



**CITY ATTORNEY USE ONLY**

Date Received:	
Assigned To:	
File:	19-137
Due Date:	
Hours:	

Received

MAY 17 2019

City of Fort Pierce  
City Manager's Office

**REQUEST FOR LEGAL SERVICES**

RECEIVED  
MAY 21 2019  
City Attorney *[Signature]*

**To:** PETE SWEENEY, CITY ATTORNEY

**SUBMITTED BY:** EDWARD SEISSIGER, PROJECT MANAGER *[Signature]*

**THROUGH:** *[Signature]* JOHN R. ANDREWS, P.E., CITY ENGINEER *[Signature]*

**CITY MANAGER AUTHORIZATION:** NICHOLAS C. MIMMS, P.E., CITY MANAGER *[Signature]*

**RE:** CITY'S MAINTENANCE OF TRAFFIC SIGNALS  
RFB No. -2018-052

**DATE:** MAY 17, 2019

**Service Required:** (please circle or underline)

Review Documents

Draft Document

Written Opinion Requested

Attend Meetings

Advise

Other: \_\_\_\_\_

Upon review and/or "Approval as to Form and Correctness," the Department submitting the RLS is responsible for placement of any related item on a Commission or Board Agenda.

- Brief statement of the nature of the request or problem:** (Provide description of the issue and what is being requested of the City Attorney's office.) Review of City's Maintenance of Traffic Signals Contract RFB No. 2018-052 for form and correctness.
- Discussion of the implications and the possible impact if not apparent from preceding information:** (Discuss any issues related to the underlying matter to assist with the City Attorney's analysis.) The City has negotiated the contract price with the lowest bidder.
- Time considerations and their significance:** (Note any deadlines, internal or external, that may affect the timeline for completion of the RLS, or may otherwise be pertinent.) We would like to place this on the Commission Agenda for the meeting of June 3, 2019.
- Are City funds required? If so, list approvals obtained for expenditure of funds:** (e.g., purchasing approval, Commission Approval at [date] Regular Meeting, finance approval.) The funds for this contract will be encumbered by the City's closed loop account and FDOT reimbursement.

**5. Factual background:** (Outline the facts related to the underlying matter to provide context for the request.)

- City advertised with 2 respondents. We negotiated terms with the lowest bidder'
- Carr Construction is our current maintenance contractor

**6. List and/or attach all related documents and known authorities (e.g., statute, ordinance, resolution, administrative code, legal case, RFP, bidder's response, contract, lease, letter, memorandum, prior legal opinion, deed, etc.):** (Requestor should investigate the issue and gather all documents/information pertaining to the matter from any other related departments *prior* to submitting the request to this office):

- RFB No. 2018-052.

**7. Identify prior legal assistance on this or a related matter and the attorney who handled it:**

N/A

**8. If this is a request for review of a contract, provide the following:**

**List of individuals who have read and approved the business terms and conditions of the contract and confirmed the ability to carry out the terms of the contract as they apply to the City** Jack Andrews and Ed Seissiger have reviewed the document.

- a. Insurance requirements that differ from the City's template insurance terms:** (The department should consult with the Risk Manager for each contract to determine whether there are any special insurance requirements.) Insurance requirements were reviewed and amended prior to RFB advertisement.

CITY ATTORNEY USE ONLY			
Routed for Review	Date	Response Deadline	Response
			<p><b>Approved as to Form &amp; Correctness</b>                      City Attorney - Peter J. Sweeney                      Signed:                       Date: <u>5-21-19</u></p>

**City of Fort Pierce**  
**Maintenance of Traffic Signals**  
**RFB No. 2018-052**

**SERVICES AGREEMENT**

This Agreement between City and Contractor ("Agreement") is made and entered into by and between the City of Fort Pierce, Florida, a municipal corporation ("City"), and Carr Construction, LLC, a Florida Corporation with its principal place of business at 2968 HWY 710, Okeechobee, FL 34974 ("Contractor").

City and Contractor hereby agree as follows:

**1. Contractor Services.**

Contractor will provide the services as set forth in **Exhibit "A"**, Statement of Work, attached hereto and incorporated for all purposes ("the Services"), to the satisfaction of City.

Due to the nature of this Contract, Contractor must possess the following qualifications and perform work following the applicable specifications:

- a. Current Certificate of Qualification from the Florida Department of Transportation. A copy of the current Certificate of Qualification must be attached to the bid documents for this bid to be valid.
- b. IMSA Certified Level II or higher traffic signal technicians. Technicians must complete required continuing education requirements.
- c. National Electric Code.
- d. City of Fort Pierce Electrical Code requirements.
- e. Department of Transportation Standard Specifications for Traffic Control..
- f. Department of Transportation Specifications for Road and Bridge Construction.

**2. Compensation.**

Total compensation to Contractor will not exceed [CONTRACT AMOUNT] \$155,664<sup>00</sup> annually for the initial term of the Agreement, which includes all travel and expenses. Payment for services performed will be processed within thirty (30) days of receipt and approval of invoice and in accordance with the Florida Prompt Payment Act, Florida Statutes Section 218.70-79.

Upon completion of the Services and acceptance by City, Contractor will submit an invoice setting forth amounts due to Contractor no later than the 10th day of the month. Each invoice will be accompanied by documentation that City may reasonably request to support the invoice amount. City will, within thirty (30) days from the date it receives an invoice and supporting documentation, approve or disapprove the amount reflected in the invoice. If City approves the amount or any portion of the amount, City will promptly pay

to Contractor the amount approved so long as Contractor is not in default under this Agreement. If City disapproves any invoice amount, City will give Contractor specific reasons for its disapproval in writing. Contractor will submit invoices to City as follows:

- 2.1 For construction of new and/or additional units, or upgrade of present units, Contractor will submit unit prices as requested in **Schedule "B"**

**3. Term.**

This Agreement is effective as of the October 1, 2018 and will terminate **October 1, 2020** unless earlier terminated in accordance with Section 9. This contract will be in effect for a period of two years from the date hereof but may be renewed from year to year, maximum three (1) one-year renewals, thereafter. Contractor shall notify, in writing, the City at least thirty (30) days prior to any anniversary date its intent to renew contract. (three (3) One-Year Renewal Options)

**4. Licenses, Permits, Taxes, Fees, Laws and Regulations.**

- 4.1 Contractor warrants that it will obtain, maintain in effect, and pay the cost for all licenses, permits, or certifications that may be necessary for Contractor's performance of this Agreement.
- 4.2 Contractor will be responsible for the payment of all taxes, excises, fees, payroll deductions, employee benefits (if any), fines, penalties or other payments required by federal, state, or local law or regulation in connection with Contractor's performance of this Agreement.
- 4.3 Contractor will comply with, and will be responsible for requiring its officers and employees to comply with, all applicable federal, state, and local laws and regulations.

