

IFB No.  
No.18-R068262GD  
Traffic Signal and Intelligent  
Transportation Systems Maintenance  
February 6, 2018

Manatee County BCC  
Procurement Division  
1112 Manatee Avenue West Ste 803  
Bradenton, FL 34205  
[purchasing@mymanatee.org](mailto:purchasing@mymanatee.org)



**ADVERTISEMENT  
INVITATION FOR BID  
NO. 18-R068262GD**

**Traffic Signal and Intelligent Transportation Systems Maintenance**

Manatee County, a political subdivision of the State of Florida (hereinafter referred to as County), will receive sealed bids from individuals, corporations, partnerships, and other legal entities authorized to do business in the State of Florida, to provide Traffic Signal and Intelligent Transportation Systems Maintenance, as specified in this Invitation for Bid to include all necessary labor, tools, materials, cleaning solutions, equipment and incidentals required, including the necessary vehicles and facilities for transportation of all materials necessary to repair the County's Traffic Signal and Intelligent Transportation Systems. .

**DATE, TIME AND PLACE DUE:**

The Due Date and Time for submission of Bids in response to this IFB is **March 14, 2018 at 3:00 P.M. ET.** Bids must be delivered to the following location: Manatee County Administration Building, 1112 Manatee Ave. W., Suite 803, Bradenton, FL 34205 prior to the Due Date and Time. Bids will be opened immediately following the Due Date and Time at the Manatee County Administration Building, Suite 803 and the Bidder's name and total bid amount will be read aloud. Interested parties may attend the opening.

**SOLICITATION INFORMATION CONFERENCE:**

In order to ensure all prospective Bidders have sufficient information and understanding of County's needs, a non-mandatory Information Conference will be held at: 2:00 P.M. on February 12, 2018 at the Public Works Administration Building Conference Room 2 located at 1022 26th Avenue East Bradenton, FL 34208. Attendance is not mandatory, but is strongly encouraged.

**DEADLINE FOR QUESTIONS AND CLARIFICATION REQUESTS:**

The deadline to submit all questions, inquiries, or requests concerning interpretation, clarification or additional information pertaining to this Invitation for Bid to the Manatee County Procurement Division is February 20, 2018. Questions and inquiries should be submitted via email to the Designated Procurement Contact shown below.

**Important: A prohibition of lobbying is in place. Review Section A.15 carefully to avoid violation and possible sanctions.**

**DESIGNATED PROCUREMENT CONTACT:** Greg Davis, Contracts Negotiator  
(941) 749-3037, Fax (941) 749-3034  
Email: gregory.davis@mymanatee.org  
Manatee County Financial Management Department  
Procurement Division

AUTHORIZED FOR RELEASE: 

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### BID FORMS

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## **SECTION A INSTRUCTIONS TO BIDDERS**

To receive consideration, entities who submit a response to this Invitation for Bid (Bidders) must meet the minimum qualification requirements and comply with the following instructions. Bid responses (Bids) will be accepted from single business entities, joint ventures, partnerships or corporations.

### **A.01 BID DUE DATE**

The Due Date and Time for submission of Bids in response to this Invitation for Bid (IFB) is **March 14, 2018 at 3:00 P.M. ET**. Bids must be delivered to the following location: Manatee County Administration Building, 1112 Manatee Ave. W., Suite 803, Bradenton, FL 34205 prior to the Due Date and Time.

Bids received after the Due Date and Time will not be considered. It will be the sole responsibility of the Bidder to deliver its bid to the Manatee County Procurement Division for receipt on or before the Due Date and Time. If a bid is sent by U.S. Mail, courier or other delivery services, the Bidder will be responsible for its timely delivery to the Procurement Division. Bids delayed in delivery will not be considered, will not be opened at the public opening, and arrangements will be made for their return at the Bidder's request and expense.

### **A.02 PUBLIC OPENING OF BIDS**

Sealed Bids will be publicly opened at Manatee County Administration Procurement Division, 1112 Manatee Avenue West, 8<sup>th</sup> Floor, Suite 803, Bradenton, Florida 34205, in the presence of County officials immediately upon expiration of the Due Date and Time. Bidders or their representatives may attend the Bid opening.

Manatee County will make public at the opening the names of the business entities which submitted a Bid, the city and state in which they reside, and the total bid price. No review or analysis of the Bids will be conducted at the bid opening.

### **A.03 SUBMISSION OF BIDS**

The contents of the Bid sealed package must include:

- One (1) bound original clearly identifying Bidder and marked "ORIGINAL".
- Two (2) bound copies clearly identifying Bidder and marked "COPY" with all required information and identical to the original.
- One (1) electronic format copies clearly identifying Bidder.

Electronic format copy should be submitted on a Universal Serial Bus (USB) portable flash memory drive or compact disc (CD) in MicroSoft Office® or Adobe Acrobat® portable document format (PDF) in one continuous file. Do not password protect or otherwise encrypt electronic Bid copies. Electronic copies must be searchable and contain an identical Bid to the original.

Submit the Bid package in a sealed container with the following information clearly marked on the outside of the package: IFB No. 18- R068262GD, Traffic Signal and Intelligent Transportation Systems Maintenance, Bidder's name, and Bidder's address. Bids must be delivered to the Manatee County Procurement Division prior to the Due Date and Time at the following address:

Manatee County  
Procurement Division  
1112 Manatee Avenue West, Suite 803  
Bradenton, FL 34205

**A.04 BID FORMS**

Bids must include the forms provided in this IFB. If needed, additional pages may be attached to a form. Bidders must fully complete and execute all Bid Forms. Bid Forms must be executed by an authorized official of the company who has the legal authority to bind the company.

**A.05 ENVIRONMENTAL SUSTAINABILITY**

Bidder shall acknowledge in its Bid if Bidder has an environmental sustainability initiative. In addition, Bidder shall submit with its Bid a brief summary of its environmental sustainability initiative. This information will be used as a determining factor in the award decision when all other factors, including local preference, are otherwise equal.

**A.06 STANDARDS FOR MATHEMATICAL ERRORS**

1. Bid pricing forms without imbedded mathematical formulas: In the event of multiplication/extension error(s), the unit price shall prevail. In the event of addition error(s) the extension totals will prevail. In the event the dollar amount for contract contingency is omitted, it will be added to the total price of the Bid.
2. Bid pricing forms with imbedded mathematical formulas: Interactive bid pricing forms that contain mathematical formulas may be provided to automate lengthy and complex bid forms. In the event bid pricing forms with imbedded formulas are used and a multiplication/extension error(s) is discovered in the formula, the unit price entered by the Bidder shall prevail.
3. Bidder shall assume the responsibility and accuracy of the information input in the bid pricing form and therefore shall verify that the calculations are correct before submitting its Bid.
4. Regardless of the type of bid pricing form used, all Bids shall be reviewed mathematically by the County using these standards.

**A.07 DISTRIBUTION OF SOLICITATION DOCUMENTS**

All documents issued pursuant to this IFB are distributed electronically and available for download at no charge at [www.mymanatee.org](http://www.mymanatee.org) > *Online Services, Bids and Proposals*. This link is located on the left side of the County website home page. Documents may be viewed and downloaded for printing using Adobe Reader® software.

At its sole discretion, the County may utilize a third-party provider, such as DemandStar by Onvia® (DemandStar) to distribute Bids. Visit the DemandStar website at [www.Demandstar.com](http://www.Demandstar.com) for more information regarding this service. Participation in the DemandStar system is not a requirement for doing business with Manatee County.

Additionally, the IFB and all related documents are available for public inspection at the Manatee County Procurement Division, 1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205. Call (941) 749-3014 to schedule an appointment. Documents are available between the hours of 8:00 A.M. and 5:00 P.M., Monday through Friday, with the exception of County holidays.

As a courtesy, Manatee County notifies the Manatee County Chamber of Commerce and the Manatee County Black Chamber of Commerce of all active solicitations, who then distributes the information to its members.

#### **A.08 ADDENDA**

Any interpretations, corrections or changes to this IFB will be made by addendua. Addenda will be posted on the Procurement Division's web page of the County website at <http://www.mymanatee.org/purchasing> > *Bids and Proposals*. For those solicitations that are advertised on DemandStar, addenda will also be posted on the DemandStar distribution system on the 'Planholders' link.

All addenda are a part of the IFB and each Bidder will be bound by such addenda. It is the responsibility of each Bidder to read and comprehend all addenda issued. Failure of any Bidder to acknowledge an issued addendum in its Bid will not relieve the Bidder from any obligation contained therein.

#### **A.09 BID EXPENSES**

All costs incurred by Bidder in responding to this IFB will be the sole responsibility of the Bidder.

#### **A.10 QUESTION AND CLARIFICATION PERIOD**

Each Bidder shall examine all terms, conditions and requirements in the IFB documents and will judge all matters relating to the adequacy and accuracy of such documents. Any questions or request for changes or interpretations, clarification or additional information pertaining to this IFB shall be made in writing via email to the Manatee County Procurement Division to the Designated Procurement Contact or to [purchasing@mymanatee.org](mailto:purchasing@mymanatee.org) prior to the Deadline for Questions and Clarifications. Bidder shall furnish any data or information it deems necessary for the County to evaluate requests to modify the terms, conditions or requirements of this IFB. Any changes or modifications to the terms conditions and requirements of this IFB will be at the sole discretion of the County. All questions received and responses given will be provided to potential Bidders via an addendum to this IFB

Manatee County will not be responsible for oral interpretations given including from County staff, representative, or others. The issuance of a written addendum by the Procurement Division is the only official method whereby interpretation, clarification, modifications, or additional information will be given.

#### **A.11 FALSE OR MISLEADING STATEMENTS**

Bids which contain false or misleading statements or which provide references which do not support an attribute or condition claimed by the Bidder, may be rejected. If, in the opinion of the County, such information was intended to mislead the County in its evaluation of the Bid, and the attribute, condition or capability is a requirement of this IFB. Such Bidder will be disqualified from consideration for this IFB and may be disqualified from submitting a response on future solicitation opportunities with the County.

#### **A.12 UNBALANCED BIDDING**

County recognizes that large and/or complex projects will often result in a variety of methods, sources, and prices. However, where in the opinion of the County such variation does not appear to be justified given bid requirements and industry and market conditions, the Bid will be presumed to be unbalanced. Examples of unbalanced Bids will include:

1. Bids showing omissions, alterations of form, additions not specified, or required conditional or unauthorized alternate bids.
2. Bids quoting prices that substantially deviate, either higher or lower, from those included in the Bids of competitive Bidders for the same line item unit costs.
3. Bids where the unit costs offered are in excess of, or below reasonable cost analysis values.

In the event County determines that a Bid is presumed unbalanced, it will request the opportunity to and reserves the right to, review all source quotes, bids, price lists, letters of intent, and other supporting documentation which the Bidder obtained and upon which the Bidder relied upon to develop its Bid. County reserves the right to deem any presumptive unbalanced Bid where the Bidder is unable to demonstrate the validity and/or necessity of the unbalanced unit costs as non-responsive.

#### **A.13 WITHDRAWAL OR REVISION OF BIDS**

Bidders may withdraw Bids under the following circumstances:

- a. If Bidder discovers a mistake(s) prior to the Due Date and Time. Bidder may withdraw its Bid by submitting a written notice to the Procurement Division. The notice must be received in the Procurement Division prior to the Due Date and Time for receiving Bids. A copy of the request shall be retained and the unopened Bid returned to the Bidder; or
- b. After the Bids are opened but before a contract is signed, Bidder alleges a material mistake of fact if:
  1. The mistake is clearly evident in the solicitation document; or
  2. Bidder submits evidence which clearly and convincingly demonstrates that a mistake was made in the Bid. Request to withdraw a Bid must be in writing and approved by the Procurement Official.

