

Inc. Village of Northport
224 Main Street
Northport, NY 11768

March 6, 2020

**BID #2020-03A:
TRAFFIC LIGHT MAINTENANCE PROPOSAL FOR THE VILLAGE OF NORTHPORT**

The purpose and intent of this proposal is to procure pricing for the maintenance of all traffic signals within the confines of the Inc. Village of Northport. All labor must comply with the requirements set forth in Article 8 of the New York State Labor Laws.

Sealed bids will be received by the Inc. Village of Northport, 224 Main Street, Northport, NY 11768 until 11:00am prevailing time, Friday, March 13, 2020, when they will be publicly opened and read aloud.

Item #1:

Furnish a licensed electrician on an hourly basis to provide various electrical services regarding traffic signals for the Village. Prices submitted for electrician will be valid until February 28, 2022.

Item #2:

Furnish a bucket truck on an hourly basis to maintain traffic signals throughout the Village. Prices submitted for bucket truck will be valid until February 28, 2022.

Item #3:

Furnish a licensed electrician on an hourly basis to provide emergency electrical services regarding traffic signals for the Village. Prices submitted for electrician will be valid until February 28, 2022.

Item #4

Furnish a bucket truck on an hourly basis to provide emergency electrical services regarding traffic signals for the Village. Prices submitted for bucket truck will be valid until February 28, 2022.

Materials:

Materials shall be paid for on the basis of the contractor's cost, including all discounts, plus 15% percent for overhead and profit. Requisitions to the Village must include a copy of the invoice from the supplier.

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Contract Renewal:

This contract for service may be renewed for a one-year period by mutual agreement.

Notes:

The right is reserved by the Village to waive any informalities in, to reject any or all bids submitted, or to accept the bid and award the contract to the lowest, responsible formal bidder, in the best interests of the Village, pursuant to Section 103 of General Municipal Law.

A proposal submitted by a bidder who is not in full compliance with the provisions of the Village of Northport's Village Code at the time of submission will be denied.

Insurance:

The Village requires the contractor to show proof of insurance, including workman's compensation and disability, as per the next two attached pages.

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Insurance Requirements for Independent Contractors/Sub-Contractors

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The independent contractor /Vendor shall maintain at a minimum the following insurance giving evidence of same to Incorporated Village of Northport on **the form of Certificates of Insurance, copies of the General Liability Declaration Page and copy of the Additional Insured Endorsement, providing 30 day notice of cancellation, non-renewal or material change.** New York State licensed carrier is preferred; any non-licensed carriers will be accepted at the Municipalities discretion. The insurance carrier must have an A.M. Best Rating of at least A- IX. All subcontractors must adhere to the same insurance requirements.

Certificate Holder for all policies: Incorporated Village of Northport
224 Main Street
P.O. Box 358
Northport, NY 11768

I. Workers Compensation and NYS Disability

Coverage	Statutory
Extensions	Voluntary Compensation; All States Coverage Employers Liability - Unlimited

II. Commercial General Liability

Coverage and Limits	Occurrence - 1988 ISO or equivalent
	General Aggregate \$2,000,000
	Products & Completed Operations \$2,000,000
	Personal & Advertising Injury \$1,000,000
	Per Occurrence Limit \$1,000,000
	Fire Damage \$ 50,000
	Medical Expense \$ 5,000

Additional Insured Incorporated Village of Northport, all elected and appointed officials, employees and volunteers using ISO Form CG2026 or equivalent including products and completed operations coverage.

Extension – Mandatory Aggregate Limits to apply per project.

Full Contractual Liability extending to Hold Harmless.
Contractual Liability Insurance is afforded per the definition of “insured contract” as defined in Form CG0001 with no endorsements that amend or restrict the definition of “insured contract”.

The general liability is to be primary and non-contributory and does not include any exclusion, limitation or restriction pertaining to exterior work height or “action over” type claims.

Waiver of Subrogation is the favor of the additional insured.

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Pollution Liability

If contract involves environmentally regulated substances or hazardous material exposure(s) and/or the disposal of waste or other hazardous substance from the worksite, the contractor shall maintain Contractor's Pollution Liability including Pollution Legal Liability insurance in the amount of at least \$5,000,000. per occurrence for 3rd party liability and clean-up. This coverage is to remain in effect for a minimum of (5) five years following the completion of work. If written on a claim made basis, the retroactive date must pre-date the inception of the contract or agreement.

III. **Automobile Insurance**

Limit \$1,000,000. Combined Single Limit
Additional Insured Incorporated Village of Northport, all elected and appointed officials, employees and volunteers.

