with flags and paint, hand digging to uncover and visually verify conduit.

EXHIBIT B, FEE RATE SCHEDULE

EXHIBIT B, FEE RATE SCHEDULE
IFB NO. 21-R076431BB
TRAFFIC SIGNAL AND INTELLIGENT TRANSPORTATION SYSTEMS MAINTENANCE
TRAFFIC CONTROL DEVICES, INC.

LINE ITEM NO.	ACTIVITY F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING	DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	
CONDUIT										
1	F/I	FURNISH/INSTALL	CONDUIT BY TRENCHING	630-2-11	17721	2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT.	LF	\$9.65	500	\$4,825.00
2	F/I	FURNISH/INSTALL	CONDUIT BY TRENCHING	630-2-11		2" CONDUIT - 2-3 RUNS SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT - MEASUREMENT BASED ON LENGTH OF TRENCH.	LF	\$17.50	500	\$8,750.00
3	F/I	FURNISH/INSTALL	CONDUIT BY HAND DIGGING	630-2-11		2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT.	LF	\$15.50	500	\$7,750.00
4	F/I	FURNISH/INSTALL	CONDUIT BY HAND DIGGING	630-2-11		2" CONDUIT - 2-3 RUNS SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT - MEASUREMENT BASED ON LENGTH OF TRENCH.	LF	\$25.00	500	\$12,500.00
5	F/I	FURNISH/INSTALL	CONDUIT BY DIRECTIONAL BORING - FOR FIBER OPTIC CABLE	630-2-12	18202 AND 18204	1 1/4" HDPE CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT.	LF	\$19.50	1,000	\$19,500.00
6	F/I	FURNISH/INSTALL	CONDUIT BY DIRECTIONAL BORING	630-2-12	17721	2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT.	LF	\$20.50	1,000	\$20,500.00
7	F/I	FURNISH/INSTALL	CONDUIT BY DIRECTIONAL BORING	630-2-12		2" CONDUIT - 2-3 RUNS SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT - MEASUREMENT BASED ON LENGTH OF BORE.	LF	\$35.50	1,000	\$35,500.00
8	F/I	FURNISH/INSTALL	CONDUIT - JACK AND BORE	630-2-13		2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT.	LF	\$44.00	100	\$4,400.00
9	F/I	FURNISH/INSTALL	CONDUIT - ABOVEGROUND OR STRUCTURE MOUNTED	630-2-14		2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT - REMOVAL OF EXISTING CONDUIT AND CABLE CONSIDERED INCIDENTAL.	LF	\$24.50	100	\$2,450.00
10	F/I	FURNISH/INSTALL	CONDUIT - ABOVEGROUND	630-2-14		1-2" RIGID CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT- REMOVAL OF EXISTING CONDUIT AND CABLE CONSIDERED INCIDENTAL.	LF	\$24.50	100	\$2,450.00
11	F/I	FURNISH/INSTALL	CONDUIT - BRIDGE MOUNT	630-2-15	2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT - REMOVAL OF EXISTING CONDUIT AND CABLE CONSIDERED INCIDENTAL.	LF	\$62.50	100	\$6,250.00	
SIGNAL CABLE										
12	F/I	FURNISH/INSTALL	SIGNAL CABLE - INSTALL NEW OR REPLACE EXISTING	632-7-1	NEC & NESC MANATEE COUNTY DESIGN GUIDE	FURNISH AND INSTALL TRAFFIC SIGNAL CABLING FROM CONTROLLER CABINET TO ALL TRAFFIC SIGNAL INDICATIONS, ILLUMINATED SIGNS, AND BLANK OUT SIGNS. SEPARATE PAY ITEMS SHALL APPLY TO DETECTION HOME RUNS. REMOVAL OF EXISTING CABLE SHALL BE CONSIDERED INCIDENTAL, ANY CABLE REMOVED SHALL BE RETURNED TO MANATEE COUNTY TRAFFIC OPERATIONS.	PI	\$8,666.00	3	\$25,998.00
13	F/I	FURNISH/INSTALL	SIGNAL CABLE -REPAIR, REPLACE, OTHER	632-7-2		REPAIR OR REPLACE TRAFFIC SIGNAL CABLING. INCLUDES 'BELDEN' 50-2 TYPE INDUCTIVE LOOP ASSEMBLY LEAD IN CABLE. REMOVAL OF EXISTING CABLE SHALL BE CONSIDERED INCIDENTAL, ANY CABLE REMOVED SHALL BE RETURNED TO MANATEE COUNTY TRAFFIC OPERATIONS.	LF	\$6.55	300	\$1,965.00
SPAN WIRE ASSEMBLIES										
14	F/I	FURNISH/INSTALL	SPAN WIRE ASSEMBLY - PERPENDICULAR	634-4-151	17727	PERPENDICULAR - 2 POINT ATTACHMENT SECTION 634 OF FDOT STANDARD SPECIFICATIONS & MSTCSD SECTION A634.	PI	\$4,696.00	1	\$4,696.00
15	F/I	FURNISH/INSTALL	SPAN WIRE ASSEMBLY - DIAGONAL	634-4-152		DIAGONAL - 2 POINT ATTACHMENT SECTION 634 OF FDOT STANDARD SPECIFICATIONS & MSTCSD SECTION A634.	PI	\$3,390.00	1	\$3,390.00
16	F/I	FURNISH/INSTALL	SPAN WIRE ASSEMBLY - BOX	634-4-153		BOX SPAN - 2 POINT ATTACHMENT SECTION 634 OF FDOT STANDARD SPECIFICATIONS & MSTCSD SECTION A634.	PI	\$8,140.00	1	\$8,140.00
17	M/E	REMOVE	SPAN WIRE ASSEMBLY - REMOVE	634-4-600		SECTION 634 OF FDOT STANDARD SPECIFICATIONS & MSTCSD SECTION A635. INCLUDES ADJUSTMENT AND/OR REPLACEMENT OF HARDWARE AS NEEDED. ADJUSTING AND RE-SECURING SIGNAL CABLE END TO END.	PI	\$933.00	1	\$933.00
18	M/E	REPAIR	SPAN WIRE - RE-TENTION	634-4-700		SECTION 634 OF FDOT STANDARD SPECIFICATIONS & MSTCSD SECTION A635. INCLUDES ADJUSTMENT AND/OR REPLACEMENT OF HARDWARE AS NEEDED. ADJUSTING AND RE-SECURING SIGNAL CABLE END TO END.	EA	\$1,235.00	3	\$3,705.00
PULL AND SPLICE BOX										
19	F/I	FURNISH/INSTALL	PULL BOX AND LID - QUAZITE - 17" X 30" (LARGE SIZE)	635-2-12	17721	REMOVAL OF EXISTING CONCRETE SIDEWALK OR LANDING PAD AND BOX SHALL BE CONSIDERED INCIDENTAL, CONTRACTOR TO DISPOSE OF ANY DAMAGED BOXES PROPERLY. ANY DISTURBED DIRT SHALL BE RETURNED TO THE PRE-WORK GRADE CONSTRUCTION CONDITION AND BE COMPATIBLE WITH SURROUNDING GROUND AREAS.	EA	\$1,180.00	5	\$5,900.00
20	F/I	FURNISH/INSTALL	PULL BOX AND LID - QUAZITE - 30" X 60"	635-2-13		REMOVAL OF EXISTING CONCRETE SIDEWALK OR LANDING PAD AND BOX SHALL BE CONSIDERED INCIDENTAL, CONTRACTOR TO DISPOSE OF ANY DAMAGED BOXES PROPERLY. ANY DISTURBED DIRT SHALL BE RETURNED TO THE PRE-WORK GRADE CONSTRUCTION CONDITION AND BE COMPATIBLE WITH SURROUNDING GROUND AREAS.	EA	\$3,262.00	2	\$6,524.00
21	I/O	INSTALL	PULL BOX AND LID - QUAZITE - 17" X 30"	635-2-30		REMOVAL OF EXISTING CONCRETE SIDEWALK OR LANDING PAD AND BOX SHALL BE CONSIDERED INCIDENTAL, CONTRACTOR TO DISPOSE OF ANY DAMAGED BOXES PROPERLY. ANY DISTURBED DIRT SHALL BE RETURNED TO THE PRE-WORK GRADE CONSTRUCTION CONDITION AND BE COMPATIBLE WITH SURROUNDING GROUND AREAS. COUNTY PROVIDED MATERIALS.	EA	\$786.00	5	\$3,930.00
22	M/E	REMOVE/INSTALL	PULL BOX AND LID - RELOCATE	635-2-40		ADJUST OR RELOCATE. REMOVAL OF EXISTING CONCRETE SIDEWALK OR LANDING PAD AND BOX SHALL BE CONSIDERED INCIDENTAL. ANY DISTURBED CONCRETE OR DIRT SHALL BE RETURNED TO THE PRE-WORK GRADE CONSTRUCTION CONDITION AND BE COMPATIBLE WITH THE SURROUNDING AREAS.	EA	\$1,061.00	5	\$5,305.00

LINE ITEM NO.	ACTIVITY F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING	DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE
POWER SERVICE									
23	F/I	FURNISH/INSTALL	ELECTRIC POWER SERVICE ASSEMBLY - OVERHEAD	639-1-112	17736 & FDOT BOE SECTION 620	EA	\$2,939.00	2	\$5,878.00
24	F/I	FURNISH/INSTALL	ELECTRIC POWER SERVICE ASSEMBLY - UNDERGROUND	639-1-122		EA	\$2,438.00	2	\$4,876.00
25	M/E	REMOVE	ELECTRIC POWER SERVICE ASSEMBLY - REMOVE	639-1-600		EA	\$559.00	2	\$1,118.00
26	M/E	REMOVE/INSTALL	ELECTRICAL POWER SERVICE - UTILITY SERVICE RISER - RELOCATE	639-1-410	17504	EA	\$1,005.00	5	\$5,025.00
27	F/I	FURNISH/INSTALL	ELECTRICAL POWER SERVICE - UTILITY SERVICE RISER - RELOCATE	639-1-420		EA	\$593.00	5	\$2,965.00
28	M/E	MODIFY EXISTING	ELECTRICAL SERVICE WIRE - RELOCATE	639-2-4	NEC & NESC	LF	\$2.10	500	\$1,050.00
29	F/I	FURNISH/INSTALL	ELECTRICAL SERVICE WIRE - FURNISH AND INSTALL	639-2-1		LF	\$3.60	5000	\$18,000.00
EMERGENCY PORTABLE GENERATOR HOUSING									
30	I/O	INSTALL	EMERGENCY GENERATOR - HOUSING ONLY	639-4-6	MANATEE COUNTY DESIGN GUIDE	EA	\$813.00	2	\$1,626.00
PRESTRESSED CONCRETE POLE									
31	F/I	FURNISH/INSTALL	PRESTRESSED CONCRETE POLE	641-2-12	17764	EA	\$1,403.00	1	\$1,403.00
32	M/E	REMOVE	PRESTRESSED CONCRETE POLE	641-2-70		EA	\$2,352.00	1	\$2,352.00
33	M/E	REMOVE	PRESTRESSED CONCRETE POLE	641-2-80		EA	\$3,288.00	1	\$3,288.00
34	I/O	INSTALL	PRESTRESSED CONCRETE POLE	641-2-30		EA	\$14,408.00	1	\$14,408.00
STRAIN POLE - WOOD									
35	F/I	FURNISH/INSTALL	STRAIN POLE - WOOD POLE NOMINAL SIZE 40'	643-140	17727	EA	\$3,310.00	2	\$6,620.00
36	F/I	FURNISH/INSTALL	STRAIN POLE - WOOD POLE NOMINAL SIZE 50'	643-150		EA	\$3,669.00	2	\$7,338.00
37	M/E	REMOVE	STRAIN POLE WOOD - REMOVE	643-600		EA	\$890.00	2	\$1,780.00
ALUMINUM SIGNAL POLE									
38	F/I	FURNISH/INSTALL	ALUMINUM SIGNAL POLE - PEDESTAL	646-1-11	17764/17784	AS	\$1,759.00	10	\$17,590.00
39	F/I	FURNISH/INSTALL	ALUMINUM SIGNAL POLE - PEDESTRIAN DETECTOR POST	646-1-12		AS	\$1,655.00	10	\$16,550.00
STEEL MAST ARM ASSEMBLY									
40	M/E	REMOVE	STEEL MAST ARM ASSEMBLY - REMOVE	649-36-100	17743	EA	\$1,465.00	1	\$1,465.00
41	M/E	REPAIR	MAST ARM REPAIR - MAINTENANCE - GROUT PAD	649-38-000	17745	EA	\$1,096.00	10	\$10,960.00
42	F/I	FURNISH/INSTALL	MAST ARM REPAIR - MAINTENANCE - WIRE MESH SCREEN	649-38-000	17745 AND Section 649-6	EA	\$304.00	10	\$3,040.00
43	M/E	REPAIR	MAST ARM REPAIR - MAINTENANCE - SPOT PAINT <100 SQ INCHES	649-38-000	17745	EA	\$565.00	10	\$5,650.00
44	M/E	REPAIR	MAST ARM REPAIR - MAINTENANCE - SPOT PAINT >100 SQ INCHES	649-38-000		EA	\$1,309.00	10	\$13,090.00