#### **A.14 JOINT VENTURES**

Bidders intending to submit a bid as a joint venture with another entity are required to have filed proper documents with the Florida Department of Business and Professional Regulation and all other State or local licensing agencies as required by Florida Statute Section 489.119, prior to the Due Date and Time.

#### **A.15 LOBBYING**

After the issuance of any solicitation or during renegotiations, prospective Bidders, or their agents, representatives or persons acting on behalf of such Bidder, shall not contact,

communicate with or discuss any matter relating in any way to the solicitation with any officer, agent or employee of Manatee County other than the Procurement Official or designee. This prohibition includes copying such persons on written communication, including email correspondence. This requirement begins at the time of advertisement of the IFB and ends upon final execution of the contract or at the time the solicitation is cancelled or the renegotiation efforts are terminated. The prohibition does not apply to presentations made to the evaluation committee or at a County Commission meeting where the Commission is considering approval of a proposed contract. Violators of this prohibition will be subject to sanctions as provided in the Manatee County Code of Ordinances Section 2-26-31 and 2-26-32. Sanctions may include (a) written warning; (b) termination of contracts; and (c) debarment or suspension.

**A.16 IRREVOCABLE OFFER**

Any Bid may be withdrawn up until the Due Date and Time. Any Bid not so withdrawn shall, upon opening, constitute an irrevocable offer for a period of ninety (90) days to provide the goods or services set forth in this IFB or until one or more of the Bids have been duly accepted by County, whichever occurs first.

**A.17 ERRORS OR OMISSIONS**

Once a Bid is opened, the County will not accept any request by Bidder to correct errors or omissions in the Bid other than as identified in paragraph A.12.

**A.18 DETERMINATION OF RESPONSIBLENESS AND RESPONSIVENESS**

The County will conduct a due diligence review of all Bids received to determine if the Bidder is responsible and responsive.

To be responsive a Bidder must submit a Bid that conforms in all material respects to the requirements of this IFB and contains all the information, fully completed attachments and forms, and other documentation required. Bids that are deemed non-responsive will not be considered.

To be responsible, a Bidder must meet the minimum qualification requirements and have the capability to perform the Scope of Services contained in this IFB. Bids submitted by Bidders that are deemed non-responsible will not be considered.

**A.19 SCRUTINIZED COMPANIES FORM**

Pursuant to Florida Statute Section 287.135, as of July 1, 2012, a company that, at the time of submitting a response for a new contract or renewal of an existing contract, is on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to Florida Statute Section 215.473, is ineligible for, and may not submit a response for or enter into or renew a contract with an agency or local governmental entity for goods or services of \$1 million or more. To the extent certification is required, it shall be provided on Attachment E, *Vendor Certification Regarding Scrutinized Companies Lists*.

**A.20 LOCAL PREFERENCE FORM**

To qualify for local preference, a local business, as defined in Section B, Terms and Conditions, must provide certification to County by completing an 'Affidavit as to Local Business' form which

is available for download at [www.mymanatee.org/vendor](http://www.mymanatee.org/vendor). Click on 'Affidavit for Local Business' to access and print the form. Complete, notarize, and return the original with Bidder's Bid. It is the responsibility of the Bidder to ensure accuracy of the affidavit and notify County of any changes affecting its local business status.

#### **A.21 COLLUSION**

Bidder certifies that its Bid is made without prior understanding, agreement, or connection with any other corporation, firm or person submitting a Bid for the same materials, services, supplies, or equipment and is in all respects fair and without collusion or fraud.

Any such violation may result in contract cancellation, return of materials or discontinuation of services and the possible removal of Bidder from participation in future County solicitations for a specified period.

The County reserves the right to disqualify a Bidder during any phase of the solicitation process and terminate for cause any resulting contract upon evidence of collusion with intent to defraud on the part of the Bidder.

#### **A.22 PUBLIC ENTITY CRIMES**

In accordance with Section 287.133, Florida Statutes, a person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases or real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017 for Category Two for a period of 36 months from the date of being placed on the convicted vendor list.

In addition, Manatee County Code of Laws Chapter 2-26 Article V prohibits the award of County contracts to any person or entity who/which has, within the past five years, been convicted of, or admitted to in court or sworn to under oath, a public entity crime or of any environmental law that, in the reasonable opinion of the Purchasing Official, establishes reasonable grounds to believe the person or business entity will not conduct business in a reasonable manner.

To ensure compliance with the foregoing, Manatee County Code of Laws requires all persons or entities desiring to contract with Manatee County to execute and file with the Purchasing Official an affidavit, executed under the pain and penalties of perjury, confirming that person, entity, and any person(s) affiliated with the entity, does not have such a record and is therefore eligible to seek and be awarded business with Manatee County. Bidder must submit a completed *Public Contracting and Environmental Crimes Certification* with its Bid.

#### **A.23 ENVIRONMENTAL SUSTAINABILITY**

Bidders are encouraged to use as many environmentally preferable "green" products, materials, supplies, etc. as possible to promote a safe and healthy environment. Environmentally preferable are products or services that have a reduced adverse effect on the environment.

Bidders shall acknowledge in their Bid if their firm has an environmental sustainability initiative. In addition, the bidder shall submit a summary of their environmental sustainability initiative along with their bid. This information will be used as a determining factor in the award decision when all other evaluative factors, including local preference policies are otherwise equal.

A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime, as that term is defined in Section 287.133, Florida Statutes, may not submit a bid to provide any goods or services to a public entity; may not submit a bid with a public entity for the construction or repair of a public building or public work; may not submit bids on leases of real property to a public entity; may not be awarded or perform Work as a contractor, supplier, Subcontractor, or consultant under an agreement with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, Florida Statutes, for CATEGORY TWO for a period of thirty-six (36) months following the date of being placed on the convicted list.

In addition, the Manatee County Code of Laws prohibits the award of any bid to any person or entity who/which has, within the past five (5) years, been convicted of, or admitted to in court or sworn to under oath, a public entity crime or of any environmental law that, in the reasonable opinion of the Purchasing Official, establishes reasonable grounds to believe the person or business entity will not conduct business in a responsible matter.

To ensure compliance with the foregoing, the Code requires all persons or entities desiring to do business with County to execute and file with the Purchasing Official an affidavit, executed under the pain and penalties of perjury, confirming that person, entity and any person(s) affiliated with the entity, does not have such a record and is therefore eligible to seek and be awarded business with County. In the case of a business entity other than a partnership or a corporation, such affidavit shall be executed by an authorized agent of the entity. In the case of a partnership, such affidavit shall be executed by the general partner(s). A Public Contracting and Environmental Crimes Certification form is attached herein for this purpose.

#### **A.25 DISCOUNTS AND PRICING**

All discounts must be incorporated in the prices contained in the bid and not shown separately. Unless otherwise specified in this IFB, pricing must be all inclusive, including delivery costs. The prices indicated on the Pricing Form shall be the prices used in determining award.

#### **A.26 LOBBYING**

After the issuance of any solicitation, prospective bidders, bidders, or their agents, representatives or persons acting at the request of such bidder shall not contact, communicate with or discuss any matter relating to the IFB with any officer, agent or employee of Manatee County other than the Purchasing Official or the contact identified in this IFB, pursuant to the Manatee County Code of Laws. This prohibition includes copying such persons on all written communication, including email correspondence. This requirement begins with the issuance of an IFB and ends upon execution of the final Agreement or when the IFBC has been cancelled. Violators of this prohibition shall be subject to sanctions as provided in the Manatee County Code of Laws.

**A.27 LICENSES AND PERMITS**

The successful Bidder shall be solely responsible for obtaining all necessary license and permit fees, including, but not limited to, all license fees, permit fees, impact fees, or inspection fees, and responsible for the costs of such fees. Successful Bidder is solely responsible for ensuring all work complies with all Federal, State, local, and Manatee County ordinances, orders, codes, laws, rules, regulations, directives, and guidelines.

**A.28 CONFLICT OF INTEREST**

Manatee County Code of Laws prohibits contracts where conflicts are found to exist. Bidder shall not be currently engaged in, or if awarded, will not become engaged in any obligations, undertakings or contracts that will require Bidder to maintain an adversarial role against the County or that will impair or influence the advice or recommendations it provides to the County.

**A.29 SOLICITATION SCHEDULE**

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

Scheduled Item	Scheduled Date
Non-Mandatory Solicitation Information Conference Public Works Administration Building Conference Room 2, 1022 26th Avenue East Bradenton, FL 34208	February 12, 2018 at 2:00 P.M.
Question and Clarification Deadline	February 16, 2018
Final Addendum Posted	February 23, 2018
Bid Response Due Date and Time	March 14, 2018, no later than 3:00 p.m.
Projected Award	April 2018

**END OF SECTION A**

## **SECTION B MINIMUM QUALIFICATIONS**

Bidders must submit the information and documentation requested that confirms Bidder meets the following minimum qualification requirement(s):

1. Must be registered with the State of Florida, Division of Corporations to do business in Florida.

**No documentation is required. The County will verify registration.**

2. Must possess a current, valid license to do business as a Certified Electrical Contractor or Registered Electrical Contractor by the Florida Department of Business and Professional Regulation (DBPR).

**Provide a copy of Bidder's Certified Electrical Contractor or Registered Electrical Contractor documentation issued by the Florida DBPR.**

3. Must employ a minimum of at least one individual in each work crew who possess a valid International Municipal Signal Association (IMSA), Traffic Signal Level II certification.

**Provide a copy Bidder's employee's Traffic Level II Certification issued by the IMSA.**

4. Must employ a minimum of one individual who possesses a current, valid Intermediate MOT level certification issued by the Florida Department of Transportation (FDOT) (Any other crew members shall be trained and hold a valid MOT (Maintenance of Traffic) certification provided through a FDOT approved training provider. All MOT certifications shall be current and proof of training shall be provided upon request.

**Provide a copy Bidder's employee's MOT certification issued by FDOT.**

5. Has served as the prime contractor for a minimum of five projects for the provision of Traffic Signal and Intelligent Transportation System Maintenance in the past five years since February 1, 2013. Bidder may substitute a combination of a minimum of two projects as the prime contractor plus a minimum of three projects as the subcontractor.

**Provide the below information for the qualifying projects as the prime contractor.**

- a) Name of client
- b) Location (City/State)
- c) Client contact name
- d) Contact phone
- e) Contact email
- f) Service dates (Start/End)
- g) Brief description of the work (2-3 sentences)

If applicable, provide the below information for the qualifying projects as the subcontractor.

- h) Name of prime contractor
- i) Location (City/State)
- j) Prime contractor contact name
- k) Prime contractor contact phone
- l) Prime contractor contact email
- m) Service dates (Start/End)
- n) Brief description of the portion of work performed (2-3 sentences)

6. Bidder Is NOT listed on the Florida State Board of Administration, Scrutinized List of Prohibited Companies found at the SBAFLA website at <http://www.sbafla.com/fsb/FundsWeManage/FRSPensionPlan/PFIA/tabid/1478/ItemId/3354/Default.aspx> (Only for solicitations over \$1M)

**No documentation is required. The County will verify**

7. If Bidder is submitting as a joint venture must file the required documents with the Florida Department of Business and Professional Regulation as required by Florida Statute Section 489.119, prior to the Due Date and Time.