IV. **Umbrella Liability (if requested by Village)**

Coverage Umbrella Form or Excess Follow Form of primary general liability and auto liability
Minimum Limit \$1,000,000.

Additional Insured Incorporated Village of Northport, all elected and appointed officials, employees and volunteers.

INDEMNIFICATION/HOLD HARMLESS AGREEMENT

The Vendor/Contractor shall indemnify and hold harmless the Incorporated Village of Northport, its officers, employees, and/or agents from any and all liability, damage, loss, claims, demands and actions of any nature whatsoever, for any reason whatsoever, foreseeable or unforeseeable, which arises out of or is connected with, or is claimed to arise out of to be connected with, any undertaking, product, goods, merchandise, products, services sold and/or work supplied, furnished or performed by the Vendor/Contractor or its agents, liability, damages, loss, claims, attorneys and adjusting fees, demands and actions on account of personal injury, death or property loss to the Incorporated Village of Northport its officers, employees, agents or to any other persons, third parties, or property, but shall not include claims resulting from the gross negligence or willful misconduct of the Incorporated Village of Northport. This indemnity and hold harmless is intended to be as broad as is permitted by law and to include claims of every kind and nature – for tort, under contract, for strict liability or other liability without fault, under statute, rule, regulation or order, and otherwise.

IN WITNESS WHEREOF, the undersigned has duly executed this Agreement the ___ day of _____, 20__.

Witness

Name of Firm

Signature

Address

Date

Contractor's Signature

Print Name

(Please Print Name and Title)

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BID SPECIFICATIONS

MAINTENANCE OF TRAFFIC SIGNALS PROPOSAL FOR THE VILLAGE OF NORTHPORT

DIVISION I – GENERAL SPECIFICATIONS

1. Scope of Work

These specifications are for the maintenance of all electrically operated traffic signals and other traffic control devices beginning at 0001 hours on March 1, 2020. The signals, signs and equipment shall be maintained in good condition and in proper working order as specified in this contract.

The Contractor shall maintain existing signals, and when required shall furnish and/or install new and/or used traffic signal equipment in accordance with the Specifications, Special Notes and Details, Maintenance Listings (subject to revision) and/or as ordered by the Director.

The Contractor shall furnish all transportation, labor, materials, signs, supplies, equipment, tools and appurtenances necessary to satisfactorily perform the work in accordance with these specifications or as ordered by the Director.

The Contractor, while performing under this contract, shall be responsible for the safety of his/her personnel and all other persons and property within his scope of work.

The Village reserves the right, during the term of this contract, to increase or decrease the area of coverage and the Contractor is hereby advised that he/she will receive no additional compensation other than the unit prices as expressed in the contract for such addition or deletion.

2. Contract Period

The period of this contract shall be from March 1, 2020 to February 28, 2022. The Village reserves the right to extend the contract for an additional time period of up to one year, provided both the Director and the Contractor mutually agree to the extension.

3. Definitions

Contractor – The successful bidder of this contract.

Controller – The mechanism used to time and control the indications of traffic signals, including the cabinet, terminals, wiring switches, cabinet relays, auxiliary equipment, coordination units, preemption devices and all other parts, except time clocks, detectors and amplifiers, and special timing units as designated.

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Department – The Public Works department.

Director – The Village Administrator.

Electrically Operated Traffic Control Devices – All traffic control signals, pedestrian control signals, flashing school speed limit signs, floodlights and all other illuminated devices whose maintenance is the responsibility of the Department.

Floodlight – A high output lamp or lamps including fixtures, switches, and switch boxes, the principle function of which is the illumination of policemen directing traffic.

Foundation and Pole – A concrete base and metal or wood pole including mast arms, used primarily to support an illuminated traffic control device and/or signal control equipment. Wood poles maintained by utility companies are not included in this definition.

Hourly Rates – Shall be the amount bid for work performed on a Time and Materials basis and shall include all fringe benefits, overhead, and profit (as applied to Section 2 of the Bid Proposal).

Local Receiver Units – An electrical device used to transfer the message from the local master controller to the traffic signal controller. This unit is located within the confines of the traffic signal controller cabinet.

Local Master Controller – An electrical device used to supervise the split, offset and cycle length of traffic signal controllers in a system. This device is field located on or near the artery it is controlling.

