



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
16 STATE HOUSE STATION  
AUGUSTA, MAINE 04333-0016

Janet T. Mills  
GOVERNOR

Bruce A. Van Note  
COMMISSIONER

January 14, 2021  
Subject: Traffic Signal Updates  
State WIN: 024301.00  
Location: **Statewide**  
**Amendment No. 2**

Dear Sir/Ms.:

For your information and review:

The “Compliance with Functional Requirements Matrix” has been posted to the MaineDOT web site in both Microsoft Excel and Adobe PDF format.

Please make the following changes to the Bid Documents:

In the Bid Book:

**REMOVE** pages 18 – 50, Proposal Schedule of Items, 33 pages, dated 12/10/2020, and **REPLACE** with the attached, revised Proposal Schedule of Items, 33 pages, dated 1/12/2021.

**REMOVE** pages 51 – 58, CONTRACT AGREEMENT, OFFER & AWARD, 2 copies, 4 pages each, and **REPLACE** with the attached, revised CONTRACT AGREEMENT, OFFER & AWARD, 2 copies, 4 pages each.

**REMOVE** page 141, SPECIAL PROVISION – SECTION 107 – PROSECUTION AND PROGRESS – (Contract Time), 1 page, dated August 31, 2020, and **REPLACE** with the attached, revised SPECIAL PROVISION – SECTION 107 – PROSECUTION AND PROGRESS – (Contract Time), 1 page, dated January 13, 2021.

**REMOVE** page 170, SPECIAL PROVISION – SECTION 502 – STRUCTURAL CONCRETE – (QC/QA Acceptance Methods), 1 page, dated November 25, 2020, and **REPLACE** with the attached, revised SPECIAL PROVISION – SECTION 502 – STRUCTURAL CONCRETE – (QC/QA Acceptance Methods), 1 page, dated January 11, 2021.

**REMOVE** pages 172 - 173, SPECIAL PROVISION – SECTION 609 – STRUCTURAL CONCRETE – (Slipform Concrete Curb), 2 pages, and **REPLACE** with the attached, revised SPECIAL PROVISION – SECTION 609 – STRUCTURAL CONCRETE – (Slipform Concrete Curb), 2 pages, dated December 7, 2018.

**REMOVE** pages 194 - 197, SPECIAL PROVISION – SECTION 643 – TRAFFIC SIGNALS – (Non-Invasive Detection – Advance), 4 pages, dated November 25, 2020, and **REPLACE** with the attached, revised SPECIAL PROVISION – SECTION 643 – TRAFFIC SIGNALS – (Non-Invasive Detection – Advance), 4 pages, dated January 12, 2021.

**REMOVE** pages 198 - 204, SPECIAL PROVISION – SECTION 643 – TRAFFIC SIGNALS, 7 pages, dated November 25, 2020, and **REPLACE** with the attached, revised SPECIAL PROVISION – SECTION 643 – TRAFFIC SIGNALS, 7 pages, dated January 12, 2021.

The following questions have been received:

**Question:** Are temporary signals required for the intersections of the same name (Water St. at Bridge St.) in both Augusta and Randolph? There is only 1 bid item for these two different intersections.

**Response:** As detailed in Special Provision Section 643 Traffic Signals (7 of 7) page 204 within the Contract Bid Book, temporary Traffic Signals will be required for both intersections of the same name (Water St. at Bridge St) in both Augusta (Sheet #36) and Randolph (Sheet #59). See revised schedule list of items.

**Question:** In the Proposal Schedule of Items, proposal line numbers 1910 and 2770 both refer to the intersections of Water St. and Bridge St., but don't identify a jurisdiction in order to cross-reference to the plan set. Meanwhile, Bridge and Water Streets are identified in the plan set separately on Sheets 36, 55, and 59. Please clarify which proposal line items Sheets 36, 55, and 59 correspond to.

**Response:** See previous response.

**Question:** Is there any make-ready work and/or utility fees required for the attachment of the overhead fiber cable for any of the locations? If so, how will this be paid? Generally these are not quantifiable and would be an allowance pay item.

**Response:** The Contractor shall be responsible for coordinating any utility specific make-ready scope at each intersection in each municipality. All coordination shall be incidental to the appropriate bid schedule item. All utility fees shall be the responsibility of MaineDOT.

**Question:** Will utility fees required to complete the work (i.e. any electrical services) be reimbursed?

**Response:** All utility fees shall be the responsibility of MaineDOT.

**Question:** How will police details be paid for?

**Response:** Police detail will be paid for under item #652.381 Traffic Officer. The Contractor is expected to set up coverage with the local Police Departments and pay for it, and then with the bi-weekly estimates to the Contractor, the Contractor will be reimbursed for it per hour.

**Question:** Section 718 says "post-bid, pre-award", but then seems to say the matrices have to be submitted with the bid. Which is correct? Do the matrices need to submit with the bid, or post bid prior to award?

**Response:** Upon determination of the low bid, that perspective Contractor will be required to submit their completed matrices in support of their bid. If it is found that the responses do not comply with the Functional Requirements of the project, the Contractor with the next lowest bid will be required to submit their completed matrices in support of their bid. The process may continue until MaineDOT is satisfied that the perspective Contractor and their proposed equipment meets the Functional Requirements of the project.

**Question:** Does the Disadvantaged Business Enterprise Proposed Utilization need to be submitted with the bid, or post bid prior to award?

**Response:** The Disadvantaged Business Enterprise Proposed Utilization form should be turned in with the bid.

**Question:** Can a WBE company count toward the Disadvantaged Business Enterprise Proposed Utilization goal?

**Response:** In Maine there is not a separate state WBE program. Maine only has the Federal program. So, if the company is certified in Maine as a W/DBE then yes, the company would qualify.

**Question:** If bedrock is encountered, will its removal be paid for via item 626.60?

**Response:** Bedrock removal is incidental to the item no. 626.60 as indicated in the Standard Specifications, found on page 6-91, Section 626.05 Basis of Payment.

**Question:** Proposal line #2940 (item 643.90) does not reference a location, but instead a total footage (7000'). Is this a typo?

**Response:** This is not a typo. Item 643.90 is to be bid upon by lump sum all-inclusive for fiber optic interconnect installations throughout the project, though most of the work will be within the City of Sanford, see Plan Sheets V-AD and Special Provision Section 643 Traffic Signals (4 of 7) page 201 within the Contract Bid Book for additional information.

**Question:** Does the Department have licenses/permits from the respective utilities to install their equipment (ie fiber cable) on the utility poles on this project?

**Response:** In regard to the fiber cable, MaineDOT will acquire all necessary Permits/Licenses.

**Question:** There appears to be a missing bid proposal line for the Non-Invasive Detection - Advance at Civic Center Dr and I-95 SB Ramps.

**Response:** See revised Schedule of Items.

**Question:** There appears to be a missing bid item for Traffic Signal Modifications: Kennedy Memorial Drive (KMD) at Carter Memorial Dr (CMD).

**Response:** See previous response.

**Question:** Proposal schedule of items do not show Non-Invasive Detection Advance for Civic Center Dr @ I 95 SB Ramps, however, plan set sheet #5 of 358 is showing a quantity of two Non-Invasive Detection Advance to furnish and install. Which line item should we include these under?

**Response:** See previous response.

**Question:** The List of Work Items shown on Sheet 5 of 358 includes the installation of a Non-Invasive Advance Vehicle Detection System however it is not listed in the Proposal Schedule of Items. Please advise.

**Response:** See previous response.

**Question:** Are there any specifications for the luminaires for the dual purpose pole? Also what type of mounting will these luminaires have on the mast arm pole?

**Response:** Luminaires on dual purpose poles will be transferred to the new structure at a location and height that will provide the same ground illumination, as the light on the original pole, the Resident will be notified of fixtures that are nonfunctional and or not full cut off, before transferring. New mounting is to be similar to the existing.

**Question:** Intersection item lists on the plans include furnish & Install new signal cable, does that mean the entire intersection is being re-cabled, or is it limited to only the signals being replaced?

**Response:** The entire intersection is to be re-cabled.

**Question:** Intersections 41-45,54, 55,59, 73, 87, 90, 91 do not include a line item to Furnish & Install new signal cable, is that correct or are these intersections being re-cabled as well?

**Response:** These intersections are to be re-cabled as well.

**Question:** Is a field office and/or engineer's equipment (ie laptop) to be furnished to the department? If so, how is this paid?

**Response:** No field office will be required.

**Question:** Is concrete testing the responsibility of the contractor? If yes, how is this paid?

**Response:** Quality acceptance is the responsibility of the Department, or a Consultant hired to represent the Department. This would include making acceptance cylinders for compressive strength, surface resistivity, and verifying the entrained air content. This would also include testing the

specimens. The Contractor is responsible for providing the testing equipment to the Department and also for providing a curing box to store the test specimens.

Quality control is the responsibility of the Contractor. Depending on the Method of Acceptance (A, B, or C) the Contractor is responsible for the various levels of quality control testing and hiring the required technicians.

As far as how this is paid for, a bid item number will be added to the Schedule of Items for a curing box. All of the other costs involved are incidental to the items they pertain to.

**Question:** On pages 199-200 under section 643.12 Painting. Could you please provide the FED color code for each of the colors referenced?

**Response:** Color codes will be discussed with the Contractor awarded the project.

**Question:** Will ALL the signal head mounting hardware also need to be painted to match the signal head colors?

**Response:** The bronze structures in the City of Augusta Capitol Complex Historic District shall have matching bronze mounting hardware. All project intersections that have been identified to be provided with black signal heads shall be provided with black mounting hardware. Intersections identified to have federal yellow signal heads can be provided with the default color scheme, typically bare metal.

**Question:** Could the “Compliance with Functional Requirements Matrix” be provided as an electronic document in MS Excel format?

**Response:** The “Compliance with Functional Requirements Matrix” has been posted to the MaineDOT web site in both Microsoft Excel and Adobe PDF format.

**Question:** We respectfully request that the Iteris Vantage NEXT video detection system with the Vantage NEXT camera be considered as an accepted Non-Invasive Detection - Stop Bar detection system on this project. The Iteris NEXT video detection system has been successfully deployed on another Maine DOT project. It is understood that Maine DOT does not wish to utilize a hybrid video/radar sensor unit.

**Response:** The Iteris Vantage NEXT video detection system with the Vantage NEXT camera will not be accepted on this project.

**Question:** Special Provisions section 718 calls for the following:

- a. The Contractor shall supply Dual Mode C-V2X OBU for five (5) emergency vehicles. (page 301)
- b. The Contractor shall supply, install and interface a Dual Mode C-V2X OBU into five (5) existing Maine DOT snowplow vehicles. (page 302)
- c. The Contractor shall supply Dual Mode C-V2X OBU for five (5) freight vehicles. (page 303)

The requirements listed include a total sum of 15 units to be supplied. The “Proposal Schedule of Items” includes a quantity of 5 EA for Line number 3280 – 654.352 ON-BOARD UNIT (OBU) VEHICLE EQUIPMENT. Please confirm the quantity of On-Board Units required.

**Response:** The procurement of OBU's for this project will be a quantity of 15 EA. See revised schedule of items.

**Question:** At locations 42 & 43 the item list says to replace span wire, is the tether wire to be replaced as well?

**Response:** Tether wire shall be replaced or added to any project intersection that provides existing or proposed span wire.

**Question:** At location 42 the plans state to maintain the existing fire station preemption, does this require re-cabling back to the fire station?

**Response:** The Contractor shall verify the integrity of the existing fire station preemption with the Resident Engineer and if found viable re-cabling will not be necessary.

**Question:** Item 643.97 include a quantity of one wood pole. We count a total of three on the plans. Please clarify the quantity of the pay item.

**Response:** The wood pole with guys called for under Item 643.97 will have a furnish and install quantity of 1 as called out on Sheet 30 and detailed in the List of Work Items on Sheet 30A.

**Question:** Are pole risers to be paid for under 626.210?

**Response:** As detailed in Special Provision Section 643 Traffic Signals (4 of 7) page 201 within the Contract Bid Book, pole risers are to be incidental to Item 643.90.

**Question:** Please see the below referenced line from project document bp024301.00, Section 718, Pg 5 of 81 of section 718, Pg 269 of bp024301.00.

"Shall be supplied with all necessary hardware and software elements needed to fully support Connected Autonomous Vehicle (CAV) operations utilizing dual mode DSRC/5G communications." Does this statement require that the ATC controller and the CAV dual mode DSRC/5G communications software and hardware been integrated into and be of the same manufacturer as the ATC controller?

**Response:** No, the dual mode DSRC/5G and the ATC can be from different manufacturers. The listed requirement is to ensure that all of the equipment; ATC, Advanced Transportation Controller Cabinet (ATCC) and Dual mode DSRC/5G supplied as part of the project is supplied and equipped with all of the manufacture supplied licenses to support the full CAV vehicle suite of functions as required per this project.

**Question:** For locations that require a reset of a fiber optic ethernet switch, will those switches require SFP modules?

**Response:** No, the existing Fiber optic Ethernet switches have integrated Fiber optics built into the existing switches.

**Question:** ITEM 718.19 Ethernet Switch with Fiber Optic Interfaces – The Specification calls for the switch to be a fully managed Ethernet Layer 3 device, but does not specify any specific routing protocols or services to support. Is the intent for the switch to support only static IP routing, or also dynamic routing such as RIP, OSPF, and EIGPR? Can you please provide the necessary layer 3 functions to support.

**Response:** The design calls for full layer 3 switching capability including but not limited to the following:

- IP multicast, PIM sparse mode (PIM-SM), PIM dense mode (PIM-DM), and PIM sparse-dense mode
- IP unicast routing protocols, OSPF, EIGRP, BGPv4, IS-IS, RIPv2, Policy-Based Routing (PBR), HSRP
- IPv6 routing, RIPng, OSPFv6, and EIGRPv6 support
- Security. IEEE 802.1AE MACsec (including PSK based MKA support), , SGT inline tagging and SGACL

**Question:** The specification states that two single mode fiber optic shall be SC type connector. Would SFP fiber ports be acceptable since this allows for a greater range of flexibility for each switch, however the proposed SFP modules utilize a LC type connectors?