**If Bidder is a joint venture, provide a copy of Bidder's approved filing with the Florida Department of Business and Professional Regulation. If Bidder is not a joint venture, provide a statement to that effect.**

8. Bidder has no reported conflict of interests in relation to this RFP.

**Disclose the name of any officer, director or agent who is also an employee of the County. Disclose the name of any County employee who owns, directly or indirectly, any interest in the Bidder's firm or any of its branches. If no conflicts of interests are present, Bidder must submit a statement to that affect.**

END OF SECTION B

## **SECTION C**

### **SCOPE OF WORK**

#### **C.01 BACKGROUND INFORMATION**

The County is requesting bids from qualified Bidders for the provision of Traffic Signal and Intelligent Transportation (ITS) for the Manatee County Public Works.

Manatee County covers approximately 893 square miles. Public Works maintains 225 traffic signals along State, County and local City streets. Additional devices maintained include fiber optic communication cable, flashing beacons, microwave detection stations, CCTV cameras, and dynamic message signs. The majority of all maintenance work is performed by County staff. Other contracted services may be utilized to assist in performing construction and repairs to traffic signals and devices such as traffic signal inductive loop repair, and fiber optic cable repair. The intent of this maintenance contract is to provide additional constructions and repair service options through contracted services.

#### **C.02 SCOPE**

The Contractor (hereinafter in this Scope of Work referred to as Contractor) shall furnish all necessary labor, tools, licensing, certifications, transportation, materials, cleaning solutions, equipment and incidentals required, including the necessary vehicles and facilities for transportation of all materials necessary to repair, construct, or maintain the County's traffic signal 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 intelligent transportation system components.

Contractor shall perform all work in accordance with the latest edition of the Manatee County Traffic Design Standards, Florida Department of Transportation (FDOT) Design Standards including , current edition of the Manual on Uniform Traffic Control Devices (MUTCD), FDOT Minimum Specifications for Traffic Control Signals and Devices (MSTCSD), National Electric Code (NEC), National Electrical Safety Code (NESC), in compliance with regulations and requirements of the Public Service Commission, and all other applicable laws, rules and ordinances. All material used in the provision of services, unless otherwise indicated or approved by the County, shall be listed on the FDOT Approved Products List (APL) and Qualified Products List (QPL). Contractor shall refer to the Manatee County Traffic Design Standards for additional details regarding materials, installation and repair requirements.

#### **C.03 GENERAL REQUIREMENTS**

Contractor shall provide the following requirements:

1. Maintain all ITS components to the standards established in the FDOT's Maintenance Rating Program. The County will provide Contractor with a listing of all locations and identification numbers of the devices covered under the Agreement prior to commencement of services.
2. Certification that confirms all personnel 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 that employee being assigned to perform work under the Agreement and ensure employees apply these practices to the provision of services to the County.

3. Ensure all personnel are trained in safe operation of the equipment necessary to do the work required under the Agreement. The County shall have the authority to remove from the job site any of the Contractor's personnel acting in a manner as to endanger the safety of Contractor's personnel, the County's personnel, or that of the public.
4. Immediately report to the County, any fatalities or serious injuries to its personnel or members of the public
5. Immediately report to the County any damage of more than \$500 to County property or property adjacent to the work-site resulting from an employee accident during the performance of the work.
6. Within two hours of work order authorization, unless otherwise agreed to by the County, have all materials and equipment needed and be on-site to perform the Work.
7. Maintain all material and equipment storage site(s) outside the right-of-way (ROW) limits on any state or county maintained roadway. Materials may be temporarily stored on the right-of-way, except for medians, for a period not to exceed 24 hours, if approved by the County Representative. 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. The County will not be held liable for any damages, incidents or accidents that may occur as a result of storing material within the ROW.
8. Keep all new parts unopened and in their original containers until the time of installation.
9. Ensure repair equipment conforms to all applicable laws and safety requirements and is equipped with warning lights in accordance with 8-4.1 of the Standard Specifications.
10. 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.
11. Expedite the submittal of shop drawings for the County's approval so as not to delay completion of the work. Any questions Contractor has concerning the work should be reconciled with the County before beginning any work.
12. All lane closures in accordance with FDOT Standard Specifications and only with pre-approval by the County. The Bidder shall not occupy any portion of the roadway during peak traffic periods as may be established by the County. The only exception shall be an emergency.
13. Ensure the crew foreman and the foreman assistant are knowledgeable, experienced, and trained in the maintenance and repair of ITS.
14. All MOT certifications shall be current and proof of training shall be provided upon request.

#### **C.04 TECHNICAL SPECIFICATIONS**

Contractor shall perform work in accordance with any the Technical Specifications, Drawings, and Plans included in this IFB.

#### **C.05 TRAFFIC SIGNAL AND ITS INFRASTRUCTURE**

At the County's direction, Contractor shall provide services relating to traffic signal and ITS infrastructure as follows:

1. Preventative maintenance, construction and repair as directed by the County. Not all tasks to be performed are included within Section E, Pricing Evaluation form. Some work items could fall outside the tasks listed in Section C, Pricing Evaluation form.

2. Replacement of infrastructure (e.g. light poles) damaged by traffic crashes or natural causes within five business days from date the work order is issued. In cases where shop drawings are required for the work order, the Contractor will expedite the preparation of the drawings and order of the material so as not to cause a delay in its replacement. The Contractor shall take immediate action to protect the safety of the public by removing any elements that may cause a hazard. Work also includes the removal and/or proper disposal of the damaged parts and debris, wiring (rewiring), and all hardware, splices, and related parts necessary to make a complete replacement installation.
3. Install all replacement parts as originally designed by the manufacturer or by an alternate method with pre-approval by the County.
4. Ensure any substitutions for replacement of existing damaged equipment are both functionally and aesthetically compatible with the existing components and pre-approved, in writing.
5. Unless otherwise agreed to by the County, the Contractor must be able to start non-emergency work and repairs within 14 calendar days of notification by the County. The normal working hours of the Manatee County Traffic Operations Division are 7:00 a.m. to 3:30 p.m., Monday through Friday, excluding County holidays. If the Contractor desires to work outside of these normal working hours, the Contractor must get prior approval from the County; this request must be made 48 hours prior to the planned work schedule.

#### **C.06 EMERGENCY WORK**

The Contractor shall be respond to all emergencies within two hours of notification including those that occur after normal work hours, on holidays, and weekends. This will include support for emergency events, storms, incidents and accidents which require short and long term remediation and restoration efforts to repair various traffic control devices. Emergency work 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.

The Contractor shall provide a 24-hours per day and 7 days per week (including all holidays) emergency contact technician to receive and respond to verbal and written work requests. This contact shall be available to meet with the County as needed and shall respond within fifteen minutes of being contacted via phone or e-mail. Contractor shall immediately notify the County of any changes to the 24-hour contact phone number or e-mail address. The Contractor shall require the 24-hour contact to continuously be available for direction from the County via cellular telephone, electronic paging device or other methods approved in advance by the County.

The Contractor shall, after being notified, report to the emergency work site location(s) within two hours.

**C.07 TESTING AND INSPECTIONS**

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

The County's representative 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.

**C.08 MAINTENANCE OF TRAFFIC**

The terms Traffic Control Plan (TCP) which includes (MOT) Plan are intended to be synonymous the Maintenance of Traffic

The 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. The Contractor shall maintain all traffic control devices required for the work. The Contractor shall remove maintenance of traffic devices when no longer required at no additional cost to the County.

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

**C.09 EMERGENCIES AT WORK SITE**

In the event of an emergency, the Contractor shall immediately take appropriate action to notify emergency services as needed. The Contractor shall inform the County within 24 hours of any incident or accident which occurs while in transit to and from work location or while performing work.

**C.10 PROJECT SCHEDULES**

The County Project Manager may assign an order of priority to projects. The Contractor will use the priorities given by the County when developing a schedule.

**C.11 MOBILIZATION**

Includes flag persons, cones, signs and temporary maintenance. Only one type of mobilization shall be used in relation to the type of construction involved per work order.

**C.12 WORK AREA - CLEAN-UP REQUIREMENTS**

During the progress of the Work, the 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.

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. The Contractor shall leave the site clean and ready for occupancy by the County at substantial completion of the Work.

The 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 shall be the sole responsibility of the Contractor.

**C.13 MATERIALS**

The Contractor shall provide copies of all delivery tickets, or invoices, for all materials and equipment to be used for the project to the County immediately upon delivery or as soon thereafter as is practical.

**C.14 SAFETY – UTILITY COORDINATION**

The Contractor is responsible for providing for the safety of all Contractor's or subcontractors personnel at the work site.

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

**C.15 CONTAMINATION**

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

The Contractor shall clean up and dispose of any leaked fluids according to all applicable laws, ordinances, rules and regulations within 24-hours of occurrence. All repairs, removal, clean-up and/or disposal shall be at no cost to the County.

**C.16 METHOD OF PAYMENT**

The Work specified herein shall be paid for under the pay items listed below and on Attachment H 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 installation(s) have been completed.

**C.17 WORK TASKS**

**1. 630-2-AB CONDUIT**

Payment for the following items shall 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 the County.

The conduit trench surface shall be stabilized and restored by the Contractor to a maintenance free condition as part of this item.

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.

MEASUREMENT- ABOVEGROUND or BRIDGE MOUNT: Measurement will be for the actual length of conduit used.

Aboveground conduit shall be measured by the Contractor, sketched and documented for submission to the County for payment. Payment shall be based on the actual linear feet installed.

Grounding for all metal conduit runs is included as an incidental cost under the conduit pay items.

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

- |     |  |  |
|-----|--|--|
| A = | Operation  |  |
|     | 1 - Furnish & Install - Underground                |  |
| 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)                                   |  |

## **2. 632- 7- A    SIGNAL CABLE**

This pay item is for traffic signals and traffic control devices only.

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.

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.

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.

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.

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                              |  |

### **3. 634- 4- ABC                      SPAN WIRE ASSEMBLY**

This pay item is for permanent traffic signals and traffic control devices only.

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.

Other Span Type: Do not use for perpendicular, box, or diagonal spans. Complete plan details are required.

Install span wire in accordance with FDOT Design Standards.

#### **OPERATIONS:**

ADJUST: NOT TO BE USED FOR MOT or Temporary Signals. Adjust existing Span Wires, as detailed in the plans.

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.

REMOVE: When the poles are to be removed, "all attachments" are included with the removal cost; NO SEPARATE PAYMENT for removal of span wire.

### **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

### **4. 635- 2- AB                      PULL & SPLICE BOX**

Use in accordance with Section 635 of the FDOT Standard Specifications.

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.

INSTALL (A=3): Item furnished by maintaining agency.

RELOCATE (A=4): Depending on the type of box, current condition, and the extent of the relocation, replacement versus relocation should be considered.

REPAIR: To include full replacement of box to include lid.

**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

**5. 639- 1-ABC**

**ELECTRICAL POWER SERVICE**

This pay item is for electrical power services for signals, lighting, ITS, and other roadway applications.

Installations shall adhere to FDOT Standard Specifications and Design Index 17736, Figure 'B'. Grounding is incidental to power service.

Unless otherwise specified all new/ rebuild electrical power service assemblies shall be mounted on a separate 12ft, Class P-II, pre-stressed concrete pole.

Payment for the following items shall 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.

The pay items provided may make no distinction in voltage or amperage rating.

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.

**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)

## **6. 639- 2- A                      ELECTRICAL SERVICE WIRE**

This pay item is for signals, lighting, ITS, and other roadway applications.

MEASUREMENT: Payment is per length of complete wire run (all conductors included), not per each conductor.

### **639- 2- A                      ELECTRICAL SERVICE WIRE                      LINEAR FEET (LF)**

A = Operation

1 (Furnish & Install)

4 (Relocate)

## **7. 639- 4- A                      EMERGENCY (PORTABLE) GENERATOR / HOUSING**

This Mixed pay item is for installation of generators and generator housings for traffic signals.

