Town of Falmouth
Public Works Department
101 Woods Road
Falmouth, ME 04105

Addendum Number 1

Bid: Engineering Services – Route 100 Construction Inspection
Town of Falmouth – Public Works Department
Falmouth, ME
Date: November 13, 2018
From: Jay Reynolds, Public Works Director

Questions, Clarifications, and Additional Information:

1. In the original RFP, there was a general outline of anticipated hours worked for on-site inspections (25-35 hours) during heavy construction.
   The intent of the on-site inspection services is to provide full-time inspections during construction. Therefore, the anticipated hours during heavy construction is anticipated to be between 40 and 55 hours. Consultants should account for this revised scope of services.

2. Although not specified in the original RFP, it is implied that the consultant shall utilize other staff, such as a resident engineer, project manager, drafter, surveyor, landscape architect, administrative staff, etc., to support and complete the tasks of inspections, testing, submittal reviews, change orders, monthly payments, and any/all other specified tasks in the RFP.

3. With regards to expectations regarding the hours spent on the project by the 'Resident' or 'Project Manager' the Town does not anticipate this position to work full time on this project. Hours needed will depend on number of change orders, plan accuracy, submittal quality, contractor efficiency, et cetera.

4. With regards to materials testing, the consultant will be responsible for that coordination as outlined in the RFP. Specifically, the following additional information is provided:
   a. The enclosed document outlines the materials testing requirements. Any testing requirements related to the 'Libby Bridge' rehabilitation project are NOT part of the consultant's scope of work to coordinate.
   b. MDOT testing labs in Freeport will be utilized for materials testing. Any costs relating to the use of the labs will be paid directly from the Town to the State.

5. Reporting Requirements/Local Project Administration- Further Clarifications:
   a. The project is being administered as a locally administered project (LAP). The Town of Falmouth is the designated LAP administrator, therefore many of the documentation will be sent from the Town to the State; However, the consultant shall provide technical assistance as needed to the Town, to assist with finalization of documents/reports required for LAP administration.
   b. There is no federal money associated with this project, thus the Federal regulations and federally-required reporting are not applicable to this project.

6. Electronic Drawings: Design plans/drawings will be provided to the consultant in the form of MicroStation file format. The original RFP erroneously stated 'Autocad/.dwg' files.

Please acknowledge receipt of this addendum by either emailing (jreynolds@falmouthme.org) a confirmation receipt, or writing in an acknowledgement on the bid form to be submitted.

FORM REVISED Jan 11, 2016

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
PROJECT DEVELOPMENT
MINIMUM TESTING REQUIREMENTS

Project No.: 21784.00, 21722.00 **Date:** 10/30/18

Win : 21784.00, 21722.00

Town: Falmouth LAP **Length:** 1.51 **miles**

Location: In Cumberland County the project is along State Route 100/26.
Highway Reconstruction, Bridge Rehab, Landscaping and Utility Work.

Item No.	Description	Quantity	Unit	Est # of Passing Accept. Tests	Type of Tests
NOTE: FILL OUT PRODUCT EVALUATION REPORT AT COMPLETION OF PROJECT. SEND TO ADDRESS ON FORM					
	"Buy America Clause"				Prior to Payment the Contractor shall provide certification of all products containing iron or steel **See Special Provision 105** "Buy America Certification"
203	Embankment (Control Density Fill Only)	1	CY	1	Number of 1000 LF sections
	Total linear foot of Control Density Fill(s)	124	LF	30	Number of Layers
	Total Elev. Depth of Control Density Fill(s)	15	LF	15	Number of Compactions **item 673.10**
	Embankments (bridge approaches and structural plate pipes & box culverts)	box culvert item 534		20	Total Depth in feet of Granular Backfill abutting each structure
				20	Compaction (one every other layer each side of structures)
	Gravel Borrow	inc to 673	CY	1	Gradation 1/ 5,000 CY
	Granular Borrow	3300	CY	1	Gradation 1/ 5,000 CY
	Special Fill	180	CY	1	Gradation 1/ 5,000 CY
	Crushed Stone 3/4"	inc to 801	CY	1	Gradation 1/ 5,000 CY
				1	Resistance to Degradation (1 / source / project) NOTE: Passing test from another project may be used if within 6 months.
304	Aggregate Subbase-Gravel	21500	CY	9	Gradation 1/ 2,500 CY
	Total length in feet of A.S.G. (lower)	4000	LF	4	Compaction (lower)
	Total length in feet of A.S.G. (upper)	4000	LF	4	Compaction (upper) Compactions are based on 1 test per 2000 LF per lane per layer
				3	Resistance to Degradation 1 / source / project If Micro-deval is used, or if initial Washington degradation value