**5. Ownership and Use of Work Material.**

- 5.1 All drawings, specifications, plans, computations, sketches, data, records, photographs, tapes, renderings, models, publications, statements, accounts, reports, studies, and other materials prepared by Contractor or any Contractor's subcontractor in connection with the Services (collectively, "Work Material"), whether or not accepted or rejected by City, are the sole property of City and for its exclusive use and reuse at any time without further compensation and without any restrictions.
- 5.2 Contractor grants and assigns to City all rights and claims of whatever nature and whether now or hereafter arising in and to the Work Material.
- 5.3 Contractor will deliver all Work Material to City upon expiration or termination of this Agreement. City will have the right to use the Work Material for the completion of the Services or otherwise. City may, at all times, retain the originals of the Work Material.

- 5.4 The Work Material will not be used or published by Contractor or any other party unless expressly authorized by City in writing. Contractor will treat all Work Material as confidential.

**6. Confidentiality and Safeguarding of City Records; Press Releases.**

- 6.1 Contractor shall not disclose, publish, or authorize others to disclose or publish, Work Material or other information pertaining to the Services assigned to Contractor by City or other information to which Contractor has had access during the term of this Agreement without the prior written approval of the City Attorney.
- 6.2 **Advertising.** Contractor will not make any press releases, public statements, or advertisement referring to the services or the engagement of Contractor as an independent Contractor of City in connection with the Agreement, or release any information relative to the Agreement for publication, advertisement or any other purpose without the prior written approval of City.
- 6.3 **Duration.** The restrictions and obligations under this Section will survive expiration or termination of this Agreement for any reason.

**7. Public Records.**

- 7.1 City strictly adheres to all statutes, court decisions and the opinions of the Florida Attorney General with respect to disclosure of public information under Chapter 119, Florida Statutes. In accordance with Chapter 119, Florida Statutes, Contractor shall comply with all public records laws, specifically to:
- 7.1.1 Keep and maintain public records required by City to perform the service.
- 7.1.2 Upon request from City's custodian of public records, provide City with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes, or as otherwise provided by law.
- 7.1.3 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 Contractor does not transfer the records to City.
- 7.1.4 Upon completion of the contract, transfer, at no cost, to City all public records in possession of Contractor or keep and maintain public records required by City to perform the service. If Contractor transfers all public records to City upon completion of the contract, Contractor shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If Contractor keeps and maintains public records upon completion of the contract, Contractor shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to City, upon request from City's

custodian of public records, in a format that is compatible with the information technology systems of City.

**7.2 IF CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS THROUGH THE CITY CLERK AT 772-467-3065, lcox@city-ftpierce.com, 100 North U.S. 1, Fort Pierce, FL 34950.**

**8. Independent Contractor.**

For all purposes of this Agreement and notwithstanding any provision of this Agreement to the contrary, Contractor is an independent contractor and is not a state employee, partner, joint venturer, or agent of City. Contractor will not bind nor attempt to bind City to any agreement or contract. As an independent contractor, Contractor is solely responsible for all taxes, withholdings, and other statutory or contractual obligations of any sort, including but not limited to workers' compensation insurance.

**9. Termination.**

- 9.1 If either party is in default of performance of any material obligation under this Agreement, the party that is not in default may give written notice of the default to the other party and if the party notified fails to correct the default within thirty (30) days or within such period fails to satisfy the party giving notice that the default does not exist, the party giving notice may terminate this Agreement upon expiration of the thirty (30) day period.
- 9.2 City may terminate this Agreement immediately in the event of the filing by or against Contractor of a petition for relief in bankruptcy or for receivership, or in the event that Contractor becomes insolvent.
- 9.3 The termination of this Agreement will not affect any right or remedy that has accrued to either party at the time of termination.
- 9.4 Upon termination of this Agreement, Contractor will deliver to the appropriate representative of City all Work Material related to the services performed by Contractor in the format requested by the City together with any keys, identification badges, or equipment owned by City.
- 9.5 Termination under Sections 9.1 or 9.6 will not relieve Contractor from liability for any default or breach under this Agreement or any other act or omission of Contractor.
- 9.6 City may terminate this Agreement, without cause, upon written notice to Contractor. At such time, Contractor will be compensated only for that work which has been satisfactorily completed to the date of termination. No compensation shall be paid for de-mobilization, take-down, disengagement wind-down or other costs incurred due to termination of this Agreement.

10. Indemnification.

Contractor will indemnify and hold harmless City, and its members, officials, officers, attorneys, employees, representatives and agents from all claims, demands, causes of action, and judgments for taxes, license fees, excises, fines, and penalties; for supplies, services, or merchandise purchased by Contractor; for wages and fringe benefits of Contractor's employees; and for injury or death of any person or damage to property that result directly or indirectly from the negligent or intentional acts or omissions of Contractor or its officers, agents, or employees in the performance of this Agreement.

11. Insurance.

11.1 Contractor shall, at its own expense, procure and maintain, with insurers acceptable to City, the types and amounts of insurance conforming to the minimum requirements set forth herein. Contractor shall not commence work until the required insurance is in force and evidence of insurance acceptable to City has been provided to and approved by City.

11.2 As evidence of compliance with the insurance required herein, Contractor shall furnish City with (a) a fully completed satisfactory Certificate of Insurance (ACORD Form 25 or equivalent) evidencing all coverage required herein, with a copy of the actual notice of cancellation endorsement(s) as issued on the policy(ies) and a copy of the actual additional insured endorsement as issued on the Commercial General Liability policy, signed by an authorized representative of the insurer(s) verifying inclusion of City and its members, officials, officers and employees as Additional Insureds in the Commercial General Liability coverage; (b) the original of the policy(ies); or (c) other evidence satisfactory to City. Such evidence shall include thirty (30) days written notice of cancellation to City for all coverage.

11.3 To the extent Contractor is permitted to and elects to subcontract any of the work performed under this Agreement, Contractor will require all subcontractors to provide insurance coverage complying with the requirements set forth herein and will provide City with evidence of such coverage prior to the commencement of the subcontractor's work.

11.4 Until such insurance is no longer required by this Agreement, Contractor shall provide City with renewal or replacement evidence of insurance at least thirty (30) days prior to the expiration or termination of such insurance.