Pay Item includes installation, refueling and monitoring of portable inverter/ generators to provide emergency response back-up power to traffic signals.

Pay item includes the installation of generator housings to include concrete foundation, conduit, bonding and grounding, and electrical conductors.

Coordinate procurement of the generator AND generator housing with Manatee County prior to purchase or use.

INSTALL: Coordinate the use of this pay item with the County, to ensure the availability of generators, location for deployment, to review security measures for generator and instructions for returning the unit to Manatee County upon completion of assignment.

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.

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.)

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 the County.

### **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

## **8. 641- 2- AB                      PRESTRESSED CONCRETE POLE**

This pay item is for traffic signals and traffic control devices only.

Pole description, including the type, height, and other details shall be provided by the County upon issuance of work order.

This item is used as detailed on FDOT index 17725 and Index 17764 (pedestrian pedestal).

Poles must be on the FDOT QPL.

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 the County.

Shallow pole removal= depth of 4 feet

Deep pole removal= complete removal

B=9 (Custom Design): For use ONLY when design standard index does NOT apply.

Designer must show complete dimensions for pole. Supporting calculations must be completed for intended signals application. Review specification requirements to determine if notes or modified specs are needed. Payment shall be for the installation of frangible street light base to include the base, attachments, bolts and washers as per plans and standard indexes.

**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

**9. 643-ABB-      STRAIN POLE, WOOD**

This pay item is for traffic signals and traffic control devices only.

Guying of all wood pole installations considered incidental.

REMOVE: All wood poles are to be removed completely. Payment includes the removal of all attachments.

**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)

**10. 646- 1- AB ALUMINUM SIGNALS POLE**

To be used in accordance with FDOT Design Standards, Index Nos. 17764 and 17784.

INSTALL: The install operation should only be used when the item is furnished by the County for installation by the Contractor.

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 the County.

**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)

**11. 649- 3A-BCC STEEL MAST ARM ASSEMBLY**

This pay item is for traffic signals and traffic control devices only.

Supports emergency removal of damaged mast arm assemblies and result of vehicle accidents for force majeure.

Refer to the FDOT PPM (Plans Preparation Manual) for current FDOT Policy on the use of Mast Arms.

Pole description, including the type, height, and other details must be included in the signal plans. Payment includes foundation, as well as all incidentals, per specifications.

When "w/ Luminaire" is used, the County will provide detail luminaire requirements in the plans.

Double Arm with luminaire requires special design (CC=99); not covered by design standard index. Complete calculations are required.

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.

When street name signs are to be located on a signals mast arm, the County shall provide the detailed information to include sign (size, shape, letters, etc.) in the SIGNING plans.

REMOVE: Includes the removal of the foundation, as well as any attachments (vehicular/pedestrian signals, pedestrian detector, lighting, etc.)

**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, Manatee 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 above

**12. 650- 1- AB VEHICULAR TRAFFIC SIGNAL**

Pay item includes standard traffic signal with LED indications, back plates, visors, and all other materials necessary for a complete installation.

INSTALL only: material to be furnished by the County.

REMOVE: No separate payment for signal head removal when the poles are to be removed.

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.

NOTE: USE POLYCARBONATE SIGNAL HOUSING FOR ALL MAST ARM INSTALLATIONS AND ALUMINUM TOP SECTION W/ POLYCARBONATE BOTTOM SECTION SIGNAL HOUSING FOR SPAN WIRE INSTALLATIONS.

**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)

**13.      650- 2-ABB      VEHICULAR SIGNAL AUXILIARIES**

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

This item is intended for repair/replacement/retrofit of existing signal assemblies.

Tabulate items by location in the work request.

**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)

**14.     653- 1- AB                      PEDESTRIAN SIGNAL**

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

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

**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)

**15.     654- 2- AB                      RECTANGULAR RAPID FLASHING BEACON ASSEMBLY (RRFB)**

Refer to the FDOT Traffic Engineering Manual for additional information.

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.

SINGLE DIRECTION: Includes beacons and signs for one direction, with "everything on the post" included.

BACK-TO-BACK: Includes beacons and signs for both directions, with "everything on the post" included.

CABINET: Used for Maintenance activities only. For new installations, this item is included in the complete system.

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.

REPLACE: Maintenance use; Includes replacement of batteries, detectors, signal indications.

**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

**16. 659- 1-ABB MAST ARM, SPAN WIRE, AND POLE MOUNTING ASSEMBLIES**

Pay item includes replacement of damaged traffic signal and sign mounting hardware and adjustable hanger assemblies.

NO SEPARATE PAYMENT will be made for hangers on new signal installations. This item is valid for repair /replacement /retrofit applications only.

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

**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

**17. 660- 2-ABB LOOP ASSEMBLY**

This pay item is for traffic signals and traffic control devices only.

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.

**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)

**18.     660- 3- AB                      VEHICLE DETECTION SYSTEM- MICROWAVE**

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.

**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.

**19.     660- 4- AB[c]                      VEHICLE DETECTION SYSTEM- VIDEO**

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

**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 shall 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

**20. 660- 5- AB VEHICLE DETECTION SYSTEM – WIRELESS**

This item is intended for Wireless Vehicle Detection Systems.

Coordinate with the County regarding equipment specifications, location of detectors, detection zones, and roadside components.

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

**21. 665- 1- AB PEDESTRIAN DETECTOR**

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.

Note: Poles, posts, and pedestals are paid separately under PAY ITEMS 641-, 646-, or 649-.

INSTALL: Detector and Sign to be furnished by the County. Incidental parts to complete the installation to be furnished by the Contractor.

RELOCATE: County shall provide relocation details in the work request.

REMOVE- POLE/PEDESTAL TO REMAIN: All removed equipment shall be returned to the County.

Note- No separate payment for removal of pedestrian detector when pole/pedestal is removed (included with pole removal).

<b>ITEM NO. 665- 1- AB</b>	<b>PEDESTRIAN DETECTOR</b>	<b>EACH (EA)</b>
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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)

## **22.     670- 5-ABC                    TRAFFIC CONTROLLER ASSEMBLY UNIT**

This pay item is for traffic signals and traffic control devices only.

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 Manatee County specifications and standards.

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.

MODIFY: Tech specs required to detail work to be completed. DO NOT USE this pay item for set-up of new controllers.

For Special Type, detail all components.

REMOVE: Includes the removal of the cabinet, all electronics, and base/foundation.

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.

### **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)

## **23.     676- 2-ABB                    ITS CABINET**

This cabinet is used to house traffic control devices and other electronics associated with Intelligent Transportation Systems.

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 Manatee County specifications and standards

**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)

**24. 680-1-ABC SYSTEM CONTROL EQUIPMENT**

Specification currently only includes Adaptive Signal Control System.

Furnish & Install: Use BOTH 687-1-ABC pay items for cabinet equipment (1 each per cabinet) and above ground equipment (1 each per sensor).

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.

ADJUST/MODIFY: Detail work to be completed in the plans or specifications.

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.

**680- 1-ABC System Control Equipment, 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)

**25. 682- 1- AB CCTV CAMERA**

For installations along the roadway or intersections, to provide video of traffic movements. Includes mounting hardware, cabling, and power supply.

CCTV components shall be listed on FDOT's QPL and strictly adhere to Manatee County specifications and standards.

PREVENTIVE MAINTENANCE: To include cleaning lenses, pressurizing domes.

DIAGNOSTIC AND MISC REPAIR: For repair of CCTV unit to identify and correct power, communication, PTZ, dome pressure alarms and other miscellaneous repair items.

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)	

**26. 633- 1-ABC FIBER OPTIC CABLE**

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.

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)

**27. 633- 2- AB FIBER OPTIC CONNECTION**

For use in fiber optic networks where segments of fiber optic cable must be spliced together, or when cables must 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.\*\*

ITEM NO. 633- 2- AB	FIBER OPTIC CONNECTION	EACH (EA)
A= Operation		
	3 (Install)	
B= Type		
	1 (Splice)	
	2 (Termination)	

**28. 633- 3- AB FIBER OPTIC CONNECTION HARDWARE**

For use in fiber optic networks, where segments of cable must be spliced together. Hardware items include incidental hardware and cables for a complete installation. 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.

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)	

**29.     685-1-AB                     UNINTERRUPTABLE POWER SUPPLY**

From Section 685 of the Specifications:

UPS assemblies must 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 must include batteries provided by the UPS manufacturer or in accordance with manufacturer's requirements.

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.

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.

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.

UPS shall be listed on the FDOT APL shall adhere to the County's specifications and be compatible with existing systems.

**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)

**30.     700- 1- AB                     SINGLE POST SIGN**

GROUND MOUNT: Includes the signs, hardware, post, and foundation, per index 11860 and 11861

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.

BRIDGE MOUNT: Includes the signs, hardware, post, and materials necessary to complete the mount, per index 11870.

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.

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 the Contractor, unless otherwise noted in the plans/specs.

**700- 1- AB      SINGLE POST SIGN      ASSY (AS)**

A= Operation

- 1 (Furnish & Install Ground Mount) max wind load 30 ft<sup>2</sup>
- 2 (Furnish & Install Barrier Mount, Index 11871) max wind load area 20 ft<sup>2</sup>\*
- 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 ft<sup>2</sup>) 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 ft<sup>2</sup>) "less than 12"
- 2 (12-20 ft<sup>2</sup>)
- 3 (21-30 ft<sup>2</sup>)
- 4 (31+ ft<sup>2</sup>)
- 5 (21-24 ft<sup>2</sup> back-to-back) \*valid for A=2 only, pending for updated index 11871

8 (In-Street Flexible Post) A=1

**31.      700- 5- AB      INTERNALLY ILLUMINATED SIGN**

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.

Signs shall be internally illuminated using LED. Sign design shall adhere to FDOT and County Standards.

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.

**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

**32.     700- 12- AB                      SIGN BEACON**

Includes ONLY THE BEACON(S), cabinet, controller, and solar panel, when noted. DOES NOT INCLUDE THE SIGN or support structure.

Use this pay item along with single post, multi post, or other signs.

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

**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)

**SPECIAL EQUIPMENT, MATERIALS AND SERVICES**

**33.     M-1-A                      HEAVY EQUIPMENT SERVICES**

The following 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.

This pay item shall not be used in conjunction with any of the above listed pay items.

Minimum rate charge is 4 hours.

**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

**34. M-2-A PROFESSIONAL AND TECHNICAL SERVICES**

The following 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.

This pay item shall not be used in conjunction with any of the above listed pay items.

**Geotechnical testing for foundations:** performed upon request, includes certified, licensed professional inspection and testing. County shall receive full test results in a timely manner.

**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.

**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.

**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.

**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

**C.18 PERMITS/ FEES/ REGULATIONS**

Contractor shall be 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 any OSHA, EPA, and/or federal, state, local rules and regulations. Any conflicts between the specifications and compliance with rules and regulations shall be brought to the attention of the County's Representative and resolved before the Work is to continue.

**END OF SECTION C**

**SECTION D**  
**TERMS AND CONDITIONS**

**D.01 CONTRACT**

The agreement resulting from the acceptance of a bid shall be in the form of a contract and/or a purchase order. This agreement shall be initially for one (1) year with two (2) one (1) year renewal options from date of award.

**D.02 NON-EXCLUSIVE**

Unless otherwise stated in this IFB, successful Bidder understands and agrees that any resulting contractual relationship is non-exclusive and the County reserves the right to contract with more than one Bidder or seek similar or identical goods and services elsewhere if deemed in the best interest of the County.