LINE ITEM NO.	ACTIVITY F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING	DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	
45	M/E	REPAIR	MAST ARM REPAIR - MAINTENANCE - NUTS, HAND HOLE COVERS, TOE COVERS	649-38-000		TIGHTEN MAST ARM MOMENT CONNECTION NUTS, REPLACE MISSING NUTS, SECURE, INSTALL OR REPLACE MISSING HAND HOLE AND TOE COVERS. PER MAST ARM STRUCTURE. PER ASSEMBLY.	EA	\$1,054.00	20	\$21,080.00
VEHICULAR TRAFFIC SIGNAL										
46	M/E	RELOCATE	VEHICULAR TRAFFIC SIGNAL - RELOCATE - 1, 3, 4 OR 5-SECTION W/REFLECTIVE BORDER BACKPLATE	650-1-70	N/A	RELOCATE SIGNAL HEAD. ADJUSTMENT OF HARDWARE SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION A650 OF MSTCSD & MUTCD 4D.15.	EA	\$937.00	2	\$1,874.00
47	F/I	FURNISH/INSTALL	VEHICLE SIGNAL HEAD - 1 SECTION W/REFLECTIVE BORDER BACKPLATE	650-1-11	N/A	FOR INSTALLATION OR REPLACEMENT OF SIGNAL ASSEMBLY TO INCLUDE LED INSERT, BACKPLATE WITH REFLECTIVE BORDER, TUNNEL VISOR AND MOUNTING HARDWARE. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION A650 OF MSTCSD.	EA	\$753.00	4	\$3,012.00
48	F/I	FURNISH/INSTALL	VEHICLE SIGNAL HEAD - 3 SECTION W/REFLECTIVE BORDER BACKPLATE	650-1-14	N/A	FOR INSTALLATION OR REPLACEMENT OF SIGNAL ASSEMBLY TO INCLUDE LED INSERT, BACKPLATE WITH REFLECTIVE BORDER, TUNNEL VISOR AND MOUNTING HARDWARE. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION A650 OF MSTCSD.	EA	\$1,118.00	80	\$89,440.00
49	F/I	FURNISH/INSTALL	VEHICLE SIGNAL HEAD - 4 SECTION W/REFLECTIVE BORDER BACKPLATE	650-1-16	N/A	FOR INSTALLATION OR REPLACEMENT OF SIGNAL ASSEMBLY TO INCLUDE LED INSERT, BACKPLATE WITH REFLECTIVE BORDER, TUNNEL VISOR AND MOUNTING HARDWARE. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION A650 OF MSTCSD.	EA	\$1,325.00	4	\$5,300.00
50	F/I	FURNISH/INSTALL	VEHICLE SIGNAL HEAD - 5 SECTION CLUSTER W/REFLECTIVE BORDER BACKPLATE	650-1-19	N/A	FOR INSTALLATION OR REPLACEMENT OF SIGNAL ASSEMBLY TO INCLUDE LED INSERT, BACKPLATE WITH REFLECTIVE BORDER, TUNNEL VISOR AND MOUNTING HARDWARE. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION A650 OF MSTCSD.	EA	\$1,724.00	20	\$34,480.00
VEHICULAR SIGNAL AUXILIARIES										
51	F/I	FURNISH/INSTALL	VEHICULAR SIGNAL AUXILIARIES - 12" LED MODULE - RE-LAMP	650-2-106	N/A	FOR RE-LAMPING INTERSECTIONS. REMOVAL OF EXISTING MODULE CONSIDERED INCIDENTAL.	EA	\$254.00	200	\$50,800.00
52	F/I	FURNISH/INSTALL	VEHICULAR SIGNAL AUXILIARIES - BACKPLATE W/ REFLECTIVE BORDER	650-1-19	N/A	FOR REPLACEMENT OF EXISTING OR MISSING BACKPLATES. REMOVAL OF EXISTING EQUIPMENT CONSIDERED INCIDENTAL.	EA	\$422.00	25	\$10,550.00
PEDESTRIAN SIGNAL										
53	F/I	FURNISH/INSTALL	PEDESTRIAN SIGNAL - RE-LAMP	653-1-11	N/A	FOR REPLACEMENT OF PEDESTRIAN LED COUNTDOWN MODULE ONLY. REMOVAL OF EXISTING EQUIPMENT CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION 653.	EA	\$320.00	80	\$25,600.00
54	F/I	FURNISH/INSTALL	PEDESTRIAN SIGNAL - (1 WAY)	653-1-11	17764	FOR INSTALLATION OF PEDESTRIAN SIGNAL TO INCLUDE, COUNTDOWN LED INSERT, HOUSING, AND MOUNTING HARDWARE- REMOVAL OF EXISTING EQUIPMENT CONSIDERED INCIDENTAL.	AS	\$855.00	40	\$34,200.00
55	F/I	FURNISH/INSTALL	PEDESTRIAN SIGNAL - (2 WAY)	653-1-12	17764	FOR INSTALLATION OF PEDESTRIAN SIGNAL TO INCLUDE, COUNTDOWN LED INSERT, HOUSING, AND MOUNTING HARDWARE - REMOVAL OF EXISTING EQUIPMENT CONSIDERED INCIDENTAL.	AS	\$1,531.00	20	\$30,620.00
RECTANGULAR RAPID FLASHING BEACON										
56	F/I	FURNISH/INSTALL	RECTANGULAR RAPID FLASHING BEACON	654-2-21	TEM	FOR INSTALLATION OF COMPLETE ASSEMBLY - 1 WAY.	AS	\$6,480.00	2	\$12,960.00
57	F/I	FURNISH/INSTALL	RECTANGULAR RAPID FLASHING BEACON	654-2-22	TEM	FOR INSTALLATION OF COMPLETE ASSEMBLY - 2 WAY.	AS	\$8,092.00	2	\$16,184.00
MAST ARM, SPAN WIRE, AND POLE MOUNTING ASSEMBLIES										
58	M/E	REPAIR	MAST ARM, SPAN WIRE, POLE MOUNTING ASSEMBLY REPAIR/ REPLACE	659-1-11	N/A	INCLUDES REPLACEMENT OF DAMAGED TRAFFIC SIGNAL AND SIGN MOUNTING HARDWARE AND ADJUSTABLE HANGER ASSEMBLIES.	AS	\$860.00	1	\$860.00
59	M/E	REPAIR	MAST ARM, SPAN WIRE, POLE MOUNTING ASSEMBLY REPAIR/ REPLACE	659-1-12	N/A	INCLUDES REPLACEMENT OF DAMAGED TRAFFIC SIGNAL AND SIGN MOUNTING HARDWARE AND ADJUSTABLE HANGER ASSEMBLIES.	AS	\$617.00	2	\$1,234.00
LOOP ASSEMBLY										
60	F/I	INSTALL/REPAIR	LOOP TYPE B 6' X 6'	660-2-102	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$790.00	10	\$7,900.00
61	F/I	INSTALL/REPAIR	LOOP TYPE A 6' X 20'	660-2-101	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$877.00	10	\$8,770.00
62	F/I	INSTALL/REPAIR	LOOP TYPE A 6' X 30'	660-2-101	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$935.00	10	\$9,350.00
63	F/I	INSTALL/REPAIR	LOOP TYPE A 6' X 40'	660-2-101	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$993.00	10	\$9,930.00
64	F/I	INSTALL/REPAIR	LOOP TYPE F 6' X 20'	660-2-106	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$838.00	10	\$8,380.00
65	F/I	INSTALL/REPAIR	LOOP TYPE F 6' X 30'	660-2-106	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$896.00	10	\$8,960.00

LINE ITEM NO.	ACTIVITY F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING		DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE
66	F/I	INSTALL/REPAIR	LOOP TYPE F 6' X 40'	660-2-106	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$954.00	10	\$9,540.00
67	F/I	INSTALL/REPAIR	LOOP TYPE F 6' X 50'	660-2-106	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$1,012.00	5	\$5,060.00
VEHICLE DETECTION SYSTEM - MICROWAVE										
68	I/O	INSTALL	VEHICLE DETECTION SYSTEM - MICROWAVE	660-3-10	REFER TO MANATEE COUNTY DESIGN GUIDE	FOR COMPLETE SYSTEM INSTALLATION. ALL MAJOR MATERIALS PROVIDED BY COUNTY. INCIDENTAL ITEMS TO BE PROVIDED BY THE CONTRACTOR.	PI	\$3,568.00	2	\$7,136.00
69	F/I	INSTALL/REPAIR	VEHICLE DETECTION SYSTEM - MICROWAVE - ABOVE GROUND EQUIPMENT	660-3-12		FOR INSTALLATION OR REPLACEMENT OF ABOVE GROUND SYSTEM SENSORS. ALL MATERIALS AND SYSTEM SPECIFICATIONS MUST BE APPROVED BY THE COUNTY PRIOR TO PURCHASE.	EA	\$706.00	5	\$3,530.00
VEHICLE DETECTION SYSTEM - VIDEO										
70	F/O	REPAIR	VIDEO DETECTION SYSTEM - MAINTENANCE - PER INTERSECTION	660-4-80	REFER TO MANATEE COUNTY DESIGN GUIDE	CLEAN ALL LENSES, AND TIGHTEN CABLING AND CONNECTIONS, TERMINAL BOX, HOUSING AND MOUNTING BRACKETS, STRAIGHTEN CAMERA AND MOUNTING ASSEMBLY, AND READJUST DETECTION ZONES.	PI	\$845.00	20	\$16,900.00
71	I/O	INSTALL	VIDEO DETECTION SYSTEM (INSTALL) - CABINET EQUIPMENT (PER LOCATION)	660-4-31		FOR COMPLETE SYSTEM INSTALLATION. ALL MAJOR MATERIALS PROVIDED BY COUNTY. INCIDENTAL ITEMS TO BE PROVIDED BY THE CONTRACTOR.	EA	\$745.00	2	\$1,490.00
72	I/O	INSTALL	VIDEO CAMERA (INSTALL) - ABOVE GROUND EQUIPMENT (PER CAMERA)	660-4-32		USE FOR SINGLE OR MULTIPLE CAMERA INSTALLATIONS. COST PER SINGLE CAMERA INSTALLATION. ALL EQUIPMENT TO BE SUPPLIED BY MANATEE COUNTY. INCIDENTAL ITEMS TO BE PROVIDED BY THE CONTRACTOR.	EA	\$1,167.00	2	\$2,334.00
VEHICLE DETECTION SYSTEM - WIRELESS										
73	I/O	INSTALL AND/OR REPLACE	VEHICLE DETECTION SYSTEM - WIRELESS - CABINET EQUIPMENT - (PER INTERSECTION)	660-5-31	REFER TO MANATEE COUNTY DESIGN GUIDE	ALL EQUIPMENT TO BE SUPPLIED BY MANATEE COUNTY, TO INCLUDE SENSORS, CABLE AND CONNECTORS, MOUNTING HARDWARE AND CONTROL EQUIPMENT. INCIDENTAL ITEMS TO BE PROVIDED BY THE CONTRACTOR.	PI	\$745.00	2	\$1,490.00
74	I/O	INSTALL AND/OR REPLACE	VEHICLE DETECTION SYSTEM - WIRELESS - ABOVE GROUND EQUIPMENT (PER SENSOR)	660-5-32		FOR NEW INSTALLATION OR REPLACEMENT OF EXISTING SENSORS OR EQUIPMENT. COST PER SENSOR INSTALLATION. REMOVAL OF EXISTING DEVICE CONSIDERED INCIDENTAL. MANATEE COUNTY WILL PROVIDE ALL MAJOR MATERIALS, EQUIPMENT AND SENSORS. CONTRACTOR TO PROVIDE ANY INCIDENTAL ITEMS SUCH AS MISCELLANEOUS CONNECTORS OR HARDWARE TO COMPLETE THE INSTALLATION.	EA	\$1,167.00	10	\$11,670.00
75	I/O	INSTALL AND/OR REPLACE	VEHICLE DETECTION SYSTEM - WIRELESS - IN ROAD ELECTRONICS (PER SENSOR)	660-5-33		INSTALL PER MANUFACTURER SPECIFICATIONS. UPON REMOVING OR INSTALLING SENSOR THE ROAD SURFACE/PAVEMENT IS TO BE RESTORED TO ORIGINAL GRADE - SENSORS PROVIDED BY COUNTY.	EA	\$474.00	10	\$4,740.00
PEDESTRIAN DETECTOR										
76	I/O	INSTALL	PEDESTRIAN DETECTOR	665-1-30	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL PEDESTRIAN DETECTOR. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION 653. REPLACEMENT OF CABLING CONSIDERED ADDITIONAL. COUNTY SHALL PROVIDE ALL DETECTORS.	EA	\$176.00	20	\$3,520.00
77	I/O	INSTALL/REPLACE	PEDESTRIAN DETECTOR - STANDARD PUSHBUTTON	665-1-90		DIAGNOSE AND REPAIR PEDESTRIAN DETECTOR PUSHBUTTON. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION 653. REPLACEMENT OF CABLING CONSIDERED ADDITIONAL. COUNTY SHALL PROVIDE ALL PUSH BUTTONS.	EA	\$176.00	20	\$3,520.00
78	I/O	INSTALL/REPLACE	PEDESTRIAN DETECTOR - ACCESSIBLE (AUDIBLE) PUSHBUTTON	665-1-90		DIAGNOSE AND REPAIR AUDIBLE PEDESTRIAN DETECTOR PUSHBUTTON. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION 653. REPLACEMENT OF CABLING CONSIDERED ADDITIONAL. COUNTY SHALL PROVIDE ALL PUSH BUTTONS. RETURN DAMAGED AUDIBLE PUSHBUTTONS TO THE COUNTY FOR REPAIR.	EA	\$375.00	5	\$1,875.00
TRAFFIC CONTROLLER ASSEMBLY										
79	I/O	INSTALL	TRAFFIC CONTROLLER ASSEMBLY - CONTROLLER WITH CABINET	670-5-300	17841	EQUIPMENT PROVIDED BY COUNTY. REMOVAL OF EXISTING CONTROLLER CABINET AND EQUIPMENT SHALL BE CONSIDERED INCIDENTAL. REMOVAL AND RE-INSTALLATION OF UPS AND UPS CABINET CONSIDERED AS AN ADDITIONAL ITEM. DOES NOT INCLUDE FOUNDATION.	AS	\$2,144.00	2	\$4,288.00
80	M/E	RELOCATE	TRAFFIC CONTROLLER ASSEMBLY - CONCRETE FOUNDATION	670-5-500	17841	INCLUDES RELOCATING OR REBUILDING EXISTING CONTROLLER CABINET FOUNDATION. INCLUDES REMOVAL AND DISPOSAL OF OLD BASE MATERIAL, REWORK EXISTING CONDUIT, INSTALL NEW CONCRETE FOUNDATION, AND RESTORE WORKSITE TO THE PRE-WORK CONDITION.	EA	\$2,039.00	2	\$4,078.00
81	M/E	REMOVE	TRAFFIC CONTROLLER ASSEMBLY - CONCRETE FOUNDATION - REMOVE	670-5-600	17841	INCLUDES REMOVAL ONLY OF EXISTING CONTROLLER CABINET AND FOUNDATION. INCLUDES DISPOSAL OF OLD BASE MATERIAL, AND RESTORE WORKSITE TO THE PRE-WORK CONDITION.	EA	\$1,149.00	2	\$2,298.00
82	I/O	INSTALL	TRAFFIC CONTROLLER ASSEMBLY - CONCRETE FOUNDATION - INSTALL	670-5-100	17841	FURNISH AND INSTALL CONTROLLER CABINET CONCRETE FOUNDATION. INCLUDES, TECH LANDING PAD AND CONDUIT. COUNT AND SPACING OF CONDUIT MAY VARY PER INSTALLATION. MAY BE USED FOR CONTROLLER CABINET OR EMERGENCY GENERATOR CABINET.	EA	\$1,485.00	2	\$2,970.00
ITS CABINET										
83	I/O	INSTALL	ITS CABINET - CCTV	676-2-300	18108	INSTALL ITS CABINET FOR CCTV. COUNTY TO PROVIDE CABINET. CONTRACTOR SHALL PROVIDE ALL HARDWARE AND MATERIALS TO MOUNT THE CABINET, CONNECT POWER AND COMMUNICATION.	EA	\$2,924.00	2	\$5,848.00
SYSTEM CONTROL EQUIPMENT										
84	I/O	INSTALL	ADAPTIVE SIGNAL CONTROL SYSTEM - INSTALL	680-1-300	N/A	FOR INSTALLATION ONLY OF ADAPTIVE SIGNAL CONTROL SYSTEM. COUNTY TO PROVIDE ALL MATERIALS.	PI	\$2,332.00	1	\$2,332.00
CCTV CAMERA										

