



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

JOHN ELIAS BALDACCI
 GOVERNOR

DAVID A. COLE
 COMMISSIONER

April 15, 2010
 Subject: **Kittery**
 Maine State Pin No: 015099.00
Amendment No. 2

Dear Sir/Ms:

Make the following changes to the Bid Documents:

In the Bid Book (pages 4 thru 10), **REMOVE** the “SCHEDULE OF ITEMS”, 7 pages dated 100324 and **REPLACE** with the attached new “SCHEDULE OF ITEMS”, 7 pages dated 100415.

In the Bid Book (page 47) **REMOVE** “SPECIAL PROVISION, SECTION 107, TIME, (Supplemental Liquidated Damages for Fabrication Time)” 1 page dated February 10th, 2010 and **REPLACE** with the attached new “SPECIAL PROVISION, SECTION 107, TIME, (Supplemental Liquidated Damages for Fabrication Time)” 1 page dated April 13th, 2010.

In the Bid Book, after page 81, **ADD** the attached “SPECIAL PROVISION, SECTION 511, COFFERDAMS, (Temporary Earth Support Systems)”, 4 pages dated April 14, 2010.

In the Bid Book, after page 91, **ADD** the attached “SPECIAL PROVISION, SECTION 535, PRECAST, PRESTRESSED CONCRETE SUPERSTRUCTURE, (Release Time)” 1 page dated April 13th, 2010.

In the Plans, Sheet Number 2 of 40, **ADD** the following items to the “ESTIMATED QUANTITIES” in pen and ink;

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
<u>511.07</u>	<u>COFFERDAM – ABUTMENT NO.1</u>	<u>1</u>	<u>LS</u>
<u>511.07</u>	<u>COFFERDAM – ABUTMENT NO.2</u>	<u>1</u>	<u>LS</u>

In the Plans, Sheet Number 35 of 40, **CHANGE** Note 3 to read as follows; “The tensioning force for nominally tensioned strands is 5 kips per strand. **The nominally tensioned strand may have 3/8 – inch strand substituted for the 0.6-in. strand.**” Make this change in pen and ink.

In the Plans, Sheet Number 35 of 40, after note #7 **ADD** the following note; “**7a. The neoprene bearing pads shall be supplemented with 1/8 – in. shim pads as necessary or as directed by the Resident to provide even bearing. Shim pads shall meet the same requirements as bearing pads.**” Make this change in pen and ink.



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In the Plans, Sheet Number 35 of 40, **ADD** the attached “CLIP DETAIL” under the “NEXT BEAM SECTION” detail.

In the Plans, Sheet Number 36 of 40, after note #7, **ADD** the following note in pen and ink; **“8. To maintain fascia height and curb reveal, the optional precast curb shall be either match cast to the exterior beams or placed in a grout bed. The selected method shall be shown on the shop drawings.”**

The following questions have been received:

Question: Are plans of the existing bridge available?

Response: No, Plans of the existing bridge are not available.

Question: Which pay item should be used for the Temporary Earth Supports required at the abutments?

Response: Cofferdam Items, 511.07 Cofferdam - Abutment #1 - LS and 511.07 Cofferdam - Abutment # 2 - LS, are added to the schedule of items.

Question: Reference Special Provision 104, please clarify the estimated time the utilities require to clear the area for construction. Page 33 has a total of 39 working days and page 34 indicated a “minimum of ten weeks”.

Response: The ten weeks referred to on page 34 is correct. The working days listed per utility are estimated time on site not including engineering and material procurement.

Question: Can the Department provide a Special Provision for item 890.01 (Special Work #1, Telephone Conduit)?

Response: Please see pages 37 & 38 of the contract book for the Specification for the Special utility work.

Consider these changes and information prior to submitting your bid on April 21, 2010.

Sincerely,



Scott Bickford
Contracts & Specifications Engineer

SCHEDULE OF ITEMS

REVISED:

CONTRACT ID: 015099.00

PROJECT(S): 015099.00

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
SECTION 0001 PROJECT ITEMS						
0010	202.19 REMOVING EXISTING BRIDGE	LUMP	LUMP			
0020	203.20 COMMON EXCAVATION	2940.000 CY				
0030	203.21 ROCK EXCAVATION	100.000 CY				
0040	203.25 GRANULAR BORROW	715.000 CY				
0050	206.07 STRUCTURAL ROCK EXCAVATION - DRAINAGE AND MINOR STRUCTURES	5.000 CY				
0060	206.082 STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES	1050.000 CY				
0070	206.092 STRUCTURAL ROCK EXCAVATION - MAJOR STRUCTURES	135.000 CY				
0080	304.10 AGGREGATE SUBBASE COURSE - GRAVEL	2160.000 CY				
0090	403.207 HOT MIX ASPHALT 19.0 MM HMA	400.000 T				
0100	403.209 HOT MIX ASPHALT 9.5 MM (SIDEWALKS, DRIVES, INCIDENTALS)	23.000 T				