11.5 **Workers' Compensation/Employers' Liability.** Such insurance shall be no more restrictive than that provided by the Standard Workers' Compensation Policy, as filed for use in Florida by the National Council on Compensation Insurance, without restrictive endorsements. In addition to coverage for the Florida Workers' Compensation Act, where appropriate, coverage is to be included for the Federal Employer's Liability Act and any other applicable Federal or State law. The minimum amount of coverage (inclusive of any amount provided by an umbrella or excess policy) shall be:

Part One:	"Statutory"	
Part Two:	\$1,000,000	(Each Accident)
	\$1,000,000	(Disease-Policy Limit)
	\$1,000,000	(Disease-Each Employee)

11.6 **Commercial General Liability.** Such insurance shall be no more restrictive than that provided by the most recent version of standard Commercial General Liability Form (ISO Form CG 00 01) as filed for use in the State of Florida without any restrictive endorsements. The City of Fort Pierce shall be included as an "Additional Insured" on a form no more restrictive than ISO Form CG 2010 (Additional Insured - Owners, Lessees, or Contractors). The minimum limits (inclusive of amounts provided by an umbrella or excess policy) shall be:

General Aggregate	\$2,000,000
Products/Completed Operations Aggregate	\$1,000,000
Personal and Advertising Injury	\$1,000,000
Each Occurrence	\$1,000,000
Medical Expense (any one person)	\$1,000,000

11.7 **Automobile Liability.** Such insurance shall be no more restrictive than that provided by Section II (Liability Coverage) of the most recent version of standard Business Auto Policy (ISO Form CA 00 01) without any restrictive endorsements, including coverage for liability contractually assumed, and shall cover all owned, non-owned, and hired autos used in connection with the performance of the work. Such insurance shall not be subject to any aggregate limit and the minimum limits (inclusive of any amounts provided by an umbrella or excess policy) shall be:

Each Occurrence Bodily Injury and Property Damage Liability Combined	\$2,000,000
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11.8 **Property Insurance.** If the Agreement includes construction of or additions to above-ground buildings or structures, or installation of machinery or equipment, Contractor shall provide Builder's Risk insurance or an Installation Floater until acceptance of the machinery or equipment by City. Such insurance shall provide coverage on an all risk basis and the minimum amount of insurance shall be 100% of the completed value of such addition(s), buildings(s), or structure(s), or the installed replacement cost of value.

11.9 **General Conditions.** The insurance provided by Contractor shall apply on a primary basis. Any insurance, or self-insurance, maintained by City shall be excess of, and shall not contribute with, the insurance provided by Contractor.

Except as otherwise specifically authorized in this Agreement, or for which prior written approval has been obtained hereunder, the insurance maintained by Contractor shall apply on a first dollar basis without application of a deductible or self-insured retention. Under limited circumstances, City may permit the application of a deductible or permit Contractor to self-insure, in whole or in part, one or more of the insurance coverage's required by this Agreement. Contractor shall pay on behalf of City or the City's officers or employees any deductible or self-insured retention applicable to a claim against the City or City's officers or employees. The required policies must be endorsed to provide City with thirty (30) days written notice of cancellation.

Compliance with these insurance requirements shall not limit the liability of Contractor. Any remedy provided to City by the insurance provided by City shall be in addition to and not in lieu of any other remedy (including, but not limited to,

as an indemnitee of Contractor) available to City under this Agreement or otherwise.

Neither approval nor failure to disapprove insurance furnished by Contractor shall relieve Contractor from responsibility to provide insurance as required by this Agreement.

Certificates of Insurance must be completed as follows:

Certificate Holder:  
City of Fort Pierce  
Attn: **Gelencia Carter**  
P.O. Box 1480  
Fort Pierce, FL 34954-1480

Additional Insured for General Liability:  
City of Fort Pierce and its members, officials, officers and employees

**12. Written Authorization Required.**

Contractor shall not make changes in the job scope or perform any additional work or provide any additional material, under this Agreement without first obtaining written authorization from City for such additional work or materials. Additional labor or materials provided without written authorization shall be done at Contractor's risk and without payment.

**13. Notice.**

All notices, requests, consents, and other communications required or permitted under this Agreement shall be in writing and shall be (as elected by the person giving such notice) hand delivered by messenger or courier service, telecommunicated, or mailed by registered or certified mail (postage prepaid) return receipt requested, addressed to:

As to City:  
Ed Seissiger  
100 N. US Hwy 1  
Fort Pierce, FL., 34950

With a Copy To:  
Gelencia Carter  
100 N. US Hwy 1  
Fort Pierce, FL., 34950

As to Contractor:  
Sean Carr  
2968 Hwy 710  
Okeechobee, FL, 34974

**14. Miscellaneous.**

14.1 Assignment. Neither party may assign this Agreement, in whole or in part, without the prior written consent of the other party.

14.2 Representations and Warranties by Contractor. If Contractor is a corporation or a limited liability company, Contractor warrants, represents, covenants, and agrees that it is duly organized, validly existing and in good standing under the laws of the state of its incorporation or organization and is duly authorized and in good

standing to conduct business in the State of Florida, that it has all necessary power and has received all necessary approvals to execute and deliver this Agreement, and the individual executing this Agreement on behalf of Contractor has been duly authorized to act for and bind Contractor.

- 14.3 Taxes. The City is exempt from Federal Excise and State Sales Taxes on direct purchases of tangible personal property. The City exemption number is on the face of the Purchase Order. Contractor shall not be exempt from paying sales tax to their suppliers for materials to fulfill contractual obligations with the City Tax Exemption Number in securing such materials. This exemption does not apply to purchases of tangible personal property in the performance of contracts for the City.
- 14.4 Entire Agreement; Modifications. This Agreement supersedes all prior agreements, written or oral, between Contractor and City and will constitute the entire Agreement and understanding between the parties with respect to the subject matter hereof. This Agreement and each of its provisions will be binding upon the parties and may not be waived, modified, amended or altered except by a writing signed by authorized representatives of City and Contractor.
- 14.5 Force Majeure. Neither party hereto will be liable or responsible to the other for any loss or damage or for any delays or failure to perform due to causes beyond its reasonable control including, but not limited to, acts of God, strikes, epidemics, war, riots, civil unrest, flood, fire, tsunami, volcano, sabotage, air space closure, ground stop(s), a U.S. Department of State Travel Warning or any other circumstances of like character ("force majeure occurrence").
- 14.6 Venue; Governing Law. St. Lucie County, Florida, will be the proper place of venue for suit on or in respect of this Agreement. This Agreement and all of the rights and obligations of the parties hereto and all of the terms and conditions hereof will be construed, interpreted and applied in accordance with and governed by and enforced under the laws of the State of Florida.
- 14.7 Dispute Resolution. Any disputes relating to interpretation of the terms of this Agreement or a question of fact or arising under this Agreement shall be resolved through good faith efforts upon the part of the Contractor and City. Unless otherwise directed by City, Contractor shall carry on the work and maintain its progress schedule in accordance with the requirements of the Agreement and the determination of City or its representatives, pending resolution of the dispute. Any dispute which is not resolved by mutual agreement shall be decided by the City Manager who shall reduce the decision to writing. The decision of the City shall be final and conclusive.
- 14.8 Waivers. No delay or omission in exercising any right accruing upon a default in performance of this Agreement will impair any right or be construed to be a waiver of any right. A waiver of any default under this Agreement will not be construed to be a waiver of any subsequent default under this Agreement.
- 14.9 Conflict of Interest. Contractor represents that it presently has no interest and shall acquire no interest, either direct or indirect which would conflict in any manner with the performance of services required hereunder, as provided for in Section 112.311,

Florida Statutes. Contractor further represents that no person having any interest shall be employed for said performance.