**Response:** Yes, SFP with LC connection would be acceptable as long as the correct patch cords are used to interconnect to the fiber patch panels.

**Question:** Some of the locations listed in the paint specification on page 199-200 are shown twice and have conflicting information. For instance, locations 21-37 are shown to have black signals and bare metal cabinets and mast arms. But 28, 36 & 37 are shown on the following page to have black signals and black mast arms and cabinets. Please clarify.

**Response:** For clarification, Location 28 shall have black signals and bare metal cabinet 36 & 37 shall be provided with black signals and black mast arms and cabinets, given their location within historical districts.

**Question:** On plan sheet #50. It calls for G-Size Pole Mounted cabinet. But there's no reference to any spec detail on this G-Size cabinet. Could you provide more details? Also is a controller and FMU required at this G-Size Pole Mounted cabinet location?

**Response:** The cabinet to be supplied at this intersection must be sufficiently sized to accommodate proposed equipment at the intersection. This intersection is to be operated by the controller at Location 49 (one controller operates 2 intersections), so a dedicated traffic controller at Location 50 will not be required. An FMU will not be required at this intersection but a dedicated RSU unique to Location 50 will be required.

**Question:** 718 – Snowplow Signal Priority What type of spreader controllers are being used in 5 snow plows? Can you provide the make, model, interface (ie Ethernet), and firmware version?

**Response:** The type of spreader controllers used by the snowplows designated for OBU installation will be discussed with the Contractor awarded the project.

**Question:** 718 – Snowplow Signal Priority The requirements as for OBD-II interfaces for snow plows. In our experience the OBD-II interfaces do not provide the data needed for CV applications. Standard OBD-II diagnostic information includes elements such as; engine runtime, RPM, etc. Data elements such as Left or Right turn indicators or brake are proprietary and not included in standards interfaces. Would the DOT accept OBU's that get the information wanted through physical wired I/O contacts?

**Response:** The non-use of an OBD-II port would be acceptable, with the understanding that the physical wired I/O connection had to be able to connect to all items within the Snowplow to allow for Signal Priority.

**Question:** The specification states that the integrated antenna shall provide a 20 dBi gain, minimum, and a beam width of 10 degrees azimuth, 10 degrees elevation. Does this mean that the beam width for azimuth and elevation cannot exceed 10 degrees, or is 10 degrees the minimum that is allowed? Would a beam width of 17 degrees azimuth and elevation be acceptable?

**Response:** Yes, a beam width of 17 degrees azimuth and elevation be acceptable as long as the Wireless Ethernet radio is able to meet the 500 Mbps wireless bandwidth end-to-end throughput.

**Question:** Please update the correct bidders list for this project.

**Response:** The plan holders list on the MaineDOT web site is current. Plan holder lists are updated daily, as needed due to new plan holder requests.

**Question:** What is the maximum mobilization amount/percentage for this project?

**Response:** MaineDOT has not specified a maximum percent of the Bid for Mobilization for this project. The Contractor should familiarize themselves with how the Mobilization item is paid as stated in the Standard Specifications.

**Question:** In the Proposal Schedule of Items, proposal line numbers 1910 and 2770 both refer to the intersections of Water St. and Bridge St., but don't identify a jurisdiction in order to cross-reference to the plan set. Meanwhile, Bridge and Water Streets are identified in the plan set separately on Sheets 36, 55, and 59. Please clarify which proposal line items Sheets 36, 55, and 59 correspond to.

**Response:** See revised Schedule of Items and response to similar question above.

**Question:** At location 59 in Randolph, the plans show two radar units mounted to a wood pole on the northwest corner. The plans do not show how the communication and power cable will be run to these radar units, over head or in underground conduit. Please clarify.

**Response:** The intent here was to connect those two radar units aerially given the bridge approach.

**Question:** The plans call for the contractor to furnish and install new signal cable. Is the intent to re-cable from the cabinet to the base of the mast arm, strain pole and/or pedestal pole?

**Response:** Where called for in the plans, intersections shall be re-cabled from the cabinet through the base of the structures up to the new equipment installations (signal head, ped button, preemption device, etc.).”

**Question:** According to EDI an ATC CMU manufacturer the following statement/specification is a deviation from the NEMA ATC/ATCC specification and a conflict of the CMU software.

☐ "The CMU shall be configured such that when the “Datakey” is removed the signal shall revert into “Flash” operation. This requirement shall not be conditional based on the Opening/Closing of any cabinet door."

From Page 273 (Section 718, page 9 of 81) Is it the intent of MaineDOT to deviate from the established NEMA ATC/ATCC specification?

**Response:** For compliance with the current national ATCC standard, the requirement, as stated in the project specification referenced in the RFI, shall be waived and the data key removal provision be based on the open/closed door status as defined in the current national ATCC standard retained, noting that the data key to be removed is to be restricted to the front control side door only, the other three doors shall not allow for the data key to be removed without the signal reverting to flash.

**Question:** Will MaineDOT final acceptance be upon full project completion or will it be accepted after each stage (eg: Augusta, Waterville/Winslow)?

**Response:** MaineDOT final acceptance will be upon full project completion.

**Question:** Is the equipment for the Stop Line (643.21) permitted to communicate via SDLC Port 1?

**Response:** Yes, the stop line detector system can use the legacy SDLC port.

**Question:** What are the inputs required for Advance (6422) to communicate with the controller, SDLC or NEMA card rack?

**Response:** Depending on Contractor selected interface, it could use either one.

**Question:** Are we to furnish and install new signal cable at all of the intersections or just at the intersections where it is included in the List of Work Items?

**Response:** See previous response.

**Question:** When the List of Work Items for a particular intersection includes the statement "Furnish and Install New Signal Cable" is the requirement applicable to existing traffic signal equipment?

**Response:** See previous response.

**Question:** Intersections with existing advance detection that will be reutilized, will it use the existing rack cards or back panel inputs, or will it require SDLC and remote connectivity?

**Response:** It will require SDLC and remote connectivity.

**Question:** The specification states the following on Page 325: “The contractor shall supply the FMU with the FMU manufacturers 10 year options for Connectivity and Service, as part of the purchase price”. At what point in the project timeline is it expected that the 10-year plan for the FMU will begin?

**Response:** The 10-year period will begin after the entire project has been accepted. Prior to that, the Contractor would need to furnish an interim Connectivity and Service plan to cover the setup and testing prior to final acceptance.

Consider these changes and information prior to submitting your bid on **January 27, 2021**.

Sincerely,



George M. A. Macdougall P.E.  
Contracts & Specifications Engineer

1/13/2021

Maine Department of Transportation

Proposal Schedule of Items

Page 1 of 36

Proposal ID: 024301.00

Project(s): 024301.00

SECTION: 1 Project Items

Alt Set ID: Alt Mbr ID:

Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0010	203.20 COMMON EXCAVATION	157.000 CY	_____	 _____	_____	 _____
0020	403.210 HOT MIX ASPHALT 9.5 MM	435.000 T	_____	 _____	_____	 _____
0030	514.06 CURING BOX FOR CONCRETE CYLINDERS	1.000 EA	_____	 _____	_____	 _____
0040	608.07 PLAIN CONCRETE SIDEWALK	3,235.000 SY	_____	 _____	_____	 _____
0050	608.15 BRICK SIDEWALK WITH BITUMINOUS BASE	183.000 SY	_____	 _____	_____	 _____
0060	608.26 CURB RAMP DETECTABLE WARNING FIELD	4,020.000 SF	_____	 _____	_____	 _____
0070	608.45 CONSTRUCT SIDEWALK	155.000 SY	_____	 _____	_____	 _____
0080	608.46 REGRADING SIDEWALK	4,435.000 SY	_____	 _____	_____	 _____
0090	609.11 VERTICAL CURB TYPE 1	657.000 LF	_____	 _____	_____	 _____
0100	609.12 VERTICAL CURB TYPE 1 - CIRCULAR	452.000 LF	_____	 _____	_____	 _____
0110	609.21 CONCRETE SLIPFORM CURB	23.000 LF	_____	 _____	_____	 _____
0120	609.214 CONCRETE SLIPFORM CURB - 4' TERMINAL END	20.000 EA	_____	 _____	_____	 _____

## Maine Department of Transportation

## Proposal Schedule of Items

Proposal ID: 024301.00

Project(s): 024301.00

SECTION: 1 Project Items

Alt Set ID: Alt Mbr ID:

Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0130	609.218 CONCRETE SLIPFORM CURB - 8' TERMINAL END 8' Terminal End	56.000 EA	_____	 _____	_____	 _____
0140	609.221 TERMINAL CURB TYPE 1	1,410.000 LF	_____	 _____	_____	 _____
0150	609.222 TERMINAL CURB TYPE 1 - CIRCULAR Circular	2,225.000 LF	_____	 _____	_____	 _____
0160	609.31 CURB TYPE 3	192.000 LF	_____	 _____	_____	 _____
0170	609.34 CURB TYPE 5	305.000 LF	_____	 _____	_____	 _____
0180	609.35 CURB TYPE 5 - CIRCULAR	58.000 LF	_____	 _____	_____	 _____
0190	626.11 PRECAST CONCRETE JUNCTION BOX	31.000 EA	_____	 _____	_____	 _____
0200	626.22 NON-METALLIC CONDUIT 3 inch Conduit	4,065.000 LF	_____	 _____	_____	 _____
0210	626.221 NON-METALLIC CONDUIT CONCRETE ENCASED	1,145.000 LF	_____	 _____	_____	 _____
0220	626.251 NON-METALLIC UNDER PAVEMENT CONDUIT (SCHEDULE 80 OR GREATER RATING)	925.000 LF	_____	 _____	_____	 _____
0230	626.35 CONTROLLER CABINET FOUNDATION	71.000 EA	_____	 _____	_____	 _____

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 024301.00

Project(s): 024301.00

SECTION: 1 Project Items

Alt Set ID: Alt Mbr ID:

Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0240	626.36 REMOVE OR MODIFY CONCRETE FOUNDATION	24.000 EA	_____	 _____	_____	 _____
0250	626.421 24 INCH DIAMETER FOUNDATION	847.000 LF	_____	 _____	_____	 _____
0260	626.451 42 INCH DIAMETER FOUNDATION	130.000 LF	_____	 _____	_____	 _____
0270	626.46 48 INCH DIAMETER FOUNDATION	74.000 LF	_____	 _____	_____	 _____
0280	626.47 54 INCH DIAMETER FOUNDATION	29.000 LF	_____	 _____	_____	 _____
0290	626.48 60 INCH DIAMETER FOUNDATION	48.000 LF	_____	 _____	_____	 _____
0300	626.60 GROUTED, ROCK- ANCHORED FOUNDATION	7.000 CY	_____	 _____	_____	 _____
0310	627.711 WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE (PLAN QUANTITY)	70.000 LF	_____	 _____	_____	 _____
0320	627.75 WHITE OR YELLOW PAVEMENT & CURB MARKING	12,795.000 SF	_____	 _____	_____	 _____
0330	627.77 REMOVING PAVEMENT MARKINGS	10,380.000 SF	_____	 _____	_____	 _____
0340	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 001 Capitol St and Sewall St	LUMP SUM		 LUMP SUM	_____	 _____

Maine Department of Transportation

Proposal Schedule of Items

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Project(s): 024301.00

SECTION: 1 Project Items

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Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0350	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 002 Civic Center Dr and Commerce Dr	LUMP SUM	LUMP	SUM	_____	_____
0360	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 004 Civic Center Dr and I-95 NB Ramps	LUMP SUM	LUMP	SUM	_____	_____
0370	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 005 Civic Center Dr and I-95 SB Ramps	LUMP SUM	LUMP	SUM	_____	_____
0380	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 006 Civic Center Dr and Leighton Rd	LUMP SUM	LUMP	SUM	_____	_____
0390	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 007 Civic Center Dr and University Dr	LUMP SUM	LUMP	SUM	_____	_____
0400	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 008 Civic Center Dr and Townsend Rd	LUMP SUM	LUMP	SUM	_____	_____
0410	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 009 Eastern Ave and Cony Rd	LUMP SUM	LUMP	SUM	_____	_____
0420	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 010 Eastern Ave and Hospital St/Stone St	LUMP SUM	LUMP	SUM	_____	_____