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0110	403.210 HOT MIX ASPHALT 9.5 MM	650.000 T				
0120	403.213 HOT MIX ASPHALT 12.5 MM BASE	240.000 T				
0130	409.15 BITUMINOUS TACK COAT - APPLIED	275.000 G				
0140	502.21 STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS	315.000 CY				
0150	502.261 STRUCTURAL CONCRETE ROADWAY & SIDEWALK SLAB ON CONCRETE BRIDGE	LUMP	LUMP			
0160	502.31 STRUCTURAL CONCRETE APPROACH SLABS	LUMP	LUMP			
0170	502.49 STRUCTURAL CONCRETE CURBS AND SIDEWALK	LUMP	LUMP			
0180	502.56 CONCRETE FILL	145.000 CY				
0190	503.12 REINFORCING STEEL, FABRICATED AND DELIVERED	66200.000 LB				
0200	503.13 REINFORCING STEEL, PLACING	66200.000 LB				
0210	503.17 MECHANICAL WELDED SPLICE	310.000 EA				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0220	507.0811 STEEL BRIDGE RAILING, 2 BAR	LUMP	LUMP			
0230	508.14 HIGH PERFORMANCE WATERPROOFING MEMBRANE	LUMP	LUMP			
0240	511.07 COFFERDAM: ABUTMENT NO.1	LUMP	LUMP			
0250	511.07 COFFERDAM: ABUTMENT NO.2	LUMP	LUMP			
0260	512.081 FRENCH DRAINS	LUMP	LUMP			
0270	513.09 SLOPE PROTECTION - PORTLAND CEMENT CONCRETE	126.000 SY				
0280	514.06 CURING BOX FOR CONCRETE CYLINDERS	1.000 EA				
0290	515.21 PROTECTIVE COATING FOR CONCRETE SURFACES	LUMP	LUMP			
0300	526.301 TEMPORARY CONCRETE BARRIER TYPE I	LUMP	LUMP			
0310	526.34 PERMANENT CONCRETE TRANSITION BARRIER	4.000 EA				
0320	534.76 PRECAST ABUTMENT	LUMP	LUMP			

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0330	535.61 PRESTRESSED STRUCTURAL CONCRETE I-GIRDERS	LUMP	LUMP			
0340	603.15 12 INCH CULVERT PIPE OPTION I	44.000 LF				
0350	603.159 12 INCH CULVERT PIPE OPTION III	5.000 LF				
0360	604.072 CATCH BASIN TYPE A1-C	1.000 EA				
0370	604.16 ALTERING CATCH BASIN TO MANHOLES	1.000 EA				
0380	606.1721 BRIDGE TRANSITION - TYPE 1	3.000 EA				
0390	606.23 GUARDRAIL TYPE 3C - SINGLE RAIL	400.000 LF				
0400	606.257 TERMINAL CONNECTOR - THRIE BEAM	1.000 EA				
0410	606.353 REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	2.000 EA				
0420	606.47 SINGLE WOOD POST	1.000 EA				
0430	606.65 GUARDRAIL THRIE BEAM - SINGLE RAIL	6.250 LF				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0440	606.66 TERMINAL END THRIE BEAM	1.000 EA				
0450	606.72 GUARDRAIL THRIE BEAM GREATER THAN 15 FOOT RADIUS	25.000 LF				
0460	609.11 VERTICAL CURB TYPE 1	430.000 LF				
0470	609.31 CURB TYPE 3	30.000 LF				
0480	609.34 CURB TYPE 5	10.000 LF				
0490	609.38 RESET CURB TYPE 1	140.000 LF				
0500	609.40 RESET CURB TYPE 5	350.000 LF				
0510	610.18 STONE DITCH PROTECTION	50.000 CY				
0520	613.319 EROSION CONTROL BLANKET	20.000 SY				
0530	615.0701 LOAM - PLAN QUANTITY	110.000 CY				
0540	618.1301 SEEDING METHOD NUMBER 1 - PLAN QUANTITY	5.000 UN				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0550	618.1401 SEEDING METHOD NUMBER 2 - PLAN QUANTITY	14.000 UN				
0560	618.15 TEMPORARY SEEDING	15.000 LB				
0570	619.1201 MULCH - PLAN QUANTITY	19.000 UN				
0580	620.58 EROSION CONTROL GEOTEXTILE	170.000 SY				
0590	627.733 4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	3400.000 LF				
0600	627.76 TEMPORARY PVMT. MARK LINE, W OR YELLOW	LUMP	LUMP			
0610	629.05 HAND LABOR, STRAIGHT TIME	10.000 HR				
0620	631.12 ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	10.000 HR				
0630	631.172 TRUCK - LARGE (INCLUDING OPERATOR)	10.000 HR				
0640	637.071 DUST CONTROL	LUMP	LUMP			
0650	639.18 FIELD OFFICE TYPE A	1.000 EA				