- 14.10 Verification of Employment Status. Contractor agrees that it shall bear the responsibility for verifying the employment status, under the Immigration Reform and Control Act of 1986 if all persons it employs in the performance of this Agreement.
- 14.11 Non Discrimination. Contractor covenants and agrees that Contractor shall not discriminate against any employee or applicant for employment to be employed in the performance of the Agreement with respect to hiring, tenure, terms, conditions or privileges of employment, or any matter directly or indirectly related to employment because of age, sex or physical handicaps (except where based on a bonafide occupational qualification); or because of marital status, race, color, religion, national origin or ancestry.

City and Contractor have executed and delivered this Agreement to be effective as of the Effective Date.

**Carr Construction, LLC**

**City of Fort Pierce Florida**

By:  \_\_\_\_\_

By: \_\_\_\_\_

Name: Sean Carr

Linda D. Hudson, Mayor

Title: MANAGER

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

Date: 4-15-2019

Approved as to Form and Correctness as to the City

By:  \_\_\_\_\_

Peter Sweeny  
City Attorney

Attached: Exhibit A – Statement of Work  
Schedule "A" – City of Ft. Pierce Signal List  
Schedule "B" – Base Contract Item Costs  
Schedule "C" – Quarterly Inspection Requirements  
Schedule "D" – Semi-annual Inspection Requirements

## EXHIBIT A

### STATEMENT OF WORK

Contractor's performance of the Services shall (1) conform to FDOT specifications and requirements of that certain Invitation to Bid, Bid No. 2018-052 ("Invitation to Bid"), which is incorporated by reference for all purposes, and (2) to the extent consistent with the RFP, shall conform with Contractor's Bid Response and negotiated terms dated [4/15/2019] ("Contractor's Bid") which was submitted by Contractor in response to the Invitation to Bid and is incorporated by reference herein for all purposes. To the extent that the Initiation to Bid or Contractor's Bid conflicts with the terms of this Agreement, the terms of this Agreement shall control. To the extent that the Contractor's Bid conflicts with the Invitation to Bid, the Invitation to Bid shall control.

#### I. Project:

**II. Services and/or Deliverables.** Contractor will provide the following services and/or deliverables in support of the Project:

#### Scope of Work:

Whereas, the City is obligated to maintain traffic signal control devices at certain locations listed herein shown in **Schedule "A"**, attached together with other such as may be added (or deleted), from time to time. The City agrees to enter into a Contract with Contractor who will provide the necessary labor, tools, materials, vehicles and equipment to include but not necessarily limited to aerial trucks, ladders, test instruments, laptops, etc. to properly maintain and repair said traffic control devices and provide maintenance and operation of the system as specified in **Schedule "C"** and **Schedule "D"** and in accordance with the terms of this Contract.

1. Contractor shall be responsible for providing twenty four (24) hour, seven (7) days a week maintenance on the list of traffic control devices as shown on **Schedule "A"** with additions and deletions that may be made from time to time at rates which are a part of this Contract.
2. "Maintenance", in general, shall mean all repairs, both routine and emergency, necessary for the continued safe and reliable operation of the specified equipment as listed. It shall include replacement of parts in the field, bench work, testing, repair of circuits, components, replacement of LEDs and any and all other repair, maintenance or replacement steps as necessary without exclusion except as noted herein.
3. A record system is essential to this Contract and Contractor will be responsible to maintain such records for the City as part of his duties and submit them to the City every 6 months. The records shall include but not limited to Trouble Call, dispatch time, repair time, trip and inspection reports, work orders, equipment used/ replaced etc. as directed and approved by the City Engineer or his designee. Contractor will also be responsible to update and maintain records in the CENTRAC's MMS system.
4. The Contractor shall:
  - a. Maintain a twenty four (24) hour phone service to answer and record maintenance requests and trouble calls. Radio/Phone dispatch units shall be employed as required to assure proper efficiency of operation. Back-up personnel shall be identified and available as necessary. Service unit will be equipped with a cellular phone, tools and laptop.

b. Respond to "emergency" trouble calls immediately and with sufficient force to satisfy the need. Routine problems shall be handled adequately with a response time of two (2) hours or less. It shall be the responsibility of the reporting agency (911) to properly identify routine calls.

c. Repair or replace all defective or non-functional parts as required by need for the effective and continuous maintenance of traffic control devices and maintain stock of common parts for immediate use. Parts on hand owned by the City and provided to the Contractor at a specified location provided by the City shall be accounted for its disposition when used and included in the monthly report or in the Application for Payment. **Note: Any PED or Detection issue reported or noted as inoperable shall be returned to full operation within 72 hrs.**

d. It shall be the responsibility of the contractor to call to the attention of the City those instances where extensive repairs are necessary and where it is economically advantageous to the city to replace equipment rather than repair it. Any Items identified for extensive repair or replacement shall be handled in no more than 10 business days unless a time extension is approved by the City designee.

e. Furnish all additional parts required for effective maintenance. Parts shall be properly identified and accounted for by Contractor and shall be billed to City monthly at Contractor's net cost plus a percentage as established in **Schedule "B"**. A copy of the manufacturer invoice shall accompany all invoices. Where the City can purchase parts at a lower cost right is reserved to furnish these to Contractor. The Contractor shall submit with his contract a list of the parts inventories it proposes to maintain to effectively service the Contract. The cost of this inventory shall be borne by the Contractor and used for maintenance as required.

f. Routinely inspect all **Schedule "A"** locations on the following basis and perform preventative maintenance routine below.

1. Inspect all locations on a Quarterly basis: See **Schedule "C"**.
2. Perform preventative maintenance at all locations semi-annually: See **Schedule "D"**.

g. Maintain all lamps in accordance with the following schedule.

1. Spot replace any lamps on emergency. **Red and Yellow Indications must be repaired in 2 hour time frame all others by end of business day.**

h. Maintain a record of service calls, inspections, time received, time responded, repair performed, parts used, condition, time settings noted, etc. This includes furnishing a cabinet log book to be installed and maintained at every field location. **This information will be provided to the City as an annual report inclusive of semi-annual inspection reports and Conflict Monitor /MMU certifications due no later than May 15th each year.**

i. Maintain the required service equipment, such as, but not limited to, aerial truck, ladders, test instruments, power monitor, laptop computers, etc. in good condition and in readiness.

j. Establish and maintain effective and rapid lines of supply for required items. Contractor will maintain drawings and catalogs of various items serviced to expedite parts supply.

k. Maintain such spares as may be required to effectively and practically maintain continuity of service during repair interval, based on use, experience, availability, etc. Items the

contractor must have available as spare maintenance equipment includes, but is not limited to, conflict monitor/MMU, LED's, load switches, loop detectors, flashers and flash transfer relays.