					>25.0, test at rate of 1/10,000 CY. If initial WD < 25.0, test at rate of 1/5000 CY. NOTE: Passing test from another project may be used if within 6 months. **In the case where HMA Base will be placed over the Subbase/Base Gravel within 7 days or less:** 2 gradation samples shall be taken at the same offset within 25'. The 1st sample shall be labeled Acceptance; the 2nd Retest of 1st sample. If 1st sample meets specification, 2nd sample may be discarded.
QUALITY ASSURANCE ITEM					
QC PLAN BY CONTRACTOR REQUIRED WITHIN 21 DAYS OF CONTRACT EXECUTION OR 30 DAYS BEFORE ANY RELATED WORK					
If remaining Tons at the end of an item are 1/2 of a sublot or more, add another sublot; if less than half, add Tons to last sublot.					
Two Plant Checks by Testing Section Required for Each Five Days of Operation					
403	Hot Bituminous Pavement			1	Job Mix Formula per mix
	METHOD "A"				
					METHOD "A"
	403.213	**4950**	Ton	7	Gradation 1 / 750 T sublot
	"12.5 mm Binder"			7	Asphalt Cont. 1 / 750 T sublot
				7	Air Voids Analysis
					1 / 750 T sublot
	Mainline	**2475**	Ton	5	Core Densities 1 / 500 T sublot
					Minimum 4 mix sublots/5 cores
					Cores in Full Construction Areas
					Including Bike and Auxiliary Lanes
					METHOD "A"
	403.208	**3180**	Ton	4	Gradation 1 / 750 T sublot
	"12.5 mm Surface"			4	Asphalt Cont. 1 / 750 T sublot
				4	Air Voids Analysis
					1 / 750 T sublot
	Mainline	**1590**	Ton	6	Core Densities 1 / 250 T sublot
					Minimum 4 mix sublots/5 cores
					Cores in Full Construction Areas
					Including Bike and Auxiliary Lanes
	METHOD "D"				
					METHOD "D"
	Quantity of Method D Mixes		Ton	6	Gradation 1 / 250 T sublot
	Number of Method D mix sublots	**6**	sublots	6	Asphalt Cont. 1 / 250 T sublot
	Number of Method D sublots with cores	**0**	sublots	0	Core Densities 2/ 250 T sublot
	List Mixes:				Method "D" Requires
	403.209	**1210**			Gradation and Asphalt Contents
	403.211	**90**			Densities as per Spec Prov 403
					Pay according to Special Provision
					401 Method "D"
	Bituminous Material			1	Loading Invoice with each shipment of material from supplier-Collected at Plant by Testing Personnel
TESTING BASED ON TONS PRODUCED					