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			DOLLARS	CTS	DOLLARS	CTS
0660	652.30 FLASHING ARROW BOARD	2.000 EA				
0670	652.312 TYPE III BARRICADE	6.000 EA				
0680	652.33 DRUM	50.000 EA				
0690	652.34 CONE	100.000 EA				
0700	652.35 CONSTRUCTION SIGNS	560.000 SF				
0710	652.361 MAINTENANCE OF TRAFFIC CONTROL DEVICES	LUMP	LUMP			
0720	652.38 FLAGGER	150.000 HR				
0730	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LUMP	LUMP			
0740	659.10 MOBILIZATION	LUMP	LUMP			
0750	890.01 SPECIAL WORK #1 TELEPHONE CONDUIT	LUMP	LUMP			
	SECTION 0001 TOTAL					
	TOTAL BID					

SPECIAL PROVISION
SECTION 107
TIME

(Supplemental Liquidated Damages for Fabrication Time)

107.8.1 Fabrication Time.

The Department has budgeted for the following amounts of continuous full time fabrication/shop inspection for certain Work components:

<u>Element</u>	<u>Time</u>	<u>Supplemental LD</u>
1) Precast Concrete NEXT beams	28 calendar days	\$500 per calendar day
2) Precast Abutment stem walls	30 calendar days	\$500 per calendar day
3) Precast Curbing	14 calendar days	\$500 per calendar day

The Contractor is responsible for requiring their fabricators and suppliers to produce these products for the Work continuously until finished, including any needed actions to correct unacceptable workmanship or materials. If the Department determines that shop inspection beyond these times is required, then the corresponding Supplemental Liquidated Damages will be deducted as they occur from the amounts otherwise due the Contractor. The Contractor will be notified by the Department when these times begin and when the allotted time will expire.

If a fabricator or supplier works more than one shift per day and the Department determines that inspection is required for each shift, each shift will count as a calendar day and the LD rate will be the noted amount per shift per calendar day in lieu of per calendar day.

Inspection is required for the following activities:

For metal fabrication work – welding, including tack welding, heat correcting, non-destructive examination, assembly verification.

For concrete work – tensioning of strands, batching and casting of concrete, breaking of test cylinders, de-tensioning.

SPECIAL PROVISION
SECTION 511
COFFERDAMS
(Temporary Earth Support Systems)

Section 511, Cofferdams, is deleted in its entirety and replaced with the following:

511.01 Description

This work shall consist of the complete design, construction, maintenance and removal of all temporary earth support systems including, but not necessarily limited to, cofferdams, caissons, steel sheeting, timber or concrete lagging, bracing, tiebacks and other related work, including dewatering, required to allow for the excavation of foundation pits; to permit and protect the construction of structural units; to allow for the demolition and/or construction of the concrete abutments, piers, foundations, wingwalls, headwalls, and culverts; removal and/or construction and maintenance of approach roadways; and any other work requiring temporary earth support mandated by OSHA, Subpart P, Excavation Requirements, or required for the maintenance of traffic. The temporary earth support systems shall meet all of the applicable requirements of the Standard Specifications.

511.02 Submittals

The temporary earth support system(s) shall be designed and sealed by a Professional Engineer, licensed in accordance with the laws of the State of Maine. The Contractor shall submit design computations and shop drawings for the proposed temporary earth support system(s) a minimum of three (3) weeks prior to the start of work. The submission shall include working drawings and list the type and size of the proposed support, materials, and details of construction, calculations and a sequence of operations. The Professional Engineer may be directly employed or otherwise retained by the Contractor. Construction shall not be started on temporary earth support systems until such plans are reviewed. Review of the plans or any lack of comment by the Department shall not relieve the Contractor of the responsibility to properly design, construct, and maintain the temporary earth support system(s). Review of the plans or lack of comment by the Department shall not relieve the Contractor of its responsibility for the satisfactory functioning and satisfactory removal of the temporary earth support system(s). The Contractor shall be responsible for all damages resulting from the failure of temporary earth support systems, temporary structures or approaches.

The shop drawing submission shall show the Contractor's proposed method of excavation, water diversion and dewatering methods (sumps, wells, seal concrete, or well points) to minimize the flow of groundwater into the excavation. Such methods should preserve the undisturbed condition of the subgrade and permit foundation construction in-the-dry.

Prior to excavating or loading the temporary earth support systems, the Contractor's Professional Engineer responsible for the design of the temporary earth support system(s) shall inspect the systems, and after inspection of the temporary earth support systems, provide a signed and sealed document certifying to the Resident that the system(s) were erected in conformance with the previously submitted sealed plans and design details of the systems.