**l.** Provide all warning lights, barricades, signs, flags and other safety items to protect the public during periods of outages. This will include use of substitute or temporary equipment as advised and where available. Safety requirements shall be strictly adhered to in accordance with the requirements of the Florida Industrial Commission, OSHA and FDOT Manual for Road and Bridge Construction (Section 600 - Maintenance of Traffic) and MUTCD.

**m.** All equipment and repairs shall follow FDOT guidelines and utilize the most recent versions of "FDOT Standard Specifications for Road and Bridge Construction", "FDOT Design Standards Index" and MUTCD. Any Materials must also be on the FDOT (Approved Products List (APL)).

**SCHEDULE "A"**

**CITY OF FORT PIERCE TRAFFIC SIGNALS**

Revised December 2017

<b>TSL #</b>	<b>LOCATION</b>	<b>DESCRIPTION CONTROLLER-TYPE</b>	<b>UNIT PRICE</b>
<b>US#1 (S.R. 5) CORRIDOR</b>			
1	US #1 & Farmers Market Rd	F/A T.C.T. 8/0, AV-ILS	\$174 <sup>00</sup>
2	US #1 & Edwards Rd.	F/A ASC3 8/0, RR Pre-empt -AV- ILS	174 <sup>00</sup>
3	US #1 & Emil Avenue	F/A ASC/3 8/0, RR Pre-empt-AV-ILS-	174 <sup>00</sup>
4	US #1 & Gardenia Avenue	F/A ASC/3 8/0, AV-ILS	174 <sup>00</sup>
5	US #1 & Virginia Avenue	F/A Cobalt 8/0, AV - ILS - UPS-S	174 <sup>00</sup>
6	US#1 & Gateway Plaza	F/A Cobalt 8/0, AV- ILS-UPS	174 <sup>00</sup>
7	US #1 & Ohio Avenue	F/A Cobalt 8/0, AV-ILS	174 <sup>00</sup>
8	US #1 & Parkway Drive	F/A Cobalt. 8/0, AV - ILS	174 <sup>00</sup>
9	US #1 & Georgia Avenue	F/A Cobalt. 8/0, AV - ILS	174 <sup>00</sup>
10	US #1 & Delaware Avenue	F/A Cobalt 8/0, AV - ILS - UPS	174 <sup>00</sup>
11	US #1 & Citrus Avenue	F/A, AV - ILS (Control @ Delaware)	174 <sup>00</sup>
12	US #1 & Orange Avenue	F/A Cobalt .8/0, ILS - UPS-AV-S	174 <sup>00</sup>
13	US #1 & Avenue A	F/A Cobalt. 8/0, AV- ILS	174 <sup>00</sup>
14	US #1 & Backus Avenue (Avenue C)	F/A Cobalt. 8/0, AV - ILS	174 <sup>00</sup>
15	US #1 & Avenue D	F/A Cobalt 8/0, AV- ILS	174 <sup>00</sup>
16	US #1 & S.R. A-1-A (Seaway Drive)	F/A Cobalt. 8/0, RR Pre-empt AV - ILS - UPS- Cobra head	174 <sup>00</sup>
17	US #1 & Avenue H (Fishermans Wharf)	F/A ASC3. 8/0, RR Pre-empt AV - ILS -	174 <sup>00</sup>

**SCHEDULE "A"**

TSL #	LOCATION	DESCRIPTION CONTROLLER-TYPE	UNIT PRICE
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**VIRGINIA AVE (S.R. 70) CORRIDOR**

18	Virginia Avenue & Oleander Avenue	F/A ASC3. 8/0, AV-ILS	\$ 174 <sup>00</sup>
19	Virginia Avenue & Sunrise Boulevard	F/A ASC3 . 8/0, AV-ILS	174 <sup>00</sup>
20	Virginia Ave & School WB	School Flasher (dual) + Overhead- 2 separate controllers	66 <sup>00</sup>
21	Virginia Ave & School EB	School Flasher (dual) + Overhead- 2 separate controllers	66 <sup>00</sup>
22	Virginia Avenue & 13th Street	F/A ASC3. 8/0, AV-ILS	174 <sup>00</sup>
23	Virginia Avenue & 25th Street	F/A ASC3 8/0 AV-ILS – UPS	174 <sup>00</sup>
24	Virginia Avenue & 35th Street	F/A ASC3. 8/0, Loop- Audible PEDS	174 <sup>00</sup>
25	Virginia Avenue & Okeechobee Road	F/A ASC3 . 8/0, AV	174 <sup>00</sup>

**OKEECHOBEE ROAD (S.R. 70) CORRIDOR**

26	Okeechobee Road & 33rd St.	F/A ASC3. 8/0, Loop	\$ 174 <sup>00</sup>
27	Okeechobee Road & Hartman Road	F/A ASC3. 8/0, Loop	174 <sup>00</sup>
28	Okeechobee Road & Central Mall Ent.	F/A ASC3. 8/0, AV	174 <sup>00</sup>
29	Okeechobee Road & West Mall Ent.	F/A ASC3. 8/0, AV	174 <sup>00</sup>
30	Okeechobee Road & McNeil Road	F/A ASC3. 8/0, AV - ILS	174 <sup>00</sup>
31	Okeechobee Road & Jenkins Road	F/A ASC3 8/0– AV- UPS-ILS	174 <sup>00</sup>
32	Okeechobee Rd & I-95 NB Off Ramp	F/A ASC3. 8/0, AV- ILS- UPS	174 <sup>00</sup>
33	Okeechobee Rd & I-95 SB Off Ramp	F/A ASC3. 8/0, AV-ILS-UPS	174 <sup>00</sup>
34	Okeechobee Road & Peters Road	F/A ASC3. 8/0 AV – ILS	174 <sup>00</sup>
35	Okeechobee Road & Kings Highway	F/A ASC3 8/0, AV-ILS-UPS	174 <sup>00</sup>

**SCHEDULE "A"**

<b>TSL #</b>	<b>LOCATION</b>	<b>DESCRIPTION CONTROLLER-TYPE</b>	<b>UNIT PRICE</b>
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**ORANGE AVENUE (S.R. 68) CORRIDOR**