Maintain, Maintaining, Maintenance – These terms shall include, in addition to other work specified, the following:

- (a) The furnishing, repair and replacement of switches, fuses, cutouts, sockets, relays, flashers, vacuum tubes, resistors, transistors, capacitors, contacts (signal, relay and dial), solenoids, dial motors, and other small motors, load switches, power packs and other equipment necessary for the proper operation of controllers, relay controllers, electronically operated traffic control device components (not including permanent replacement of complete controllers), pedestrian push buttons and vehicle detectors.
- (b) The furnishing, repair and replacement of all defective or worn out units or parts thereof and appurtenant equipment for the items described in section (a). Any replacement units or parts shall be the equal of the original unit or part replaced. Before the contractor replaces a

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- defective unit or part with anything but the same manufacturer's make, model, quality etc., he shall first receive permission in writing from the Director.
- (c) The repair and readjustment of all connections, wiring, adjustments, timing and setting required for establishing accurate, efficient and proper operation of equipment.
 - (d) The installation of suitable operating temporary equipment following damage to any equipment for traffic control whose responsibility rests with the Department, including all necessary wiring and connections and arrangement with the public utility companies for electrical service, if required, until permanent equipment can be installed. The Contractor will notify the Department whenever the use of a temporary controller will not be in conformance with the existing phasing. This notification to be made within 48 hours of the installation of the temporary controller.
 - (e) The continuance of a regularly scheduled preventative maintenance program. This work shall be done once every six (6) months during the scheduled re-lamping program.
 - (f) The establishment of a painting program for all poles, pedestals, posts, control boxes, mast arms, etc.
 - (g) The continuance of a regularly specified scheduled re-lamping program.
 - (h) The raising of any span wire supported overhead signs. The Contractor will maintain the proper height of (17') for the signs only.

Materials – Shall include all physical components and equipment used in performing the required work (as applied to Section 2 of the Bid Proposal).

Miscellaneous Devices – Devices not included in any other categories.

Overtime – Overtime paid by the Contractor on emergency time and material work as ordered by the Director will computed from the total labor cost actually paid by the Contractor and shall be listed from other time costs. All overtime shall be verified by the Director.

Pedestrian Push Button Assembly – A device used by pedestrians for the purpose of actuating a controller, including push buttons, castings, instruction plate and all other parts.

Pedestrian Signals – Devices used to indicate street crossing intervals to pedestrians by the illumination of messages reading "WALK", "DON'T WALK", or other similar messages and includes the housing, visors, access doors, transformers, neon tubes or incandescent lamps, gaskets, wiring and all other parts.

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Relay Controller – A relay assembly in a cabinet, used in lieu of a controller to change indications of traffic signals, including the cabinet, terminals, wiring, switches and all other parts.

Scheduled Maintenance – Work items that shall be done regularly to ensure that all traffic signal equipment will continue to operate safely and efficiently.

Supports – All structural parts, such as span wires, mast arms, brackets, clamps, and parts thereof used to support traffic control devices and floodlights on poles or other structures.

Traffic Signal Face – A traffic signal face is that part of a traffic signal head provided for control of traffic approaching from a single direction and includes any arrows or pedestrian indications provided.

Traffic Signal Heads – One or more traffic signal faces mounted together and used to control traffic by the illumination of colored lenses, including the housing, visors, doors, sockets, lamps, reflectors, lenses, gaskets, wiring, hangers, back plates and all other parts. Including in this classification are pedestrian signal heads which have incandescent lamps.

Traffic Signal Section – A traffic signal section is that part of a traffic signal face consisting of an assembly of a lens, reflector, lamp, lamp socket and housing with the necessary supporting parts to be used for providing a single signal indication (e.g. the red, amber, green, green arrow or pedestrian indication).

Unscheduled Maintenance – Emergency repairs which occur as the result of equipment failure or damage, and includes all work required to restore a traffic signal system to an acceptable operating state, satisfactory to the Director.

Vehicle Detection Equipment – All equipment used to detect the presence or motion of a vehicle for actuated controllers (i.e. relays, amplifiers, magnetic units, pressure pads, frames, power supply roadway loops, etc.).

4. **Communications**

A twenty-four-hour communication service shall be maintained every day in the year sufficient to ensure compliance with the terms of this Specification. Each call for service will be recorded on a form to be approved by the Director which will show time of call, nature of call and names of persons transmitting and receiving the call.

5. **Response to Calls**

Unless otherwise directed by the Department, the Contractor shall report to a site within two (2) hours from the time he is notified that a traffic signal installation, system or other equipment under the jurisdiction of the Department requires unscheduled

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maintenance. The Contractor's receipt of call shall be considered as when the Contractor's communication center or answering service receives the call. The time that the Contractor received notification from the answering service shall not be considered as time of receipt of call.