LINE ITEM NO.	ACTIVITY F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING		DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE
85	I/O	INSTALL	CCTV CAMERA	682-1-33	REFER TO MANATEE COUNTY DESIGN GUIDE	FOR INSTALLATION OF CAMERA. REMOVAL OF EXISTING CAMERA CONSIDERED INCIDENTAL. RETURN ALL REMOVED DEVICES TO THE COUNTY.	EA	\$1,085.00	2	\$2,170.00
FIBER OPTIC CABLE										
86	I/O	INSTALL	FIBER OPTIC CABLE - INSTALL ONLY - BRIDGE MOUNT	633-1-310	18202-18204	INSTALL FIBER OPTIC CABLE, BRIDGE MOUNT, VARIOUS SIZES. ALL MATERIALS PROVIDED BY MANATEE COUNTY.	LF	\$2.60	1,000	\$2,600.00
87	I/O	INSTALL	FIBER OPTIC CABLE - INSTALL ONLY - UNDERGROUND	633-1-320	18202-18204	INSTALL FIBER OPTIC CABLE, UNDERGROUND, VARIOUS SIZES. ALL PROVIDED BY MANATEE COUNTY.	LF	\$1.90	5,000	\$9,500.00
FIBER OPTIC CONNECTION										
88	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION - SPLICE	633-2-31	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$58.00	288	\$16,704.00
89	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION - TERMINATION	633-2-31		INSTALL FIBER OPTIC CABLE SPLICE, PER TERMINATION, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$69.50	16	\$1,112.00
FIBER OPTIC CONNECTION - HARDWARE										
90	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION- HARDWARE - SPLICE ENCLOSURE	633-3-11	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$1,044.00	1	\$1,044.00
91	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION- HARDWARE - SPLICE TRAY	633-3-12		INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$69.50	1	\$69.50
92	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION- HARDWARE - PRE-TERMINATED CONNECTOR ASSEMBLY	633-3-13		INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$58.00	1	\$58.00
93	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION- HARDWARE - BUFFER TUBE FAN OUT KIT	633-3-14		INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$69.50	1	\$69.50
94	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION- HARDWARE - PATCH PANEL - PRE-TERMINATED	633-3-15		INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$928.00	1	\$928.00
95	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION- HARDWARE - PATCH PANEL - FIELD TERMINATED	633-3-16		INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$812.00	1	\$812.00
96	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION- HARDWARE - CONNECTOR PANEL	633-3-17		INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$116.00	1	\$116.00
UNINTERRUPTABLE POWER SUPPLY										
97	F/I	FURNISH/INSTALL	UNINTERRUPTABLE POWER SUPPLY	685-1-13	REFER TO MANATEE COUNTY DESIGN GUIDE	FURNISH AND INSTALL A COMPLETE UPS ASSEMBLY TO INCLUDE, UPS, CABINET AND BATTERIES. ALL MATERIALS SHALL BE APPROVED BY THE COUNTY BEFORE PURCHASE AND INSTALLATION.	EA	\$8,972.00	2	\$17,944.00
98	I/O	INSTALL/REPAIR	UNINTERRUPTABLE POWER SUPPLY - BATTERY	685-1-231		INSTALL/ REPLACE BATTERY. MAJOR MATERIAL PROVIDED BY THE COUNTY. INCIDENTAL ITEMS TO BE PROVIDED BY THE CONTRACTOR. PAY ITEM INCLUDES REMOVAL AND DISPOSAL OF EXISTING BATTERY THROUGH COUNTY BATTERY SUPPLIER.	EA	\$596.00	20	\$11,920.00
SINGLE POST SIGN										
99	F/I	FURNISH/INSTALL	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	700-1-11	FDOT BOE	THESE ITEMS INCLUDE ALL SIGN PANEL(S), POST(S) AND FOUNDATION FOR A COMPLETE ASSEMBLY. ENSURE THAT SIGN ASSEMBLIES MEET THE WIND LOAD AREA REQUIREMENTS OF THE DESIGN STANDARDS. FOR DETERMINING THE SHEETING AREA FOR PAYMENT, ADD THE AREA OF ALL SIGN MESSAGES ON THE ASSEMBLY (FRONT AND BACK MESSAGES).	AS	\$463.00	1	\$463.00
100	F/I	FURNISH/INSTALL	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	700-1-12			AS	\$1,869.00	1	\$1,869.00
101	F/I	FURNISH/INSTALL	SINGLE POST SIGN, F&I GROUND MOUNT, 21-30 SF	700-1-13			AS	\$2,529.00	1	\$2,529.00
102	F/I	FURNISH/INSTALL	SINGLE POST SIGN, F&I GROUND MOUNT, 31+ SF	700-1-14			AS	\$3,537.00	1	\$3,537.00
103	M/E	REPAIR	SINGLE POST SIGN, F&I GROUND MOUNT REPAIR	700-1-80			FOR REPAIR OF GROUND MOUNT TRAFFIC SIGNS, INCLUDES POLE (U-CHANNEL AND BASE) REPLACEMENT AS NEEDED.	AS	\$463.00	1
INTERNALLY ILLUMINATED SIGN										
104	I/O	INSTALL	INTERNALLY-ILLUMINATED SIGN - INSTALL ONLY	700-5-40	17748	FOR INSTALLATION OF INTERNALLY ILLUMINATED SIGN. INSTALLATION OF POWER CABLE CONSIDERED INCIDENTAL. COUNTY TO PROVIDE ALL SIGNS. CONTRACTOR SHALL PROVIDE ALL MOUNTING HARDWARE, CABLING AND MISCELLANEOUS CONNECTORS HARDWARE TO COMPLETE THE INSTALLATION. ADDITIONAL INFO SECTION A699.	EA	\$1,054.00	1	\$1,054.00
105	M/E	REMOVE	INTERNALLY-ILLUMINATED SIGN - REMOVAL	700-5-60	17748	REMOVAL OF SIGN ASSEMBLY. MAY BE USED FOR UPGRADES OR REPLACEMENTS.	EA	\$156.00	1	\$156.00
106	M/E	MODIFY	INTERNALLY-ILLUMINATED SIGN - LED RETROFIT	M700-5-70	REFER TO MANATEE COUNTY DESIGN GUIDE	REMOVAL OF FLUORESCENT LAMP AND BALLAST AND REPLACE WITH FDOT APPROVED LED RETROFIT KIT. CONTRACTOR TO DISPOSE OF LAMPS, BALLASTS, OR UNUSABLE MATERIALS PROPERLY. CONTRACTOR TO PROVIDE MATERIALS.	EA	\$1,678.00	1	\$1,678.00
107	M/E	REPAIR	INTERNALLY-ILLUMINATED SIGN - REPAIR - LED	M700-5-70		DIAGNOSE AND REPAIR LED SIGN. REPLACE LED DRIVER. CONTRACTOR TO PROVIDE MATERIALS.	EA	\$1,678.00	20	\$33,560.00
108	M/E	REPAIR	INTERNALLY-ILLUMINATED SIGN - REPAIR - FLUORESCENT	M700-5-70		DIAGNOSE AND REPAIR FLUORESCENT SIGN. REPLACE LAMP AND BALLAST. CONTRACTOR TO PROVIDE MATERIALS.	EA	\$1,150.00	5	\$5,750.00
109	M/E	REPAIR	INTERNALLY-ILLUMINATED SIGN - REFACE	M700-5-70		REPLACE EXISTING SIGN FACE. REPLACEMENT SHALL BE EXACT FIT, USE EXISTING DESIGN, AND FDOT AND MUTCD COMPLIANT MATERIALS. CONTRACTOR TO PROVIDE MATERIALS.	EA	\$1,150.00	20	\$23,000.00
110	M/E	REMOVE/INSTALL	INTERNALLY-ILLUMINATED SIGN - RELOCATE SIGN	700-5-50		INCLUDES RELOCATING AND RECONNECTING ALL WIRING AND HARDWARE. CONTRACTOR TO PROVIDE ANY ADDITIONAL MATERIALS NECESSARY TO COMPLETE THE INSTALLATION. SPLICES IN CONDUCTORS MAY BE PERMITTED ONLY AT HAND HOLE ACCESS POINTS. ALL CABLING SHALL BE PROPERLY DRESSED AND TAGGED.	EA	\$1,210.00	1	\$1,210.00
FLASHING BEACONS										
111	I/O	INSTALL	SIGN BEACON - INSTALL ONLY	700-12-41	11862	COUNTY TO PROVIDE MATERIALS. CONTRACTOR TO REMOVE AND DISPOSE OF DEBRIS, RESTORE LANDSCAPE TO THE PRE-WORK GRADE CONSTRUCTION CONDITION AND BE COMPATIBLE WITH SURROUNDING GROUND AREAS.	EA	\$880.00	1	\$880.00
SERVICES										
112	F/O	FURNISH	LABOR	None	N/A	COST PER TECHNICIAN PER HOUR.	HR	\$123.00	1	\$123.00
113	F/O	FURNISH	MATERIAL	None	N/A	FOR ADDITIONAL MATERIALS. MARKUP NOT TO EXCEED 10%.	EA	\$10.00	1	\$10.00

LINE ITEM NO.	ACTIVITY F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING		DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE
114	F/O	FURNISH	MOBILIZATION	101- Maint	FDOT BOE	THIS ITEM IS PAID PER LOCATION FOR SHORT DURATION WORK LASTING LESS THAN 2 DAYS. THIS ITEM IS USED FOR MOBILIZATION AND MOT COSTS ASSOCIATED WITH TROUBLE CALLS AND EMERGENCY RESPONSE. NO ADDITIONAL MOT PAY ITEMS MAY BE USED WITH THIS ITEM.	EA	\$871.00	1	\$871.00
115	F/O	FURNISH	MAINTENANCE OF TRAFFIC (MOT)	102-1- MOT	FDOT BOE	FOR PROJECTS LASTING TWO (2) OR MORE DAYS AT THE SAME PROJECT LOCATION, PROVIDE MAINTENANCE OF TRAFFIC BILLED PER DAY. COSTS FOR TEMPORARY MOT LASTING LESS THAN TWO (2) DAYS TO BE INCLUDED IN MOBILIZATION COSTS (SEE 101-MAINT).	DAY	\$3,483.00	1	\$3,483.00
116	F/O	FURNISH	HEAVY EQUIPMENT	M-1-A	N/A	PROVIDE HOURLY USE OF SPECIALTY HEAVY EQUIPMENT. THIS PAY ITEM IS NOT TO BE USED IN COMBINATION WITH FURNISH AND INSTALL PAY ITEMS ABOVE.	HR	\$384.00	1	\$384.00
117	F/O	FURNISH	PROFESSIONAL/TECHNICAL SERVICES	M-2-A	N/A	PROVIDE HOURLY PROFESSIONAL AND TECHNICAL SERVICES. THIS PAY ITEM IS NOT TO BE USED IN COMBINATION WITH FURNISH AND INSTALL PAY ITEMS ABOVE.	HR	\$406.00	1	\$406.00

EXHIBIT C, AFFIDAVIT OF NO CONFLICT

STATE OF Florida
COUNTY OF Seminole

BEFORE ME, the undersigned authority, this day personally appeared [INSERT NAME] Gregory S. Cockman, as [INSERT TITLE] President of [INSERT CONTRACTOR NAME] Traffic Control Devices, Inc., (hereinafter "CONTRACTOR") with full authority to bind CONTRACTOR, who being first duly sworn, deposes and says that CONTRACTOR:

- (a) Is not currently engaged and will not become engaged in any obligations, undertakings or contracts that will require CONTRACTOR to maintain an adversarial role against the County or that will impair or influence the advice, recommendations or quality of work provided to the County; and
- (b) Has provided full disclosure of all potentially conflicting contractual relationships and full disclosure of contractual relationships deemed to raise a question of conflict(s); and
- (c) Has provided full disclosure of prior work history and qualifications that may be deemed to raise a possible question of conflict(s).

Affiant makes this Affidavit for the purpose of inducing Manatee County, a political subdivision of the State of Florida, to enter into this Agreement No. 21-R076431BB for Traffic Signal and ITS Maintenance

DATED this 14th day of May, 2021.

[Signature]
CONTRACTOR Signature

The foregoing instrument was sworn to and acknowledged before me this 14th day of May, 2021, by [NAME] Gregory S. Cockman, as [TITLE] President of [CONTRACTOR] Traffic Control Devices, Inc. He / She is personally known to me or has produced n/a [TYPE OF IDENTIFICATION] as identification.

[Signature]
Notary Signature

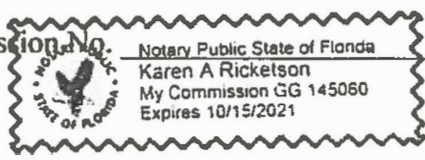
Commission No. 

EXHIBIT D, INSURANCE REQUIREMENTS

The CONTRACTOR will not commence work under the resulting Agreement until all insurance coverages indicated by an “X” herein have been obtained. The CONTRACTOR shall obtain and submit to the Procurement Division within ten (10) calendar days from the date of notice of intent to award, at its expense, the following minimum amounts of insurance (inclusive of any amounts provided by an umbrella or excess policy): Work under this Agreement cannot commence until all insurance coverages indicated herein have been obtained on a standard ACORD form (inclusive of any amounts provided by an umbrella or excess policy):

Automobile Liability Insurance Required Limits

Coverage must be afforded under a per occurrence policy form including coverage for all owned, hired and non-owned vehicles for bodily injury and property damage of not less than:

- \$1,000,000 Combined Single Limit; OR
- \$ 500,000 Bodily Injury and \$500,000 Property Damage
- \$10,000 Personal Injury Protection (No Fault)
- \$500,000 Hired, Non-Owned Liability
- \$10,000 Medical Payments

This policy shall contain severability of interests’ provisions.