36	Orange Avenue & Indian River Drive	F/A ASC3. 8/0, AV – ILS	\$ 174 <sup>00</sup>
37	Orange Avenue & 5th Street	F/A ASC3. 8/0, ILS	174 <sup>00</sup>
38	Orange Avenue & 7th & Ave A	ASC3 5/0 Sequential, Control for 7 <sup>th</sup> Street – ILS	174 <sup>00</sup>
39	Orange Avenue & 10th Street	F/A ASC 3. 8/0, – ILS	174 <sup>00</sup>
40	Orange Avenue & 13th Street	F/A ASC3 . 8/0, ILS-AV	174 <sup>00</sup>
41	Orange Avenue & 17th Street	F/A ASC3 8/0, ILS-AV	174 <sup>00</sup>
42	Orange Avenue & 25th Street	F/A ASC3 8/0, – ILS-AV	174 <sup>00</sup>
43	Orange Avenue & 33rd Street	F/A T.C.T. 8/0,	174 <sup>00</sup>

**A-1-A (SEAWAY DRIVE) CORRIDOR**

44	A-1-A & Indian River Drive	F/A ASC3 8/0, AV-ILS	\$ 174 <sup>00</sup>
45	A-1-A & Harbor Isle Round About EB	Flasher – Warning Sign	42 <sup>00</sup>
46	A1-A & Harbor Isle Round about WB	Flasher – Warning Sign	42 <sup>00</sup>
47	Binney Drive & East of Coquina Ave	Flasher - Warning Sign	42 <sup>00</sup>
48	Binney Drive & West of Coquina Ave	Flasher - Warning Sign	42 <sup>00</sup>
49	Binney Drive & Fernandina Avenue	Flasher - Stop Sign	42 <sup>00</sup>
50	A-1-A & Ocean Drive (Jetty Park)	Flasher – Warning Sign	42 <sup>00</sup>
51	A-1-A & Binney Drive	F/A ASC3 8/0, AV – ILS	42 <sup>00</sup>

**S.R. 615 (25th STREET) CORRIDOR**

52	25th Street & Quincy Avenue North	Emergency Flasher (Dual)	\$ 42 <sup>00</sup>
53	25th Street & Okeechobee Road	F/A ASC 3.8/0 AV – ILS	174 <sup>00</sup>
54	25th Street & Delaware Avenue	F/A ASC3 8/0 AV – ILS	174 <sup>00</sup>
55	25th Street & Avenue D	F/A ASC 3.8/0 AV– ILS	174 <sup>00</sup>
56	25th Street & Avenue I	F/A ASC 3.8/0 AV-ILS	174 <sup>00</sup>
57	25th Street & Avenue M	F/A ASC 3 8/0 AV-ILS	174 <sup>00</sup>
58	25th Street & Avenue P North Bound	School Zone Flasher w/ Timer	N/A
59	25th Street & Avenue Q	F/A ASC 3 8/0 AV-ILS	174 <sup>00</sup>

**SCHEDULE "A"**

TSL #	LOCATION	DESCRIPTION CONTROLLER-TYPE	UNIT PRICE
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**7th STREET CORRIDOR**

60	7th Street & Delaware Avenue	F/A ASC 3.8/0 – ILS	\$174 <sup>00</sup>
61	7th Street & Avenue A	(T.S.L.only) ( x Cab.at S.R.68 – ILS	174 <sup>00</sup>

**GEORGIA AVENUE CORRIDOR**

62	Georgia Avenue & 7th Street	ASC 3 4/0 – ILS	\$174 <sup>00</sup>
63	Georgia Avenue & 13th Street	F/A Eagle 4/0 - ILS	174 <sup>00</sup>

**DELAWARE AVENUE CORRIDOR**

64	Fort Pierce Elementary West Bound	School Zone Flasher w/ Timer	\$66 <sup>00</sup>
65	Fort Pierce Elementary East Bound	School Zone Flasher w/ Timer	66 <sup>00</sup>
66	Delaware Avenue & 10th Street	F/A T.C.T.4/0 LP – ILS	174 <sup>00</sup>
67	Delaware Avenue & 13th Street	F/A ASC 3.8/0 LP-ILS	174 <sup>00</sup>
68	Delaware Avenue & 17th Street	F/A PEEK 8/0 LP -ILS	174 <sup>00</sup>
69	Okeechobee Road & Georgia Avenue	F/A ASC3 8/0 LP –ILS	174 <sup>00</sup>
70	Delaware Avenue & 33rd Street	F/A EAGLE 4/0	174 <sup>00</sup>

**AVENUE D CORRIDOR**

71	Avenue D & 7th Street	F/A ASC 3 8/0 LP,AV,ILS	\$174 <sup>00</sup>
72	Avenue D & 13th Street	F/A ASC 3. 8/0 LP, AV, ILS	174 <sup>00</sup>
73	Avenue D & 17th Street	F/AT.C.T. 8/0 LP, LP,ILS	174 <sup>00</sup>
74	Avenue D & 29th Street	F/A ASC3 4/0 LP	174 <sup>00</sup>

**SCHEDULE "A"**

TSL #	LOCATION	DESCRIPTION CONTROLLER-TYPE	UNIT PRICE
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**13th STREET CORRIDOR**

75	13th Street & Wyoming Avenue	Flasher Overhead	\$42 <sup>00</sup>
76	13th Street & Virginia Avenue NB	School Zone Flasher W/Clock	66 <sup>00</sup>
77	13th Street & Nebraska Avenue	F/A ASC 3 4/0, ILS - LP	174 <sup>00</sup>
78	13th Street & Mississippi Ave SB	School Zone Flasher W/Clock	66 <sup>00</sup>

**17th STREET CORRIDOR**

79	17th Street & Avenue I	F/A ASC3 8/0, AV, ILS	\$174 <sup>00</sup>
80	17th Street & Havana Avenue	Flasher - 2 Signs & 4 Way Overhead	42 <sup>00</sup>

**SUNRISE BLVD. CORRIDOR**

81	Sunrise Blvd. & Parkway Drive	F/A Eagle. 8/0 LP - ILS	\$174 <sup>00</sup>
82	Sunrise Blvd. & Cortez Blvd	Flasher - Stop Sign	42 <sup>00</sup>

**Avenue M CORRIDOR**

83	Avenue M & 21st Street	(2) Flasher - Stop Sign	\$ 42 <sup>00</sup>
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**2nd STREET CORRIDOR**

84	2nd Street between Avenue A & Backus Avenue	Flasher - Sign - Bump	\$ 42 <sup>00</sup>
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**INDIAN RIVER DRIVE CORRIDOR**

85	Indian River Drive South Bound	Flasher - Warning Sign near Citrus	\$ 42 <sup>00</sup>
86	Indian River Drive North Bound	Flasher - Warning Sign South of Savannah Rd.	42 <sup>00</sup>
87	Indian River Drive NB	Round-a-Bout Flasher - Warning Sign	42 <sup>00</sup>
88	Indian River Dr @ Veterans Prk & Backus Gallery	Flashers signs Crosswalks NB & SB	42 <sup>00</sup>