409	Bituminous Tack Coat Applied	1900	G	1	Loading Invoice with each shipment of material and statement of certification (See Division 700 of Standard Specifications.)
411	Untreated Aggregate Surface Course Type A and B	100	CY	1 1	Gradation 1 / 500 CY Resistance to Degradation (Required if used under Pavement) 1 / source / project If Micro-deval is used, or if initial LA Wear value <22.0, test at rate of 1/10,000 CY. If initial LA Wear >22.0, test at rate of 1/5000 CY. NOTE: Passing test from another project may be used if within 6 months.
	QUALITY ASSURANCE ITEM				
	QC PLAN BY CONTRACTOR REQUIRED WITHIN 21 DAYS OF CONTRACT EXECUTION OR 30 DAYS BEFORE ANY RELATED WORK				
	One Plant Check by Testing Section Required for Each Five Sublots				
	NOTE: If CY is more than half the sublot size, add another sublot; however, if less than half the sublot size, add to previous sublot.				
502	Structural Concrete			1 1 1 1	Quality of Coarse Aggregate Quality of Fine Aggregate Set of Verification Gradations Per five sublots PCC Mix Design Per Class of Conc
	METHOD "C"			6	Set(s) of 2 Cylinders
	Total Number of Small Lots	4		6	Air test
	List Mixes By Item Number:			5	Set(s) of 4 Cyl. For Permeablity/Lot **a total of 6 Cyl per sublot** **All Cylinders 4x8 per 50 CY**
	502.49	10 CY			
	526.34	4 EA			
	626.31	8 EA			
	626.32	59 EA			
	626.332	22 CY			
	626.333	12 CY			
	626.35	3 EA			
	608.26	315 SF			
	502.56 Concrete Fill	8 CY	no permeability		
	Cement			1	Certified Mill test
	Pozzolan			1	Certified Test Report
	Polyvincylchloride Water stops			1	Certification
	Joint Sealant (if used)			1	Certification
					Test Rpt. (if not on approved list)
	Reinforcing Steel	inc		1	Certification
507	Bridge Railing	100	LF	1	Certification Sample 4 Washers, 4 Nuts 4 Anchor bolts to Central Lab (each manufacturer, each size) 3 weeks prior to use
508	Membrane Waterproofing	lump sum	LUMP	1	Certification (100% covered) Complete and Send Attached Product Evaluation Sheet to Augusta
515	Protective Coating for Concrete Surfaces	50	SY	1	Certification

518	Rehab Structural Concrete- Vertical Surf	40	SF		Commercial Patching from Approved List Complete and Send Attached Product Evaluation Sheet to Address on Form
	Rehab Structural Concrete-Overhead Surf	40	SF		
	Granite Curb Bedding Mortar	inc	LF	1	Certification
527	Workzone Traffic Cushion	4	UN	1	Certification
534	Precast Structural Concrete	lump sum	LUMP	1	Quality Coarse Aggregate
	(Arches, Box Culvert)			1	Quality Fine Aggregate
				1	Set of gradations by MDOT
				1	Set of 2 Cylinder by MDOT
					Set(s) of 8 Cylinders by Contractor, per placement
				1	Certification(100% complete)
	Reinforcing Steel			1	Certification
	Epoxy Coated Reinforcing			1	Certification
	Bedding - Type C UD Stone			1	See Plans for Bedding options if no option for Granular borrow Gradation
	Bedding Granular Borrow or Type C UD Stone			*	If Granular Borrow is an option Gradation **{ Testing Optional } for Rejection Only of Unsuitable Material**
603	Culvert Pipe	1847	LF	1	Certification
				1	Certification (gaskets)
	Concrete Pipe Ties	38	GP	1	Certification
604	Catch Basins & Manholes	47	EA	1	Certification (precast, Type F, B, A)
	Altering CB to MH	1	EA	1	Certification (castings, grates)
	Mortar Sand		LUMP	1	Gradation
				1	Colormetric
	Traps		EA	1	Certification
605	Underdrains				
	Underdrain Type "B"	8100	LF	12	Gradation (Sand) 1 / 1000 LF (Total LF of Type B & Type C UD)
	UnderdrainType "C"	2920	LF	2	Gradation (Stone) 1 / 2000 LF (Total LF of Type C UD)
	Underdrain Pipe			1	Certification
				NOTE	**2 gradation samples shall be taken initially for acceptance** The 1st sample shall be labeled acceptance, the 2nd sample shall be labeled retest of 1st sample. If the first sample passes- the 2nd sample may be discarded.
606	Guard Rail	2350	LF	1	Certification (beams, posts, Brackets, & hdware)
	Guard Rail 15 ft Radius or Less	225	LF		
	Guard Rail over 15 ft Radious	153	LF		
	Delineator Post	18	EA	1	Certification
	Tangent Terminal- Energy Absorbing	5	EA	1	Certification
	Refectorized Flexible GR Marker	66	EA	1	Certification