**D.03 CONFIDENTIALITY OF SECURITY RELATED RECORDS**

- a. Pursuant to Florida Statutes § 119.071(3), the following records (hereinafter referred to collectively as “the Confidential Security Records”) are confidential and exempt from the disclosure requirements of Florida Statutes § 119.07(1):
  1. A Security System Plan or portion thereof for any property owned by or leased to County or any privately owned or leased property held by County.
  2. Building plans, blueprints, schematic drawings, and diagrams, including draft, preliminary, and final formats, which depict the internal layout and structural elements of a building, arena, stadium, water treatment facility, or other structure owned or operated by County.
  3. Building plans, blueprints, schematic drawings, and diagrams, including draft, preliminary, and final formats, which depict the internal layout or structural elements of an attractions and recreation facility, entertainment or resort complex, industrial complex, retail and service development, office development, or hotel or motel development in the possession of, submitted to County.
- b. Successful Bidder agrees that, as provided by Florida Statute, it shall not, as a result of a public records request, or for other reason disclose the contents of, or release or provide copies of the Confidential Security Records to any other party absent the express written authorization of County’s Property Management Director or to comply with a court order requiring such release or disclosure. To the extent Successful Bidder receives a request for such records, it shall immediately contact the County’s designated Contract administrator who shall coordinate County’s response to the request.

**D.04 PURCHASING COOPERATIVE**

It is the intent of this IFB to include requirements and to obtain bids on behalf of Manatee County and reserve the right to authorize entities belonging to the Sarasota Bay Area Chapter of NIGP to obtain purchases utilizing the terms, conditions and pricing of this IFB. This opportunity is also made available to all local and county governments and agencies, public educational institutions, non-profits, and State of Florida agencies, pursuant to their own governing laws, and subject to the agreement of the supplier. Manatee County will not be

financially responsible for the purchases of other entities utilizing this IFB and any resulting contract or purchase order.

#### **D.05 LOCAL PREFERENCE**

Local business is defined as a business legally authorized to engage in the sale of the goods and/or services, and which certifies within its Bid that for at least six (6) full months prior to the advertisement of this IFB it has maintained a physical place of business in Manatee, Desoto, Hardee, Hillsborough, Pinellas or Sarasota County with at least one full-time employee at that location.

Local preference shall not apply to the following categories of agreements:

1. Purchases or agreements which are funded, in whole or in part, by a governmental or other funding entity, where the terms and conditions governing the funds prohibit the preference.
2. Any bid announcement which specifically provides that local preference, as set forth in this section, is suspended due to the unique nature of the goods or services sought, the existence of an emergency as found by either the County Commission or County Administrator, or where such suspension is, in the opinion of the County Attorney, required by law.
3. For a competitive solicitation for construction services in which fifty percent (50%) or more of the cost will be paid from state-appropriated funds which have been appropriated at the time of the competitive solicitation.
4. To qualify for local preference under this section, **a local business must certify to County** by completing an **"Affidavit as to Local Business Form,"** which is available for download at [www.mymanatee.org/vendor](http://www.mymanatee.org/vendor). Click on "Affidavit for Local Business" to access and print the form. Complete, notarize, and mail the notarized original to the following address: Manatee County Procurement Division, 1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205.
5. It is the responsibility of the bidder to ensure accuracy of the Affidavit as to Local Business and notify County of any changes affecting same.

#### **D.06 SUPPLIER REGISTRATION**

Registering your business will provide Manatee County a sourcing opportunity to identify suppliers of needed goods and services and identify local businesses. To register as a supplier with the County go to [www.mymanatee.org/vendor](http://www.mymanatee.org/vendor). For assistance with supplier registration, call the Procurement Division main number at (941) 749-3014. Office hours are Monday – Friday, 8:00 A.M. to 5:00 P.M., excluding County holidays.

#### **D.07 RESERVED RIGHTS**

The County reserves the right to accept or reject any and all Bids, to waive irregularities and technicalities, to request additional information and documentation, and to cancel this solicitation at any time prior to execution of the contract. In the event only one bid is received, the County reserves the right to negotiate with the Bidder. The County reserves the right to award to the lowest responsive and responsible Bidder.

The County reserves the right to conduct an investigation as it deems necessary to determine the ability of any Bidder to perform the work or service requested. Upon request by the County,

Bidder shall provide all such information to the County. Additional information may include, but will not be limited to, current financial statements prepared in accordance with generally accepted accounting practices and certified by an independent CPA or official of Bidder; verification of availability of equipment and personnel; and past performance records.

**D.08 APPLICABLE LAWS**

Bidder must be authorized to transact business in the State of Florida. All applicable laws and regulations of the State of Florida and ordinances and regulations of Manatee County will apply to any resulting contract. This solicitation process will be conducted in accordance with Manatee County Code of Ordinances, Chapter 2-26.

**D.09 TAXES**

Manatee County is exempt from Federal Excise and State Sales Taxes. (F.E.T. Cert. No. 59-78-0089K; Florida Sales Tax Exempt Cert. No. 85-8012622206C-6). Therefore, the Bidder is prohibited from delineating a separate line item in its bid for any sales or service taxes.

The Successful Bidder will be responsible for the payment of taxes of any kind, including but not limited to sales, consumer, use, and other similar taxes payable on account of the work performed and/or materials furnished under the award in accordance with all applicable laws and regulations.

**D.10 CODE OF ETHICS**

With respect to this and any bid, if a Bidder violates, directly or indirectly, the ethics provisions of the Manatee County Procurement Code and/or Florida criminal or civil laws related to public procurement, including but not limited to Florida Statutes Chapter 112, Part II, Code of Ethics for Public Officers and Employees, such Bidder will be ineligible for award to perform the work described in this IFB, and may be disqualified from submitting on any future quote or bid requests to supply goods or services to Manatee County. By submitting a bid, the Bidder represents to County that all statements made and materials submitted are truthful, with no relevant facts withheld.

**D.11 AMERICANS WITH DISABILITIES**

Manatee County does not discriminate upon the basis of any individual's disability status. This non-discrimination policy involves every aspect of County's functions including one's access to participation, employment, or treatment in its programs or activities. Anyone requiring reasonable accommodation for an information conference or bid opening should contact the person named on the cover page of this document at least twenty-four (24) hours in advance of either activity.

**D.12 EQUAL EMPLOYMENT OPPORTUNITY**

In accordance with Title VI of the Civil Rights Act of 1964, Title 15, Part 8 of the Code of Federal Regulations and the Civil Rights Act of 1992, Manatee County hereby notifies all Bidders that it will affirmatively ensure minority business enterprises are afforded full opportunity to participate in response to this Request For Bid and will not be discriminated against on the grounds of race, color, national origin, religion, sex, age, handicap, or marital status in consideration of award.

**D.13 MINORITY AND/OR DISADVANTAGED BUSINESS ENTERPRISES**

The State of Florida Office of Supplier Diversity provides the certification process and maintains the database of certified MBE/DBE firms. Additional information may be obtained at <http://www.osd.dms.state.fl.us/iframe.htm> or by calling (850) 487-0915.

**D.14 QUALITY**

Unless otherwise specifically provided in the IFBC documents, all goods provided shall be new, the latest make or model, of the best quality, of the highest grade of workmanship, and of the most suitable for the purpose intended.

Unless otherwise specifically provided in the IFBC documents, reference to any equipment, material, article or patented process, by trade name, brand name, make or catalog number, shall be regarded as establishing a standard of quality and shall not be construed as limiting competition.

**D.15 DELIVERY**

Unless otherwise specified, all prices shall include all delivery cost (FOB Destination).

**D.16 AUTHORIZED PRODUCT REPRESENTATION**

Bidder, by virtue of submitting the name and specifications of a manufacturer's product, will be required to furnish the named manufacturer's product. Failure to do so may, in the County's sole discretion, be deemed a material breach of the resulting agreement and shall constitute grounds for County's immediate termination of the resulting agreement.

**D.17 ROYALTIES AND PATENTS**

The successful Bidder shall pay all royalties and license fees for equipment or processes in conjunction with the equipment and/or services being furnished. Successful Bidder shall defend all suits or claims for infringement of any patent, trademark or copyright, and shall save County harmless from loss on account thereof, including costs and attorney's fees.

**D.18 PUBLIC RECORDS**

Upon receipt, all inquiries and responses to inquiries related to this Bid become "Public Records", and shall be subject to public disclosure consistent with Florida Statute, Chapter 119.

Bids become subject to disclosure thirty (30) days after the opening or when notice of intent to award is made, whichever occurs first, as provided by Florida Statutes § 119.071(1)(b).

If County rejects all Bids and concurrently notices its intent to reissue the solicitation, the rejected Bids are exempt from public disclosure until such time the County provides notice of an intended decision concerning the reissued solicitation or until County withdraws the reissued solicitation. A bid is not exempt for longer than twelve (12) months after the initial notice of rejection of all Bids.

Pursuant to Florida Statute 119.0701, to the extent Successful Bidder is performing services on behalf of County, Successful Bidder must:

1. Keep and maintain public records required by public agency to perform the service. That information and data it manages as part of the services may be public record in accordance with Chapter 119, Florida Statutes and Manatee County public record policies. Bidder agrees, prior to providing goods/services, it will implement policies and procedures, which are subject to approval by County, to maintain, produce, secure, and retain public records in accordance with applicable laws, regulations, and County policies including but not limited to Section 119.0701, Florida Statutes.
2. Upon request from the public agency's custodian of public records, provide the public agency 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 Florida Statutes, Chapter 119, or as otherwise provided by law.
3. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract if the Successful Bidder does not transfer the records to the public agency.
4. Upon completion of the contract, transfer, at no cost, to the public agency all public records in possession of contractor or keep and maintain public records required by the public agency to perform the service. If the Successful Bidder transfers all public records to County upon completion of the contract, the Successful Bidder shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Successful Bidder keeps and maintains public records upon completion of the contract, the Successful Bidder 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 THE SUCCESSFUL BIDDER HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO ITS DUTY TO PROVIDE PUBLIC RECORDS RELATING TO ANY RESULTING CONTRACT, CONTACT COUNTY'S CUSTODIAN OF PUBLIC RECORDS AT: (941) 742-5845, DEBBIE.SCACCIAOCE@MYMANATEE.ORG, ATTN: RECORDS MANAGER, 1112 MANATEE AVENUE WEST, BRADENTON, FL 34205.**

#### **D.19 TRADE SECRETS**

Manatee County is subject to Chapter 119, Florida Statutes. Therefore, all documents, materials, and data submitted as part of a Bid in response to a Request for Bid are governed by the disclosure, exemption and confidentiality provisions relating to public records in Florida Statutes.

Except for materials that are 'trade secrets' as defined by Chapter 812, Florida Statutes, ownership of all documents, materials and data submitted as part of a Bid in response to the Request for Bid shall belong exclusively to County.

To the extent that Bidder desires to maintain the confidentiality of materials that constitute trade secrets pursuant to Florida law, trade secret material submitted must be segregated from the portions of the Bid that are not declared as trade secret. In addition, Bidder shall cite, for each trade secret claimed, the Florida Statute number which supports the designation. Further, Bidder shall offer a brief written explanation as to why the cited Statute is applicable to the information claimed as trade secret. Additionally, Bidder shall provide a hard copy of its Bid that redacts all information designated as trade secret.

In conjunction with trade secret designation, Bidder acknowledges and agrees that:

- a. Trade secret requests made after the opening will not be considered. However, County reserves the right to clarify the Bidders request for trade secret at any time; and
- b. County and its officials, employees, agents, and representatives are hereby granted full rights to access, view, consider, and discuss the information designated as trade secret throughout the evaluation process and until final execution of any awarded purchase order or contract; and
- c. That after notice from County that a public records request has been made pursuant to Bidder's bid, the Bidder at its sole expense, shall be responsible for defending its determination that submitted material is a trade secret and is not subject to disclosure. Action by Bidder in response to notice from the County shall be taken immediately, but no later than 10 calendar days from the date of notification or Bidder will be deemed to have waived the trade secret designation of the materials.