Maine Department of Transportation

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0430	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 011 Eastern Ave and Spring St/Togus Rd	LUMP SUM	LUMP	SUM	_____	_____
0440	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 012 Hospital St and Piggery Rd/Tyson Dr	LUMP SUM	LUMP	SUM	_____	_____
0450	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 013 Route 3 (N Belfast Ave) & Church Hill	LUMP SUM	LUMP	SUM	_____	_____
0460	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 014 Route 3 & N Belfast Ave	LUMP SUM	LUMP	SUM	_____	_____
0470	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 015 Route 3 and Riverside Dr	LUMP SUM	LUMP	SUM	_____	_____
0480	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 016 Route 3 and Route 104 (W River Rd)	LUMP SUM	LUMP	SUM	_____	_____
0490	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 017 Senator Way and Crossing Way	LUMP SUM	LUMP	SUM	_____	_____
0500	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 018 S Belfast Ave and Cony Rd/Church Hill	LUMP SUM	LUMP	SUM	_____	_____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0510	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 019 State St and Capitol St	LUMP SUM	LUMP	SUM	_____	_____
0520	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 020 State St and Union St	LUMP SUM	LUMP	SUM	_____	_____
0530	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 021 Stone St and Hannaford Dr	LUMP SUM	LUMP	SUM	_____	_____
0540	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 022 Western Ave and Airport Rd	LUMP SUM	LUMP	SUM	_____	_____
0550	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 023 Western Ave and Armory St	LUMP SUM	LUMP	SUM	_____	_____
0560	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 024 Western Ave and Crossing Way	LUMP SUM	LUMP	SUM	_____	_____
0570	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 025 Western Ave and Edison Dr	LUMP SUM	LUMP	SUM	_____	_____
0580	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 026 Western Ave and Orchard St	LUMP SUM	LUMP	SUM	_____	_____
0590	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 027 Western Ave and Senator Way	LUMP SUM	LUMP	SUM	_____	_____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0600	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 028 Western Ave and Sewall St	LUMP SUM	LUMP	SUM	_____	_____
0610	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 029 Western Ave and Shuman Ave	LUMP SUM	LUMP	SUM	_____	_____
0620	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 030 Western Ave and U Haul Dr	LUMP SUM	LUMP	SUM	_____	_____
0630	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 031 Western Ave and Whitten Rd	LUMP SUM	LUMP	SUM	_____	_____
0640	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 032 Route 3 and Henrys Way	LUMP SUM	LUMP	SUM	_____	_____
0650	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 033 Route 27 and Route 3	LUMP SUM	LUMP	SUM	_____	_____
0660	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 034 State St and Winthrop St	LUMP SUM	LUMP	SUM	_____	_____
0670	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 035 State St and Bridge St	LUMP SUM	LUMP	SUM	_____	_____
0680	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 036 Water St and Bridge St	LUMP SUM	LUMP	SUM	_____	_____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0690	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 037 Cony St and Willow St/City Center Dr	LUMP SUM	LUMP	SUM	_____	_____
0700	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 038 Bangor St and Linden St/Quimby St	LUMP SUM	LUMP	SUM	_____	_____
0710	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 039 Bangor St and N Belfast Ave/Locke St	LUMP SUM	LUMP	SUM	_____	_____
0720	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 040 Whitten Rd and Hannafor Dr	LUMP SUM	LUMP	SUM	_____	_____
0730	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 041 Route 3 and Starrett Dr	LUMP SUM	LUMP	SUM	_____	_____
0740	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 043 Main St and High St	LUMP SUM	LUMP	SUM	_____	_____
0750	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 044 Route 1 and Route 52	LUMP SUM	LUMP	SUM	_____	_____
0760	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 046 Route 201 and Bridge St	LUMP SUM	LUMP	SUM	_____	_____
0770	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 047 Route 201 and Johnny's Seeds/KVCOG	LUMP SUM	LUMP	SUM	_____	_____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0780	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 048 Route 4 and Broadway	LUMP SUM	LUMP	SUM	_____	_____
0790	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 049 Route 4 and Route 2/27	LUMP SUM	LUMP	SUM	_____	_____
0800	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 050 Route 4 and Bridge St	LUMP SUM	LUMP	SUM	_____	_____
0810	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 051 Route 4 and Hannaford Dr	LUMP SUM	LUMP	SUM	_____	_____
0820	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 052 Route 4 and Walmart Dr	LUMP SUM	LUMP	SUM	_____	_____
0830	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 053 Route 4 and Hospital St	LUMP SUM	LUMP	SUM	_____	_____
0840	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 054 Bridge St and Maine Ave	LUMP SUM	LUMP	SUM	_____	_____
0850	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 056 Main St and Perkins St	LUMP SUM	LUMP	SUM	_____	_____
0860	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 057 Main St and Fairfield St	LUMP SUM	LUMP	SUM	_____	_____
0870	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 058 Pleasant St and Oak St	LUMP SUM	LUMP	SUM	_____	_____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0880	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 059 Water St and Bridge St	LUMP SUM	LUMP	SUM	_____	_____
0890	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 060 Main St and Walmart Dr	LUMP SUM	LUMP	SUM	_____	_____
0900	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 062 Main St and Shaw's Dr	LUMP SUM	LUMP	SUM	_____	_____
0910	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 063 Main St and Westview Dr	LUMP SUM	LUMP	SUM	_____	_____
0920	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 066 Main St and Washington St	LUMP SUM	LUMP	SUM	_____	_____
0930	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 067 Main St and Route 202	LUMP SUM	LUMP	SUM	_____	_____
0940	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 068 Main St and Route 224	LUMP SUM	LUMP	SUM	_____	_____
0950	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 069 Route 4A/202 and River St	LUMP SUM	LUMP	SUM	_____	_____
0960	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 070 Route 4 and Grammar Rd	LUMP SUM	LUMP	SUM	_____	_____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0970	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 071 Route 224 and River St	LUMP SUM	LUMP	SUM	_____	_____
0980	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 072 Route 4A/202 and Route 224	LUMP SUM	LUMP	SUM	_____	_____
0990	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 073 Route 202 and Route 32	LUMP SUM	LUMP	SUM	_____	_____
1000	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 074 KMD and First Park Dr	LUMP SUM	LUMP	SUM	_____	_____
1010	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 075 KMD and I-95 SB	LUMP SUM	LUMP	SUM	_____	_____
1020	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 076 KMD and I-95 NB	LUMP SUM	LUMP	SUM	_____	_____
1030	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 077 KMD and Washington St	LUMP SUM	LUMP	SUM	_____	_____
1040	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 078 KMD and Shaws Dr	LUMP SUM	LUMP	SUM	_____	_____
1050	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 079 KMD and 1st Rangeway	LUMP SUM	LUMP	SUM	_____	_____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1060	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 080 KMD and Hannaford Dr	LUMP SUM	LUMP	SUM	_____	_____
1070	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 081 KMD and Cool St	LUMP SUM	LUMP	SUM	_____	_____
1080	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 082 KMD and West River Rd	LUMP SUM	LUMP	SUM	_____	_____
1090	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 083 KMD and CMD	LUMP SUM	LUMP	SUM	_____	_____
1100	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 084 Silver St and Elm St	LUMP SUM	LUMP	SUM	_____	_____
1110	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 085 Elm St and Western Ave	LUMP SUM	LUMP	SUM	_____	_____
1120	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 086 Elm St and Park St	LUMP SUM	LUMP	SUM	_____	_____
1130	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 087 Spring St & Main St	LUMP SUM	LUMP	SUM	_____	_____
1140	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 088 Spring St and Silver St	LUMP SUM	LUMP	SUM	_____	_____
1150	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 089 Spring St and Elm St	LUMP SUM	LUMP	SUM	_____	_____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1160	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 090 Main St & Temple St	LUMP SUM	LUMP	SUM	_____	_____
1170	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 091 Main St & Elm St	LUMP SUM	LUMP	SUM	_____	_____
1180	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 092 Main St and Eustis Pkwy	LUMP SUM	LUMP	SUM	_____	_____
1190	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 093 Main St and Armory St	LUMP SUM	LUMP	SUM	_____	_____
1200	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 094 Main St and Waterville Commons Dr	LUMP SUM	LUMP	SUM	_____	_____
1210	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 095 Main St and I-95 NB	LUMP SUM	LUMP	SUM	_____	_____
1220	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 096 Main St and I-95 SB	LUMP SUM	LUMP	SUM	_____	_____
1230	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 097 College Ave and Hazelwood Ave	LUMP SUM	LUMP	SUM	_____	_____
1240	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 098 KMD and Airport Rd	LUMP SUM	LUMP	SUM	_____	_____
1250	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 099 CMD and Cushman Rd	LUMP SUM	LUMP	SUM	_____	_____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1260	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 100 China Rd and Cushman Rd	LUMP SUM	LUMP	SUM	_____	_____
1270	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 101 Route 201 and Clinton Ave	LUMP SUM	LUMP	SUM	_____	_____
1280	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 102 Route 201 and Halifax St	LUMP SUM	LUMP	SUM	_____	_____
1290	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 103 Route 201 and China Rd	LUMP SUM	LUMP	SUM	_____	_____
1300	643.21 NON-INVASIVE DETECTION - STOP LINE: Sheet 104 Route 201 and CMD	LUMP SUM	LUMP	SUM	_____	_____
1310	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 003 Civic Center Dr and Darin Dr	LUMP SUM	LUMP	SUM	_____	_____
1320	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 004 Civic Center Dr and I-95 NB Ramps	LUMP SUM	LUMP	SUM	_____	_____
1330	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 005 Civic Center Drive & I-95 SB	LUMP SUM	LUMP	SUM	_____	_____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1340	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 006 Civic Center Dr and Leighton Rd	LUMP SUM	LUMP	SUM	_____	_____
1350	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 007 Civic Center Dr and University Dr	LUMP SUM	LUMP	SUM	_____	_____
1360	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 008 Civic Center Dr and Townsend Rd	LUMP SUM	LUMP	SUM	_____	_____
1370	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 009 Eastern Ave and Cony Rd	LUMP SUM	LUMP	SUM	_____	_____
1380	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 010 Eastern Ave and Hospital St/Stone St	LUMP SUM	LUMP	SUM	_____	_____
1390	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 011 Eastern Ave and Spring St/Togus Rd	LUMP SUM	LUMP	SUM	_____	_____
1400	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 012 Hospital St and Piggery Rd/Tyson Dr	LUMP SUM	LUMP	SUM	_____	_____
1410	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 013 Route 3 (N Belfast Ave) and Church Hill	LUMP SUM	LUMP	SUM	_____	_____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1420	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 014 Route 3 and N Belfast Ave	LUMP SUM	LUMP	SUM	_____	_____
1430	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 015 Route 3 and Riverside Dr	LUMP SUM	LUMP	SUM	_____	_____
1440	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 016 Route 3 and Route 104 (W River Rd)	LUMP SUM	LUMP	SUM	_____	_____
1450	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 018 S Belfast Ave and Cony Rd/Chruch Hill	LUMP SUM	LUMP	SUM	_____	_____
1460	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 023 Western Ave and Armory St	LUMP SUM	LUMP	SUM	_____	_____
1470	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 024 Western Ave and Crossing Way	LUMP SUM	LUMP	SUM	_____	_____
1480	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 025 Western Ave and Edison Dr	LUMP SUM	LUMP	SUM	_____	_____
1490	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 026 Western Ave and Orchard St	LUMP SUM	LUMP	SUM	_____	_____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1500	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 027 Western Ave and Senator Way	LUMP SUM	LUMP	SUM	_____	_____
1510	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 029 Western Ave and Shuman Ave	LUMP SUM	LUMP	SUM	_____	_____
1520	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 031 Western Ave and Whitten Rd	LUMP SUM	LUMP	SUM	_____	_____
1530	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 040 Whitten Rd and Hannaford Dr	LUMP SUM	LUMP	SUM	_____	_____
1540	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 041 Route 3 and Hartley Rd	LUMP SUM	LUMP	SUM	_____	_____
1550	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 044 Route 1 and Route 52	LUMP SUM	LUMP	SUM	_____	_____
1560	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 047 Route 201 and Johnny's Seeds/KVCOG	LUMP SUM	LUMP	SUM	_____	_____
1570	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 049 Route 4 and Route 2/27	LUMP SUM	LUMP	SUM	_____	_____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1580	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 051 Route 4 and Hannaford Dr	LUMP SUM	LUMP	SUM	_____	_____
1590	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 052 Route 4 and Walmart Dr	LUMP SUM	LUMP	SUM	_____	_____
1600	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 053 Route 4 and Hospital St	LUMP SUM	LUMP	SUM	_____	_____
1610	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 054 Bridge St and Maine Ave	LUMP SUM	LUMP	SUM	_____	_____
1620	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 057 Main St and Fairfield St	LUMP SUM	LUMP	SUM	_____	_____
1630	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 059 Water St and Bridge St	LUMP SUM	LUMP	SUM	_____	_____
1640	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 060 Main St and Walmart Dr	LUMP SUM	LUMP	SUM	_____	_____
1650	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 061 Main St and Jagger Mill Rd	LUMP SUM	LUMP	SUM	_____	_____

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			Dollars	Cents	Dollars	Cents
1660	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 062 Main St and Shaw's Dr	LUMP SUM	LUMP	SUM	_____	_____
1670	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 063 Main St and Westview Dr	LUMP SUM	LUMP	SUM	_____	_____
1680	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 064 Main St and Alumni Dr/Old Mill Rd	LUMP SUM	LUMP	SUM	_____	_____
1690	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 070 Route 4 and Grammar Rd	LUMP SUM	LUMP	SUM	_____	_____
1700	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 071 Route 224 and River St	LUMP SUM	LUMP	SUM	_____	_____
1710	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 072 Route 4A/202 and Route 224	LUMP SUM	LUMP	SUM	_____	_____
1720	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 073 Route 202 and Route 32	LUMP SUM	LUMP	SUM	_____	_____
1730	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 074 KMD and First Park Dr	LUMP SUM	LUMP	SUM	_____	_____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1740	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 075 KMD and I-95 SB	LUMP SUM	LUMP	SUM	_____	_____
1750	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 076 KMD and I-95 NB	LUMP SUM	LUMP	SUM	_____	_____
1760	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 077 KMD and Washington St	LUMP SUM	LUMP	SUM	_____	_____
1770	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 078 KMD and Shaws Dr	LUMP SUM	LUMP	SUM	_____	_____
1780	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 079 KMD and 1st Rangeway	LUMP SUM	LUMP	SUM	_____	_____
1790	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 080 KMD and Hannaford Dr	LUMP SUM	LUMP	SUM	_____	_____
1800	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 081 KMD and Cool St	LUMP SUM	LUMP	SUM	_____	_____
1810	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 082 KMD and West River Rd	LUMP SUM	LUMP	SUM	_____	_____
1820	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 083 KMD and CMD	LUMP SUM	LUMP	SUM	_____	_____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1830	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 093 Main St and Armory Rd	LUMP SUM	LUMP	SUM	_____	_____
1840	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 094 Main St and Waterville Commons Rd	LUMP SUM	LUMP	SUM	_____	_____
1850	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 095 Main St and I-95 NB	LUMP SUM	LUMP	SUM	_____	_____
1860	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 096 Main St and I-95 SB	LUMP SUM	LUMP	SUM	_____	_____
1870	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 097 College Ave and Hazelwood Ave	LUMP SUM	LUMP	SUM	_____	_____
1880	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 098 KMD and Airport Rd	LUMP SUM	LUMP	SUM	_____	_____
1890	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 099 CMD and Cushman Rd	LUMP SUM	LUMP	SUM	_____	_____
1900	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 101 Route 201 and Clinton Ave	LUMP SUM	LUMP	SUM	_____	_____