Commercial General Liability Insurance Required Limits (per Occurrence form only; claims-made form is not acceptable)

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name ‘Manatee County, a political subdivision of the State of Florida’ as an Additional Insured, and include limits not less than:

- \$1,000,000 Single Limit Per Occurrence
- \$2,000,000 Aggregate
- \$1,000,000 Products/Completed Operations Aggregate
- \$1,000,000 Personal and Advertising Injury Liability
- \$50,000 Fire Damage Liability
- \$10,000 Medical Expense, and
- \$1,000,000, Third Party Property Damage
- \$ Project Specific Aggregate (Required on projects valued at over \$10,000,000)

This policy shall contain severability of interests’ provisions.

Employer’s Liability Insurance

Coverage limits of not less than:

- \$100,000 Each Accident
- \$500,000 Disease Each Employee
- \$500,000 Disease Policy Limit

Worker's Compensation Insurance

US Longshoremen & Harbor Workers Act

Jones Act Coverage

Coverage limits of not less than:

- Statutory workers' compensation coverage shall apply for all employees in compliance with the laws and statutes of the State of Florida and the federal government
- If any operations are to be undertaken on or about navigable waters, coverage must be included for the US Longshoremen & Harbor Workers Act and Jones Act

Should 'leased employees' be retained for any part of the project or service, the employee leasing agency shall provide evidence of Workers' Compensation coverage and Employer's Liability coverage for all personnel on the worksite and in compliance with the above Workers' Compensation requirements. NOTE: Workers' Compensation coverage is a firm requirement. Elective exemptions are considered on a case-by-case basis and are approved in a very limited number of instances.

Aircraft Liability Insurance Required Limits

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name 'Manatee County a political subdivision of the State of Florida' as an Additional Insured, and include limits not less than:

- \$ Each Occurrence Property and Bodily Injury with no less than \$100,000 per passenger each occurrence or a 'smooth' limit
- \$ General Aggregate

Un-Manned Aircraft Liability Insurance (Drone)

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name 'Manatee County a political subdivision of the State of Florida' as an Additional Insured, and include limits not less than:

- \$ Each Occurrence Property and Bodily Injury; Coverage shall specifically include operation of Unmanned Aircraft Systems (UAS), including liability and property damage
- \$ General Aggregate

Installation Floater Insurance

When the contract or agreement **does not** include construction of, or additions to, above ground building or structures, but does involve the installation of machinery or equipment, Installation Floater Insurance shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured, and include limits not less than:

- 100% of the completed value of such addition(s), building(s), or structure(s)

Professional Liability and/or Errors and Omissions (E&O) Liability Insurances

Coverage shall be afforded under either an occurrence policy form or a claims-made policy form. If the coverage form is on a claims-made basis, then coverage must be maintained for a minimum of three years from termination of date of the contract. Limits must not be less than:

- \$ 1,000,000 Bodily Injury and Property Damage Each Occurrence
- \$ 2,000,000 General Aggregate

Builder's Risk Insurance

When the contract or agreement includes the construction of roadways and/or the addition of a permanent structure or building, including the installation of machinery and/or equipment, Builder's Risk Insurance shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured, and include limits not less than:

- An amount equal to 100% of the completed value of the project, or the value of the equipment to be installed
- The policy shall not carry a self-insured retention/deductible greater than \$10,000

Coverage shall be for all risks and include, but not be limited to, storage and transport of materials, equipment, supplies of any kind whatsoever to be used on or incidental to the project, theft coverage, and Waiver of Occupancy Clause Endorsement, where applicable.

Cyber Liability Insurance

Coverage shall comply with Florida Statute 501.171, shall be afforded under a per occurrence policy form, policy shall be endorsed and name 'Manatee County, a political subdivision of the State of Florida' as an Additional Insured, and include limits not less than:

- \$ Security Breach Liability
- \$ Security Breach Expense Each Occurrence
- \$ Security Breach Expense Aggregate
- \$ Replacement or Restoration of Electronic Data
- \$ Extortion Threats
- \$ Business Income and Extra Expense
- \$ Public Relations Expense

NOTE: Policy must not carry a self-insured retention/deductible greater than \$25,000.

Hazardous Materials Insurance (As Noted Below)

Hazardous materials include all materials and substances that are currently designated or defined as hazardous by the law or rules of regulation by the State of Florida or federal government.

All coverage shall be afforded under either an occurrence policy form or a claims-made policy form, and the policy shall be endorsed and name 'Manatee County, a political subdivision of the State of Florida' as an Additional Insured. If the coverage form is on a claims-made basis, then coverage must be maintained for a minimum of three years from termination of date of the contract. Limits must not be less than:

Pollution Liability

Amount equal to the value of the contract, subject to a \$1,000,000 minimum, for Bodily Injury and Property Damage to include sudden and gradual release, each claim and aggregate.

Asbestos Liability (If handling within scope of Contract)

Amount equal to the value of the contract, subject to a \$1,000,000 minimum, for Bodily Injury and Property Damage to include sudden and gradual release, each claim and aggregate.

Disposal

When applicable, CONTRACTOR shall designate the disposal site and furnish a Certificate of Insurance from the disposal facility for Environmental Impairment Liability Insurance covering liability.

- Amount equal to the value of the contract, subject to a \$1,000,000 minimum, for Liability for Sudden and Accidental Occurrences, each claim and an aggregate
- Amount equal to the value of the contract, subject to a \$1,000,000 minimum, for Liability for Non-Sudden and Accidental Occurrences, each claim and an aggregate

Hazardous Waste Transportation Insurance

CONTRACTOR shall designate the hauler and have the hauler furnish a Certificate of Insurance for Automobile Liability insurance with Endorsement MCS-90 for liability arising out of the transportation of hazardous materials. EPA identification number shall be provided.

All coverage shall be afforded under either an occurrence policy form or a claims-made policy form and the policy shall be endorsed and name “Manatee County, a political subdivision of the State of Florida” as an Additional Insured. If the coverage form is on a claims-made basis, then coverage must be maintained for a minimum of three years from termination of date of the contract. Limits must not be less than:

- Amount equal to the value of the contract, subject to a \$1,000,000 minimum, per accident

Liquor Liability Insurance

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name “Manatee County, a political subdivision of the State of Florida” as an Additional Insured, and include limits not less than:

- \$1,000,000 Each Occurrence and Aggregate

Garage Keeper’s Liability Insurance

Coverage shall be required if the maintenance, servicing, cleaning or repairing of any County motor vehicles is inherent or implied within the provision of the contract.

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name “Manatee County, a political subdivision of the State of Florida” as an Additional Insured,

and include limits not less than:

- Property and asset coverage in the full replacement value of the lot or garage

Bailee’s Customer Liability Insurance

Coverage shall be required for damage and/or destruction when County property is temporarily under the care or custody of a person or organization, including property that is on, or in transit to and from the person or organization’s premises. Perils covered should include fire, lightning, theft, burglary, robbery, explosion, collision, flood, earthquake and damage or destruction during transportation by a carrier.

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name “Manatee County, a political subdivision of the State of Florida” as an Additional Insured, and include limits not less than:

- Property and asset coverage in the full replacement value of the County asset(s) in the CONTRACTOR’S care, custody and control

Hull and Watercraft Liability Insurance

Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name “Manatee County, a political subdivision of the State of Florida” as an Additional Insured, and include limits not less than:

- \$ Each Occurrence
- \$ General Aggregate
- \$ Fire Damage Liability
- \$10,000 Medical Expense, and
- \$ Third Party Property Damage
- \$ Project Specific Aggregate (Required on projects valued at over \$10,000,000)

INSURANCE REQUIREMENTS

THE POLICIES ARE TO CONTAIN, OR BE ENDORSED TO CONTAIN, THE FOLLOWING PROVISIONS:

Commercial General Liability and Automobile Liability Coverages

A. “**Manatee County, a Political Subdivision of the State of Florida,**” is to be named as an **Additional Insured in respect to:** Liability arising out of activities performed by or on behalf of the CONTRACTOR, his agents, representatives, and employees; products and completed operations of the CONTRACTOR; or automobiles owned, leased, hired or borrowed by the CONTRACTOR. The coverage shall contain no special limitation(s) on the scope of protection afforded to the COUNTY, its officials, employees or volunteers.

In addition to furnishing a Certificate of Insurance, the CONTRACTOR shall provide the endorsement that evidences Manatee COUNTY being listed as an Additional Insured. This can be done in one of two ways: (1) an endorsement can be issued that specifically lists

“Manatee County, a Political Subdivision of the State of Florida,” as Additional Insured; or, (2) an endorsement can be issued that states that all Certificate Holders are Additional Insured with respect to the policy.

- B. The CONTRACTOR'S insurance coverage shall be primary insurance with respect to the COUNTY, its officials, employees and volunteers. Any insurance or self-insurance maintained by the COUNTY, its officials, employees or volunteers shall be excess of CONTRACTOR'S insurance and shall be non-contributory.
- C. The insurance policies must be on an occurrence form.

Workers' Compensation and Employers' Liability Coverages

The insurer shall agree to waive all rights of subrogation against the COUNTY, its officials, employees and volunteers for losses arising from work performed by the CONTRACTOR for the COUNTY.

General Insurance Provisions Applicable To All Policies:

- A. Prior to the execution of contract, or issuance of a Purchase Order, and then annually upon the anniversary date(s) of the insurance policy's renewal date(s) for as long as this contract remains in effect, CONTRACTOR shall furnish the COUNTY with a Certificate(s) of Insurance (using an industry accepted certificate form, signed by the Issuer, with applicable endorsements, and containing the solicitation or contract number, and title or description) evidencing the coverage set forth above and naming “Manatee County, a Political Subdivision of the State of Florida” as an Additional Insured on the applicable coverage(s) set forth above.
- B. If the policy contains an aggregate limit, confirmation is needed in writing (letter, email, etc.) that the aggregate limit has not been eroded to procurement representative when supplying Certificate of Insurance.
- C. In addition, when requested in writing from the COUNTY, CONTRACTOR will provide the COUNTY with a certified copy of all applicable policies. The address where such certificates and certified policies shall be sent or delivered is as follows:

**Manatee County, a Political Subdivision of the State of Florida
Attn: Risk Management Division
1112 Manatee Avenue West, Suite 969
Bradenton, FL 34205**

The project's solicitation number and title shall be listed on each certificate.

- D. CONTRACTOR shall provide thirty (30) days written notice to the Risk Manager of any cancellation, non-renewal, termination, material change, or reduction in coverage of any insurance policies to procurement representative including solicitation number and title with all notices.

- E. CONTRACTOR agrees that should at any time CONTRACTOR fail to meet or maintain the required insurance coverage(s) as set forth herein, the COUNTY may terminate this contract.
- F. The CONTRACTOR waives all subrogation rights against COUNTY, a Political Subdivision of the State of Florida, for all losses or damages which occur during the contract and for any events occurring during the contract period, whether the suit is brought during the contract period or not.
- G. The CONTRACTOR has sole responsibility for all insurance premiums and policy deductibles.
- H. It is the CONTRACTOR'S responsibility to ensure that his agents, representatives and subcontractors comply with the insurance requirements set forth herein. CONTRACTOR shall include his agents, representatives, and subcontractors working on the project or at the worksite as insured under its policies, or CONTRACTOR shall furnish separate certificates and endorsements for each agent, representative, and subcontractor working on the project or at the worksite. All coverages for agents, representatives, and subcontractors shall be subject to all of the requirements set forth to the procurement representative.
- I. All required insurance policies must be written with a carrier having a minimum A.M. Best rating of A- FSC VII or better. In addition, the COUNTY has the right to review the CONTRACTOR'S deductible or self-insured retention and to require that it be reduced or eliminated.
- J. CONTRACTOR understands and agrees that the stipulated limits of coverage listed herein in this insurance section shall not be construed as a limitation of any potential liability to the COUNTY, or to others, and the COUNTY'S failure to request evidence of this insurance coverage shall not be construed as a waiver of CONTRACTOR'S obligation to provide and maintain the insurance coverage specified.
- K. CONTRACTOR understands and agrees that the COUNTY does not waive its immunity and nothing herein shall be interpreted as a waiver of the COUNTY'S rights, including the limitation of waiver of immunity, as set forth in Florida Statutes 768.28, or any other statutes, and the COUNTY expressly reserves these rights to the full extent allowed by law.
- L. No award shall be made until the Procurement Division has received the Certificate of Insurance in accordance with this section.

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EXHIBIT D, CONTRACTOR'S INSURANCE STATEMENT

THE UNDERSIGNED has read and understands the aforementioned insurance requirements of this Agreement and shall provide the insurance required by this section within ten (10) days from the date of notice of intent to award.

Date: MAY 14, 2021

Contractor's Name: Traffic Control Devices, INC.

Authorized Signature: 

Printed Name/Title: Gregory S. Cockman

Insurance Agency: Stahl Morse & Associates Insurance

Agent Name: Robert Bowles

Agent Phone: (407) 869-2400

Please return this completed and signed statement with your agreement.