	Terminal End	12	EA	1	Certification
	Mailbox and Post	95	EA	1	Certification
	Bridge Transition	6	EA	1	Certification
	Flared Terminal	3	EA	1	Certification
	Buried-In-Slope End	2	EA	1	Certification
608	Curb Ramp Detectable Warn. Field	315	SF		Concrete Testing as per Standard Specification 502 and Special Provision 502 **See Section 502 of This Document**
613	Erosion Control Blanket	6600	SY	1	Certification
615	Loam	2300	CY	*	**{ Testing Optional } for Rejection Only of Unsuitable Material**
	Loam/Compost Mix	250	CY		
618	Seeding Method Number 1	110	UN	1	Certification
	Seeding Method Number 2	80	UN	1	Certification
619	Mulch	200	UN	1	Certification
	Bark Mulch	35	CY		
620	Stabilization Geotextile	200	SY	1	Manufacturers product sheet for each type of geotextile or on approved list
	Drainage Geotextile	600	SY		
	Erosion Control Geotextile	1600	SY		
621	Planting Trees (add all trees)	65	each	1	Inspection Statement (from Landscape Section)
	Decid. Shrubs	74	each		
	Herbaceous Perennials	512	each		
626	626.31	8 EA			Concrete Testing as per Standard Specification 502 and Special Provision 502 **See Section 502 of This Document**
	626.32	59 EA			
	626.332	22 CY			
	626.333	12 CY			
	626.35	3 EA			
	Anchor Bolts			1	Certification
	Reinforcing Steel			1	Certification
	Precaset Concrete Junction Box	13 EA		1	Certification
627	Pavement Markings	7700	LF	1	Certification
		3400	SF	1	Certification
634	Highway Lighting	lump sum	LUMP	1	Certification
	Ornamental Lighting	59	EA	1	Certification
643	Traffic Signals at Leighton Rd	lump sum	LUMP	1	Certification
	Traffic Signals at Falmouth Rd	lump sum	LUMP	1	Certification
	Rapid Flashing Beacon	4	EA	1	Certification
	Video Detection System	lump sum	LUMP	1	Certification
	Traffic Signal Loop Detector	16	EA	1	Certification
	Mast Arm Pole 30 ft	2	EA	1	Certification
	Mast Arm Pole 35 ft	2	EA	1	Certification
	Mast Arm Pole 40 ft	1	EA	1	Certification
	Mast Arm Pole 50 ft	1	EA	1	Certification
	Pedestal Pole	4	EA	1	Certification
656	Temp. Soil Erosion & Water P. C. P.	lump sum	LUMP	1	Approved Plan See Spec Prov 656
661	Esplanade High Flow Biofilter	203	SF	1	Certification **See Special Provision 661** For all Material, Specification and Installation Requirements
662	Precast Curbline Pretreatment Unit	8	EA		**See Special Provision 662** For all Material, Specification and

					Installation Requirements
663	Domed Overflow Riser with Filter Insert	8	EA		**See Special Provision 663** For all Material, Specification and Installation Requirements
673	Wet Cast Small Landscape Block Wall	727	SF	1	Certification
	Concrete Leveling Pad			1	PCC Mix Design
				1	Quality Coarse Aggregate
				1	Quality Fine Aggregate
				1	Set of Gradations by MDOT
				1	Set of 2 Cylinders by MDOT
				1	Air Test
	Precast Units			1	Approved Mix Design
				1	100% Certification
				1	Quality Coarse Aggregate
				1	Quality Fine Aggregate
				1	Set of gradations by MDOT
				1	Set of 6 Cylinders to MDOT **per 200 CY**
				1	Set(s) of 6 Cylinders by Contractor, **per 50 CY**
	Geosynthetics			1	Certification
	Epoxy Coated Reinforcing			1	Certification
	Reinforcing Steel			1	Certification
	Cement			1	Certified Mill Test
	Crushed Stone 3/4"			1	Gradation
				1	Resistance to Degradation
	Foundation and Backfill - Gravel Borrow				**See Section 203 this Document**
801 & 803	**Sanitary Sewer Installation**				**See Special Provision 801, 803** For all Material, Specification and Installation Requirements **Gradations and Compactions of Various Backfill as Directed**
All other 800 items					**Materials as Specified in Contract Book**