**SCHEDULE "A"**

<b>TSL #</b>	<b>LOCATION</b>	<b>DESCRIPTION CONTROLLER-TYPE</b>	<b>UNIT PRICE</b>
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**29<sup>TH</sup> STREET CORRIDOR**

89	C.A. MOORE ELEM – NB SCHOOL FLASHER	Solar School Zone Flasher	\$ 66 <sup>00</sup>
90	C.A. MOORE ELEM – SB SCHOOL FLASHER	Solar School Zone Flasher	66 <sup>00</sup>

**23<sup>RD</sup> STREET CORRIDOR**

91	LAWNWOOD ELEM – NB SCHOOL FLASHER	Solar School Zone Flasher	\$ 66 <sup>00</sup>
92	LAWNWOOD ELEM – SB SCHOOL FLASHER	Solar School Zone Flasher	66 <sup>00</sup>

**33<sup>RD</sup> STREET CORRIDOR**

93	FAIRLAWN ELEM – EB SCHOOL FLASHER	Solar School Zone Flasher	\$ 66 <sup>00</sup>
94	FAIRLAWN ELEM – WB SCHOOL FLASHER	Solar School Zone Flasher	66 <sup>00</sup>

**AVENUE I CORRIDOR**

95	LINCOLN PARK –EB SCHOOL FLASHER	Solar School Zone Flasher	\$ 66 <sup>00</sup>
96	LINCOLN PARK –WB SCHOOL FLASHER	Solar School Zone Flasher	66 <sup>00</sup>

**AVENUE Q CORRIDOR**

97	F.K. SWEET ELEM - EB SCHOOL FLASHER	Solar School Zone Flasher	\$ 66 <sup>00</sup>
98	F.K. SWEET ELEM - WB SCHOOL FLASHER	Solar School Zone Flasher	66 <sup>00</sup>

NOTE: Prospective bidders are encouraged to visit the above sites to ascertain current equipment in use. Be advised that ongoing projects may alter this original list.

NOTE: All school zone flasher systems are run by RTC remote impulse to field time clocks.

**INTERSECTION EQUIPMENT KEY**

**F/A** = Fully Actuated, **ILS** = Internally Illuminated Street Name Signs, **UPS** = Battery Back-up Cabinet and Control System, **PV** = PEEK Video Detection System, **AV** = Econolite Video detection, **S** = Surveillance Camera & Associated Equipment

## SCHEDULE "B"

### I. BASE CONTRACT AMOUNT

- A. For maintenance of signalized intersections from Schedule "A"

\$ 12,972<sup>00</sup> Per month

- B. For additions or deletions during the contract period; add or subtract from "base amount" accordingly:

Any traffic signals which are included on a D.O.T. construction project will be deleted from the monthly maintenance as the D.O.T. contractor becomes responsible for maintaining those particular signalized intersections.

It is the contractor's responsibility to notify the City of Fort Pierce when to remove these intersections and when to add to the maintenance at the completion of the construction project.

Flashers	\$ <u>70<sup>00</sup></u> Per month
Fixed Time Controllers	\$ <u>110<sup>00</sup></u> Per month
2-4 Phase Actuated Controllers	\$ <u>290<sup>00</sup></u> Per month
5-8 Phase Actuated Controllers	\$ <u>290<sup>00</sup></u> Per month
Pre-emption Devices	\$ <u>290<sup>00</sup></u> Per month

### II. EXTRA BILLINGS

- A. Percentage added to purchase equipment (10%)

- B. Repairs to equipment returned to manufacturer by Contractor shall be paid for by Owner at Contractor's full cost plus (5%).  
All billings for services of this nature will be supported by copies of manufacturer's invoices.

- C. Technician only, shop rate \$ 45<sup>00</sup> Per hour

- D. Technician with vehicle or equipment rates:  
Field rate with service vehicle \$ 105<sup>00</sup> Per hour

### III. RESTORATION AND REPAIR

Repairs to damaged or failed equipment shall include removal and installation of the following bid items to be furnished and installed. Shall include all labor, equipment, and appropriate FDOT MOT plans. All Equipment to meet FDOT approved indexes.

<u>BID ITEM</u>	<u>DESCRIPTION</u>	<u>QTY</u>	<u>UNIT PRICE</u>
1.	3S1W-TSA (standard aluminum with LED)	1	\$ <u>940<sup>00</sup></u>
2.	5S1W-TSA Cluster (standard aluminum with LED)	1	<u>1340<sup>00</sup></u>
3.	Standard Ground Rods (10 feet)	1	<u>110<sup>00</sup></u>
4.	Standard Traffic Signal Cable (LF)	1	<u>7<sup>20</sup></u>
5.	Fiber Optic Cable (signal mode, 48 fiber LF)	1	<u>3.60</u>
6.	Fiber Optic Cable (signal mode, 12 fiber LF)	1	<u>2.60</u>
7.	Fiber Optic Pull Box (24" x 36" x 36" deep)	1	<u>840<sup>00</sup></u>
8.	Fiber Optic Pull Box (24" x 36" x 18" deep)	1	<u>840<sup>00</sup></u>
9.	Fiber Optic Pull Box (17" x 30 X 18" deep)	1	<u>520<sup>00</sup></u>
10.	Controller Cabinet Assembly for standard FDOT 16 Channel Operation. (controller shall be ASC3/2100 or Cobalt) Fiber ready with Rugged 900G switch (SOP #10)	1	<u>22,390<sup>00</sup></u>
11.	Controller Cabinet Assembly for standard FDOT 12 channel Operation. (controller shall be ECONOLITE ASC/3/2100 or Cobalt) fiber ready with 900G switch (SOP #10)	1	<u>22,390<sup>00</sup></u>
12.	PED Signal, 1 Way 1 Section International Symbol	1	<u>720<sup>00</sup></u>
13.	PED Signal 1 Way 1 Section Countdown Type	1	<u>720<sup>00</sup></u>
14.	Inductive Loop Detector and Home Run (6' x 6') - Loop Assembly	each	<u>1140<sup>00</sup></u>
15.	Traffic Bearing Pull Box - FDOT Item 635-1-11	each	<u>1210<sup>00</sup></u>
16.	Removal of Traffic Signal Assy.	1	<u>36<sup>00</sup></u>
17.	Removal Pedestrian Signal Assy.	1	<u>36<sup>00</sup></u>
18.	Removal Span Wire Assy.	1	<u>330<sup>00</sup></u>