6. Charging Contractor for Work Performed by Others

When the Contractor fails to perform in accordance Section 5 – RESPONSE TO CALLS, this work will be subject to being accomplished by other than the Contractor as determined by the Director. All direct and indirect costs and expenses related thereto will be paid by the Contractor.

7. Temporary Traffic Devices

When it is found impractical to immediately restore malfunctioning equipment, the Contractor shall immediately provide a temporary device, satisfactory to the Department and maintain same until it can be replaced with the permanent traffic control device. To facilitate the restoration of permanent equipment, the Contractor shall provide temporary poles or supports and necessary wiring and connections for signal heads and illuminated signs adjacent to the permanent location until permanent equipment is put in operation.

Due to the complexity of certain traffic control devices, all existing traffic signal sections, which will not be illuminated during the operation of the temporary signal equipment, shall be bagged.

Within ten (10) days, the permanent equipment shall be installed and in operation and temporary equipment removed, unless special authorization for extended use of temporary equipment installed, maintained, and removed at no additional cost to the Village.

8. Stock of Parts

The contractor shall maintain a complete stock of repair and replacement parts in adequate storage facilities. This stock shall be sufficient to insure efficient and prompt maintenance under the terms of this Specification. This stock shall be available at all times for the inspection of the Director, or his designated representatives.

For the purposes of repair and maintenance, the contractor will furnish all parts designated for use in the operation of electrical traffic control devices, poles and supports, including complete units or parts of the following equipment: signal poles, span wire, mast arms, hangers, brackets, controllers, controller cabinets, signal cable, special controllers, time switches, flashers, repays, pedestrian signals, pedestrian push buttons, vehicle detectors, anchor bolts, anchor bolt jigs, plus parts thereof, including dial units, relays, sockets, cutouts, contracts, panels, vacuum tubes, transistors, resistors, capacitors, transformers, load switches, power packs, and all other necessary units and components required to fulfill the terms of this contract. The Village may, under certain conditions, furnish equipment and materials for use under this contract.

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9. Repair Staff and Shop

The contractor shall maintain a sufficient staff of trained maintenance, repair and reconditioning personnel, plus a well-equipped and adequate shop area. The personnel and shop area shall be available at any time during normal working hours for the inspection by the Director, or his designated representatives.

10. Controller Timing and Checking

Timing schedules and dial settings for the traffic signal control devices at Village maintained signalized intersections will remain in force as of the first day of this contract. The controllers shall be kept operating by the Contractor in strict accordance with these schedules, unless notified of modifications the Director requires to be made. The Director may order the cycle length, split, offset, and dial settings of any number of controllers be changed as he/she deems desirable, which shall be considered as part of the normal maintenance and not time and material. At no time will the contractor alter timing unless it comes from within the confines of this contract or as ordered by the Director.

Timing schedules found deviating from the established schedules shall be corrected immediately. Excessive and repeated deviations in the same controller shall be fully investigated and corrected by the contractor, and reported to the Director in writing.

Nothing therein shall be construed to relieve the contractor of his obligation to correct electrical or mechanical trouble in the controlling mechanisms or interconnecting cables at more frequent intervals, if such are reported to him or found by him to be faulty in any respect.

11. Routine Preventative Maintenance

The contractor shall perform routine preventative maintenance and inspection of all traffic control devices and record the results on a form approved by the Director. The contractor shall submit, as part of the monthly claim, completed forms for all intersections where the routine maintenance and inspection has been performed during that month.

This work shall be done once every six (6) months during the scheduled re-lamping program for the life of this contract. This program shall include the setting, inspection, lubrication, re-setting, adjusting and cleaning of time switches, flasher motors, cabinets, controllers, minor movement controllers, pedestrian times, advance green timers, and all other auxiliary equipment, relay controllers and master controllers, system controllers (both local and master), and detectors, including repairs and replacement of parts. Broken or worn parts shall be replaced, electrical contact devices cleaned, and spring tensions, relays, cam shafts, and other moving parts properly adjusted. Electronic and solid-state controllers shall be calibrated.

All poles, supports, and their various component parts such as fuses, visible wiring, foundations, etc. shall be inspected. Units and parts found defective and in a hazardous

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condition shall be repaired or replaced immediately; other conditions requiring repair or replacement of parts shall be reported in writing to the Director for his authorization to undertake this work.

Included as part of this work shall be a complete inspection of all interconnected signal systems for proper coordination and timing. All components within the system including dial units, solid-state coordination units, synchronizers, master coordination units, interconnect cable and all related equipment shall be checked for proper operation and necessary repairs shall be made immediately.