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SECTION: 1 Project Items

Alt Set ID: Alt Mbr ID:

Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1910	643.22 NON-INVASIVE DETECTION - ADVANCE: Sheet 104 Route 201 and CMD	LUMP SUM	LUMP	SUM	_____	_____
1920	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 001 Capitol St and Sewall St	LUMP SUM	LUMP	SUM	_____	_____
1930	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 002 Civic Center Dr and Commerce Dr	LUMP SUM	LUMP	SUM	_____	_____
1940	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 003 Civic Center Dr and Darin Dr	LUMP SUM	LUMP	SUM	_____	_____
1950	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 004 Civic Center Dr and I-95 NB Ramps	LUMP SUM	LUMP	SUM	_____	_____
1960	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 005 Civic Center Dr and I-95 SB Ramps	LUMP SUM	LUMP	SUM	_____	_____
1970	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 006 Civic Center Dr and Leighton Rd	LUMP SUM	LUMP	SUM	_____	_____
1980	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 007 Civic Center Dr and University Dr/Market Place	LUMP SUM	LUMP	SUM	_____	_____
1990	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 008 Civic Center Dr and Townsend Rd	LUMP SUM	LUMP	SUM	_____	_____

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 024301.00

Project(s): 024301.00

SECTION: 1 Project Items

Alt Set ID: Alt Mbr ID:

Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
2000	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 009 Eastern Ave and Cony Rd	LUMP SUM	LUMP	SUM	_____	_____
2010	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 010 Eastern Ave and Hospital St/Stone St	LUMP SUM	LUMP	SUM	_____	_____
2020	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 011 Eastern Ave and Spring St/Togus Rd	LUMP SUM	LUMP	SUM	_____	_____
2030	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 012 Hospital St and Piggery Rd/Tyson Dr	LUMP SUM	LUMP	SUM	_____	_____
2040	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 013 Route 3 (N Belfast Ave) and Church Hill Rd	LUMP SUM	LUMP	SUM	_____	_____
2050	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 014 Route 3 and N Belfast Ave	LUMP SUM	LUMP	SUM	_____	_____
2060	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 015 Route 3 and Riverside Dr	LUMP SUM	LUMP	SUM	_____	_____
2070	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 016 Route 3 and Route 104 (W River Rd)	LUMP SUM	LUMP	SUM	_____	_____
2080	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 017 Senator Way and Crossing Way	LUMP SUM	LUMP	SUM	_____	_____

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Proposal Schedule of Items

Proposal ID: 024301.00

Project(s): 024301.00

SECTION: 1 Project Items

Alt Set ID: Alt Mbr ID:

Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
2090	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 018 S Belfast Ave and Cony Rd/Church Hill Rd	LUMP SUM	LUMP	SUM	_____	_____
2100	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 019 State St and Capitol St	LUMP SUM	LUMP	SUM	_____	_____
2110	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 020 State St and Union St	LUMP SUM	LUMP	SUM	_____	_____
2120	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 021 Stone St and Hannaford Dr	LUMP SUM	LUMP	SUM	_____	_____
2130	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 022 Western Ave and Airport Rd	LUMP SUM	LUMP	SUM	_____	_____
2140	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 023 Western Ave and Armory St	LUMP SUM	LUMP	SUM	_____	_____
2150	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 024 Western Ave and Crossing Way	LUMP SUM	LUMP	SUM	_____	_____
2160	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 025 Western Ave and Edison Dr	LUMP SUM	LUMP	SUM	_____	_____
2170	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 026 Western Ave and Orchard St/Meadow Rd	LUMP SUM	LUMP	SUM	_____	_____

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 024301.00

Project(s): 024301.00

SECTION: 1 Project Items

Alt Set ID: Alt Mbr ID:

Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
2180	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 027 Western Ave and Senator Way	LUMP SUM	LUMP	SUM	_____	_____
2190	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 028 Western Ave and Sewall St	LUMP SUM	LUMP	SUM	_____	_____
2200	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 029 Western Ave and Shuman Ave	LUMP SUM	LUMP	SUM	_____	_____
2210	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 030 Western Ave and U Haul Dr	LUMP SUM	LUMP	SUM	_____	_____
2220	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 031 Western Ave and Whitten Rd	LUMP SUM	LUMP	SUM	_____	_____
2230	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 032 Route 3 and Henrys Way/Medical Center Pkwy	LUMP SUM	LUMP	SUM	_____	_____
2240	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 033 Route 27 and Route 3	LUMP SUM	LUMP	SUM	_____	_____
2250	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 034 State St and Winthrop St	LUMP SUM	LUMP	SUM	_____	_____
2260	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 035 State St and Bridge St	LUMP SUM	LUMP	SUM	_____	_____
2270	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 036 Water St and Bridge St	LUMP SUM	LUMP	SUM	_____	_____

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Proposal Schedule of Items

Proposal ID: 024301.00

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SECTION: 1 Project Items

Alt Set ID: Alt Mbr ID:

Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
2280	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 037 Cony St and Will St/City Center Dr	LUMP SUM	LUMP	SUM	_____	_____
2290	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 038 Bangor St and Linden St/Quimby St	LUMP SUM	LUMP	SUM	_____	_____
2300	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 039 Bangor St and N Belfast Ave/Locke St	LUMP SUM	LUMP	SUM	_____	_____
2310	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 040 Whitten Rd and Hannaford Dr	LUMP SUM	LUMP	SUM	_____	_____
2320	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 041 Route 3 and Hatley Rd	LUMP SUM	LUMP	SUM	_____	_____
2330	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 042 Main St and Hannaford Dr	LUMP SUM	LUMP	SUM	_____	_____
2340	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 043 Main St and High St	LUMP SUM	LUMP	SUM	_____	_____
2350	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 044 Route 1 and Route 52	LUMP SUM	LUMP	SUM	_____	_____
2360	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 045 Bridge St and Benton Ave/River Rd	LUMP SUM	LUMP	SUM	_____	_____

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Project(s): 024301.00

SECTION: 1 Project Items

Alt Set ID: Alt Mbr ID:

Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
2370	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 046 Route 201 and Bridge St	LUMP SUM	LUMP	SUM	_____	_____
2380	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 047 Route 201 and Johnny's Seeds/KVCOG	LUMP SUM	LUMP	SUM	_____	_____
2390	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 048 Route 4 and Broadway	LUMP SUM	LUMP	SUM	_____	_____
2400	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 049 Route 4 and Route 2/27 (Farmington Falls Rd)	LUMP SUM	LUMP	SUM	_____	_____
2410	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 050 Route 4 and Bridge St	LUMP SUM	LUMP	SUM	_____	_____
2420	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 051 Route 4 and Hannaford Dr	LUMP SUM	LUMP	SUM	_____	_____
2430	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 052 Route 4 and Walmart Dr	LUMP SUM	LUMP	SUM	_____	_____
2440	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 053 Route 4 and Hospital St	LUMP SUM	LUMP	SUM	_____	_____
2450	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 054 Bridge St and Maine Ave	LUMP SUM	LUMP	SUM	_____	_____
2460	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 055 Bridge St and Water St	LUMP SUM	LUMP	SUM	_____	_____

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SECTION: 1 Project Items

Alt Set ID: Alt Mbr ID:

Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
2470	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 056 Main St and Perkins St	LUMP SUM	LUMP	SUM	_____	_____
2480	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 057 Main St and Fairfield St	LUMP SUM	LUMP	SUM	_____	_____
2490	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 058 Pleasant St and Oak St	LUMP SUM	LUMP	SUM	_____	_____
2500	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 059 Water St and Bridge St (Randolph)	LUMP SUM	LUMP	SUM	_____	_____
2510	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 060 Main St and Walmart Dr	LUMP SUM	LUMP	SUM	_____	_____
2520	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 061 Main St and Jagger Mill Rd	LUMP SUM	LUMP	SUM	_____	_____
2530	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 062 Main St and Shaw's Dr	LUMP SUM	LUMP	SUM	_____	_____
2540	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 063 Main St and Westview Dr	LUMP SUM	LUMP	SUM	_____	_____
2550	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 064 Main St and Alumni Dr/Old Mill Rd	LUMP SUM	LUMP	SUM	_____	_____
2560	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 065 Main St and Emery St	LUMP SUM	LUMP	SUM	_____	_____

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Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
2570	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 066 Main St and Washington St	LUMP SUM	LUMP	SUM	_____	_____
2580	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 067 Main St and Route 202	LUMP SUM	LUMP	SUM	_____	_____
2590	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 068 Main St and Route 224	LUMP SUM	LUMP	SUM	_____	_____
2600	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 069 Route 4A/202 and River St	LUMP SUM	LUMP	SUM	_____	_____
2610	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 070 Route 4 and Grammar Rd/New Dam Rd	LUMP SUM	LUMP	SUM	_____	_____
2620	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 071 Route 224 and River St	LUMP SUM	LUMP	SUM	_____	_____
2630	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 072 Route 4A/202 and Route 224	LUMP SUM	LUMP	SUM	_____	_____
2640	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 073 Route 3 and Route 32	LUMP SUM	LUMP	SUM	_____	_____
2650	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 074 KMD and First Park Dr	LUMP SUM	LUMP	SUM	_____	_____
2660	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 075 KMD and I-95 SB	LUMP SUM	LUMP	SUM	_____	_____

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SECTION: 1 Project Items

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Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
2670	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 076 KMD and I-95 NB	LUMP SUM	LUMP	SUM	_____	_____
2680	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 077 KMD and Washington St	LUMP SUM	LUMP	SUM	_____	_____
2690	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 078 KMD and Shaws Dr	LUMP SUM	LUMP	SUM	_____	_____
2700	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 079 KMD and 1st Rangeway	LUMP SUM	LUMP	SUM	_____	_____
2710	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 080 KMD and Hannaford Dr	LUMP SUM	LUMP	SUM	_____	_____
2720	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 081 KMD and Cool St	LUMP SUM	LUMP	SUM	_____	_____
2730	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 082 KMD and West River Rd	LUMP SUM	LUMP	SUM	_____	_____
2740	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 083 KMD and CMD	LUMP SUM	LUMP	SUM	_____	_____
2750	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 084 Silver St and Elm St	LUMP SUM	LUMP	SUM	_____	_____
2760	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 085 Elm St and Western Ave	LUMP SUM	LUMP	SUM	_____	_____

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SECTION: 1 Project Items

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Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
2770	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 086 Elm St and Park St	LUMP SUM	LUMP	SUM	_____	_____
2780	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 087 Spring St and Main St	LUMP SUM	LUMP	SUM	_____	_____
2790	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 088 Spring St & Silver St	LUMP SUM	LUMP	SUM	_____	_____
2800	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 089 Spring St and Elm St	LUMP SUM	LUMP	SUM	_____	_____
2810	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 090 Main St and Temple St	LUMP SUM	LUMP	SUM	_____	_____
2820	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 091 Main St and Elm St	LUMP SUM	LUMP	SUM	_____	_____
2830	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 092 Main St and Eustis Pkwy	LUMP SUM	LUMP	SUM	_____	_____
2840	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 093 Main St and Armory Rd	LUMP SUM	LUMP	SUM	_____	_____
2850	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 094 Main St and Waterville Commons Dr	LUMP SUM	LUMP	SUM	_____	_____
2860	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 095 Main St and I-95 NB	LUMP SUM	LUMP	SUM	_____	_____

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SECTION: 1 Project Items

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Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
2870	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 096 Main St and I-95 SB	LUMP SUM	LUMP	SUM	_____	_____
2880	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 097 College Ave and Hazelwood Ave	LUMP SUM	LUMP	SUM	_____	_____
2890	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 098 KMD and Airport Rd	LUMP SUM	LUMP	SUM	_____	_____
2900	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 099 CMD and Cushman Rd	LUMP SUM	LUMP	SUM	_____	_____
2910	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 100 China Rd and Cushman Rd	LUMP SUM	LUMP	SUM	_____	_____
2920	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 101 Route 201 and Clinton Ave	LUMP SUM	LUMP	SUM	_____	_____
2930	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 102 Route 201 and Halifax St	LUMP SUM	LUMP	SUM	_____	_____
2940	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 103 Route 201 and China Rd	LUMP SUM	LUMP	SUM	_____	_____
2950	643.71 TRAFFIC SIGNAL MODIFICATION Sheet 104 Route 201 and CMD	LUMP SUM	LUMP	SUM	_____	_____
2960	643.72 TEMPORARY TRAFFIC SIGNAL Sheet 036 Water St and Bridge St	LUMP SUM	LUMP	SUM	_____	_____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
2970	643.72 TEMPORARY TRAFFIC SIGNAL Sheet 043 Main St and High St	LUMP SUM	LUMP	SUM	_____	_____
2980	643.72 TEMPORARY TRAFFIC SIGNAL Sheet 059 Water St and Bridge St	LUMP SUM	LUMP	SUM	_____	_____
2990	643.72 TEMPORARY TRAFFIC SIGNAL Sheet 068 Main St and Route 224	LUMP SUM	LUMP	SUM	_____	_____
3000	643.72 TEMPORARY TRAFFIC SIGNAL Sheet 101 Route 201 and Clinton Ave	LUMP SUM	LUMP	SUM	_____	_____
3010	643.81 TRAFFIC SIGNAL CONTROL SYSTEM	LUMP SUM	LUMP	SUM	_____	_____
3020	643.90 INTERCONNECT WIRE BETWEEN 12 Strand (7,000 LF)	LUMP SUM	LUMP	SUM	_____	_____
3030	643.90 INTERCONNECT WIRE BETWEEN Main St and Route 202	LUMP SUM	LUMP	SUM	_____	_____
3040	643.90 INTERCONNECT WIRE BETWEEN Main St and Route 224	LUMP SUM	LUMP	SUM	_____	_____
3050	643.90 INTERCONNECT WIRE BETWEEN Main St and Washington St	LUMP SUM	LUMP	SUM	_____	_____
3060	643.91 MAST ARM POLE 20' arm and w/30' arm	1.000 EA	_____	_____	_____	_____
3070	643.91 MAST ARM POLE 25' arm	2.000 EA	_____	_____	_____	_____