19.	Removal Miscellaneous Signal Equipment	PI	\$ <u>580<sup>00</sup></u>
20.	F&I Video Detection Camera and Cable for ECONOLITE Solo Terra System or Encore including programming	1	<u>7800<sup>00</sup></u>
21.	F&I Upright (6 Bolt) and Mast Arm (40')	1	<u>29220<sup>00</sup></u>
22.	F&I Upright (6 Bolt) and Mast Arm (50')	1	<u>21,580<sup>00</sup></u>
23.	F&I Upright (8 Bolt) and Mast Arm (60')	1	<u>24,310<sup>00</sup></u>
24.	F&I Upright (8 Bolt) and Mast Arm (70')	1	<u>27,030<sup>00</sup></u>
25.	Internally Illuminated Street Name Sign & LED (standard FDOT Assembly)	1	<u>2270<sup>00</sup></u>
26.	F&I Flasher assembly pole mount	1	<u>5940<sup>00</sup></u>
27.	F & I Solar School zone flasher (Complete Assembly)	1	<u>5940<sup>00</sup></u>
28.	Fiber splice (includes enclosures)	EA	<u>60<sup>00</sup></u>
29.	Fiber Termination	EA	<u>930<sup>00</sup></u>
30.	Electrical Service Disconnect.	EA	<u>1220<sup>00</sup></u>
31.	Signal Cable (12 Conductor)	LF	<u>9,20<sup>00</sup></u>
32.	Signal Cable (20 Conductor)	LF	<u>10<sup>00</sup></u>
33.	12 inch LED Red	EA	<u>170<sup>00</sup></u>
34.	12 inch LED Yellow	EA	<u>170<sup>00</sup></u>
35.	12 inch LED Green	EA	<u>170<sup>00</sup></u>
36.	12 inch LED Red Arrow	EA	<u>170<sup>00</sup></u>
37.	12 inch LED Green Arrow	EA	<u>170<sup>00</sup></u>
36.	12 inch 12 volt Yellow LED (Solar School Zone)	EA	<u>520<sup>00</sup></u>
37.	12v Deep Cycle Battery & install (Solar School Zone)	EA	<u>200<sup>00</sup></u>
38.	12 volt Solar panel (School Zone) F & I	EA	<u>420<sup>00</sup></u>
39.	12 volt Sun saver Solar controller F & I	EA	<u>280<sup>00</sup></u>

### Emergency Event Repairs

1.	Removal of existing damaged Traffic Signal Heads	1	\$ <u>110<sup>00</sup></u>
2.	Removal of Damaged Pedestrian Signals	1	<u>36<sup>00</sup></u>
3.	Removal of Damaged Posts or Pedestals	1	<u>36<sup>00</sup></u>
4.	Removal of Damaged Cabling and Span Wire	1	<u>440<sup>00</sup></u>
5.	Removal of Damaged Strained Poles	1	<u>1020<sup>00</sup></u>
6.	Removal of Damaged Mast Arms	1	<u>440<sup>00</sup></u>
7.	Removal of Damaged Uprights	1	<u>440<sup>00</sup></u>
8.	Installation of 1- Way 5-Section Signal Head	1	<u>220<sup>00</sup></u>
9.	Installation of 1-Way 3-Section Signal Head	1	<u>220<sup>00</sup></u>
10.	F & I 1-Way 3-Section Signal Head (Aluminum)	1	<u>1030<sup>00</sup></u>
11.	F & I 1-Way 5-Section Signal Head (Aluminum)	1	<u>1660<sup>00</sup></u>
12.	F & I Span Wire (120 Feet)	PI	<u>1220<sup>00</sup></u>
13.	F& I Signal Cable	PI	<u>5080<sup>00</sup></u>
14.	F & I Wood Pole (40 Feet)	1	<u>720<sup>00</sup></u>
15.	Connect Existing Controller in Cabinet to Power Source	1	<u>80<sup>00</sup></u>
16.	F & I Generator and Provide Connection for Power	1	<u>1925<sup>00</sup></u>
17.	Transport and Connect Generators Provided by the City for power connection	PI	<u>290<sup>00</sup></u>
18.	Provide Fuel for Generators as needed	PI	<u>200<sup>00</sup></u>
19.	Pre-Storm Intersection Signal Head removal (1 Signal head each approach)	PI	<u>580<sup>00</sup></u>

**SCHEDULE "C"**  
**QUARTERLY MAINTENANCE INSPECTION**

Page 1 of 1

1. Verify timing and coordination settings match master timing sheet.
2. Verify proper controller operation.
3. Check/ verify vehicle detection operation (includes video and microwave) for proper operation.
4. Check for proper interconnect operation.
5. Check clock for correct time and day.
6. Check vehicle, pedestrian signals and illuminated signage for outages, alignments, physical damage, etc.
7. Check pedestrian detectors for proper operation. **(Note: Any PED reported or noted as inoperable must be returned to full operation in 72 hrs.)**
8. Clean weeds from around cabinet, pull boxes, poles, etc.
9. Inspect Camera (Surveillance) System.
10. Inspect video detection system. Clean lenses as needed.
11. Inspect internally illuminated street (ILS) name signs. **Any non- functioning ILS must be repaired within 15 days.**
12. Verify school zone flasher operation.
13. Note any trouble calls, work or inspections in Cabinet log book.

## SCHEDULE "D"

### SEMI-ANNUAL MAINTENANCE INSPECTION

#### Page 1 of 1

1. Verify timing and coordination plan settings match master sheets. **Verify intersection diagram is up to date. Verify all cabling is properly labeled, legible and neat.**
2. Verify proper controller operation.
3. Check vehicle detectors for proper operation including video alignment and communication. **Clean Camera lenses. (Laptop required to complete)**
4. Check interconnect operation and insure proper communication.
5. Check clock for correct time and day.
6. Check surge protection devices, inspect Power disconnect.
7. Check/verify operation of fan, thermostats and internal cabinet lighting.
8. Check vehicle pedestrian signals and illuminated signs for outages, alignment, physical damage, etc. Insure stable attachment for all signage.
9. Check poles, span wire, and cables for damage.
10. Check/verify pedestrian detectors for proper operation. **(Note: Any PED reported or noted as inoperable must be returned to full operation within 72 hrs.)**
11. Check loops for exposed wires, poor sealant, potholes, etc.
12. Check hand holes and pull boxes for damage, duck seal and proper drainage.
13. Clear weeds from around cabinet, pull boxes, poles, etc.
14. Test Conflict Monitor for proper operation. **(Required to Certify 50% of units annually and provide certification results).**
15. Check service for proper voltage; verify all Ground/Neutral connections are connected and tight.
16. Vacuum cabinet, clean equipment and **Replace filter.** Remove any Graffiti.
17. Lubricate locks and hinges.
18. Apply insect control.
19. Check vehicle signals and flashers for proper sight distance, vertical clearance and alignment.
20. Verify all School zone flashers; Verify zone programming and load check batteries.

21. Complete semi-annual inspection report, sign and certify, provide to City. Include Conflict Monitor/MMU Certification results with report.