Notwithstanding any other provision in this solicitation, designation of the entire bid as 'trade secret', 'proprietary', or 'confidential' is not permitted and may result in a determination that the Bid is non-responsive.

#### **D.20 ePAYABLES**

Manatee County Board of County Commissioners and the Manatee County Clerk of the Circuit Court have partnered to offer the ePayables program, which allows payments to be made to vendors via credit cards.

The Clerk of the Circuit Court will issue a unique credit card number to vendor after goods are delivered or services rendered, vendors submit invoices to the remit to address on the purchase order. When payments are authorized, an email notification is sent to the vendor. The email notification includes the invoice number(s), invoice date(s), and amount of payment. There is no cost for vendors to participate in this program; however, there may be a charge by the company that processes your credit card transactions.

If Bidder is interested in participating in this program, complete the ePayables Application attached herein and return the completed form via email to [lori.bryan@manateeclerk.com](mailto:lori.bryan@manateeclerk.com).

#### **B.21 FUNDING**

This IFB is subject to the appropriation of funds in an amount sufficient to allow continuation of the County's performance in accordance with the terms and conditions herein. The County shall provide prompt written notice to the successful Bidder that sufficient funds have not been appropriated to continue its full and faithful performance under the terms of this IFB, and shall,

effective thirty (30) days after giving such notice or upon the expiration of the time for which funds were appropriated whichever occurs first, be thereafter released of all further obligations in any way related to this IFB.

**D.22 CONDITIONS FOR EMERGENCY EVENTS**

A critical challenge in emergency situations is to obtain essential supplies, goods and equipment in the affected areas. It is the County's priority that public property, life, safety, and health are protected during any emergency as declared by the State and/or the County. Therefore, before, during and after a disaster, hurricane, flood, act of terrorism, or other public emergency event, whether natural or man-made, successful Bidder shall make delivery to the County of the goods and services in this IFB its first-priority.

Successful Bidder will ensure that contract prices are billed to the County for deliveries as part of an emergency event. Upon award of a contract, successful Bidder shall furnish an email and phone number in which successful Bidder can be contacted twenty-four (24) hours per day, seven days per week for emergency services.

**D.23 TERMINATION**

The County, at its sole discretion, reserves the right to terminate any contract entered into pursuant to this IFB with or without cause immediately upon providing written notice to the successful Bidder. Upon receipt of such notice, the successful Bidder shall not incur any additional costs under the contract. The County shall be liable only for reasonable costs incurred by the successful Bidder prior to the date of the notice of termination.

The County reserves the right to terminate any contract entered into pursuant to this IFB, in part or in whole, or place the successful Bidder on probation in the event it fails to perform in accordance with the terms and conditions stated herein. Notification will be made by providing written notice of such failure or default and by specifying a reasonable time period within which the successful Bidder must cure any such failure to perform or default. If the successful Bidder fails to cure the default within the time specified, the County may then terminate the subject contract by providing written notice to the successful Bidder. The County further reserves the right to suspend or debar the successful Bidder in accordance with the appropriate County ordinances and/or policies. In the event of termination for default, the County may procure the required goods and/or services from any source and use any method deemed in its best interest.

**D.25 PRECEDENCE**

Statements contained in the Scope of Work or Bid Summary Sections of this IFB, which vary from the information contained in this Section D, shall have precedence.

**D.26 E-VERIFY**

Prior to the employment of any person under this contract, the Successful Bidder shall utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of (a) all persons employed during the contract term by the Successful Bidder to perform employment duties within Florida and (b) all persons, including subcontractors, assigned by the Successful Bidder to perform work pursuant to the contract with Manatee County. For more information on this process, please refer to United States Citizenship and Immigration Service site at: <http://www.uscis.gov/>.

Only those individuals determined eligible to work in the United States shall be employed under this contract.

By submission of a bid in response to this IFB, the successful Bidder commits that all employees and subcontractors will undergo e-verification before placement on this contract.

The successful Bidder shall maintain sole responsibility for the actions of its employees and subcontractors. For the life of the contract, all employees and new employees brought in after contract award shall be verified under the same requirement stated above.

#### **D.27 SUBCONTRACTORS**

The successful bidder will obtain prior written approval from the County for any subcontractor(s) and the work they will perform. A subcontractor is defined as any entity performing work within the scope of the project who is not an employee of the successful bidder.

Bidders subcontracting any portion of the work shall include a list of subcontractors along with their bid. The list shall include: name and address of subcontractor, type of work to be performed and the percent of the contract amount to be subcontracted.

Prior to the employment of any person under this contract, the successful bidder shall utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of (a) all persons employed during the contract term by the successful bidder to perform employment duties within Florida and (b) all persons, including subcontractors, assigned by the successful bidder to perform work pursuant to the contract with Manatee County. For more information on this process, please refer to United States Citizenship and Immigration Service site at: <http://www.uscis.gov/>.

**Only those individuals determined eligible to work within the United States shall be employed to perform the work specified in this IFB.**

By submission of a Bid in response to this IFB, the successful bidder commits that all employees and subcontractors will undergo e-verification before placement on this contract.

If County has reasonable objection to any subcontractor, the County may request the successful bidder to submit an acceptable substitute without an increase in contract sum or contract time.

If successful Bidder declines to make any such substitution, the County may award the resulting agreement to the next lowest qualified bidder that proposes to use acceptable subcontractors, who County does not make written objection to. In the event the successful bidder declines to make any such substitution post award, the County may exercise its right to terminate the agreement.

The successful Bidder shall maintain sole responsibility for the actions of its employees and subcontractors. New employees brought in after contract award shall follow the same requirement stated above for the life of the contract.

**D.28 RECOMMENDATION FOR AWARD**

Upon successful completion of negotiations, a recommendation for award to the successful Bidder(s) will be presented for approval per County ordinances, policies and procedures.

**END SECTION D**

## **Bid Forms**

(To be completed and returned with Bid)

**ATTACHMENT A  
ACKNOWLEDGMENT OF ADDENDA**

The undersigned acknowledges receipt of the following addenda:

Addendum No. _____	Date Received:
Addendum No. _____	Date Received:
Addendum No. _____	Date Received:
Addendum No. _____	Date Received:
Addendum No. _____	Date Received:
Addendum No. _____	Date Received:
Addendum No. _____	Date Received:
Addendum No. _____	Date Received:
Addendum No. _____	Date Received:

Print or type Bidder's information below:

_____ Name of Bidder	_____ Telephone Number	
_____ Street Address	_____ City/State/Zip	
_____ Email Address	_____ Website Address	
_____ Print Name & Title of Authorized Officer	_____ Signature of Authorized Official	_____ Date

Bidder must fully execute and return this form with its Bid.

**ATTACHMENT B  
BID SIGNATURE FORM**

The undersigned represents that:

- (1) By signing the bid, that he/she has the authority and approval of the legal entity purporting to submit the bid and any additional documentation which may be required such as the Joint Venture Agreement or Joint Venture Affidavit, if applicable;
- (2) All facts and responses set forth in the bid are true and correct;
- (3) If the Bidder is selected by County to negotiate an agreement, that Bidder's negotiators will negotiate in good faith to establish an agreement to provide the services described in this IFB;
- (4) By submitting a bid and signing below, the Bidder agrees to all terms and conditions in this IFB, which incorporates all addenda, appendices, exhibits, and attachments, in its entirety, and is prepared to sign the Contract as written. The Respondent understands that if it submits exceptions to the Contract in its Response, the Respondent's Response may be determined non-responsive; and
- (5) The Bidder, which includes all companies included in a partnership or joint venture, is not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List.

Print or type Bidder's information below:

Name of Bidder	Telephone Number
Street Address	City/State/Zip
Email Address	Web Address
Print Name & Title of Authorized Officer	Signature of Authorized Officer      Date

Bidder must fully execute and return this form with its Bid.

**ATTACHMENT C**  
**PUBLIC CONTRACTING AND ENVIRONMENTAL CRIMES CERTIFICATION**

SWORN STATEMENT PURSUANT TO SECTION 2-26 ARTICLE V,  
MANATEE COUNTY PROCUREMENT CODE

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

This sworn statement is submitted to Manatee County by \_\_\_\_\_:  
[print individual's name and title]

For \_\_\_\_\_  
[name of entity submitting sworn statement]

whose business address is: \_\_\_\_\_

and (if applicable) its Federal Employer Identification Number (FEIN) is \_\_\_\_\_. If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement:

I understand that no person or entity shall be awarded or receive a county contract for public improvements, procurement of goods or services (including professional services) or a county lease, franchise, concession or management agreement, or shall receive a grant of county monies unless such person or entity has submitted a written certification to County that it has not:

(1) been convicted of bribery or attempting to bribe a public officer or employee of Manatee County, the State of Florida, or any other public entity, including, but not limited to the Government of the United States, any state, or any local government authority in the United States, in that officer's or employee's official capacity; or

(2) been convicted of an agreement or collusion among Bidders or prospective Bidders in restraint of freedom of competition, by agreement to bid a fixed price, or otherwise; or

(3) been convicted of a violation of an environmental law that, in the sole opinion of the County's Purchasing Director, reflects negatively upon the ability of the person or entity to conduct business in a responsible manner; or

(4) made an admission of guilt of such conduct described in items (1), (2) or (3) above, which is a matter of record, but has not been prosecuted for such conduct, or has made an admission of guilt of such conduct, which is a matter of record, pursuant to formal prosecution. An admission of guilt shall be construed to include a plea of nolo contendere; or

(5) where an officer, official, agent or employee of a business entity has been convicted of or has admitted guilt to any of the crimes set forth above on behalf of such and entity and pursuant to the direction or authorization of an official thereof (including the person committing the offense, if he is an official of the business entity), the business shall be chargeable with the conduct herein above set forth. A business entity shall be chargeable with the conduct of an affiliated entity, whether wholly owned, partially owned, or one which has common ownership or a common Board of Directors.

For purposes of this Form, business entities are affiliated if, directly or indirectly, one business entity controls or has the power to control another business entity, or if an individual or group of individuals controls or has the power to control both entities. Indicia of control shall include, without limitation, interlocking management or ownership, identity of interests amount family members, shared organization of a business entity following the ineligibility of a business entity under this Article, or using substantially the same management, ownership or principles as the ineligible entity.

Any person or entity who claims that this Article is inapplicable to him/her/it because a conviction or judgment has been reversed by a court of competent jurisdiction, shall prove the same with documentation satisfactory to Manatee County's Purchasing Official. Upon presentation of such satisfactory proof, the person or entity shall be allowed to contract with Manatee County.

I UNDERSTAND THAT ANY CONTRACT OR BUSINESS TRANSACTION SHALL PROVIDE FOR SUSPENSION OF PAYMENTS, OR TERMINATION, OR BOTH, IF THE PROCUREMENT DIVISION OR THE COUNTY ADMINISTRATOR DETERMINES THAT **SUCH PERSON OR ENTITY HAS MADE FALSE CERTIFICATION.**

\_\_\_\_\_  
[Signature]

STATE OF FLORIDA  
COUNTY OF \_\_\_\_\_

Sworn to and subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_, 201\_\_\_\_ by\_\_\_\_\_.

Personally known \_\_\_\_\_ OR Produced identification \_\_\_\_\_  
[Type of identification]

\_\_\_\_\_  
Notary Public Signature

My commission expires\_\_\_\_\_.