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Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
3080	643.91 MAST ARM POLE 30' arm	3.000 EA	_____	 _____	_____	 _____
3090	643.91 MAST ARM POLE 35' arm	2.000 EA	_____	 _____	_____	 _____
3100	643.91 MAST ARM POLE 35' arm and 30' arm	1.000 EA	_____	 _____	_____	 _____
3110	643.91 MAST ARM POLE 35' arm and 45' arm	1.000 EA	_____	 _____	_____	 _____
3120	643.91 MAST ARM POLE 40' arm	2.000 EA	_____	 _____	_____	 _____
3130	643.91 MAST ARM POLE 50' arm	1.000 EA	_____	 _____	_____	 _____
3140	643.91 MAST ARM POLE 55' arm	1.000 EA	_____	 _____	_____	 _____
3150	643.92 PEDESTAL POLE	121.000 EA	_____	 _____	_____	 _____
3160	643.93 STRAIN POLE	2.000 EA	_____	 _____	_____	 _____
3170	643.94 DUAL PURPOSE POLE 20' arm w/luminaire	1.000 EA	_____	 _____	_____	 _____
3180	643.94 DUAL PURPOSE POLE 25' arm w/luminaire	1.000 EA	_____	 _____	_____	 _____
3190	643.94 DUAL PURPOSE POLE 28' arm w/luminaire	1.000 EA	_____	 _____	_____	 _____

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Contractor: \_\_\_\_\_

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
3200	643.94 DUAL PURPOSE POLE 35' arm w/ luminaire	3.000 EA	_____	 _____	_____	 _____
3210	643.94 DUAL PURPOSE POLE 40' arm w/luminaire	1.000 EA	_____	 _____	_____	 _____
3220	643.97 WOOD POLES WITH GUYS AND SPAN WIRE	1.000 EA	_____	 _____	_____	 _____
3230	652.312 TYPE III BARRICADE	15.000 EA	_____	 _____	_____	 _____
3240	652.33 DRUM	60.000 EA	_____	 _____	_____	 _____
3250	652.34 CONE	100.000 EA	_____	 _____	_____	 _____
3260	652.35 CONSTRUCTION SIGNS	2,400.000 SF	_____	 _____	_____	 _____
3270	652.36 MAINTENANCE OF TRAFFIC CONTROL DEVICES	1,000.000 CD	_____	 _____	_____	 _____
3280	652.38 FLAGGER	2,500.000 HR	_____	 _____	_____	 _____
3290	652.381 TRAFFIC OFFICER	3,000.000 HR	_____	 _____	_____	 _____
3300	652.41 PORTABLE CHANGEABLE MESSAGE SIGN	5.000 EA	_____	 _____	_____	 _____
3310	654.05 ADAPTIVE SIGNAL CONTROL SYSTEM Civic Center Drive	LUMP SUM		 LUMP SUM		 _____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
3320	654.05 ADAPTIVE SIGNAL CONTROL SYSTEM Kennedy Memorial Drive	LUMP SUM	LUMP	SUM	_____	_____
3330	654.05 ADAPTIVE SIGNAL CONTROL SYSTEM Main Street	LUMP SUM	LUMP	SUM	_____	_____
3340	654.05 ADAPTIVE SIGNAL CONTROL SYSTEM Western Ave	LUMP SUM	LUMP	SUM	_____	_____
3350	654.3335 FIBER OPTIC MANHOLE	1.000 EA	_____	_____	_____	_____
3360	654.351 CONNECTED ROADSIDE UNIT (RSU)	104.000 EA	_____	_____	_____	_____
3370	654.352 ON-BOARD UNIT (OBU) VEHICLE EQUIPMENT	15.000 EA	_____	_____	_____	_____
3380	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LUMP SUM	LUMP	SUM	_____	_____
3390	659.10 MOBILIZATION	LUMP SUM	LUMP	SUM	_____	_____
<b>Section: 1</b>			<b>Total:</b>		_____	_____
			<b>Total Bid:</b>		_____	_____

## CONTRACT AGREEMENT, OFFER & AWARD

AGREEMENT made on the date last signed below, by and between the State of Maine, acting through and by its Department of Transportation (Department), an agency of state government with its principal administrative offices located at Child Street, Augusta, Maine, with a mailing address at 16 State House Station, Augusta, Maine 04333-0016, and

\_\_\_\_\_ a corporation or other legal entity organized under the laws of the State of \_\_\_\_\_, with its principal place of business located at \_\_\_\_\_

The Department and the Contractor, in consideration of the mutual promises set forth in this Agreement (the "Contract"), hereby agree as follows:

### A. **The Work.**

The Contractor agrees to complete all Work as specified or indicated in the Contract including Extra Work in conformity with the Contract, **WIN. 024301.00** for **Statewide Traffic Signal Updates** in various locations, Counties of **Franklin, Kennebec, Somerset, Waldo, and York** Maine. The Work includes construction, maintenance during construction, warranty as provided in the Contract, and other incidental work.

The Contractor shall be responsible for furnishing all supervision, labor, equipment, tools supplies, permanent materials and temporary materials required to perform the Work including construction quality control including inspection, testing and documentation, all required documentation at the conclusion of the project, warranting its work and performing all other work indicated in the Contract.

The Department shall have the right to alter the nature and extent of the Work as provided in the Contract; payment to be made as provided in the same.

### B. **Time.**

The Contractor agrees to complete all Work, except warranty work, on or before **October 31, 2024**. Further, the Department may deduct from moneys otherwise due the Contractor, not as a penalty, but as Liquidated Damages in accordance with Sections 107.7 and 107.8 of the *State of Maine Department of Transportation Standard Specifications, March 2020 Edition* and related Special Provisions.

**C. Price.**

The quantities given in the Schedule of Items of the Bid Package will be used as the basis for determining the original Contract amount and for determining the amounts of the required Performance Surety Bond and Payment Surety Bond, and that the amount of this offer is \_\_\_\_\_

\$ \_\_\_\_\_ Performance Bond and Payment Bond each being 100% of the amount of this Contract.

**D. Contract.**

This Contract, which may be amended, modified, or supplemented in writing only, consists of the Contract documents as defined in the Plans, *Standard Specifications, March 2020 Edition, Standard Details March 2020 Edition* as updated through advertisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds. It is agreed and understood that this Contract will be governed by the documents listed above.

**E. Certifications.**

By signing below, the Contractor hereby certifies that to the best of the Contractor's knowledge and belief:

1. All of the statements, representations, covenants, and/or certifications required or set forth in the Bid and the Bid Documents, including those in the Federal Contract Provisions Supplement, and the Contract are still complete and accurate as of the date of this Agreement.
2. The Contractor knows of no legal, contractual, or financial impediment to entering into this Contract.
3. The person signing below is legally authorized by the Contractor to sign this Contract on behalf of the Contractor and to legally bind the Contractor to the terms of the Contract.

**F. Offer.**

The undersigned, having carefully examined the site of work, the Plans, *Standard Specifications March 2020 Edition*, *Standard Details March 2020 Edition* as updated through advertisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds contained herein for construction of:

**WIN. 024301.00 - Statewide Traffic Signal Updates - in various locations in the,**

State of Maine, on which bids will be received until the time specified in the “Notice to Contractors” do(es) hereby bid and offer to enter into this contract to supply all the materials, tools, equipment and labor to construct the whole of the Work in strict accordance with the terms and conditions of this Contract at the unit prices in the attached “Schedule of Items.”

The Offeror agrees to perform the work required at the price specified above and in accordance with the bids provided in the attached “Schedule of Items” in strict accordance with the terms of this solicitation, and to provide the appropriate insurance and bonds if this offer is accepted by the Government in writing.

As Offeror also agrees:

First: To do any extra work, not covered by the attached “Schedule of Items,” which may be ordered by the Resident, and to accept as full compensation the amount determined upon a “Force Account” basis as provided in the *Standard Specifications, March 2020 Edition*, and as addressed in the contract documents.

Second: That the bid bond at 5% of the bid amount or the official bank check, cashier’s check, certificate of deposit or U. S. Postal Money Order in the amount given in the “Notice to Contractors”, payable to the Treasurer of the State of Maine and accompanying this bid, shall be forfeited, as liquidated damages, if in case this bid is accepted, and the undersigned shall fail to abide by the terms and conditions of the offer and fail to furnish satisfactory insurance and Contract bonds under the conditions stipulated in the Specifications within 15 days of notice of intent to award the contract.

Third: To begin the Work as stated in Section 107.2 of the *Standard Specifications March 2020 Edition* and complete the Work within the time limits given in the Special Provisions of this Contract.

Fourth: The Contractor will be bound to the Disadvantaged Business Enterprise (DBE) Requirements contained in the attached Notice (Additional Instructions to Bidders) and submit a completed Contractor’s Disadvantaged Business Enterprise Utilization Plan with their bid.

Fifth: That this offer shall remain open for 30 calendar days after the date of opening of bids.

Sixth: The Bidder hereby certifies, to the best of its knowledge and belief that: the Bidder has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of competitive bidding in connection with its bid, and its subsequent contract with the Department.

IN WITNESS WHEREOF, the Contractor, for itself, its successors and assigns, hereby execute two duplicate originals of this Agreement and thereby binds itself to all covenants, terms, and obligations contained in the Contract Documents.

CONTRACTOR

\_\_\_\_\_

Date

\_\_\_\_\_  
(Signature of Legally Authorized Representative  
of the Contractor)

\_\_\_\_\_

Witness

\_\_\_\_\_  
(Name and Title Printed)

**G. Award.**

Your offer is hereby accepted.  
documents referenced herein.

This award consummates the Contract, and the

MAINE DEPARTMENT OF TRANSPORTATION

\_\_\_\_\_

Date

\_\_\_\_\_  
By: Bruce A. Van Note, Commissioner

\_\_\_\_\_

Witness

## CONTRACT AGREEMENT, OFFER & AWARD

AGREEMENT made on the date last signed below, by and between the State of Maine, acting through and by its Department of Transportation (Department), an agency of state government with its principal administrative offices located at Child Street, Augusta, Maine, with a mailing address at 16 State House Station, Augusta, Maine 04333-0016, and

\_\_\_\_\_ a corporation or other legal entity organized under the laws of the State of \_\_\_\_\_, with its principal place of business located at \_\_\_\_\_

The Department and the Contractor, in consideration of the mutual promises set forth in this Agreement (the "Contract"), hereby agree as follows:

### A. **The Work.**

The Contractor agrees to complete all Work as specified or indicated in the Contract including Extra Work in conformity with the Contract, **WIN. 024301.00** for **Statewide Traffic Signal Updates** in various locations, Counties of **Franklin, Kennebec, Somerset, Waldo, and York** Maine. The Work includes construction, maintenance during construction, warranty as provided in the Contract, and other incidental work.

The Contractor shall be responsible for furnishing all supervision, labor, equipment, tools supplies, permanent materials and temporary materials required to perform the Work including construction quality control including inspection, testing and documentation, all required documentation at the conclusion of the project, warranting its work and performing all other work indicated in the Contract.

The Department shall have the right to alter the nature and extent of the Work as provided in the Contract; payment to be made as provided in the same.

### B. **Time.**

The Contractor agrees to complete all Work, except warranty work, on or before **October 310, 2024**. Further, the Department may deduct from moneys otherwise due the Contractor, not as a penalty, but as Liquidated Damages in accordance with Sections 107.7 and 107.8 of the *State of Maine Department of Transportation Standard Specifications, March 2020 Edition* and related Special Provisions.

**C. Price.**

The quantities given in the Schedule of Items of the Bid Package will be used as the basis for determining the original Contract amount and for determining the amounts of the required Performance Surety Bond and Payment Surety Bond, and that the amount of this offer is \_\_\_\_\_

\$ \_\_\_\_\_ Performance Bond and Payment Bond each being 100% of the amount of this Contract.

**D. Contract.**

This Contract, which may be amended, modified, or supplemented in writing only, consists of the Contract documents as defined in the Plans, *Standard Specifications, March 2020 Edition, Standard Details March 2020 Edition* as updated through advertisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds. It is agreed and understood that this Contract will be governed by the documents listed above.

**E. Certifications.**

By signing below, the Contractor hereby certifies that to the best of the Contractor's knowledge and belief:

1. All of the statements, representations, covenants, and/or certifications required or set forth in the Bid and the Bid Documents, including those in the Federal Contract Provisions Supplement, and the Contract are still complete and accurate as of the date of this Agreement.
2. The Contractor knows of no legal, contractual, or financial impediment to entering into this Contract.
3. The person signing below is legally authorized by the Contractor to sign this Contract on behalf of the Contractor and to legally bind the Contractor to the terms of the Contract.

**F. Offer.**

The undersigned, having carefully examined the site of work, the Plans, *Standard Specifications March 2020 Edition*, *Standard Details March 2020 Edition* as updated through advertisement, Supplemental Specifications, Special Provisions, Contract Agreement; and Contract Bonds contained herein for construction of:

**WIN. 024301.00 - Statewide Traffic Signal Updates - in various locations in the,**

State of Maine, on which bids will be received until the time specified in the “Notice to Contractors” do(es) hereby bid and offer to enter into this contract to supply all the materials, tools, equipment and labor to construct the whole of the Work in strict accordance with the terms and conditions of this Contract at the unit prices in the attached “Schedule of Items.”

The Offeror agrees to perform the work required at the price specified above and in accordance with the bids provided in the attached “Schedule of Items” in strict accordance with the terms of this solicitation, and to provide the appropriate insurance and bonds if this offer is accepted by the Government in writing.