12. Vehicle Detector Inspection

The Contractor shall perform an inspection of all vehicle detectors every six (6) months, in conjunction with the scheduled re-lamping, by the Contractor. A complete report of said inspection shall be forwarded to the Department as part of the monthly claim form every third month.

13. Records and Reports

- a. The Contractor shall keep neat, accurate and up-to-date records of all work performed under the contract. All records and reports shall be in a format approved by the Director.
- b. Equipment records shall include, but are not limited to, the following information:
 1. Location and number of intersections controlled by signals, floodlights, and other electrically operated traffic control devices.
 2. Type and amount of equipment at each intersection, and method of operation.
 3. Time, date, and details of repairs, replacement, cleaning, inspection, etc., by intersection.
- c. A duplicate copy of the Contractor's work orders shall be forwarded to the Director monthly. These work orders shall be in a format approved by the Director and shall include, but are not limited to, the following:
 1. Location and malfunction.
 2. Signal number and name of intersection.
 3. Contractor's work order number.
 4. Date and time contractor was notified of malfunction.
 5. Person making notification or authorizing work and command.
 6. Date and time Contractor arrives at scene.
 7. Type of malfunction and/or damage found, in reasonable detail.
 8. How malfunction and/or damage was repaired and serviced, in reasonable detail. If repair was temporary, then additional work order shall be completed and submitted at time of permanent repair.

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- d. Immediately after repair of a malfunctioning traffic signal light or other electrically operated traffic control device, the contractor shall notify the Director and inform him/her of the time, date, and other pertinent information concerning the repair of any such device.
- e. All wiring diagrams pertaining to Village owned equipment, originating either with the equipment manufacturer or the Contractor, are the property of the Village. The Contractor shall maintain legible, updated wiring diagrams in a secure location within the controller cabinets at all times.

14. Intersection Record

- a. The 5x8 intersection record card shall be maintained by the contractor with the awarding of this contract. This record card shall remain at the intersection controller cabinet.
- b. This record card shall be kept up to date by indicating each device, showing the name, model #, manufacturer and serial number of the devices, if possible. The card shall also show street address, intersection number, the date any device was installed, the date removed for maintenance (regular or emergency), the work done on the device, the parts used and the date re-installed.
- c. This record shall also include the controller timing and checking as described in paragraph 10 of this specification.
- d. The format of the above record shall be approved by the Director.

15. Vandalism

All damage done as a result of vandalism is to be repaired by the Contractor at no additional cost to the Village.

16. Apparent Omissions

The apparent silence of these specifications as to any detail, or the apparent omission from them of a detailed plan concerning any work to be done and materials to be furnished shall be regarded as meaning that only the best general practice is to prevail and that only the best workmanship and material is to be used. Work not specified but involved in the proper execution of the work, is required and shall be performed by the Contractor as though it were specifically delineated or described. Interpretation of these specifications shall be made upon that basis. All schedules, directives and conditions are subject to change by the direction by the Department of Traffic.

17. Maintenance of Traffic

The Contractor shall perform his work in such a manner as to not unnecessarily delay or interfere with vehicular and pedestrian traffic.

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At all times, the Contractor shall conduct his operations in a manner so as to ensure the safety of the motorist, pedestrian, and his own employees.

If work performed under this contract requires roadway openings, the following shall be strictly adhered to:

Across all roadway pavement, no more than ten (10) feet of pavement is to be open at any one time. No work will be permitted between 7am and 9am, or 4pm and 6pm, Monday thru Saturday unless otherwise authorized by the Director. During these periods and at all times when work is not in progress, all openings in the roadway shall be covered with steel plates or temporary pavement to safely permit traffic to cross over the excavation.

All work performed under this paragraph shall be at the contractor's expense, at no additional charge to the Village.

18. Subsurface Structures

Before doing any work over, under, or near duct lines, vaults or other subsurface, the Contractor shall, at his own expense, make such arrangements for properly removing or protecting them during the progress of this work as shall be satisfactory to the owners of the structures. Any damage to such structures shall be repaired by the Contractor at his expense to the satisfaction of the owners of the structures.

19. Cleanliness

Upon completion of the work at each location the Contractor shall remove all remaining material and shall leave the area, which may have been affected by his operation, in a neat and orderly condition.

DIVISION II – Details of Items

A. MAINTENANCE

1. Item Numbers

Item numbers for maintaining traffic control devices shall be as follows:

<u>Item Number</u>	<u>Description</u>
TM-A	Maintain traffic signal
TM-B	Maintain flashing signal
TM-C	Maintain flashing school signal speed limit assem.