\_\_\_\_\_  
[Print, type or stamp Commissioned name of Notary Public]

**Signatory Requirement** - In the case of a business entity other than a partnership or a corporation, this affidavit shall be executed by an authorized agent of the entity. In the case of a partnership, this affidavit shall be executed by the general partner(s). In the case of a corporation, this affidavit shall be executed by the corporate president.

Bidder must fully execute and return this form with its Bid.

**ATTACHMENT D  
INSURANCE REQUIREMENTS**

Work under the resulting Agreement cannot commence until all insurance coverages indicated herein have been obtained. The cost for insurance coverages is the sole responsibility of successful Proposer. The Successful Bidder shall obtain and submit to the Procurement Division within ten (10) calendar days from the date of notice of intent to award, proof the minimum amounts of insurance identified below. Proof should be submitted on a standard ACORD form and be inclusive of any amounts provided by an umbrella or excess policy.

STANDARD INSURANCES	REQUIRED LIMITS
<b>1. <input checked="" type="checkbox"/> Automobile Liability:</b>	Coverage must be afforded under a per occurrence policy form including coverage for all owned, hired and non-owned vehicles. \$ <u>1,000,000</u> combined single limit; OR \$ <u>500,000</u> bodily injury and <u>\$ 500,000</u> property damage.    \$10,000 Personal Injury Protection (No Fault) \$ _____ Hired, Non-Owned Liability \$10,000 Medical Payments. <i>This policy shall contain severability of interests' provisions.</i>
<b>2. <input checked="" type="checkbox"/> Commercial General Liability: (Occurrence Form - patterned after the current ISO form)</b>	Coverage shall be afforded under a per occurrence policy form. \$ <u>1,000,000</u> single limit per occurrence; \$ <u>2,000,000</u> aggregate \$ _____ Products/Completed Operations Aggregate \$ <u>1,000,000</u> Personal and Advertising Injury Liability \$ <u>1 00,000</u> Fire Damage Liability \$ <u>100,000</u> Medical Expense, and \$ _____ Third Party Property Damage. \$ _____ Project Specific Aggregate (Required on projects valued at over \$10,000,000) <i>This policy shall contain severability of interests' provisions.</i>
<b>3. <input checked="" type="checkbox"/> Employer's Liability</b>	\$ <u>100,000</u> each accident \$ _____ disease each employee \$ _____ disease policy limit
<b>4. <input checked="" type="checkbox"/> Worker's Compensation</b> <input type="checkbox"/> US Longshoremen & Harbor Workers Act coverage <input type="checkbox"/> Jones Act coverage	Statutory Limits of Chapter 440, Florida Statutes, and all Federal Government Statutory Limits & Requirements.  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.

	<p>Note: For 'leased employees' retained for any part of the project or service, the employee leasing agency shall provide evidence of workers' compensation coverage and employee liability coverage for all personnel on the worksite and in compliance with the above requirements.</p> <p>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.</p>
OTHER INSURANCES	REQUIRED LIMITS
<p>5. <input type="checkbox"/> <b>Aircraft Liability</b></p> <p>6. <input type="checkbox"/> <b>Installation Floater</b></p> <p>7. <input type="checkbox"/> <b>Pollution Liability</b></p> <p>8. <input type="checkbox"/> <b>Professional Liability and/or Errors and Omissions (E&amp;O) Liability</b></p> <p>9. <input type="checkbox"/> <b>Builder's Risk Insurance</b></p>	<p>\$ _____ per occurrence</p> <p>Coverage shall be carried in limits of not less than \$5,000,000 each occurrence if applicable to the completion of the services under this Agreement.</p> <p>If the resulting Agreement <b>does not</b> include construction of or additions to above ground building or structures, but does involve the installation of machinery or equipment, Successful Proposer shall provide an "<b>Installation Floater</b>" with the minimum amount of insurance to be 100% of the value of such addition(s), building(s), or structure(s).</p> <p>\$ _____ per occurrence</p> <p>Professional (E&amp;O) Liability shall be afforded for the Bodily Injury and Property Damage for not less than \$_____ Each Claim, \$1,000,000 Policy Aggregate.</p> <p>When this 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, the following insurance coverage must be afforded:</p> <p>Coverage Form: Completed Value, All Risk (Roadways/Buildings and Machinery/Equipment) in an amount equal to 100% of the value upon completion or the value of the equipment to be installed.</p> <p>Coverage should 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</p>

	<p>coverage, and Waiver of Occupancy Clause Endorsement, where applicable.</p> <p>The policy shall not carry a self-insured retention/deductible greater than \$&lt;10,000&gt;.</p>
<p>10. <input type="checkbox"/> <b>Cyber Liability</b></p>	<p>Coverage must comply with Florida Statute 501.171 and must be afforded under a per occurrence policy form for limits not less than</p> <p>\$_____ Security Breach Liability</p> <p>\$_____ Security Breach Expense (each occurrence)</p> <p>\$_____ Security Breach Expense (aggregate)</p> <p>\$_____ Replacement or Restoration of Electronic Data</p> <p>\$_____ Extortion Threats</p> <p>\$_____ Business Income and Extra Expense</p> <p>\$_____ Public Relations Expense</p> <p>The policy must not carry a self-insured retention/deductible greater than \$_____.</p>
<p>11. <input type="checkbox"/> <b>Hazardous Materials Insurances (as noted)</b></p>	<p>Hazardous materials include all materials and substances that are currently designated or defined as hazardous by Florida or Federal law or rules of regulations.</p> <p><input type="checkbox"/> <b><i>Pollution Liability</i></b></p> <p>Coverage must be afforded under a per occurrence policy form for limits not less than the value of the contract, subject to a \$_____ minimum, for Bodily Injury and Property Damage to include sudden and gradual release, each claim and aggregate.</p> <p><input type="checkbox"/> <b><i>Asbestos Liability (If handling within scope of Contract)</i></b></p> <p>Coverage must be afforded under a per occurrence policy form for limits not less than the value of the contract, subject to a \$_____ minimum, for Bodily Injury and Property Damage to include sudden and gradual release, each claim and aggregate.</p> <p><input type="checkbox"/> <b><i>Disposal</i></b></p> <p>Coverage must be afforded under a per occurrence policy form for limits not less than the value of the contract, subject to a \$_____ minimum, for Liability for Sudden and Accidental Occurrences, each claim and an aggregate and not less than</p>

	<p>the value of the contract, subject to a \$_____ minimum, for Liability for Non-Sudden Occurrences, each claim and aggregate.</p> <p><input type="checkbox"/> <b><i>Hazardous Waste Transportation Insurance</i></b></p> <p>Coverage must be afforded under a per occurrence policy form for limits not less than the value of the contract, subject to a \$_____ minimum, per accident.</p> <p>The Successful Proposer 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.</p> <p>The Successful Proposer must also provide the EPA Identification Number.</p>
12. <input type="checkbox"/> <b>Liquor Liability</b>	<p>Coverage must be afforded under a per occurrence policy form for limits not less than</p> <p>\$_____ Each Occurrence and Aggregate.</p>
13. <input type="checkbox"/> <b>Garage Keeper's Liability</b>	<p>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.</p> <p>Coverage must be afforded under a per occurrence policy form for limits not less than equal to the full replacement value of the lot or garage</p>
14. <input type="checkbox"/> <b>Bailee's Customer</b>	<p>Coverage must be afforded under a per occurrence policy form for limits not less than equal to the full replacement value of the lot or garage.</p>
15. <input type="checkbox"/> <b>Watercraft</b>	<p>\$_____ per occurrence</p>

Approved by Risk: \_\_\_\_\_

Date: \_\_\_\_\_

## **INSURANCE REQUIREMENTS**

### **I. THE POLICIES BELOW ARE TO CONTAIN, OR BE ENDORSED TO CONTAIN, THE FOLLOWING PROVISIONS:**

#### **1. 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 Successful Proposer, his agents, representatives, and employees; products and completed operations of the Successful Proposer; or automobiles owned, leased, hired or borrowed by the Successful Proposer. 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 Successful Proposer 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 Successful Proposer'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 Successful Proposer's insurance and shall be non-contributory.
- c. The insurance policies must be on an occurrence form.

#### **2. 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 Successful Proposer for the County.

### **II. GENERAL INSURANCE PROVISIONS APPLICABLE TO ALL POLICIES:**

1. 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, Successful Proposer 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.
2. 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.

In addition, when requested in writing from the County, Successful Proposer 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**

3. The project's solicitation number and title shall be listed on each certificate.
  4. Successful Proposer 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.
  5. Successful Proposer agrees that should at any time Successful Proposer fail to meet or maintain the required insurance coverage(s) as set forth herein, the County may terminate this contract.
  6. The Successful Proposer waives all subrogation rights against Manatee 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.
  7. The Successful Proposer has sole responsibility for all insurance premiums and policy deductibles.
  8. It is the Successful Proposer's responsibility to ensure that his agents, representatives and subcontractors comply with the insurance requirements set forth herein. Successful Proposer shall include his agents, representatives, and subcontractors working on the project or at the worksite as insured under its policies, or Successful Proposer 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.
  9. 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 Successful Proposer's deductible or self-insured retention and to require that it be reduced or eliminated.
- III. Successful Proposer 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 Successful Proposer's obligation to provide and maintain the insurance coverage specified.

- IV.** The enclosed Hold Harmless Agreement shall be signed by the Successful Proposer and shall become a part of the contract.
- V.** Successful Proposer 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.
- VI.** No award shall be made until the Procurement Division has received the Certificate of Insurance and Hold Harmless Agreement in accordance with this section.

[Remainder of page intentionally left blank]

**ATTACHMENT E  
INSURANCE STATEMENT**

**THE UNDERSIGNED** has read and understands the aforementioned insurance requirements applicable to any contract resulting from this solicitation and shall provide the insurances required by this Attachment within ten (10) days from the date of Notice of Intent to Award.

Proposer Name: \_\_\_\_\_ Date: \_\_\_\_\_

Signature  
(Authorized  
Official): \_\_\_\_\_

Printed Name/Title: \_\_\_\_\_

Insurance Agency: \_\_\_\_\_

Agent Name: \_\_\_\_\_ Agent Phone: \_\_\_\_\_

**Return this fully executed form with your bid.**

**ATTACHMENT F  
CONFLICT OF INTEREST AFFIDAVIT**

The award of this contract is subject to the provisions of Manatee County Code of Laws. Bidder must disclose within its Bid: the name of any officer, director, or agent who is also an employee of Manatee County. Furthermore, all Bidders must disclose the name of any County employee who owns, directly or indirectly, an interest of more than five percent (5%) in the Bidder's firm or any of its branches.

By signing below, Bidder confirms that it is not currently engaged or will not become engaged in any obligations, undertakings or contracts that will require the firm to maintain an adversarial role against the County or that will impair or influence the advice or recommendations it provides to the County.

Please check one of the following statements and attach additional documentation if necessary:

\_\_\_\_\_ To the best of our knowledge, the undersigned firm has no potential conflict of interest for this IFB.

\_\_\_\_\_ The undersigned firm, by attachment to this form, submits information which may be a potential conflict of interest for this IFB.

Acknowledged and attested to by:

\_\_\_\_\_  
Firm Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Name and Title (Print or Type)

\_\_\_\_\_  
Date

**Return this fully executed form with your bid.**

**ATTACHMENT G**  
**Scrutinized Company Certification**

This certification is required pursuant to Florida State Statute Section 287.135.

As of July 1, 2011, a company that, at the time of bidding or submitting a proposal for a new contract or renewal of an existing contract, is on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List is ineligible for, and may not bid on, submit a proposal for, enter into, or renew a contract with an agency or local governmental entity for goods or services **of \$1 million or more**.