BID TABULATION
IFB NO. 21-R076431BB
TRAFFIC SIGNAL AND INTELLIGENT TRANSPORTATION SYSTEMS MAINTENANCE

							B&E SIGNAL AND LIGHTING, INC.			SIEMENS MOBILITY, INC.			TRAFFIC CONTROL DEVICES, INC.			
LINE ITEM NO.	ACTIVITY F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING	DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	
CONDUIT																
1	F/I	FURNISH/INSTALL	CONDUIT BY TRENCHING	630-2-11	17721	2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT.	LF	\$4.00	500	\$2,000.00	\$6.90	500	\$3,450.00	\$9.65	500	\$4,825.00
2	F/I	FURNISH/INSTALL	CONDUIT BY TRENCHING	630-2-11		2" CONDUIT - 2-3 RUNS SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT - MEASUREMENT BASED ON LENGTH OF TRENCH.	LF	\$5.00	500	\$2,500.00	\$7.08	500	\$3,540.00	\$17.50	500	\$8,750.00
3	F/I	FURNISH/INSTALL	CONDUIT BY HAND DIGGING	630-2-11		2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT.	LF	\$5.00	500	\$2,500.00	\$10.30	500	\$5,150.00	\$15.50	500	\$7,750.00
4	F/I	FURNISH/INSTALL	CONDUIT BY HAND DIGGING	630-2-11		2" CONDUIT - 2-3 RUNS SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT - MEASUREMENT BASED ON LENGTH OF TRENCH.	LF	\$8.00	500	\$4,000.00	\$10.48	500	\$5,240.00	\$25.00	500	\$12,500.00
5	F/I	FURNISH/INSTALL	CONDUIT BY DIRECTIONAL BORING - FOR FIBER OPTIC CABLE	630-2-12	18202 AND 18204	1 1/4" HDPE CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT.	LF	\$12.00	1,000	\$12,000.00	\$18.48	1,000	\$18,480.00	\$19.50	1,000	\$19,500.00
6	F/I	FURNISH/INSTALL	CONDUIT BY DIRECTIONAL BORING	630-2-12	17721	2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT.	LF	\$13.00	1,000	\$13,000.00	\$19.15	1,000	\$19,150.00	\$20.50	1,000	\$20,500.00
7	F/I	FURNISH/INSTALL	CONDUIT BY DIRECTIONAL BORING	630-2-12		2" CONDUIT - 2-3 RUNS SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT - MEASUREMENT BASED ON LENGTH OF BORE.	LF	\$17.00	1,000	\$17,000.00	\$20.05	1,000	\$20,050.00	\$35.50	1,000	\$35,500.00
8	F/I	FURNISH/INSTALL	CONDUIT - JACK AND BORE	630-2-13		2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT.	LF	\$8.00	100	\$800.00	\$45.00	100	\$4,500.00	\$44.00	100	\$4,400.00
9	F/I	FURNISH/INSTALL	CONDUIT - ABOVEGROUND OR STRUCTURE MOUNTED	630-2-14		2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT - REMOVAL OF EXISTING CONDUIT AND CABLE CONSIDERED INCIDENTAL.	LF	\$5.00	100	\$500.00	\$21.02	100	\$2,102.00	\$24.50	100	\$2,450.00
10	F/I	FURNISH/INSTALL	CONDUIT - ABOVEGROUND	630-2-14		1-2" RIGID CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT - REMOVAL OF EXISTING CONDUIT AND CABLE CONSIDERED INCIDENTAL.	LF	\$8.00	100	\$800.00	\$21.02	100	\$2,102.00	\$24.50	100	\$2,450.00
11	F/I	FURNISH/INSTALL	CONDUIT - BRIDGE MOUNT	630-2-15		2" CONDUIT - 1 RUN SEE FDOT STANDARD SPECIFICATION - SECTION 630 CONDUIT - REMOVAL OF EXISTING CONDUIT AND CABLE CONSIDERED INCIDENTAL.	LF	\$9.00	100	\$900.00	\$20.88	100	\$2,088.00	\$62.50	100	\$6,250.00
SIGNAL CABLE																
12	F/I	FURNISH/INSTALL	SIGNAL CABLE - INSTALL NEW OR REPLACE EXISTING	632-7-1	NEC & NESC MANATEE COUNTY DESIGN GUIDE	FURNISH AND INSTALL TRAFFIC SIGNAL CABLING FROM CONTROLLER CABINET TO ALL TRAFFIC SIGNAL INDICATIONS, ILLUMINATED SIGNS, AND BLANK OUT SIGNS. SEPARATE PAY ITEMS SHALL APPLY TO DETECTION HOME RUNS. REMOVAL OF EXISTING CABLE SHALL BE CONSIDERED INCIDENTAL, ANY CABLE REMOVED SHALL BE RETURNED TO MANATEE COUNTY TRAFFIC OPERATIONS.	PI	\$10,275.00	3	\$30,825.00	\$6,112.54	3	\$18,337.62	\$8,666.00	3	\$25,998.00
13	F/I	FURNISH/INSTALL	SIGNAL CABLE - REPAIR, REPLACE, OTHER	632-7-2		REPAIR OR REPLACE TRAFFIC SIGNAL CABLING. INCLUDES 'BELDEN' 50-2 TYPE INDUCTIVE LOOP ASSEMBLY LEAD IN CABLE. REMOVAL OF EXISTING CABLE SHALL BE CONSIDERED INCIDENTAL, ANY CABLE REMOVED SHALL BE RETURNED TO MANATEE COUNTY TRAFFIC OPERATIONS.	LF	\$3.75	300	\$1,125.00	\$5.24	300	\$1,572.00	\$6.55	300	\$1,965.00
SPAN WIRE ASSEMBLIES																
14	F/I	FURNISH/INSTALL	SPAN WIRE ASSEMBLY - PERPENDICULAR	634-4-151	17727	PERPENDICULAR - 2 POINT ATTACHMENT SECTION 634 OF FDOT STANDARD SPECIFICATIONS & MSTCSD SECTION A634.	PI	\$2,750.00	1	\$2,750.00	\$2,610.17	1	\$2,610.17	\$4,696.00	1	\$4,696.00
15	F/I	FURNISH/INSTALL	SPAN WIRE ASSEMBLY - DIAGONAL	634-4-152		DIAGONAL - 2 POINT ATTACHMENT SECTION 634 OF FDOT STANDARD SPECIFICATIONS & MSTCSD SECTION A634.	PI	\$1,750.00	1	\$1,750.00	\$2,872.14	1	\$2,872.14	\$3,390.00	1	\$3,390.00
16	F/I	FURNISH/INSTALL	SPAN WIRE ASSEMBLY - BOX	634-4-153		BOX SPAN - 2 POINT ATTACHMENT SECTION 634 OF FDOT STANDARD SPECIFICATIONS & MSTCSD SECTION A634.	PI	\$3,275.00	1	\$3,275.00	\$5,789.83	1	\$5,789.83	\$8,140.00	1	\$8,140.00
17	M/E	REMOVE	SPAN WIRE ASSEMBLY - REMOVE	634-4-600		SECTION 634 OF FDOT STANDARD SPECIFICATIONS & MSTCSD SECTION A635. INCLUDES ADJUSTMENT AND/OR REPLACEMENT OF HARDWARE AS NEEDED. ADJUSTING AND RE-SECURING SIGNAL CABLE END TO END.	PI	\$1,500.00	1	\$1,500.00	\$340.23	1	\$340.23	\$933.00	1	\$933.00
18	M/E	REPAIR	SPAN WIRE - RE-TENTION	634-4-700		SECTION 634 OF FDOT STANDARD SPECIFICATIONS & MSTCSD SECTION A635. INCLUDES ADJUSTMENT AND/OR REPLACEMENT OF HARDWARE AS NEEDED. ADJUSTING AND RE-SECURING SIGNAL CABLE END TO END.	EA	\$1,275.00	3	\$3,825.00	\$170.12	3	\$510.36	\$1,235.00	3	\$3,705.00
PULL AND SPLICE BOX																
19	F/I	FURNISH/INSTALL	PULL BOX AND LID - QUAZITE - 17" X 30" (LARGE SIZE)	635-2-12		REMOVAL OF EXISTING CONCRETE SIDEWALK OR LANDING PAD AND BOX SHALL BE CONSIDERED INCIDENTAL, CONTRACTOR TO DISPOSE OF ANY DAMAGED BOXES PROPERLY. ANY DISTURBED DIRT SHALL BE RETURNED TO THE PRE-WORK GRADE CONSTRUCTION CONDITION AND BE COMPATIBLE WITH SURROUNDING GROUND AREAS.	EA	\$525.00	5	\$2,625.00	\$1,068.69	5	\$5,343.45	\$1,180.00	5	\$5,900.00

BID TABULATION
 IFB NO. 21-R076431BB
 TRAFFIC SIGNAL AND INTELLIGENT TRANSPORTATION SYSTEMS MAINTENANCE

LINE ITEM NO.	ACTIVITY		DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	B&E SIGNAL AND LIGHTING, INC.			SIEMENS MOBILITY, INC.			TRAFFIC CONTROL DEVICES, INC.		
	F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING							UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE
20	F/I	FURNISH/INSTALL	PULL BOX AND LID - QUAZITE - 30" X 60"	635-2-13	17721	REMOVAL OF EXISTING CONCRETE SIDEWALK OR LANDING PAD AND BOX SHALL BE CONSIDERED INCIDENTAL. CONTRACTOR TO DISPOSE OF ANY DAMAGED BOXES PROPERLY. ANY DISTURBED DIRT SHALL BE RETURNED TO THE PRE-WORK GRADE CONSTRUCTION CONDITION AND BE COMPATIBLE WITH SURROUNDING GROUND AREAS.	EA	\$1,875.00	2	\$3,750.00	\$2,041.74	2	\$4,083.48	\$3,262.00	2	\$6,524.00
21	I/O	INSTALL	PULL BOX AND LID - QUAZITE - 17" X 30"	635-2-30		REMOVAL OF EXISTING CONCRETE SIDEWALK OR LANDING PAD AND BOX SHALL BE CONSIDERED INCIDENTAL. CONTRACTOR TO DISPOSE OF ANY DAMAGED BOXES PROPERLY. ANY DISTURBED DIRT SHALL BE RETURNED TO THE PRE-WORK GRADE CONSTRUCTION CONDITION AND BE COMPATIBLE WITH SURROUNDING GROUND AREAS. COUNTY PROVIDED MATERIALS.	EA	\$375.00	5	\$1,875.00	\$510.35	5	\$2,551.75	\$786.00	5	\$3,930.00
22	M/E	REMOVE/INSTALL	PULL BOX AND LID - RELOCATE	635-2-40		ADJUST OR RELOCATE. REMOVAL OF EXISTING CONCRETE SIDEWALK OR LANDING PAD AND BOX SHALL BE CONSIDERED INCIDENTAL. ANY DISTURBED CONCRETE OR DIRT SHALL BE RETURNED TO THE PRE-WORK GRADE CONSTRUCTION CONDITION AND BE COMPATIBLE WITH THE SURROUNDING AREAS.	EA	\$575.00	5	\$2,875.00	\$340.23	5	\$1,701.15	\$1,061.00	5	\$5,305.00
POWER SERVICE																
23	F/I	FURNISH/INSTALL	ELECTRIC POWER SERVICE ASSEMBLY - OVERHEAD	639-1-112		FOR INSTALLATION OF A COMPLETE POWER SERVICE ASSEMBLY TO INCLUDE POLE, METER CAN HOUSING, DISCONNECT, CONDUIT, WIRING AND ALL HARDWARE. POWER SERVICE SHALL BE INSTALLED PER FDOT AND MANATEE COUNTY DESIGN STANDARDS. POWER SERVICE SHALL INCLUDE VERTICAL CONDUIT AND WIRE ANY HORIZONTAL CONDUIT AND WIRE SHALL BE UNDER A SEPARATE LINE ITEM. ADDITIONAL INFO SECTION A639 MSTCSD.	EA	\$2,550.00	2	\$5,100.00	\$1,869.95	2	\$3,739.90	\$2,939.00	2	\$5,878.00
24	F/I	FURNISH/INSTALL	ELECTRIC POWER SERVICE ASSEMBLY - UNDERGROUND	639-1-122	17736 & FDOT BOE SECTION 620	FOR INSTALLATION OF A COMPLETE POWER SERVICE ASSEMBLY TO INCLUDE POLE, METER CAN HOUSING, DISCONNECT, CONDUIT, WIRING AND ALL HARDWARE. POWER SERVICE SHALL BE INSTALLED PER FDOT AND MANATEE COUNTY DESIGN STANDARDS. HORIZONTAL CONDUIT AND WIRE SHALL BE UNDER A SEPARATE LINE ITEM. ADDITIONAL INFO SECTION A639 MSTCSD.	EA	\$1,275.00	2	\$2,550.00	\$2,315.35	2	\$4,630.70	\$2,438.00	2	\$4,876.00
25	M/E	REMOVE	ELECTRIC POWER SERVICE ASSEMBLY - REMOVE	639-1-600		FOR REMOVAL OF POWER SERVICE ASSEMBLY TO INCLUDE POLE, METER CAN HOUSING, DISCONNECT, CONDUIT, WIRING AND ALL HARDWARE. ADDITIONAL INFO SECTION A639 MSTCSD - FOR EMERGENCY REPAIR OR SPECIAL PROJECT REBUILDS. MAY BE USED FOR EMERGENCY REPAIRS OF DAMAGED SERVICE ASSEMBLIES.	EA	\$750.00	2	\$1,500.00	\$713.22	2	\$1,426.44	\$559.00	2	\$1,118.00
26	M/E	REMOVE/INSTALL	ELECTRICAL POWER SERVICE - UTILITY SERVICE RISER - RELOCATE	639-1-410	17504	FOR RELOCATION OF EXISTING ELECTRICAL POWER SERVICE CONDUIT RISER AND SERVICE CONDUCTORS. DISCONNECT AND REMOVE EXISTING SERVICE RISER ASSEMBLY FROM OLD UTILITY COMPANY POWER POLE AND REINSTALL ON NEW UTILITY COMPANY INSTALLED POLE. INCLUDES UNDERGROUND OR OVERHEAD CONDUIT AND CABLE ADJUSTMENT. MINOR HARDWARE - NUTS BOLTS BRACKETS TO BE SUPPLIED BY CONTRACTOR.	EA	\$690.00	5	\$3,450.00	\$1,360.93	5	\$6,804.65	\$1,005.00	5	\$5,025.00
27	F/I	FURNISH/INSTALL	ELECTRICAL POWER SERVICE - UTILITY SERVICE RISER - RELOCATE	639-1-420		FOR RELOCATION OF EXISTING ELECTRICAL POWER SERVICE CONDUIT RISER AND SERVICE CONDUCTORS. DISCONNECT AND REMOVE EXISTING SERVICE RISER ASSEMBLY FROM OLD UTILITY COMPANY POWER POLE AND REINSTALL ON NEW UTILITY COMPANY INSTALLED POLE. INCLUDES UNDERGROUND OR OVERHEAD CONDUIT AND CABLE ADJUSTMENT. MINOR HARDWARE - NUTS BOLTS BRACKETS TO BE SUPPLIED BY CONTRACTOR.	EA	\$895.00	5	\$4,475.00	\$2,652.74	5	\$13,263.70	\$593.00	5	\$2,965.00
28	M/E	MODIFY EXISTING	ELECTRICAL SERVICE WIRE - RELOCATE	639-2-4	NEC & NESC	RELOCATE EXISTING ELECTRICAL SERVICE CONDUCTORS. REMOVAL SHALL BE CONSIDERED INCIDENTAL. ANY UNUSED CONDUCTOR REMOVED SHALL BE RETURNED TO MANATEE COUNTY TRAFFIC OPERATIONS. ADDITIONAL INFO ON WIRE SECTION A639 MSTCSD.	LF	\$1.00	500	\$500.00	\$1.34	500	\$670.00	\$2.10	500	\$1,050.00
29	F/I	FURNISH/INSTALL	ELECTRICAL SERVICE WIRE - FURNISH AND INSTALL	639-2-1		NO. 6 AWG STRANDED COPPER - REMOVAL OF EXISTING CONDUCTOR SHALL BE CONSIDERED INCIDENTAL. ANY CONDUCTOR REMOVED SHALL BE RETURNED TO MANATEE COUNTY TRAFFIC OPERATIONS. ADDITIONAL INFO ON WIRE SECTION A639 MSTCSD.	LF	\$1.85	5000	\$9,250.00	\$5.62	5000	\$28,100.00	\$3.60	5000	\$18,000.00
EMERGENCY PORTABLE GENERATOR HOUSING																
30	I/O	INSTALL	EMERGENCY GENERATOR - HOUSING ONLY	639-4-6	MANATEE COUNTY DESIGN GUIDE	EQUIPMENT PROVIDED BY COUNTY. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED.	EA	\$2,675.00	2	\$5,350.00	\$510.35	2	\$1,020.70	\$813.00	2	\$1,626.00
PRESTRESSED CONCRETE POLE																
31	F/I	FURNISH/INSTALL	PRESTRESSED CONCRETE POLE	641-2-12		(TYPE P-II SERVICE POLE) MAY BE USED FOR TRAFFIC MONITORING ASSEMBLIES.	EA	\$1,275.00	1	\$1,275.00	\$1,387.47	1	\$1,387.47	\$1,403.00	1	\$1,403.00
32	M/E	REMOVE	PRESTRESSED CONCRETE POLE	641-2-70	17764	SHALLOW REMOVAL - POLES 30' AND GREATER.	EA	\$4,750.00	1	\$4,750.00	\$2,764.32	1	\$2,764.32	\$2,352.00	1	\$2,352.00
33	M/E	REMOVE	PRESTRESSED CONCRETE POLE	641-2-80		COMPLETE/DEEP REMOVAL - POLES 30' AND GREATER.	EA	\$10,750.00	1	\$10,750.00	\$4,271.19	1	\$4,271.19	\$3,288.00	1	\$3,288.00
34	I/O	INSTALL	PRESTRESSED CONCRETE POLE	641-2-30		(VARIOUS SIZES) INSTALL ONLY.	EA	\$7,550.00	1	\$7,550.00	\$3,037.29	1	\$3,037.29	\$14,408.00	1	\$14,408.00