As Offeror also agrees:

First: To do any extra work, not covered by the attached “Schedule of Items,” which may be ordered by the Resident, and to accept as full compensation the amount determined upon a “Force Account” basis as provided in the *Standard Specifications, March 2020 Edition*, and as addressed in the contract documents.

Second: That the bid bond at 5% of the bid amount or the official bank check, cashier’s check, certificate of deposit or U. S. Postal Money Order in the amount given in the “Notice to Contractors”, payable to the Treasurer of the State of Maine and accompanying this bid, shall be forfeited, as liquidated damages, if in case this bid is accepted, and the undersigned shall fail to abide by the terms and conditions of the offer and fail to furnish satisfactory insurance and Contract bonds under the conditions stipulated in the Specifications within 15 days of notice of intent to award the contract.

Third: To begin the Work as stated in Section 107.2 of the *Standard Specifications March 2020 Edition* and complete the Work within the time limits given in the Special Provisions of this Contract.

Fourth: The Contractor will be bound to the Disadvantaged Business Enterprise (DBE) Requirements contained in the attached Notice (Additional Instructions to Bidders) and submit a completed Contractor’s Disadvantaged Business Enterprise Utilization Plan with their bid.

Fifth: That this offer shall remain open for 30 calendar days after the date of opening of bids.

Sixth: The Bidder hereby certifies, to the best of its knowledge and belief that: the Bidder has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of competitive bidding in connection with its bid, and its subsequent contract with the Department.

IN WITNESS WHEREOF, the Contractor, for itself, its successors and assigns, hereby execute two duplicate originals of this Agreement and thereby binds itself to all covenants, terms, and obligations contained in the Contract Documents.

CONTRACTOR

\_\_\_\_\_

Date

\_\_\_\_\_  
(Signature of Legally Authorized Representative  
of the Contractor)

\_\_\_\_\_

Witness

\_\_\_\_\_  
(Name and Title Printed)

**G. Award.**

Your offer is hereby accepted.

This award consummates the Contract, and the documents referenced herein.

MAINE DEPARTMENT OF TRANSPORTATION

\_\_\_\_\_

Date

\_\_\_\_\_  
By: Bruce A. Van Note, Commissioner

\_\_\_\_\_

Witness

SPECIAL PROVISION  
SECTION 107  
PROSECUTION AND PROGRESS  
(Contract Time)

The contractor will be allowed to commence work on this project as long as all applicable plans required under this contract have been submitted, approved, and a pre-construction meeting held.

The completion date for all work in the municipality of Augusta is **October 31, 2022**. The Contractor will be charged supplemental liquated damages at a rate of \$500 for every day that the work in the municipality of Augusta is not complete past the above completion date.

The completion date for all work in the municipalities of Waterville/Winslow is **October 31, 2023**. The Contractor will be charged supplemental liquated damages at a rate of \$500 for every day that the work in the municipalities of Waterville/Winslow is not complete past the above completion date.

The completion date for all work in the remaining municipalities is **October 31, 2024**. Liquidated damages will be assessed in accordance with the standard specifications.

All work schedule changes must be submitted for approval to the Department a minimum of 48 hours prior to the requested change.

All travel lanes shall be open to traffic and the roadway in safe operating condition when the contractor suspends work for holidays or extended periods of time as directed.

Absences must be requested at least 72 hours in advance and are subject to Department approval based on existing roadway condition, paving deadlines, adherence to schedule, traffic restrictions, etc. The Contractor must assure that the roadway surface and signage are maintained for safe passage of the traveling public during any approved absences. The Contract Completion Date will not be modified due to approved absences.

**SPECIAL PROVISION**  
**SECTION 502**  
**STRUCTURAL CONCRETE**  
 (QC/QA Acceptance Methods)

CLASS OF CONCRETE	ITEM NUMBER	DESCRIPTION	P	METHOD
A	608.07	Plain Concrete Sidewalk	-	C
A	608.26	Curb Ramp Detectable Warning Fields	-	C
A	609.21	Concrete Slipform Curb	-	C
A	609.214	Concrete Slipform Curb 4' Terminal End	-	C
A	609.218	Concrete Slipform Curb 8' Terminal End	-	C
A	626.35	Controller Cabinet Foundation	-	C
LP	626.42	24" Diameter Foundations	-	C
LP	626.45	42" Diameter Foundations	-	C
LP	626.46	48" Diameter Foundations	-	C
LP	626.47	54" Diameter Foundations	-	C
LP	626.48	60" Diameter Foundations	-	C
LP	626.60	Grouted, Rock Anchor Foundation	-	C

P value shown represents price per cubic yard (cy)

**SPECIAL PROVISION**  
**SECTION 609 – CURB**  
**STRUCTURAL CONCRETE**  
(Slipform Concrete Curb)

609.01-Description This work shall consist of furnishing and placing Slipform Concrete Curb in close conformity with the plans, or as authorized by the Resident.

609.02 Materials Except as provided below, the materials used shall meet the requirements specified in Section 700 – Materials:

Portland Cement and Portland Pozzolan Cement	701.01
Water	701.02
Fine Aggregate for Concrete	703.01
Coarse Aggregate for Concrete	703.02
Air Entraining Admixtures	703.03

The aggregate shall conform to the requirements of Subsections 703.01 and 703.02.

A mix design for the Portland Cement Concrete shall be submitted to the Resident meeting the requirements of Class A or Class LP with the exception that permeability requirements shall be waived.

Entrained air content of Slipform curbing shall be 4.0% to 7.0%.

Partially discharged loads may be retempered with water provided the maximum water to cement ratio is not exceeded.

Maximum concrete temperature at placement shall be 90 F.

Proposed mix designs may contain polypropylene fibers.

609.03-General

a. Preparation of Base Before placing the curb, the foundation course shall be thoroughly cleaned of all foreign and objectionable material. The Contractor shall not place Slipform Concrete Curb on a wet or frozen base. Base pavement for placing epoxy resin binder and slipform curbing may be in an SSD condition but no standing water shall be allowed. String or chalk lines shall be positioned on the prepared base to provide guide lines. For HMA or PCC base the foundation shall be uniformly painted with an epoxy resin adhesive that meets AASHTO M 235, Type I, II, III, IV, or V. Proposed Epoxy Resin Adhesive from the Departments QPL shall be submitted with the concrete mix design for approval prior to placement and used in accordance with manufacturers recommendations.

b. Placing Concrete shall be placed with an approved Slipform machine that will produce a finished product according to the design specified in the plans. For cold weather Slipforming, the outside temperature must be at least 36°F (2.2°C) and rising. The curb shall be placed on a firm, uniform bearing surface, shall conform to the section profile specified in the plans, and shall match the appropriate grade. Expansion joints will be provided at ends of curve radii, or wherever the curb meets rigid structures such as building foundations or fire hydrants. Contraction joints will be placed at 10 foot (3 m) intervals using sawing methods, which shall cut 1-3" into the concrete. Joints shall be constructed perpendicular to the subgrade and match other joints in roadways, sidewalks or other structures when applicable.

c. Curing and Sealing Proper curing shall be insured through the use of either a combination curing/sealing compound spray that meets ASTM 1315 Type 1-Class A, or a curing compound spray that meets ASTM 309 type 1-D – Class A. Curing may also be accomplished by the methods specified in Section 502.15 of the Specifications.

If a combination curing/sealing compound spray is not used, a separate sealing compound from the MaineDOT Qualified Products List for a Type 2 sealer shall be applied after the concrete has cured.

d. Protection Slipform curb must be adequately protected after placement. The concrete shall be allowed to cure for at least 72 hours. During cold weather conditions, when temperatures drop below the required temperature of 36°F (2.2°C) after placement, curbing shall be protected by concrete blankets or a combination of plastic sheeting and straw. After any placement of Slipform curb, regardless of weather conditions, the placed curb shall be adequately protected by traffic control devices as necessary.

e. Marking When required, the curb shall be painted and coated with glass beads in accordance with Section 627 - Pavement Marking. Curb designated to be painted shall not be sealed unless a combination curing/sealing compound is used.

f. Acceptance Curb shall be accepted or rejected based on finish, alignment, entrained air content, and compressive strength. Acceptance testing for air content and compressive strength will be under 502 Method C. All damaged curb shall be removed and replaced at the Contractor's expense.

609.04-Method of Measurement Concrete Slipform curb will be measured by the linear foot along the front face of the curb at the elevation of the finished pavement, complete in place and accepted.

609.05 Basis of Payment The accepted quantities of curb will be paid for at the contract unit price per linear foot as specified.

There will be no separate payment for concrete, sealing, incidental materials, or labor needed to install the curb, but these will be considered included in the work of the related curb.

Removal of existing curb and necessary excavation for installing curb will not be paid for directly, but shall be considered to be included in the curb pay item. Base and Subbase material will be paid for under Section 304 - Aggregate Base and Subbase Course. Backing up machine laid curb is incidental to the curb items. Loam, as directed, will be paid under 615 – Loam.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
609.21 Concrete slipform curb	Linear Foot
609.214 Concrete slipform curb – 4' terminal end	Each
609.218 Concrete slipform curb – 8' terminal end	Each

SPECIAL PROVISION  
SECTION 643  
TRAFFIC SIGNALS

The provisions of Section 643 of the Standard Specifications shall apply with the following additions and modifications:

**643.01 Description** The project will result in the modernization of traffic control signals and pedestrian crossing facilities in the cities of Augusta, Belfast, Gardiner, Sanford, and Waterville and towns of Benton, Fairfield, Farmington, Norridgewock, Oakland, Randolph, South China, and Winslow. Equipment includes, but is not limited to Advanced Transportation Controller Cabinets (ATCC) with rack mounted Advanced Transportation Controllers (ATC), new wood pole with guy anchors and span wire, mast arm poles, strain poles, pedestal poles, vehicular and pedestrian signal heads with countdown timers, new light-emitting diode (LED) indications, retroreflective backplates on vehicle signal heads, wiring, signal cable, overhead mast arm and span wire mounted signs, non-invasive stop bar vehicle detection, non-invasive advance vehicle detection, emergency vehicle preemption, accessible pedestrian signals (APS), passive pedestrian detection (1 location, see corner B on plan sheet 54), and all appurtenances and incidentals required for complete functioning installations. In addition, the project will provide the means for remote communications to the traffic signal control cabinet equipment by field monitoring unit (FMU) with a cloud-based central management system (CMS) via a secure Virtual Private Network (VPN) tunnel and/or a City/Town existing or proposed fiber intranet connection.

Pedestrian equipment is to be installed under the guidelines of the Americans with Disabilities Act (ADA) having work integrated with curb ramp and detectable warning field improvements also being provided with this project.

Backplates will be provided for all new vehicle signal heads. The backplates shall be a minimum of 5-inches with 3-inch fluorescent yellow retroreflective strips. New backplates shall provide louvers for one-way, three-, four-section, and five-section 12-inch signal heads.

All traffic signal controller timing parameters shall be programmed to provide free and coordinated operations. Where shown in the plans, 31 intersections along 4 corridors (2-Augusta and 2-Waterville) shall be provided with Adaptive Signal Control Technology (ASCT). See Special Provision 654 and 718.13 for ASCT specifications.

This project will also provide dual mode Dedicated Short Range Communications (DSRC)/4GLTE-5G On Board Units (OBU's) and Road Side Unit (RSU) integrated into the ATCC. See Special Provision 654 for RSU and OBU specifications.

**643.211 Additional Materials** Materials shall also meet the requirements in the following Special Provision to Section of Division 700 - Materials:

Traffic Control System	718.13
Field Monitoring Unit	718.14
Messenger Wire	718.15

Emergency Vehicle Preemption System	718.16
Single Mode Fiber Optic Cable	718.17
Twelve (12) Position Fiber Optic Patch Panel	718.18
Ethernet Switch with Fiber Optic Interfaces	718.19
Wireless Interconnect System	718.20
Pedestrian Crossing System	718.21

**643.9 Service Connection** Add the following:

A total of 4, 10' service ground rods shall be installed and properly connected together in the cabinet foundation.

The Contractor shall be responsible for grounding the system to 5 ohms or less tested without an electrical connection to the utility neutral or ground conductor. The grounding shall be performed using a ground meter with reference grounds. In the event that a 5-ohm reading is not achieved, the Contractor shall install a chem-rod grounding electrode in close proximity to the cabinet. The chem-rod shall be properly connected to the four rod, grounding system in the cabinet. The chem-rod shall consist of a 10' copper rod (vertical or horizontal orientation) filled with common salt and desiccant, back filled with natural earth bentonite clay ground enhancement material. The chem-rod shall be installed per manufacturer's instructions. The location and orientation for the chem-rod installation shall be approved by the Resident. All testing shall be done in the presence of the Resident.

**643.12 Painting** Unless otherwise directed by MaineDOT or through the Resident Engineer, all exterior parts of the listed equipment shall be delivered to the project finished as follows:

City of Augusta (Capitol Complex Historic District, Locations 1, 19, 20, and 34)

Vehicular Signal Heads – all parts **bronze**.  
Pedestrian Signal Heads – all parts **bronze**.  
Accessible Pedestrian Signals (APS) – **black**.  
Signal Backplates – **bronze** and louvered w/ fluorescent yellow retroreflective strip.  
Controller Cabinets – **bronze painted** / aluminum.  
Mast Arms, Uprights, and Bases – **bronze painted** / galvanized steel.  
Pedestal Posts and Bases – **bronze painted** / aluminum.

City of Augusta (Locations, 2-11, 13-18 and 21-37, 29-33, 35, 38-40), City of Belfast (Locations 41, 42, and 44), City of Gardiner, Town of Fairfield (Location 47), Town of Farmington (Locations 49-53), Town of Randolph, and Town of Norridgewock

Vehicular Signal Heads – all parts **black**.  
Pedestrian Signal Heads – all parts **black**.  
Accessible Pedestrian Signals (APS) – **black**.  
Signal Backplates – **black** and louvered w/ fluorescent yellow retroreflective strip.  
Controller Cabinets – **bare metal** / aluminum.  
Mast Arms, Uprights, and Bases – **bare metal** / galvanized steel.  
Pedestal Posts and Bases – **bare metal** / aluminum.