2. Description

- a. Under these items, the Contractor shall maintain traffic control devices in accordance with these specifications.
- b. This maintenance shall include scheduled and unscheduled maintenance of foundations, poles, supports, signals, controllers, interconnect cables,

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detectors, push-buttons, and all auxiliary equipment necessary for the proper operation of the traffic control devices covered by the contract.

3. Materials

All materials used shall comply with the requirements set forth in these specifications, standard specifications of the Department for traffic items, and shall be subject to the approval of the Director.

4. Maintenance Details

a. Foundations, Poles and Pull Boxes

The work includes the maintenance of foundations and poles combined (referred to as "pole") and includes the repair or replacement of the pole caps, bolt covers, and tightening of anchor bolts, the making of necessary cable and wiring connections between the foundation and/or span and device, the raking of poles, the repair of junction or concrete pull boxes and their frame and covers, and the performance of other work necessary to keep foundations and poles in proper condition.

The following classes are to be maintained:

1. Traffic signal poles and foundations
2. Auxiliary poles for push buttons, floodlights, etc.
3. Pull box (concrete plastic)
4. Signal posts and foundations
5. Timber poles

5. Supports

The work includes the maintenance of supports and includes the straightening of mast arms, the removal, relocations, reassembly and reinstallation of span wire, the making of necessary conduit, cable and wiring installations and connections, and the performance of any other work necessary to keep the supports in the proper condition and the signal heads at the proper height (15' 6").

The following classes of supports are to be maintained:

- a. Span wires and interconnect cable supports
- b. Back guy assemblies
- c. Mast arms
- d. Aerial cable supports

6. Illuminated Traffic Control Devices

The work includes the maintenance of illuminated traffic control devices, excluding lamps, on all types of poles, support and structures, and includes the cleaning, repair, removal, reassembly, reinstallation, and straightening of the devices and their components; and the making of necessary cable and wiring connections, and the performance of other work necessary to keep the devices

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in proper condition. The maintenance of pedestrian control devices shall include, in addition to the above work, the replacement and repair of luminiferous tubes, transformers and all other components of these devices.

7. Controllers

The work comprises the maintenance of traffic signal controllers and all control components of interconnected and non-interconnected systems. Included are the location of trouble repair, removal, reassembly, and replacement of controllers and all components, such as conflict monitors, cabinets, air filters, batteries, flashers, relays, fuses, wiring and other auxiliary devices, stenciling or re-stenciling of traffic signal intersection number, together with all other work necessary to maintain the controllers functioning properly at the prescribed operation and timing schedule. All vehicle and pedestrian actuated controllers shall operate at all times as actuated equipment. No recall switches shall be activated unless prescribed by the timing chart or upon written authorization by the Director. All conflict monitors removed for service shall have a suitable temporary replacement installed.

All equipment shall be lubricated in accordance with manufacturer's recommendations, and the units shall be cleaned once every six (6) months and cabinet filters changed every twelve (12) months as part of the scheduled routine maintenance program.

Included under this paragraph is the changing of the programs on the local master controllers according to seasons or special events as ordered by the Director. The Director may order the cycle length, split and offset of any number of controllers to be changed, which shall be considered as part of this item. The use of lamps to maintain a desired temperature in the controller cabinet is prohibited.

Every twelve (12) months the Contractor shall schedule and perform a check of all controller fail safe systems and forward the results to the Director.

The classes and approximate quantities of controllers to be maintained are as follows:

Traffic Signals

Main Street at Church Street/Ocean Avenue

Main Street at Laurel Avenue

Scudder Avenue at Church Street

Scudder Avenue at Reservoir Avenue

Flashing Signals

Main Street at Woodbine Avenue

Main Street at Firehouse

Main Street at Woodside Avenue

8. Interconnect Cable

The work includes the maintenance of multi-conductor aerial and underground (in conduit) interconnection cable, including computer telemetry cable and includes the location of trouble, repair removal, reassembly, reinstallation of multi-conductor interconnection cable, and its associated brackets, fittings, lashings, and interconnections with controllers, and all other work necessary to maintain the cable in proper operating condition.

Included under this term is the visual inspection of all aerial cable during the scheduled routine maintenance. The result of this inspection shall be included on the maintenance and inspection report.

The work also includes the removal, relocation and reinstallation of interconnect cable from one pole to another pole as requested by a utility company or municipality. The cost shall be borne by the Contractor at no additional cost to the Village.

When the removal, relocation and reinstallation of the interconnect cable is the result of damage caused by other than normal use, this item of work shall be paid for as determined by the Director.

All replacement cable furnished under this contract shall meet current Village specifications.