BID TABULATION
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 TRAFFIC SIGNAL AND INTELLIGENT TRANSPORTATION SYSTEMS MAINTENANCE

LINE ITEM NO.	ACTIVITY F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING	DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	B&E SIGNAL AND LIGHTING, INC.			SIEMENS MOBILITY, INC.			TRAFFIC CONTROL DEVICES, INC.			
							UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	
STRAIN POLE - WOOD																
35	F/I	FURNISH/INSTALL	STRAIN POLE - WOOD POLE NOMINAL SIZE 40"	643-140	17727	DIRECT BURY METHOD - GUYING CONSIDERED INCIDENTAL.	EA	\$1,675.00	2	\$3,350.00	\$2,428.88	2	\$4,857.76	\$3,310.00	2	\$6,620.00
36	F/I	FURNISH/INSTALL	STRAIN POLE - WOOD POLE NOMINAL SIZE 50"	643-150		DIRECT BURY METHOD - GUYING CONSIDERED INCIDENTAL.	EA	\$1,965.00	2	\$3,930.00	\$3,060.07	2	\$6,120.14	\$3,669.00	2	\$7,338.00
37	M/E	REMOVE	STRAIN POLE WOOD - REMOVE	643-600		REMOVE OF WOOD STRAIN POLE.	EA	\$675.00	2	\$1,350.00	\$1,708.48	2	\$3,416.96	\$890.00	2	\$1,780.00
ALUMINUM SIGNAL POLE																
38	F/I	FURNISH/INSTALL	ALUMINUM SIGNAL POLE - PEDESTAL	646-1-11	17764/17784	ALUMINUM SIGNAL POLE - PEDESTAL - FURNISH AND INSTALL POLE TO INCLUDE TRANSFORMER BASE AND HARDWARE, CONCRETE FOUNDATION, CONDUIT, GROUND ROD, AND LOCKING COLLAR. FOR REPLACEMENT OF A COMPLETE PEDESTRIAN SIGNAL ASSEMBLY.	AS	\$1,278.00	10	\$12,780.00	\$1,186.44	10	\$11,864.40	\$1,759.00	10	\$17,590.00
39	F/I	FURNISH/INSTALL	ALUMINUM SIGNAL POLE - PEDESTRIAN DETECTOR POST	646-1-12		ALUMINUM SIGNAL POLE - PEDESTRIAN DETECTOR POST-FURNISH AND INSTALL POST TO INCLUDE CONCRETE FOUNDATION, CONDUIT, GROUND ROD.	AS	\$875.00	10	\$8,750.00	\$879.53	10	\$8,795.30	\$1,655.00	10	\$16,550.00
STEEL MAST ARM ASSEMBLY																
40	M/E	REMOVE	STEEL MAST ARM ASSEMBLY - REMOVE	649-36-100	17743	FOR STEEL STRAIN POLES AND MAST ARM ASSEMBLIES UP TO CLASS VIII +/- 50'. REMOVE AND TRANSPORT WITHIN COUNTY. CONTRACTOR TO PROVIDE APPROPRIATELY SIZED CRANE AND TRUCK. RETURN ALL EQUIPMENT REMOVED TO MANATEE COUNTY TRAFFIC OPERATIONS. MAY BE USED TO SUPPORT RAPID RESPONSE FOR EMERGENCY REMOVALS DUE TO INCIDENTS, ACCIDENTS, ETC.	EA	\$6,750.00	1	\$6,750.00	\$996.61	1	\$996.61	\$1,465.00	1	\$1,465.00
41	M/E	REPAIR	MAST ARM REPAIR - MAINTENANCE - GROUT PAD	649-38-000	17745	REMOVE/ REPLACE EXISTING GROUT PAD. PER MAST ARM STRUCTURE.	EA	\$285.00	10	\$2,850.00	\$364.20	10	\$3,642.00	\$1,096.00	10	\$10,960.00
42	F/I	FURNISH/INSTALL	MAST ARM REPAIR - MAINTENANCE - WIRE MESH SCREEN	649-38-000	17745 AND Section 649-6	INSTALL/ REPLACE CRITTER SCREEN AT OPENINGS ON MOMENT CONNECTION PLATE.	EA	\$235.00	10	\$2,350.00	\$230.04	10	\$2,300.40	\$304.00	10	\$3,040.00
43	M/E	REPAIR	MAST ARM REPAIR - MAINTENANCE - SPOT PAINT <100 SQ INCHES	649-38-000	17745	REMOVE AND TREAT RUST SPOTS, SPOT PAINT. PER TREATMENT AREA.	EA	\$985.00	10	\$9,850.00	\$400.15	10	\$4,001.50	\$565.00	10	\$5,650.00
44	M/E	REPAIR	MAST ARM REPAIR - MAINTENANCE - SPOT PAINT >100 SQ INCHES	649-38-000		REMOVE AND TREAT RUST SPOTS, SPOT PAINT. PER TREATMENT AREA. NOT TO EXCEED 300 SQ. INCHES PER TREATMENT AREA.	EA	\$2,955.00	10	\$29,550.00	\$1,090.26	10	\$10,902.60	\$1,309.00	10	\$13,090.00
45	M/E	REPAIR	MAST ARM REPAIR - MAINTENANCE - NUTS, HAND HOLE COVERS, TOE COVERS	649-38-000		TIGHTEN MAST ARM MOMENT CONNECTION NUTS, REPLACE MISSING NUTS, SECURE, INSTALL OR REPLACE MISSING HAND HOLE AND TOE COVERS. PER MAST ARM STRUCTURE. PER ASSEMBLY.	EA	\$975.00	20	\$19,500.00	\$200.08	20	\$4,001.60	\$1,054.00	20	\$21,080.00
VEHICULAR TRAFFIC SIGNAL																
46	M/E	RELOCATE	VEHICULAR TRAFFIC SIGNAL - RELOCATE - 1, 3, 4 OR 5-SECTION W/REFLECTIVE BORDER BACKPLATE	650-1-70	N/A	RELOCATE SIGNAL HEAD. ADJUSTMENT OF HARDWARE SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION A650 OF MSTCSD & MUTCD 4D.15.	EA	\$750.00	2	\$1,500.00	\$151.56	2	\$303.12	\$937.00	2	\$1,874.00
47	F/I	FURNISH/INSTALL	VEHICLE SIGNAL HEAD - 1 SECTION W/REFLECTIVE BORDER BACKPLATE	650-1-11	N/A	FOR INSTALLATION OR REPLACEMENT OF SIGNAL ASSEMBLY TO INCLUDE LED INSERT, BACKPLATE WITH REFLECTIVE BORDER, TUNNEL VISOR AND MOUNTING HARDWARE. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION A650 OF MSTCSD.	EA	\$525.00	4	\$2,100.00	\$629.70	4	\$2,518.80	\$753.00	4	\$3,012.00
48	F/I	FURNISH/INSTALL	VEHICLE SIGNAL HEAD - 3 SECTION W/REFLECTIVE BORDER BACKPLATE	650-1-14	N/A	FOR INSTALLATION OR REPLACEMENT OF SIGNAL ASSEMBLY TO INCLUDE LED INSERT, BACKPLATE WITH REFLECTIVE BORDER, TUNNEL VISOR AND MOUNTING HARDWARE. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION A650 OF MSTCSD.	EA	\$721.00	80	\$57,680.00	\$922.08	80	\$73,766.40	\$1,118.00	80	\$89,440.00
49	F/I	FURNISH/INSTALL	VEHICLE SIGNAL HEAD - 4 SECTION W/REFLECTIVE BORDER BACKPLATE	650-1-16	N/A	FOR INSTALLATION OR REPLACEMENT OF SIGNAL ASSEMBLY TO INCLUDE LED INSERT, BACKPLATE WITH REFLECTIVE BORDER, TUNNEL VISOR AND MOUNTING HARDWARE. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION A650 OF MSTCSD.	EA	\$985.00	4	\$3,940.00	\$1,133.57	4	\$4,534.28	\$1,325.00	4	\$5,300.00
50	F/I	FURNISH/INSTALL	VEHICLE SIGNAL HEAD - 5 SECTION CLUSTER W/REFLECTIVE BORDER BACKPLATE	650-1-19	N/A	FOR INSTALLATION OR REPLACEMENT OF SIGNAL ASSEMBLY TO INCLUDE LED INSERT, BACKPLATE WITH REFLECTIVE BORDER, TUNNEL VISOR AND MOUNTING HARDWARE. REMOVAL OF EXISTING EQUIPMENT SHALL BE CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION A650 OF MSTCSD.	EA	\$1,275.00	20	\$25,500.00	\$1,427.78	20	\$28,555.60	\$1,724.00	20	\$34,480.00
VEHICULAR SIGNAL AUXILIARIES																
51	F/I	FURNISH/INSTALL	VEHICULAR SIGNAL AUXILIARIES - 12" LED MODULE - RE-LAMP	650-2-106	N/A	FOR RE-LAMPING INTERSECTIONS. REMOVAL OF EXISTING MODULE CONSIDERED INCIDENTAL.	EA	\$325.00	200	\$65,000.00	\$102.88	200	\$20,576.00	\$254.00	200	\$50,800.00
52	F/I	FURNISH/INSTALL	VEHICULAR SIGNAL AUXILIARIES - BACKPLATE W/ REFLECTIVE BORDER	650-1-19	N/A	FOR REPLACEMENT OF EXISTING OR MISSING BACKPLATES. REMOVAL OF EXISTING EQUIPMENT CONSIDERED INCIDENTAL.	EA	\$185.00	25	\$4,625.00	\$204.90	25	\$5,122.50	\$422.00	25	\$10,550.00
PEDESTRIAN SIGNAL																