City of Augusta (Locations 12, 28, and 36-37), City of Belfast (Downtown Location 43),  
Town of Fairfield (Location 46), Town of Farmington (Downtown Location 48), and  
City of Sanford

Vehicular Signal Heads – all parts **black**.

Pedestrian Signal Heads – all parts **black**.

Accessible Pedestrian Signals (APS) – **black**.

Signal Backplates – **black** and louvered w/ fluorescent yellow retroreflective strip.

Controller Cabinets – **black** / aluminum.

Mast Arms, Uprights, and Bases – **black** / galvanized steel.

Pedestal Posts and Bases – **black** / aluminum.

City of Waterville (Locations 74-83, 85, 87-88, 90-98), Town of South China,  
Town of Winslow, and Town of Oakland

Vehicular Signal Heads – all parts **federal yellow**.

Pedestrian Signal Heads – all parts **federal yellow**.

Accessible Pedestrian Signals (APS) – **federal yellow**.

Signal Backplates – **black** and louvered w/ fluorescent yellow retroreflective strip.

Controller Cabinets – **bare metal** / aluminum.

Mast Arms, Uprights, and Bases – **bare metal** / galvanized steel.

Pedestal Posts and Bases – **bare metal** / aluminum.

City of Waterville (Locations 84, 86, and 89),

Vehicular Signal Heads – all parts **federal yellow**.

Pedestrian Signal Heads – all parts **federal yellow**.

Accessible Pedestrian Signals (APS) – **federal yellow**.

Signal Backplates – **black** and louvered w/ fluorescent yellow retroreflective strip.

Controller Cabinets – **black** / aluminum.

Mast Arms, Uprights, and Bases – **black** / galvanized steel.

Pedestal Posts and Bases – **black** / aluminum.

**643.19 Basis of Payment** Traffic signal modifications (Item 643.71) will be paid for at the contract lump sum price for the intersection, which payment will be full compensation for furnishing and installing all materials, including, but not limited to ATCC complete with rack mount ATC controllers, FMU, generator transfer switch, span wire and tether cable, risers, vehicular signal heads, retroreflective backplates, aerial disconnects, signal cable, light emitting diode (LED) lamps, emergency vehicle preemption and all appurtenances and incidentals required for complete functioning installations and for furnishing all tools and labor necessary for completing the installations.

The on-street, IR light-based emergency vehicle pre-emption system (see Special Provision 718.16 of Division 700 – Materials for more information) will be paid for under pay items 643.71, which price will be full compensation for furnishing and installing all materials, appurtenances, and incidentals required for a complete functioning installation and for furnishing all tools and labor necessary for completing the installation.

Temporary Traffic Signals (Item 643.72) will be paid for at the contract lump sum price for the intersection, which payment will be full compensation for furnishing and installing all materials, tools and labor necessary for completing the temporary installation. Payment for temporary traffic signals shall include compensation for the removal of the system upon completion of the permanent signal installation.

The traffic signal control system (Item 643.81) will be paid for at the contract lump sum price, which payment will be full compensation for furnishing and installing all materials, including, but not limited to cloud-based CMS with integration of ASCT/CV/SPM system, installation and upgrades, training, and all appurtenances and incidentals required for a complete functioning installation with secure VPN remote access. Payment for signal system start-up, system loading and acceptance testing shall be considered incidental to the traffic signal control system.

The accepted quantity for 12-strand interconnect wire (Item 643.90) will be paid for at the contract lump sum price, which payment will be full compensation for furnishing and placing all materials between the termination points and within the controller cabinets at the locations shown on the plans including mounting hardware, performing and testing splices, splice enclosures, and incidentals including fiber optic related messenger wire required for a complete function installation. See Special Provision 718.17 to 718.19 of Division 700 – Materials for more information. The cost for risers on utility poles shall be incidental to the cost of the interconnect wire for 12-strand cable.

The accepted quantity for interconnect wireless system (Item 643.90) will be paid for at the contract lump sum price, which price shall be full compensation for furnishing and placing all materials including pole risers, antennas, antenna cables, media converters, control equipment, solar powered equipment (where applicable), frequency surveys, path analyses, signal strength testing, and all appurtenances and incidentals required for a complete functioning wireless interconnect system. See Special Provision 718.20 of Division 700 – Materials for more information.

Mast Arms (Item 643.91) will be paid for at the contract unit price each which payment shall be full compensation for furnishing and installing all mast arms, uprights, bases, anchor bolts to be supplied by the manufacturer of the mast arm poles, ancillary materials, tools and labor necessary to erect and install the structures.

Pedestal poles (Item 643.92) will be paid for at the contract unit price each which payment shall be full compensation for furnishing and installing all pedestal posts, bases, anchor bolts, ancillary materials, tools and labor necessary to erect and install the structures.

Strain Poles (Item 643.93) will be paid for at the contract unit price each which payment shall be full compensation for furnishing and installing all strain poles, bases, anchor bolts to be supplied by the manufacturer of the strain poles, ancillary materials, tools and labor necessary to erect and install the structures.

Dual Purpose Poles (Item 643.94) will be paid for at the contract unit price each which payment shall be full compensation for furnishing and installing all mast arms, uprights with overhead extensions for lighting to match existing pole lighting heights, providing or resetting existing luminaires, bases, anchor bolts to be supplied by the manufacturer of the mast arm poles, ancillary materials, tools and labor necessary to erect and install the structures.

Wood pole with guys (Item 643.97) will be paid for at the contract unit price each which payment will be full compensation for furnishing and installing all materials, including, but not limited to wood pole with guy wires and anchors, and all appurtenances and incidentals required to erect and guy anchor the pole.

Payment will be made under the following:

<u>Pay Item</u>	<u>Pay Unit</u>
643.71 Traffic Signal Modification: Sheet #1 Capitol St & Sewall St	Lump Sum
643.71 Traffic Signal Modification: Sheet #2 CCD & Commerce Dr	Lump Sum
643.71 Traffic Signal Modification: Sheet #3 CCD & Darin Dr	Lump Sum
643.71 Traffic Signal Modification: Sheet #4 CCD & I-95 NB	Lump Sum
643.71 Traffic Signal Modification: Sheet #5 CCD & I-95 SB	Lump Sum
643.71 Traffic Signal Modification: Sheet #6 CCD & Leighton Rd	Lump Sum
643.71 Traffic Signal Modification: Sheet #7 CCD & University Dr	Lump Sum
643.71 Traffic Signal Modification: Sheet #8 CCD & Townsend Rd	Lump Sum
643.71 Traffic Signal Modification: Sheet #9 Eastern Ave & Cony Rd	Lump Sum
643.71 Traffic Signal Modification: Sheet #10 Eastern Ave & Stone St	Lump Sum
643.71 Traffic Signal Modification: Sheet #11 Eastern Ave & Togus Rd	Lump Sum
643.71 Traffic Signal Modification: Sheet #12 Hospital St & Piggery Rd	Lump Sum
643.71 Traffic Signal Modification: Sheet #13 Route 3 & Church Hill Rd	Lump Sum
643.71 Traffic Signal Modification: Sheet #14 Route 3 & N Belfast Ave	Lump Sum
643.71 Traffic Signal Modification: Sheet #15 Route 3 & Riverside Dr	Lump Sum
643.71 Traffic Signal Modification: Sheet #16 Route 3 & Route 104	Lump Sum
643.71 Traffic Signal Modification: Sheet #17 Senator Way & Crossing Way	Lump Sum
643.71 Traffic Signal Modification: Sheet #18 S Belfast Ave & Cony Rd	Lump Sum
643.71 Traffic Signal Modification: Sheet #19 State St & Capitol St	Lump Sum
643.71 Traffic Signal Modification: Sheet #20 State St & Union St	Lump Sum
643.71 Traffic Signal Modification: Sheet #21 Stone St & Hannaford Dr	Lump Sum
643.71 Traffic Signal Modification: Sheet #22 Western Ave & Airport Rd	Lump Sum
643.71 Traffic Signal Modification: Sheet #23 Western Ave & Armory St	Lump Sum
643.71 Traffic Signal Modification: Sheet #24 Western Ave & Crossing Way	Lump Sum
643.71 Traffic Signal Modification: Sheet #25 Western Ave & Edison Dr	Lump Sum
643.71 Traffic Signal Modification: Sheet #26 Western Ave & Orchard St/Meadow Rd	Lump Sum
643.71 Traffic Signal Modification: Sheet #27 Western Ave & Senator Way	Lump Sum
643.71 Traffic Signal Modification: Sheet #28 Western Ave & Sewall St	Lump Sum
643.71 Traffic Signal Modification: Sheet #29 Western Ave & Shuman Dr	Lump Sum
643.71 Traffic Signal Modification: Sheet #30 Western Ave & U-Haul Dr	Lump Sum
643.71 Traffic Signal Modification: Sheet #31 Western Ave & Whitten Rd	Lump Sum
643.71 Traffic Signal Modification: Sheet #32 Route 3 & Medical Center Pkwy	Lump Sum
643.71 Traffic Signal Modification: Sheet #33 Route 3/Wilson St & Route 27	Lump Sum
643.71 Traffic Signal Modification: Sheet #34 State St & Winthrop St	Lump Sum

643.71	Traffic Signal Modification: Sheet #35 State St & Bridge St	Lump Sum
643.71	Traffic Signal Modification: Sheet #36 Water St & Bridge St	Lump Sum
643.71	Traffic Signal Modification: Sheet #37 Cony St & Willow St/ City Center Dr	Lump Sum
643.71	Traffic Signal Modification: Sheet #38 Bangor St & Linden St /Quimby St	Lump Sum
643.71	Traffic Signal Modification: Sheet #39 Bangor St & N Belfast Ave/Locke St	Lump Sum
643.71	Traffic Signal Modification: Sheet #40 Whitten Rd & Hannaford Dr	Lump Sum
643.71	Traffic Signal Modification: Sheet #41 Route 3 & Hatley Rd	Lump Sum
643.71	Traffic Signal Modification: Sheet #42 Main St & Hannaford Dr	Lump Sum
643.71	Traffic Signal Modification: Sheet #43 Main St & High St	Lump Sum
643.71	Traffic Signal Modification: Sheet #44 Route 1 & Route 52	Lump Sum
643.71	Traffic Signal Modification: Sheet #45 Bridge St & Benton Ave	Lump Sum
643.71	Traffic Signal Modification: Sheet #46 Route 201 & Bridge St	Lump Sum
643.71	Traffic Signal Modification: Sheet #47 Route 201 & KVCOG	Lump Sum
643.71	Traffic Signal Modification: Sheet #48 Route 4 & Broadway	Lump Sum
643.71	Traffic Signal Modification: Sheet #49 Route 4 & Route 2/27	Lump Sum
643.71	Traffic Signal Modification: Sheet #50 Route 4 & Bridge St	Lump Sum
643.71	Traffic Signal Modification: Sheet #51 Route 4 & Hannaford Dr	Lump Sum
643.71	Traffic Signal Modification: Sheet #52 Route 4 & Walmart Dr	Lump Sum
643.71	Traffic Signal Modification: Sheet #53 Route 4 & Hospital St	Lump Sum
643.71	Traffic Signal Modification: Sheet #54 Bridge St & Maine Ave	Lump Sum
643.71	Traffic Signal Modification: Sheet #55 Bridge St & Water St	Lump Sum
643.71	Traffic Signal Modification: Sheet #56 Main St & Perkins St	Lump Sum
643.71	Traffic Signal Modification: Sheet #57 Main St & Fairfield St	Lump Sum
643.71	Traffic Signal Modification: Sheet #58 Pleasant St & Oak St	Lump Sum
643.71	Traffic Signal Modification: Sheet #59 Water St & Bridge St	Lump Sum
643.71	Traffic Signal Modification: Sheet #60 Main St & Walmart Dr	Lump Sum
643.71	Traffic Signal Modification: Sheet #61 Main St & Jagger Mill Rd	Lump Sum
643.71	Traffic Signal Modification: Sheet #62 Main St & Shaws Dr	Lump Sum
643.71	Traffic Signal Modification: Sheet #63 Main St & Westview Dr	Lump Sum
643.71	Traffic Signal Modification: Sheet #64 Main St & Alumni Dr/ Old Mill Rd	Lump Sum
643.71	Traffic Signal Modification: Sheet #65 Main St & Emery St	Lump Sum
643.71	Traffic Signal Modification: Sheet #66 Main St & Washington St	Lump Sum
643.71	Traffic Signal Modification: Sheet #67 Main St & Route 202	Lump Sum
643.71	Traffic Signal Modification: Sheet #68 Main St & Route 224	Lump Sum
643.71	Traffic Signal Modification: Sheet #69 Route 4A/202 & River St	Lump Sum
643.71	Traffic Signal Modification: Sheet #70 Route 4 & Grammar Rd/New Dam Rd	Lump Sum
643.71	Traffic Signal Modification: Sheet #71 Route 224 & River St	Lump Sum
643.71	Traffic Signal Modification: Sheet #72 Route 4A/202 & Route 224	Lump Sum
643.71	Traffic Signal Modification: Sheet #73 Route 3 & Route 32	Lump Sum
643.71	Traffic Signal Modification: Sheet #74 KMD & First Park Dr	Lump Sum
643.71	Traffic Signal Modification: Sheet #75 KMD & I-95 SB	Lump Sum
643.71	Traffic Signal Modification: Sheet #76 KMD & I-95 NB	Lump Sum
643.71	Traffic Signal Modification: Sheet #77 KMD & Washington St	Lump Sum
643.71	Traffic Signal Modification: Sheet #78 KMD & Shaws Dr	Lump Sum
643.71	Traffic Signal Modification: Sheet #79 KMD & 1st Rangeway	Lump Sum
643.71	Traffic Signal Modification: Sheet #80 KMD & Hannaford Dr	Lump Sum
643.71	Traffic Signal Modification: Sheet #81 KMD & Cool St	Lump Sum
643.71	Traffic Signal Modification: Sheet #82 KMD & West River Rd	Lump Sum
643.71	Traffic Signal Modification: Sheet #83 KMD & CMD	Lump Sum