9. Detectors and Timing Devices

The work comprises the maintenance of time clocks, push button assemblies, vehicle detectors, and vehicle detector amplifiers. The work includes the repair, removal, reconditioning, reassembly and reinstallation of these mechanisms and their components, the making of necessary conduit, cable, wiring installations, and connections, and the performance of any other work required to keep these mechanisms in proper working order and according to prescribed timing schedules. All equipment is to be lubricated in accordance with manufacturer's recommendations, and the units shall be cleaned once every six (6) months as part of the scheduled preventative maintenance program. Included under this paragraph is the prompt resetting of timing devices as required by changes to or from Eastern Standard and Eastern Daylight Savings Time. This resetting must be completed within 24 hours of the official time change. It should be noted that the proper maintenance of all detectors and their relay units or amplifiers are included in this paragraph.

The following classes of detectors and timing devices are to be maintained:

- a. Time clocks
- b. Magnetic vehicle detectors and amplifiers

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- c. Pressure sensitive vehicle detector units, excluding pressure pads and frames
- d. Sonic vehicle detectors and amplifiers
- e. Loop vehicle detector amplifiers including the power supply
- f. Special detectors, as designated by the Department
- g. Push button stations
- h. External special timing units such as pedestrian interval timers, advance and lagging green timers, etc.
- i. Magnetometer vehicle detectors including probes, housing and amplifiers

10. **Measurement and Payment**

- 1. The quantity to be paid for will be the number of traffic control devices maintained in accordance with the specifications, or as ordered by the Director.
- 2. Payment will be made on the basis of the unit cost per month maintained, for each traffic control device, multiplied by the number of months of the contract duration.
- 3. The unit price shall include all labor, materials, tools, equipment, and incidentals necessary to perform the work.

B. RE-LAMPING

1. **Lamp Replacement:**

Description

Re-lamp signal section – incandescent

Re-lamp signal section – Neon

Re-Lamp signal section – fluorescent

Re-Lamp signal section - LED

2. **Description**

Under this item the contractor shall re-lamp all traffic control signals, flashing signals, and fire signals once every six (6) months and perform related work as described herein and shall perform emergency re-lamping as required.

3. **Materials**

- 1. The lamps shall be manufactured by General Electric, Westinghouse, Duro-Test or approved equal.
- 2. The lamps shall meet the following minimum requirements:

Nominal Lens Diameter	
8in. (20.3cm)	12in. (30.5cm)

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Nominal lamp watts	69	150
Rated Life (hours)	6000	6000
Initial lumens	665	1950
Voltage	125	125

4. Installation Details

1. Schedule

The contractor shall re-lamp each signal section at all intersections every six (6) months in accordance with the schedule furnished by the Contractor and approved by the Director. Re-lamping at a particular intersection shall be done within seven (7) days of the specified date.

2. Changes

Changes to the intersection list may be made by the Director. The Contractor shall be responsible for modifying the re-lamping schedule accordingly.

3. Scope

All lenses, glassware, gaseous tubing, and reflectors in illuminated traffic control devices shall be kept clean. All optical surfaces shall be cleaned with a product, substance or compound which will remove dirt, grease, grime, or foreign substances from the surfaces, without damaging these surfaces. When freezing temperatures prevail, glassware shall be kept clean by a method which does not require the use of liquid or solvent which congeals or freezes below 32°F.

4. Emergency Re-Lamping

When a lamp outage occurs, the Contractor shall replace the lamp within the time limits established under Division 1.

5. Response to Calls

If all signal sections at the intersection are scheduled to be re-lamped within twenty (20) days of the outage, then all signal sections at the intersection shall be re-lamped, and the re-lamping shall be considered to have been done at the proper time. In all other instances only the affected lamp shall be replaced.

6. Signal Height

At the time of each re-lamping, the height of the bottom of each span wire mounted signal above the pavement grade at the center of the roadway shall be checked. If the bottom of any signal is less than 14'6" and 15', it shall be raised within 48 hours by the Contractor to 15'6". Any signal which cannot be raised for any reason to the proper height of 15'6" shall be first reported verbally and afterwards in writing to the Director by the Contractor as soon as the Contractor is aware of such a condition. The Contractor shall explain, in detail, the reasons why the signal cannot be raised to the proper height.

7. Pedestrian Signals

Pedestrian signals shall be re-lamped on an as required basis.

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5. Measurement and Payment
 1. The quantity to be paid for will be the number of signal sections re-lamped in accordance with the contract documents, or as directed by the Director.
 2. Payment will be made on the basis of the number of signal sections re-lamped.
 3. The unit price shall include all labor, materials, tools, equipment and incidentals necessary to perform the work.