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 TRAFFIC SIGNAL AND INTELLIGENT TRANSPORTATION SYSTEMS MAINTENANCE

							B&E SIGNAL AND LIGHTING, INC.			SIEMENS MOBILITY, INC.			TRAFFIC CONTROL DEVICES, INC.			
LINE ITEM NO.	F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING	ACTIVITY	DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE
53	F/I	FURNISH/INSTALL	PEDESTRIAN SIGNAL - RE-LAMP	653-1-11	N/A	FOR REPLACEMENT OF PEDESTRIAN LED COUNTDOWN MODULE ONLY. REMOVAL OF EXISTING EQUIPMENT CONSIDERED INCIDENTAL - ADDITIONAL INFO SECTION 653.	EA	\$215.00	80	\$17,200.00	\$240.85	80	\$19,268.00	\$320.00	80	\$25,600.00
54	F/I	FURNISH/INSTALL	PEDESTRIAN SIGNAL - (1 WAY)	653-1-11	17764	FOR INSTALLATION OF PEDESTRIAN SIGNAL TO INCLUDE, COUNTDOWN LED INSERT, HOUSING, AND MOUNTING HARDWARE. REMOVAL OF EXISTING EQUIPMENT CONSIDERED INCIDENTAL.	AS	\$448.00	40	\$17,920.00	\$633.05	40	\$25,322.00	\$855.00	40	\$34,200.00
55	F/I	FURNISH/INSTALL	PEDESTRIAN SIGNAL - (2 WAY)	653-1-12	17764	FOR INSTALLATION OF PEDESTRIAN SIGNAL TO INCLUDE, COUNTDOWN LED INSERT, HOUSING, AND MOUNTING HARDWARE. REMOVAL OF EXISTING EQUIPMENT CONSIDERED INCIDENTAL.	AS	\$955.00	20	\$19,100.00	\$1,138.98	20	\$22,779.60	\$1,531.00	20	\$30,620.00
RECTANGULAR RAPID FLASHING BEACON																
56	F/I	FURNISH/INSTALL	RECTANGULAR RAPID FLASHING BEACON	654-2-21	TEM	FOR INSTALLATION OF COMPLETE ASSEMBLY - 1 WAY.	AS	\$6,275.00	2	\$12,550.00	\$6,500.00	2	\$13,000.00	\$6,480.00	2	\$12,960.00
57	F/I	FURNISH/INSTALL	RECTANGULAR RAPID FLASHING BEACON	654-2-22	TEM	FOR INSTALLATION OF COMPLETE ASSEMBLY - 2 WAY.	AS	\$6,975.00	2	\$13,950.00	\$6,500.00	2	\$13,000.00	\$8,092.00	2	\$16,184.00
MAST ARM, SPAN WIRE, AND POLE MOUNTING ASSEMBLIES																
58	M/E	REPAIR	MAST ARM, SPAN WIRE, POLE MOUNTING ASSEMBLY REPAIR/REPLACE	659-1-11	N/A	INCLUDES REPLACEMENT OF DAMAGED TRAFFIC SIGNAL AND SIGN MOUNTING HARDWARE AND ADJUSTABLE HANGER ASSEMBLIES.	AS	\$1,765.00	1	\$1,765.00	\$349.88	1	\$349.88	\$860.00	1	\$860.00
59	M/E	REPAIR	MAST ARM, SPAN WIRE, POLE MOUNTING ASSEMBLY REPAIR/REPLACE	659-1-12	N/A	INCLUDES REPLACEMENT OF DAMAGED TRAFFIC SIGNAL AND SIGN MOUNTING HARDWARE AND ADJUSTABLE HANGER ASSEMBLIES.	AS	\$1,765.00	2	\$3,530.00	\$549.98	2	\$1,099.96	\$617.00	2	\$1,234.00
LOOP ASSEMBLY																
60	F/I	INSTALL/REPAIR	LOOP TYPE B 6' X 6'	660-2-102	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$575.00	10	\$5,750.00	\$738.08	10	\$7,380.80	\$790.00	10	\$7,900.00
61	F/I	INSTALL/REPAIR	LOOP TYPE A 6' X 20'	660-2-101	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$675.00	10	\$6,750.00	\$854.24	10	\$8,542.40	\$877.00	10	\$8,770.00
62	F/I	INSTALL/REPAIR	LOOP TYPE A 6' X 30'	660-2-101	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$825.00	10	\$8,250.00	\$949.15	10	\$9,491.50	\$935.00	10	\$9,350.00
63	F/I	INSTALL/REPAIR	LOOP TYPE A 6' X 40'	660-2-101	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$1,150.00	10	\$11,500.00	\$1,044.07	10	\$10,440.70	\$993.00	10	\$9,930.00
64	F/I	INSTALL/REPAIR	LOOP TYPE F 6' X 20'	660-2-106	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$875.00	10	\$8,750.00	\$854.24	10	\$8,542.40	\$838.00	10	\$8,380.00
65	F/I	INSTALL/REPAIR	LOOP TYPE F 6' X 30'	660-2-106	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$975.00	10	\$9,750.00	\$949.15	10	\$9,491.50	\$896.00	10	\$8,960.00
66	F/I	INSTALL/REPAIR	LOOP TYPE F 6' X 40'	660-2-106	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$1,275.00	10	\$12,750.00	\$1,044.07	10	\$10,440.70	\$954.00	10	\$9,540.00
67	F/I	INSTALL/REPAIR	LOOP TYPE F 6' X 50'	660-2-106	17781	FURNISH AND INSTALL LOOP ASSEMBLY. CONNECT TO EXISTING LEAD IN CABLE. INSTALLATION OF NEW LEAD IN CABLE CONSIDERED ADDITIONAL PAY ITEM. COMPLETE INSTALLATION INCLUDES ALL MATERIALS, TOOLS AND EQUIPMENT.	AS	\$1,475.00	5	\$7,375.00	\$1,138.98	5	\$5,694.90	\$1,012.00	5	\$5,060.00
VEHICLE DETECTION SYSTEM - MICROWAVE																
68	I/O	INSTALL	VEHICLE DETECTION SYSTEM - MICROWAVE	660-3-10	REFER TO MANATEE COUNTY DESIGN GUIDE	FOR COMPLETE SYSTEM INSTALLATION. ALL MAJOR MATERIALS PROVIDED BY COUNTY. INCIDENTAL ITEMS TO BE PROVIDED BY THE CONTRACTOR.	PI	\$5,010.00	2	\$10,020.00	\$1,360.93	2	\$2,721.86	\$3,568.00	2	\$7,136.00
69	F/I	INSTALL/REPAIR	VEHICLE DETECTION SYSTEM - MICROWAVE - ABOVE GROUND EQUIPMENT	660-3-12	REFER TO MANATEE COUNTY DESIGN GUIDE	FOR INSTALLATION OR REPLACEMENT OF ABOVE GROUND SYSTEM SENSORS. ALL MATERIALS AND SYSTEM SPECIFICATIONS MUST BE APPROVED BY THE COUNTY PRIOR TO PURCHASE.	EA	\$6,102.00	5	\$30,510.00	\$6,730.44	5	\$33,652.20	\$706.00	5	\$3,530.00
VEHICLE DETECTION SYSTEM - VIDEO																
70	F/O	REPAIR	VIDEO DETECTION SYSTEM - MAINTENANCE - PER INTERSECTION	660-4-80	REFER TO	CLEAN ALL LENSES, AND TIGHTEN CABLING AND CONNECTIONS, TERMINAL BOX, HOUSING AND MOUNTING BRACKETS, STRAIGHTEN CAMERA AND MOUNTING ASSEMBLY, AND READJUST DETECTION ZONES.	PI	\$2,350.00	20	\$47,000.00	\$680.47	20	\$13,609.40	\$845.00	20	\$16,900.00

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 TRAFFIC SIGNAL AND INTELLIGENT TRANSPORTATION SYSTEMS MAINTENANCE

LINE ITEM NO.	ACTIVITY F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING	DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	B&E SIGNAL AND LIGHTING, INC.			SIEMENS MOBILITY, INC.			TRAFFIC CONTROL DEVICES, INC.		
							UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE
71	I/O	INSTALL	VIDEO DETECTION SYSTEM (INSTALL) - CABINET EQUIPMENT (PER LOCATION)	660-4-31	REFER TO MANATEE COUNTY DESIGN GUIDE	EA	\$2,310.00	2	\$4,620.00	\$340.23	2	\$680.46	\$745.00	2	\$1,490.00
72	I/O	INSTALL	VIDEO CAMERA (INSTALL) - ABOVE GROUND EQUIPMENT (PER CAMERA)	660-4-32	REFER TO MANATEE COUNTY DESIGN GUIDE	EA	\$2,350.00	2	\$4,700.00	\$680.47	2	\$1,360.94	\$1,167.00	2	\$2,334.00
VEHICLE DETECTION SYSTEM - WIRELESS															
73	I/O	INSTALL AND/OR REPLACE	VEHICLE DETECTION SYSTEM - WIRELESS - CABINET EQUIPMENT - (PER INTERSECTION)	660-5-31	REFER TO MANATEE COUNTY DESIGN GUIDE	PI	\$2,310.00	2	\$4,620.00	\$340.23	2	\$680.46	\$745.00	2	\$1,490.00
74	I/O	INSTALL AND/OR REPLACE	VEHICLE DETECTION SYSTEM - WIRELESS - ABOVE GROUND EQUIPMENT (PER SENSOR)	660-5-32	REFER TO MANATEE COUNTY DESIGN GUIDE	EA	\$2,350.00	10	\$23,500.00	\$170.12	10	\$1,701.20	\$1,167.00	10	\$11,670.00
75	I/O	INSTALL AND/OR REPLACE	VEHICLE DETECTION SYSTEM - WIRELESS - IN ROAD ELECTRONICS (PER SENSOR)	660-5-33	REFER TO MANATEE COUNTY DESIGN GUIDE	EA	\$275.00	10	\$2,750.00	\$127.59	10	\$1,275.90	\$474.00	10	\$4,740.00
PEDESTRIAN DETECTOR															
76	I/O	INSTALL	PEDESTRIAN DETECTOR	665-1-30	REFER TO MANATEE COUNTY DESIGN GUIDE	EA	\$75.00	20	\$1,500.00	\$127.59	20	\$2,551.80	\$176.00	20	\$3,520.00
77	I/O	INSTALL/REPLACE	PEDESTRIAN DETECTOR - STANDARD PUSHBUTTON	665-1-90	REFER TO MANATEE COUNTY DESIGN GUIDE	EA	\$95.00	20	\$1,900.00	\$127.59	20	\$2,551.80	\$176.00	20	\$3,520.00
78	I/O	INSTALL/REPLACE	PEDESTRIAN DETECTOR - ACCESSIBLE (AUDIBLE) PUSHBUTTON	665-1-90	REFER TO MANATEE COUNTY DESIGN GUIDE	EA	\$115.00	5	\$575.00	\$127.59	5	\$637.95	\$375.00	5	\$1,875.00
TRAFFIC CONTROLLER ASSEMBLY															
79	I/O	INSTALL	TRAFFIC CONTROLLER ASSEMBLY - CONTROLLER WITH CABINET	670-5-300	17841	AS	\$5,610.00	2	\$11,220.00	\$2,372.88	2	\$4,745.76	\$2,144.00	2	\$4,288.00
80	M/E	RELOCATE	TRAFFIC CONTROLLER ASSEMBLY - CONCRETE FOUNDATION	670-5-500	17841	EA	\$3,765.00	2	\$7,530.00	\$2,180.53	2	\$4,361.06	\$2,039.00	2	\$4,078.00
81	M/E	REMOVE	TRAFFIC CONTROLLER ASSEMBLY - CONCRETE FOUNDATION - REMOVE	670-5-600	17841	EA	\$750.00	2	\$1,500.00	\$768.64	2	\$1,537.28	\$1,149.00	2	\$2,298.00
82	I/O	INSTALL	TRAFFIC CONTROLLER ASSEMBLY - CONCRETE FOUNDATION - INSTALL	670-5-100	17841	EA	\$2,750.00	2	\$5,500.00	\$1,500.06	2	\$3,000.12	\$1,485.00	2	\$2,970.00
ITS CABINET															
83	I/O	INSTALL	ITS CABINET - CCTV	676-2-300	18108	EA	\$2,305.00	2	\$4,610.00	\$370.19	2	\$740.38	\$2,924.00	2	\$5,848.00
SYSTEM CONTROL EQUIPMENT															
84	I/O	INSTALL	ADAPTIVE SIGNAL CONTROL SYSTEM - INSTALL	680-1-300	N/A	PI	\$375.00	1	\$375.00	\$1,360.93	1	\$1,360.93	\$2,332.00	1	\$2,332.00
CCTV CAMERA															
85	I/O	INSTALL	CCTV CAMERA	682-1-33	REFER TO MANATEE COUNTY DESIGN GUIDE	EA	\$1,945.00	2	\$3,890.00	\$680.47	2	\$1,360.94	\$1,085.00	2	\$2,170.00
FIBER OPTIC CABLE															