643.71 Traffic Signal Modification: Sheet #84 Silver St & Elm St	Lump Sum
643.71 Traffic Signal Modification: Sheet #85 Elm St & Western Ave	Lump Sum
643.71 Traffic Signal Modification: Sheet #86 Elm St & Park St	Lump Sum
643.71 Traffic Signal Modification: Sheet #87 Spring St & Main St	Lump Sum
643.71 Traffic Signal Modification: Sheet #88 Spring St & Silver St	Lump Sum
643.71 Traffic Signal Modification: Sheet #89 Spring St & Elm St	Lump Sum
643.71 Traffic Signal Modification: Sheet #90 Main St & Temple St	Lump Sum
643.71 Traffic Signal Modification: Sheet #91 Main St & Elm St	Lump Sum
643.71 Traffic Signal Modification: Sheet #92 Main St & Eustis Pkwy	Lump Sum
643.71 Traffic Signal Modification: Sheet #93 Main St & Armory St	Lump Sum
643.71 Traffic Signal Modification: Sheet #94 Main St & Waterville Commons Dr	Lump Sum
643.71 Traffic Signal Modification: Sheet #95 Main St & I-95 NB	Lump Sum
643.71 Traffic Signal Modification: Sheet #96 Main St & I-95 SB	Lump Sum
643.71 Traffic Signal Modification: Sheet #97 College Ave & Hazelwood Ave	Lump Sum
643.71 Traffic Signal Modification: Sheet #98 KMD & Airport Rd	Lump Sum
643.71 Traffic Signal Modification: Sheet #99 CMD & Cushman Rd	Lump Sum
643.71 Traffic Signal Modification: Sheet #100 China Rd & Cushman Rd	Lump Sum
643.71 Traffic Signal Modification: Sheet #101 Route 201 & Clinton Ave	Lump Sum
643.71 Traffic Signal Modification: Sheet #102 Route 201 & Halifax St	Lump Sum
643.71 Traffic Signal Modification: Sheet #103 Route 201 & China Rd	Lump Sum
643.71 Traffic Signal Modification: Sheet #104 Route 201 & CMD	Lump Sum
643.72 Temporary Traffic Signal: Sheet #36 Water St & Bridge St	Lump Sum
643.72 Temporary Traffic Signal: Sheet #43 Main St & High St	Lump Sum
643.72 Temporary Traffic Signal: Sheet #59 Water St & Bridge St	Lump Sum
643.72 Temporary Traffic Signal: Sheet #68 Main St & Route 224	Lump Sum
643.72 Temporary Traffic Signal: Sheet #101 Route 201 & Clinton Ave	Lump Sum
643.81 Traffic Control System	Lump Sum
643.90 Interconnect Wire: 12-Strand (7,000 LF)	Lump Sum
643.90 Interconnect Wireless System: Sheet #66 Main St and Washington St	Lump Sum
643.90 Interconnect Wireless System: Sheet #67 Main St and Route 202	Lump Sum
643.90 Interconnect Wireless System: Sheet #68 Main St and Route 224	Lump Sum
643.91 Mast Arm Pole, w/20' Arm & 30' Arm	Each
643.91 Mast Arm Pole, w/25' Arm	Each
643.91 Mast Arm Pole, w/30' Arm	Each
643.91 Mast Arm Pole, w/30' Arm & 35' Arm	Each
643.91 Mast Arm Pole, w/35' Arm	Each
643.91 Mast Arm Pole, w/35' Arm & 45' Arm	Each
643.91 Mast Arm Pole, w/40' Arm	Each
643.91 Mast Arm Pole, w/50' Arm	Each
643.91 Mast Arm Pole, w/55' Arm	Each
643.92 Pedestal Pole	Each
643.93 Strain Pole	Each
643.94 Dual Purpose Pole, w/20' Arm w/luminaire	Each
643.94 Dual Purpose Pole, w/25' Arm w/luminaire	Each
643.94 Dual Purpose Pole, w/28' Arm w/luminaire	Each
643.94 Dual Purpose Pole, w/35' Arm w/luminaire	Each
643.94 Dual Purpose Pole, w/40' Arm w/luminaire	Each
643.97 Wood Pole with Guys	Each

SPECIAL PROVISION  
SECTION 643  
TRAFFIC SIGNALS  
(Non-Invasive Detection - Advance)

Description. This item shall consist of furnishing and installing a non-invasive advance vehicle detection system including all necessary fittings, mounting hardware and appurtenances necessary to provide for a fully operational system at the locations shown on the plans or as indicated by the Maine Department of Transportation (MaineDOT).

Materials. The non-invasive advance vehicle detection system shall include a stand-alone, radar-based detector and an integrated machine processor, Microsoft Windows based configuration software that provides for configuring the non-invasive advance vehicle detection system. The Non-Invasive Detection – Advance shall include equipment meeting the following and all the requirements as defined under item 718.13. The use of a hybrid/combination unit to meet the following specifications shall not be allowed. A hybrid/combination unit is defined as a device designed to function using multiple detection technologies. The interface provided shall provide for the viewing of real time detection data and updating the memory of the non-invasive advance vehicle detection system. All mounting hardware, Ethernet communications interface panel, Advanced Transportation Controller Cabinet (ATCC) detector interface panel, detector cabling, all associated equipment, software and licenses and miscellaneous fittings, cabinet wiring, and all labor, materials and equipment required to complete the installation shall be included. The non-invasive detection system shall be integrated into the ATCC cabinet and made fully functional. No additional hardware, software items and/or subscription fees/costs shall be needed/allowed to satisfy the requirements as defined in these specifications. The non-invasive advanced vehicle detector shall be the Wavetronix Smart Sensor Advance.

All non-invasive advance vehicle detection system components shall be current production equipment produced by the same manufacturer as otherwise noted herein or approved in advance by MaineDOT. The non-invasive advance vehicle detection system hardware shall operate without degradation over a temperature range of -40 to 165 degrees Fahrenheit at a relative humidity up to 95% non-condensing.

The non-invasive advance vehicle detection system must meet the National Electrical Manufacturers Association (NEMA) 250 Standards for the enclosure, be able to detect vehicles at a minimum of 600 ft distance from the detector and the ability to simultaneously detect and track multiple vehicles. The non-invasive advance vehicle detection system's hardware and software used to setup, configure and communicate must be compatible with the vehicle detection's operating system.

Construction Requirements. The Contractor shall be responsible for furnishing all training, labor, materials, cables, connectors, tools, equipment, shipping and incidental items necessary to complete the installation and make the non-invasive advance vehicle detection system fully operational.

Installation of the non-invasive advance vehicle detection system shall include the installation of any and all associated equipment including, but not limited to, the following:

- a. Detector assembly with integrated machine vision processor. The Contractor shall furnish one assembly per designated approach as indicated in the plans.
- b. Detector Ethernet communications interface panel. The Contractor shall furnish one detector communications interface panel per cabinet.
- c. ATCC detector interface panel. The Contractor shall furnish one detector ATCC detector interface panel per cabinet.
- d. Detector Cable. The Contractor shall furnish the specified cable type, all connectors, sealing tape and incidental work necessary to complete the installation of the connector cable between the detector assembly and the interface panel.
- e. Mounting Brackets and Ancillary Equipment and Labor. The Contractor shall furnish detector mounting brackets and all associated equipment labor, materials and incidental work necessary to attach the detector assemblies to a mast arm or extension bracket, complete the installation and make the non-invasive advance vehicle detection system fully operational.

The Contractor shall install the Non-Invasive Detection - Advance processor system software on the cloud-based Central Management System (CMS). In addition, the Contractor shall install and configure the Non-Invasive Detection – Advance system software on ten (10) computers/systems as required by MaineDOT to allow for visual confirmation of the detection zones as shown on the plans.

All equipment shall be installed and wired in a neat and orderly manner in conformance with the manufacturer's instructions. The detector assembly(s) shall be installed attached to a support structure in accordance with the manufacturer's instructions to provide the optimal field of detection as directed by MaineDOT and/or the Engineer.

The non-invasive advance vehicle detection zones shown on the plans are for illustrative purposes only. Final detection zones shall be located in the field and approved by MaineDOT and/or Engineer.

The installation will be considered complete when the Contractor shows that the non-invasive advance detection system has successfully and consistently placed a call to the Advanced Transportation Controller (ATC). The call shall be placed when a vehicle has been detected in the dilemma zone as shown on the plans. In addition, the completed installation shall provide remote access to the Non-Invasive Detection - Advance system via MaineDOT control and or the cloud-based CMS/ACST.

Method of Measurement. The non-invasive advance vehicle detection system will be measured for payment as a lump sum for a fully installed and operational Non-Invasive Detection – Advance system. All items, equipment, labor, incidentals and testing required to create a fully functional system will be considered incidental to the cost of this item. The item shall be unconditionally warranted for at least 3 years from installation and certified to comply with the product’s published specification by an independent laboratory.

Basis of Payment. Payment will be full compensation for furnishing, transporting, handling, and installing the materials and equipment specified and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

<u>Pay Item</u>	<u>Pay Unit</u>
643.22 Non-Invasive Detection - Advance: Sheet #3 CCD & Darin Dr	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #4 CCD & I-95 NB	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #5 CCD & I-95 SB	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #6 CCD & Leighton Rd	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #7 CCD & University Dr	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #8 CCD & Townsend Rd	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #9 Eastern Ave & Cony Rd	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #10 Eastern Ave & Stone St	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #11 Eastern Ave & Spring St/Togus Rd	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #12 Hospital St & Piggery Rd/Tyson Dr	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #13 Route 3 & Church Hill Rd	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #14 Route 3 & N Belfast Ave	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #15 Route 3 & Riverside Dr	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #16 Route 3 & Route 104	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #18 S Belfast Ave & Cony Rd	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #23 Western Ave & Armory St	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #24 Western Ave & Augusta Xing	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #25 Western Ave & Edison Dr	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #26 Western Ave & Orchard St	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #27 Western Ave & Senator Way	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #29 Western Ave & Shuman Dr	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #31 Western Ave & Whitten Rd	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #40 Whitten Rd & Hannaford Dr	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #41 Route 3 & Hatley Rd	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #42 Main St & Hannaford Dr	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #44 Route 1 & Route 52	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #47 Route 201 & KVCOG	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #49 Route 4 & Route 2/27	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #51 Route 4 & Hannaford Dr	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #52 Route 4 & Walmart Dr	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #53 Route 4 & Hospital St	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #54 Bridge St & Maine Ave	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #57 Main St & Fairfield St	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #59 Water St & Bridge St	Lump Sum
643.22 Non-Invasive Detection - Advance: Sheet #60 Main St & Walmart Dr	Lump Sum

643.22	Non-Invasive Detection - Advance: Sheet #61 Main St & Jagger Mill R	Lump Sum
643.22	Non-Invasive Detection - Advance: Sheet #62 Main St & Shaws Dr	Lump Sum
643.22	Non-Invasive Detection - Advance: Sheet #63 Main St & Westview St	Lump Sum
643.22	Non-Invasive Detection - Advance: Sheet #64 Main St & Alumni Dr/ Old Mill Rd	Lump Sum
643.22	Non-Invasive Detection - Advance: Sheet #70 Route 4 & Grammar Rd/New Dam	Lump Sum
643.22	Non-Invasive Detection - Advance: Sheet #71 Route 224 & River St	Lump Sum
643.22	Non-Invasive Detection - Advance: Sheet #72 Route 4A/202 & Route 224	Lump Sum
643.22	Non-Invasive Detection - Advance: Sheet #73 Route 202 & Route 32	Lump Sum
643.22	Non-Invasive Detection - Advance: Sheet #74 KMD & First Park Dr	Lump Sum
643.22	Non-Invasive Detection - Advance: Sheet #75 KMD & I-95 SB	Lump Sum
643.22	Non-Invasive Detection - Advance: Sheet #76 KMD & I-95 NB	Lump Sum
643.22	Non-Invasive Detection - Advance: Sheet #77 KMD & Washington St	Lump Sum
643.22	Non-Invasive Detection - Advance: Sheet #78 KMD & Shaws Dr	Lump Sum
643.22	Non-Invasive Detection - Advance: Sheet #79 KMD & 1st Rangeway	Lump Sum
643.22	Non-Invasive Detection - Advance: Sheet #80 KMD & Hannaford Dr	Lump Sum
643.22	Non-Invasive Detection - Advance: Sheet #81 KMD & Cool St	Lump Sum
643.22	Non-Invasive Detection - Advance: Sheet #82 KMD & West River Rd	Lump Sum
643.22	Non-Invasive Detection - Advance: Sheet #83 KMD & CMD	Lump Sum
643.22	Non-Invasive Detection - Advance: Sheet #93 Main St & Armory St	Lump Sum
643.22	Non-Invasive Detection - Advance: Sheet #94 Main St & Waterville Commons	Lump Sum
643.22	Non-Invasive Detection - Advance: Sheet #95 Main St & I-95 NB	Lump Sum
643.22	Non-Invasive Detection - Advance: Sheet #96 Main St & I-95 SB	Lump Sum
643.22	Non-Invasive Detection - Advance: Sheet #97 College Ave & Hazelwood Ave	Lump Sum
643.22	Non-Invasive Detection - Advance: Sheet #98 KMD & Airport Rd	Lump Sum
643.22	Non-Invasive Detection - Advance: Sheet #99 CMD & Cushman Rd	Lump Sum
643.22	Non-Invasive Detection - Advance: Sheet #101 Route 201 & Clinton Ave	Lump Sum
643.22	Non-Invasive Detection - Advance: Sheet #104 Route 201 & CMD	Lump Sum