C. INSTALLATIONS, MODIFICATIONS AND MAJOR REPAIRS

1. General

Installations, modifications, and major repairs of traffic signals and related equipment shall be performed by the Contractor, as ordered by the Director and in accordance with these specifications.
2. Description
 1. Installations

Installations may include a complete traffic signal or any component thereof, flashing signals, fire signals, flashing school signals, overhead signs, or any other traffic control device in the Village.
 2. Modifications

Modifications, may include, but will not be limited to:

 - a. Signal sequence changes
 - b. Addition of arrow or other signal section
 - c. Modify controllers for the following changes in operation:
 - Time clock
 - Pedestrian phase (push button)
 - Synchronous
 - Flashing
 - Hand Control
 - d. Similar other incidental changes to controllers, signal head and/or traffic signal installations
 - e. Major modifications of electrically operated devices due to road construction, change of warrant, New York State Standards or need for the devices.
 - f. Detectors
 - g. Interconnection cable and devices
 3. Major Repairs

Major repairs may include, but will not be limited to:

 - a. Replacement of damaged steel pole and timber pole
 - b. Replacement of damaged control box
 - c. Replacement of similar items
 - d. Replacement of damaged vehicle detectors

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- e. Reconditioning of various pieces of equipment which are in inventory

3. Materials

All materials used shall comply with the latest applicable standards and specifications of the Village and shall be approved by the Director prior to installation.

4. Installation Details

1. Orders for major repairs will normally be made by the Director and will be identified as a major repair when the request for same is made. Confirmation of major repair orders will be made in writing by the department. However, since most major repairs are of an emergency nature, work shall commence within 2 hours of the receipt of the report by the Contractor, unless otherwise authorized by the Director in writing.
2. All requests to the Contractor for estimates on installations or modifications under this item will be made in writing by the department. All estimates shall be returned in writing by the Contractor to the Department no later than 2 weeks from the date of the request.
3. Upon written notification by the Director to proceed with an installation and/or modification, the necessary work shall be completed within eight (8) weeks. If the work is not completed with eight (8) weeks, the order shall be automatically canceled unless written permission is received from the Director for a time extension by the Contractor before the end of the eight (8) week period. The Contractor shall be subject to all the provisions of this contract for any incomplete work.
4. All installation methods shall meet the latest applicable specifications and standards issued by the Department. These specifications and standards may be changed from time to time during the life of this contract, and the latest issues shall govern.

5. Measurement and Payment

1. Measurement and payment under this portion of the specifications shall be made on a time and materials and/or item basis, as determined by the Director.
2. Payment for work performed under Section 2 of the proposal (time and materials) will be as follows:
 - a. Labor and trucks shall be paid for at the hourly rates in the proposal. (No other payments will be made for other equipment used in the performance of this contract.)
 - b. Materials shall be paid for on the basis of the contractor's cost, including all discounts, plus the percent proposal for overhead and profit.

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3. Payments for items furnished and installed under Section 3 of the proposal (furnish and install items) will be at the unit prices proposed for each item.

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BID FORM – TRAFFIC SIGNAL MAINTENANCE

Bidder's Name: _____

Address: _____

Phone No.: _____

Contact Person Name & Phone No.:

Item #1:

Furnish a licensed electrician on an hourly basis to provide various electrical services regarding traffic signals within the Village. Prices submitted for electrician will be valid from March 1, 2020 until February 28, 2022.

\$_____/hour

Optional one-year extension (March 1, 2022 until February 28, 2023):

\$_____/hour

Item #2:

Furnish a bucket truck on an hourly basis to maintain traffic signals within the Village. Prices submitted for bucket truck will be valid from March 1, 2020 until February 28, 2022.

\$_____/hour

Optional one-year extension (March 1, 2022 until February 28, 2023):

\$_____/hour

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Item #3:

Furnish a licensed electrician on an hourly basis to provide emergency electrical services regarding traffic signals within the Village. Prices submitted for electrician will be valid from March 1, 2020 until February 28, 2022.

\$ _____/hour

Optional one-year extension (March 1, 2022 until February 28, 2023):

\$ _____/hour

Item #4

Furnish a bucket truck on an hourly basis to provide emergency electrical services regarding traffic signals within the Village. Prices submitted for bucket truck will be valid from March 1, 2020 until February 28, 2022.

\$ _____/hour

Optional one-year extension (March 1, 2022 until February 28, 2023):

\$ _____/hour

Submitted by: _____

Signature: _____

Title: _____

Firm Name: _____

Address: _____

Dated: _____