BID TABULATION
 IFB NO. 21-R076431BB
 TRAFFIC SIGNAL AND INTELLIGENT TRANSPORTATION SYSTEMS MAINTENANCE

							B&E SIGNAL AND LIGHTING, INC.			SIEMENS MOBILITY, INC.			TRAFFIC CONTROL DEVICES, INC.			
LINE ITEM NO.	ACTIVITY F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING		DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT REF/	NOTES	UNIT OF MEASURE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE
86	I/O	INSTALL	FIBER OPTIC CABLE - INSTALL ONLY - BRIDGE MOUNT	633-1-310	18202-18204	INSTALL FIBER OPTIC CABLE, BRIDGE MOUNT, VARIOUS SIZES. ALL MATERIALS PROVIDED BY MANATEE COUNTY.	LF	\$1.00	1,000	\$1,000.00	\$5.00	1,000	\$5,000.00	\$2.60	1,000	\$2,600.00
87	I/O	INSTALL	FIBER OPTIC CABLE - INSTALL ONLY - UNDERGROUND	633-1-320	18202-18204	INSTALL FIBER OPTIC CABLE, UNDERGROUND, VARIOUS SIZES. ALL PROVIDED BY MANATEE COUNTY.	LF	\$1.00	5,000	\$5,000.00	\$3.50	5,000	\$17,500.00	\$1.90	5,000	\$9,500.00
FIBER OPTIC CONNECTION																
88	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION - SPLICE	633-2-31	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$47.00	288	\$13,536.00	\$41.76	288	\$12,026.88	\$58.00	288	\$16,704.00
89	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION - TERMINATION	633-2-31	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL FIBER OPTIC CABLE SPLICE, PER TERMINATION, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$45.00	16	\$720.00	\$78.83	16	\$1,261.28	\$69.50	16	\$1,112.00
FIBER OPTIC CONNECTION - HARDWARE																
90	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION-HARDWARE - SPLICE ENCLOSURE	633-3-11	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$475.00	1	\$475.00	\$696.11	1	\$696.11	\$1,044.00	1	\$1,044.00
91	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION-HARDWARE - SPLICE TRAY	633-3-12	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$75.00	1	\$75.00	\$57.90	1	\$57.90	\$69.50	1	\$69.50
92	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION-HARDWARE - PRE-TERMINATED CONNECTOR ASSEMBLY	633-3-13	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$375.00	1	\$375.00	\$50.30	1	\$50.30	\$58.00	1	\$58.00
93	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION-HARDWARE - BUFFER TUBE FAN OUT KIT	633-3-14	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$475.00	1	\$475.00	\$200.21	1	\$200.21	\$69.50	1	\$69.50
94	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION-HARDWARE - PATCH PANEL - PRE TERMINATED	633-3-15	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$275.00	1	\$275.00	\$1,233.89	1	\$1,233.89	\$928.00	1	\$928.00
95	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION-HARDWARE - PATCH PANEL - FIELD TERMINATED	633-3-16	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$425.00	1	\$425.00	\$1,456.94	1	\$1,456.94	\$812.00	1	\$812.00
96	F/I	FURNISH/INSTALL	FIBER OPTIC CONNECTION-HARDWARE - CONNECTOR PANEL	633-3-17	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL FIBER OPTIC CABLE SPLICE, PER SPLICE, ALL MATERIALS TO BE PROVIDED BY CONTRACTOR.	EA	\$425.00	1	\$425.00	\$141.42	1	\$141.42	\$116.00	1	\$116.00
UNINTERRUPTIBLE POWER SUPPLY																
97	F/I	FURNISH/INSTALL	UNINTERRUPTIBLE POWER SUPPLY	685-1-13	REFER TO MANATEE COUNTY DESIGN GUIDE	FURNISH AND INSTALL A COMPLETE UPS ASSEMBLY TO INCLUDE, UPS, CABINET AND BATTERIES. ALL MATERIALS SHALL BE APPROVED BY THE COUNTY BEFORE PURCHASE AND INSTALLATION.	EA	\$6,586.00	2	\$13,172.00	\$7,061.68	2	\$14,123.36	\$8,972.00	2	\$17,944.00
98	I/O	INSTALL/REPAIR	UNINTERRUPTIBLE POWER SUPPLY - BATTERY	685-1-231	REFER TO MANATEE COUNTY DESIGN GUIDE	INSTALL/REPLACE BATTERY. MAJOR MATERIAL PROVIDED BY THE COUNTY. INCIDENTAL ITEMS TO BE PROVIDED BY THE CONTRACTOR. PAY ITEM INCLUDES REMOVAL AND DISPOSAL OF EXISTING BATTERY THROUGH COUNTY BATTERY SUPPLIER.	EA	\$1,385.00	20	\$27,700.00	\$85.06	20	\$1,701.20	\$596.00	20	\$11,920.00
SINGLE POST SIGN																
99	F/I	FURNISH/INSTALL	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	700-1-11	FDOT BOE	THESE ITEMS INCLUDE ALL SIGN PANEL(S), POST(S) AND FOUNDATION FOR A COMPLETE ASSEMBLY. ENSURE THAT SIGN ASSEMBLIES MEET THE WIND LOAD AREA REQUIREMENTS OF THE DESIGN STANDARDS. FOR DETERMINING THE SHEETING AREA FOR PAYMENT, ADD THE AREA OF ALL SIGN MESSAGES ON THE ASSEMBLY (FRONT AND BACK MESSAGES).	AS	\$575.00	1	\$575.00	\$379.66	1	\$379.66	\$463.00	1	\$463.00
100	F/I	FURNISH/INSTALL	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	700-1-12	FDOT BOE	THESE ITEMS INCLUDE ALL SIGN PANEL(S), POST(S) AND FOUNDATION FOR A COMPLETE ASSEMBLY. ENSURE THAT SIGN ASSEMBLIES MEET THE WIND LOAD AREA REQUIREMENTS OF THE DESIGN STANDARDS. FOR DETERMINING THE SHEETING AREA FOR PAYMENT, ADD THE AREA OF ALL SIGN MESSAGES ON THE ASSEMBLY (FRONT AND BACK MESSAGES).	AS	\$1,375.00	1	\$1,375.00	\$1,095.52	1	\$1,095.52	\$1,869.00	1	\$1,869.00
101	F/I	FURNISH/INSTALL	SINGLE POST SIGN, F&I GROUND MOUNT, 21-30 SF	700-1-13	FDOT BOE	THESE ITEMS INCLUDE ALL SIGN PANEL(S), POST(S) AND FOUNDATION FOR A COMPLETE ASSEMBLY. ENSURE THAT SIGN ASSEMBLIES MEET THE WIND LOAD AREA REQUIREMENTS OF THE DESIGN STANDARDS. FOR DETERMINING THE SHEETING AREA FOR PAYMENT, ADD THE AREA OF ALL SIGN MESSAGES ON THE ASSEMBLY (FRONT AND BACK MESSAGES).	AS	\$3,275.00	1	\$3,275.00	\$1,545.70	1	\$1,545.70	\$2,529.00	1	\$2,529.00
102	F/I	FURNISH/INSTALL	SINGLE POST SIGN, F&I GROUND MOUNT, 31+ SF	700-1-14	FDOT BOE	THESE ITEMS INCLUDE ALL SIGN PANEL(S), POST(S) AND FOUNDATION FOR A COMPLETE ASSEMBLY. ENSURE THAT SIGN ASSEMBLIES MEET THE WIND LOAD AREA REQUIREMENTS OF THE DESIGN STANDARDS. FOR DETERMINING THE SHEETING AREA FOR PAYMENT, ADD THE AREA OF ALL SIGN MESSAGES ON THE ASSEMBLY (FRONT AND BACK MESSAGES).	AS	\$4,750.00	1	\$4,750.00	\$2,088.14	1	\$2,088.14	\$3,537.00	1	\$3,537.00
103	M/E	REPAIR	SINGLE POST SIGN, F&I GROUND MOUNT - REPAIR	700-1-80	FDOT BOE	FOR REPAIR OF GROUND MOUNT TRAFFIC SIGNS, INCLUDES POLE (U-CHANNEL AND BASE) REPLACEMENT AS NEEDED.	AS	\$375.00	1	\$375.00	\$260.00	1	\$260.00	\$463.00	1	\$463.00
INTERNALLY ILLUMINATED SIGN																
104	I/O	INSTALL	INTERNALLY-ILLUMINATED SIGN - INSTALL ONLY	700-5-40	17748	FOR INSTALLATION OF INTERNALLY ILLUMINATED SIGN, INSTALLATION OF POWER CABLE CONSIDERED INCIDENTAL. COUNTY TO PROVIDE ALL SIGNS. CONTRACTOR SHALL PROVIDE ALL MOUNTING HARDWARE, CABLING AND MISCELLANEOUS CONNECTORS HARDWARE TO COMPLETE THE INSTALLATION. ADDITIONAL INFO SECTION A699.	EA	\$1,022.00	1	\$1,022.00	\$510.35	1	\$510.35	\$1,054.00	1	\$1,054.00
105	M/E	REMOVE	INTERNALLY-ILLUMINATED SIGN - REMOVAL	700-5-60	17748	REMOVAL OF SIGN ASSEMBLY. MAY BE USED FOR UPGRADES OR REPLACEMENTS.	EA	\$750.00	1	\$750.00	\$170.12	1	\$170.12	\$156.00	1	\$156.00
106	M/E	MODIFY	INTERNALLY-ILLUMINATED SIGN - LED RETROFIT	M700-5-70	REFER TO MANATEE COUNTY DESIGN GUIDE	REMOVAL OF FLUORESCENT LAMP AND BALLAST AND REPLACE WITH FDOT APPROVED LED RETROFIT KIT. CONTRACTOR TO DISPOSE OF LAMPS, BALLASTS, OR UNUSABLE MATERIALS PROPERLY. CONTRACTOR TO PROVIDE MATERIALS.	EA	\$2,165.00	1	\$2,165.00	\$554.78	1	\$554.78	\$1,678.00	1	\$1,678.00
107	M/E	REPAIR	INTERNALLY-ILLUMINATED SIGN - REPAIR - LED	M700-5-70	REFER TO MANATEE COUNTY DESIGN GUIDE	DIAGNOSE AND REPAIR LED SIGN, REPLACE LED DRIVER. CONTRACTOR TO PROVIDE MATERIALS.	EA	\$1,375.00	20	\$27,500.00	\$409.80	20	\$8,196.00	\$1,678.00	20	\$33,560.00
108	M/E	REPAIR	INTERNALLY-ILLUMINATED SIGN - REPAIR - FLUORESCENT	M700-5-70	REFER TO MANATEE COUNTY DESIGN GUIDE	DIAGNOSE AND REPAIR FLUORESCENT SIGN, REPLACE LAMP AND BALLAST. CONTRACTOR TO PROVIDE MATERIALS.	EA	\$1,275.00	5	\$6,375.00	\$351.05	5	\$1,755.25	\$1,150.00	5	\$5,750.00
109	M/E	REPAIR	INTERNALLY-ILLUMINATED SIGN - REFACE	M700-5-70	REFER TO MANATEE COUNTY DESIGN GUIDE	REPLACE EXISTING SIGN FACE. REPLACEMENT SHALL BE EXACT FIT, USE EXISTING DESIGN, AND FDOT AND MUTCD COMPLIANT MATERIALS. CONTRACTOR TO PROVIDE MATERIALS.	EA	\$1,475.00	20	\$29,500.00	\$575.20	20	\$11,504.00	\$1,150.00	20	\$23,000.00

BID TABULATION
 IFB NO. 21-R076431BB
 TRAFFIC SIGNAL AND INTELLIGENT TRANSPORTATION SYSTEMS MAINTENANCE

LINE ITEM NO.	ACTIVITY F/I = FURNISH & INSTALL F/O = FURNISH ONLY I/O = INSTALL ONLY M/E = MODIFY EXISTING		DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTES	UNIT OF MEASURE	B&E SIGNAL AND LIGHTING, INC.			SIEMENS MOBILITY, INC.			TRAFFIC CONTROL DEVICES, INC.		
								UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE	UNIT BID PRICE	MULTIPLIER	EXTENDED BID PRICE
110	M/E	REMOVE/INSTALL	INTERNALLY-ILLUMINATED SIGN - RELOCATE SIGN	700-5-50		INCLUDES RELOCATING AND RECONNECTING ALL WIRING AND HARDWARE. CONTRACTOR TO PROVIDE ANY ADDITIONAL MATERIALS NECESSARY TO COMPLETE THE INSTALLATION. SPLICES IN CONDUCTORS MAY BE PERMITTED ONLY AT HAND HOLE ACCESS POINTS. ALL CABLING SHALL BE PROPERLY DRESSED AND TAGGED.	EA	\$975.00	1	\$975.00	\$1,020.70	1	\$1,020.70	\$1,210.00	1	\$1,210.00
FLASHING BEACONS																
111	I/O	INSTALL	SIGN BEACON - INSTALL ONLY	700-12-41	11862	COUNTY TO PROVIDE MATERIALS. CONTRACTOR TO REMOVE AND DISPOSE OF DEBRIS, RESTORE LANDSCAPE TO THE PRE-WORK GRADE CONSTRUCTION CONDITION AND BE COMPATIBLE WITH SURROUNDING GROUND AREAS.	EA	\$1,375.00	1	\$1,375.00	\$680.47	1	\$680.47	\$880.00	1	\$880.00
SERVICES																
112	F/O	FURNISH	LABOR	None	N/A	COST PER TECHNICIAN PER HOUR.	HR	\$65.00	1	\$65.00	\$85.06	1	\$85.06	\$123.00	1	\$123.00
113	F/O	FURNISH	MATERIAL	None	N/A	FOR ADDITIONAL MATERIALS, MARKUP NOT TO EXCEED 10%.	EA	\$1.00	1	\$1.00	\$1.10	1	\$1.10	\$10.00	1	\$10.00
114	F/O	FURNISH	MOBILIZATION	101- Maint	FDOT BOE	THIS ITEM IS PAID PER LOCATION FOR SHORT DURATION WORK LASTING LESS THAN 2 DAYS. THIS ITEM IS USED FOR MOBILIZATION AND MOT COSTS ASSOCIATED WITH TROUBLE CALLS AND EMERGENCY RESPONSE. NO ADDITIONAL MOT PAY ITEMS MAY BE USED WITH THIS ITEM.	EA	\$750.00	1	\$750.00	\$340.23	1	\$340.23	\$871.00	1	\$871.00
115	F/O	FURNISH	MAINTENANCE OF TRAFFIC (MOT)	102-1- MOT	FDOT BOE	FOR PROJECTS LASTING TWO (2) OR MORE DAYS AT THE SAME PROJECT LOCATION, PROVIDE MAINTENANCE OF TRAFFIC BILLED PER DAY. COSTS FOR TEMPORARY MOT LASTING LESS THAN TWO (2) DAYS TO BE INCLUDED IN MOBILIZATION COSTS (SEE 101-MAINT).	DAY	\$875.00	1	\$875.00	\$487.73	1	\$487.73	\$3,483.00	1	\$3,483.00
116	F/O	FURNISH	HEAVY EQUIPMENT	M-1-A	N/A	PROVIDE HOURLY USE OF SPECIALTY HEAVY EQUIPMENT. THIS PAY ITEM IS NOT TO BE USED IN COMBINATION WITH FURNISH AND INSTALL PAY ITEMS ABOVE.	HR	\$110.00	1	\$110.00	\$224.00	1	\$224.00	\$384.00	1	\$384.00
117	F/O	FURNISH	PROFESSIONAL/TECHNICAL SERVICES	M-2-A	N/A	PROVIDE HOURLY PROFESSIONAL AND TECHNICAL SERVICES. THIS PAY ITEM IS NOT TO BE USED IN COMBINATION WITH FURNISH AND INSTALL PAY ITEMS ABOVE.	HR	\$65.00	1	\$65.00	\$350.00	1	\$350.00	\$406.00	1	\$406.00
GRAND TOTAL:								\$181,137.60	MULTIPLIER	\$898,771.00	\$125,842.50	MULTIPLIER	\$729,029.59	\$172,309.90	MULTIPLIER	\$974,009.00

APPROVED in Open Session
6/8/2021
Manatee County Board of County
Commissioners



Board of County Commissioners June 8, 2021 - Regular Meeting

SUBJECT

AUTHORIZATION TO AWARD INVITATION FOR BID (IFB) No. 21-R076431BB FOR TRAFFIC SIGNAL AND INTELLIGENT TRANSPORTATION SYSTEMS (ITS) MAINTENANCE SERVICES; AND EXECUTION OF AGREEMENTS NO. 21-R076431BB

Category

CONSENT AGENDA

Briefings

None

Contact and/or Presenter Information

Presenter: Aaron Burkett - Traffic Operations Division Manager, Public Works Department, Ext. 7509

Contact: Brooke Baker - Procurement Team Leader, Financial Management Department, Ext. 3039

Action Requested

Authorization to award IFB No. 21-R076431BB for Traffic Signal and ITS Maintenance Services to the lowest, responsive, and responsible bidders: B & E Signal and Lighting, Inc.; Siemens Mobility, Inc.; and Traffic Control Devices, Inc.

Authorization for the Procurement Official, or designee, to execute Agreements No. 21-R076431BB for Traffic Signal and ITS Maintenance Services with the following firms: B & E Signal and Lighting, Inc.; Siemens Mobility, Inc.; and Traffic Control Devices, Inc.

Enabling/Regulating Authority

Manatee County Code of Laws

Background Discussion

On March 22, 2021, at the request of the Public Works Department, the Procurement Division solicited IFB No. 21-R076431BB for Traffic Signal and ITS Maintenance Services on an as-needed basis. Three (3) responsive, responsible bids were received from the following firms: B & E

Signal and Lighting, Inc.; Siemens Mobility, Inc.; and Traffic Control Devices, Inc. The results are shown on the attached bid tabulation.

The Public Works Department, through the Procurement Division, is seeking authorization to award IFB No. 21-R076431BB to the three (3) responsive, responsible bidders to ensure availability and coverage of the as-needed maintenance services.

The resulting Agreements (Agreements No. 21-R076431BB) provide the Public Works Department with as-needed emergency and routine maintenance, installation, construction, and repair services for traffic signals, highway lighting, ITS, and other related devices.

The Public Works Department estimates that the annual expenditure will be approximately \$500,000.00; however, any deviation in funding shall be in accordance with the fiscal year departmental budget approved by the Board of County Commissioners.

Attorney Review

Not Reviewed (Utilizes exact document or procedure approved within the last 18 months)

Instructions to Board Records

Originals to Board Records.

Copies to:

[Emailed 6/14/2021](#)

- Public Works Department: Aaron Burkett (aaron.burkett@mymanatee.org)
- Procurement Division: Brooke Baker (brooke.baker@mymanatee.org) / (approvedeagendas@mymanatee.org)

Cost and Funds Source Account Number and Name

Various Accounts Based on the BCC-Approved Departmental Budget

Amount and Frequency of Recurring Costs

N/A