**Bidder must fully complete and return this form with its Bid.**

Company \_\_\_\_\_ FID or EIN No. \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

I, \_\_\_\_\_, as a representative of \_\_\_\_\_  
certify and affirm that this company is not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List.

\_\_\_\_\_  
Signature Title

\_\_\_\_\_  
Printed Name Date

**ATTACHMENT H  
PRICING FORM**

1. Bidders must complete **Attachment H, Micro Soft Excel® spreadsheet, which is posted on the Procurement webpage of the County's website with this solicitation and available for download. Bidder must provide hard copies and electronic copies of the Pricing Form per the requirements of this ITB with its Bid.**
2. Provide a firm, fixed cost. Costs must be all-inclusive to provide the goods and/or services.

# ATTACHEMENT H - PRICING EVALUATION FORM

## Traffic Signal and Intelligent Transportation Systems Maintenance

IFB No. 18-R068262GD Bid Form

1/24/2018

**NOTE:**

All work shall be administered in accordance with the latest edition of the Manatee County Traffic Design Standards, 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).

All material (unless otherwise indicated or approved) shall be listed on the FDOT Approved Products List (APL) and Qualified Products List (QPL). Refer to the Manatee County Traffic Design Standards for additional details regarding materials, installation and repair requirements.

ITEM	ACTIVITY		DESCRIPTION	PAY ITEM	DESIGN REF/ FDOT INDEX	NOTE	UNIT OF MEASURE	UNIT BID PRICE	X	MULTIPLIER	=	EXTENDED BID PRICE
	F/I = Furnish and Install	F/O = Furnish Only										
		I/O = Install Only										
		M/E = Modify Existing										
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		X	500	=	\$ -
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		X	500	=	\$ -
3	F/I	furnish & install	Conduit by Hand Digging	630-2-11		2" Conduit - 1 Run See FDOT Standard Specification - Section 630 Conduit	LF		X	500	=	\$ -
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		X	500	=	\$ -
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		X	1,000	=	\$ -
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		X	1,000	=	\$ -
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		X	1,000	=	\$ -
8	F/I	furnish & install	Conduit – jack and bore	630-2-13		2" Conduit - 1 Run See FDOT Standard Specification - Section 630 Conduit	LF		X	100	=	\$ -
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		X	100	=	\$ -

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		X	100	=	\$	-
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		X	100	=	\$	-
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		X	3	=	\$	-
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		X	300	=	\$	-
SPAN WIRE ASSEMBLIES													
14	F/I	furnish/ install	Span Wire Assembly - Perpendicular	634-4-151	17727	Perpendicular - 2 Point Attachement Section 634 of FDOT Standard Specifications & MSTCSD Section A634.	PI		X	1	=	\$	-
15	F/I	furnish/ install	Span Wire Assembly - Diagonal	634-4-152		Diagonal - 2 Point Attachement Section 634 of FDOT Standard Specifications & MSTCSD Section A634.							
16	F/I	furnish/ install	Span Wire Assembly - Box	634-4-153		Box Span - 2 Point Attachement Section 634 of FDOT Standard Specifications & MSTCSD Section A634.	PI		X	1	=	\$	-
17	M/E	remove	Span Wire Assembly - Remove	634-4-600		Section 634 of FDOT Standard Specifications & MSTCSD Section A635.	PI		X	1	=	\$	-
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 resecurig signal cable end to end.	EA		X	3	=	\$	-
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		X	5	=	\$	-
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		X	2	=	\$	-
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		X	5	=	\$	-

22	M/E	remove and 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		X	5	=	\$	-
POWER SERVICE													
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		X	2	=	\$	-
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		X	2	=	\$	-
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		X	2	=	\$	-
26	M/E	remove and 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		X	5	=	\$	-
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		X	5	=	\$	-
28	M/E	Modify Existing	Electrical Service Wire - Relocate	639-2-4	NEC & NESC	Relocate existing eletrical 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		X	500	=	\$	-
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		X	500	=	\$	-
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 incidental	EA		X	2	=	\$	-
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		X	1	=	\$	-
32	M/E	Remove	Prestressed Concrete Pole	641-2-70		Shallow Removal- Poles 30' and greater	EA		X	1	=	\$	-
33	M/E	Remove	Prestressed Concrete Pole	641-2-80		Complete/Deep Removal- Poles 30' and greater	EA		X	1	=	\$	-
34	I/O	install	Prestressed Concrete Pole	641-2-30		(Various Sizes) Install only.	EA		X	1	=	\$	-
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		X	2	=	\$	-
36	F/I	furnish/ install	Strain Pole - Wood Pole Nominal size 50'	643-150		Direct Bury Method - Guying considered incidental	EA		X	2	=	\$	-
37	M/E	Remove	Strain Pole Wood - Remove	643-600		Removal of wood strain pole.	EA		X	2	=	\$	-
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 tranformer base and hardware, concrete foundation, conduit, ground rod, and locking collar. For replacement of a complete pedestrian signal assembly	AS		X	10	=	\$	-
39	F/I	Furnish/ install	Aluminum Signal Pole - Pedestrain Detector Post	646-1-12		Aluminum Signal Pole - Pedestrian detector post- furnish and install post to include concrete foundation, conduit, ground rod.	AS		X	10	=	\$	-
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. <b>May be used to support rapid response for emergency removals due to incidents, accidents, etc.</b>	EA		X	1	=	\$	-
41	M/E	repair	Mast Arm Repair - Maintenance - grout pad	649-38-000	17745	Remove/ replace existing grout pad. Per mast arm structure	EA		X	10	=	\$	-
42	F/I	furnish/ install	Mast Arm Repair - Maintenance - wire mesh screen	649-38-000	17745 & Section 649-6	Install/ replace critter screen at openings on moment connection plate.	EA		X	10	=	\$	-
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		X	10	=	\$	-
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		X	10	=	\$	-
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		X	20	=	\$	-
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		X	2	=	\$	-

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		X	4	=	\$	-
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		X	80	=	\$	-
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		X	4	=	\$	-
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		X	20	=	\$	-
<b>VEHICULAR SIGNAL AUXILIARIES</b>													
51	F/I	Furnish/ Install	Vehicular Signal Auxiliaries - 12" LED Module - Relamp	650-2-106	N/A	For relamping intersections. removal of existing module considered incidental.	EA		X	200	=	\$	-
52	F/I	Furnish/ Install	Vehicular Signal Auxiliaries - Backplate w/ relfective border	650-1-19	N/A	For replacement of existing or missing backplates. Removal of existing equipment considered incidental.	EA		X	25	=	\$	-
<b>PEDESTRIAN SIGNAL</b>													
53	F/I	Furnish/ Install	Pedestrian Signal - Relamp	653-1-11	N/A	For replacement of Pedestrian LED countdown module only. Removal of existing equipment considered incidental - additional info Section 653.	EA		X	80	=	\$	-
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		X	40	=	\$	-
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		X	20	=	\$	-
<b>RECTANGULAR RAPID FLASHING BEACON</b>													
56	F/I	furnish/ install	Rectangular Rapid Flashing Beacon	654-2-21	TEM	For installation of complete assembly - 1 way	AS		X	2	=	\$	-
57	F/I	furnish/ install	Rectangular Rapid Flashing Beacon	654-2-22	TEM	For installation of complete assembly - 2 way	AS		X	2	=	\$	-
<b>MAST ARM, SPAN WIRE, AND POLE MOUNTING ASSEMBLIES</b>													
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		X	1	=	\$	-
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		X	2	=	\$	-

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		X	10	=	\$	-
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		X	10	=	\$	-
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		X	10	=	\$	-
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		X	10	=	\$	-
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		X	10	=	\$	-
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		X	10	=	\$	-
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		X	10	=	\$	-
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		X	5	=	\$	-
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		X	2	=	\$	-
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		X	5	=	\$	-
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		X	20	=	\$	-
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		X	2	=	\$	-

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		X	2	=	\$	-
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		X	2	=	\$	-
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		X	10	=	\$	-
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		X	10	=	\$	-
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		X	20	=	\$	-
77	I/O	install / replace	Pedestrian Detector - Standard Pushbutton	665-1-90	Refer to Manatee County Design Guide	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		X	20	=	\$	-
78	I/O	install / replace	Pedestrian Detector - Accessible (audible) Pushbutton	665-1-90	Refer to Manatee County Design Guide	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		X	5	=	\$	-
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 reinstallation of UPS and UPS cabinet considered as an additional item. Does not include foundation.	AS		X	2	=	\$	-
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		X	2	=	\$	-
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		X	2	=	\$	-

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		X	2	= \$	-
<b>ITS CABINET</b>												
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		X	2	= \$	-
<b>SYSTEM CONTROL EQUIPMENT</b>												
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		X	1	= \$	-
<b>CCTV CAMERA</b>												
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		X	2	= \$	-
<b>FIBER OPTIC CABLE</b>												
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		X	1,000	= \$	-
87	I/O	Install	Fiber Optic Cable - install only - underground	633-1-320	18202-18204	Install Fiber Optic Cable, Underground, various sizes. All materials provided by Manatee County.	LF		X	5,000	= \$	-
<b>FIBER OPTIC CONNECTION</b>												
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		X	288	= \$	-
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		X	16	= \$	-
<b>FIBER OPTIC CONNECTION - HARDWARE</b>												
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		X	1	= \$	-
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		X	1	= \$	-
92	F/I	furnish/ install	Fiber Optic Connection-Hardware - Preterminated 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		X	1	= \$	-

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		X	1	=	\$	-
94	F/I	furnish/ install	Fiber Optic Connection- Hardware - Patch Panel - Preterminated	633-3-15	Refer to Manatee County Design Guide	Install Fiber Optic Cable Splice, Per Splice , All materials to be provided by contractor.	EA		X	1	=	\$	-
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		X	1	=	\$	-
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		X	1	=	\$	-
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		X	2	=	\$	-
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		X	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		X	1	=	\$	-
100	F/I	furnish/ install	Single post sign, F&I Ground mount, 12-20 SF	700-1-12			AS		X	1	=	\$	-
101	F/I	furnish/ install	Single post sign, F&I Ground mount, 21-30 SF	700-1-13			AS		X	1	=	\$	-
102	F/I	furnish/ install	Single post sign, F&I Ground mount, 31+ SF	700-1-14			AS		X	1	=	\$	-
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		X	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 of MSTCSD.	EA		X	1	=	\$	-
105	M/E	Remove	Internally-Illuminated Sign - Removal	700-5-60	17748	Removal of sign assembly. May be used for upgrades or replacements.	EA		X	1	=	\$	-
106	M/E	modify	Internally-Illuminated Sign - LED Retrofit	M700-5-70	Refer to Manatee County Design Guide	Removal of flourescent 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		X	1	=	\$	-

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		X	20	= \$	-
108	M/E	Repair	Internally-Illuminated Sign - repair - flourescent	M700-5-70	Refer to Manatee County Design Guide	Diagnose and Repair flourescent sign. Replace lamp and ballast. Contractor to provide materials.	EA		X	5	= \$	-
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		X	20	= \$	-
110	M/E	remove and install	Internally-Illuminated Sign - relocate sign	700-5-50	Refer to Manatee County Design Guide	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		X	1	= \$	-
<b>FLASHING BEACONS</b>												
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		X	1	= \$	-
<b>SERVICES</b>												
112	F/O	furnish	Labor	None	N/A	Cost per Technician per hour	HR		X	1	= \$	-
113	F/O	furnish	Material	None	N/A	For additional materials. Markup not to exceed 10%	EA		X	1	= \$	-
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		X	1	= \$	-
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		X	1	= \$	-
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 intall pay items above.	HR		X	1	= \$	-
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 intall pay items above.	HR		X	1	= \$	-
<b>TOTAL</b>												