511.03 Materials

The Contractor shall certify that all component materials, manufacturing operations and furnished products conform to the previously submitted shop drawings and specifications, and any other MaineDOT requirements pertinent to the project plans, special provisions and specifications.

511.04 Design Requirements

The temporary earth support system shall be designed in accordance with the following:

1. The temporary earth support system shall be designed in accordance with the AASHTO Standard Specifications for Highway Bridges, 17th Edition, 2002 with interims (ASD design) or the current edition of AASHTO LRFD Bridge Design Specifications, except as noted herein. The Contractor is responsible for determining the ultimate load carrying capacity of the foundation materials and foundation elements. The applied loads on the temporary earth support system shall be designed to support all appropriate combinations of dead and live loads, earth loads, groundwater, surcharges loads (from traffic, construction equipment, and other sources), and all other applicable loads and forces. The factor of safety and maximum applied loads or LRFD factored applied loads and factored resistances shall be clearly stated on the submitted calculations.
2. The Contract Plans.
3. The requirements specified herein.
4. The manufacturer's requirements.

511.05 Temporary Earth Support System Construction

Temporary Earth Support System(s) shall be constructed in accordance with the plans submitted by the Contractor. The roadway surface shall be maintained in a smooth condition as determined by the Resident. Immediate corrective action shall be taken by the Contractor to remedy objectionable roughness of the riding surface.

Erosion control shall be accomplished in accordance with Section 656 – Temporary Soil Erosion Control and Water Pollution Control.

Any excavation and backfill shall be performed in accordance with Section 203 - Excavation and Embankment.

No timber or bracing shall be used in temporary earth support systems in such a way as to remain in the finished approaches.

Temporary earth support systems shall, in general, be carried well below the elevation of the bottom of footings, and shall be well braced and as watertight as necessary for the proper construction of the foundation. Unless it is contemplated that a concrete foundation seal will be placed under water, the interior dimensions of temporary earth support systems shall be such as to give sufficient clearance for the construction and inspection of forms and to permit pumping outside of forms. Temporary earth support systems shall be so constructed that water will not come in contact with concrete as required in Section 502, Structural Concrete.

During the placing of seal concrete, the elevation of the water inside the temporary earth support systems shall be controlled to prevent any flow through the concrete.

No timber or bracing shall be used in temporary earth support systems in such a way as to remain in the substructure masonry.

Temporary earth support systems shall be constructed to protect fresh concrete against damage from the sudden rising of the waterbody and to prevent damage by erosion.

Unless otherwise provided, temporary earth support systems, including all sheeting and bracing involved, shall be removed after the completion of the substructure; care being taken not to disturb or otherwise injure the finished structures or approach fills.

511.06 Pumping

Pumping from the interior of any foundation enclosure shall be done in such a manner as to prevent any current of water that would carry away or segregate the concrete.

Pumping to dewater a sealed temporary earth support system shall not commence until the seal concrete has set sufficiently to withstand the hydrostatic pressure. In no case will pumping be permitted until a minimum of five days has elapsed since the completion of the installation of the seal concrete, when the temperature of the waterbody outside the temporary earth support system is greater

than 4°C [40°F], or a minimum of seven days has elapsed since the completion of the installation of the seal concrete, when the temperature of the waterbody outside the temporary earth support systems is less than 4°C [40°F].

Sediment laden water will not be allowed to leave the Project area. The Contractor shall be required to install appropriate erosion and sedimentation control devices as approved by the Resident. Erosion and sedimentation control devices may include plain riprap, hay bales, silt fence and sedimentation basins.

All water and materials pumped from excavation shall be pumped into a sedimentation basin which is of sufficient volume to detain the pumped water and materials. The water and materials removed from the excavation shall be pumped at a rate that permits infiltration of the water into the earth, preventing any overland flow or direct discharge into a stream or other waterbody.

511.07 Method of Measurement

The Temporary Earth Support Systems (Cofferdam) will be measured as one lump sum unit, as indicated on the Plans or called for in the Contract.

511.08 Basis of Payment

The accepted quantity of temporary earth support systems (cofferdams) will be paid for at the contract lump sum price for the respective cofferdam items as called for in the Contract, including design, construction, maintenance, equipment, labor rehabilitation, and complete removal. All gravel or borrow material and excavation needed to accommodate changes in elevations between existing roadways and temporary structures shall be incidental to this item. The lump sum price shall also include the cost of furnishing and revising, as necessary, all working drawings, computations and certifications.

All cost of construction, maintaining, and removing a sedimentation basin and pumping or transporting water and other materials to the sedimentation basin will not be paid for directly but will be considered incidental to cofferdam pay item(s).

All cost of related temporary soil erosion and water pollution controls, including inspection and maintenance, will not be paid for directly but will be considered incidental to the cofferdam pay items(s).

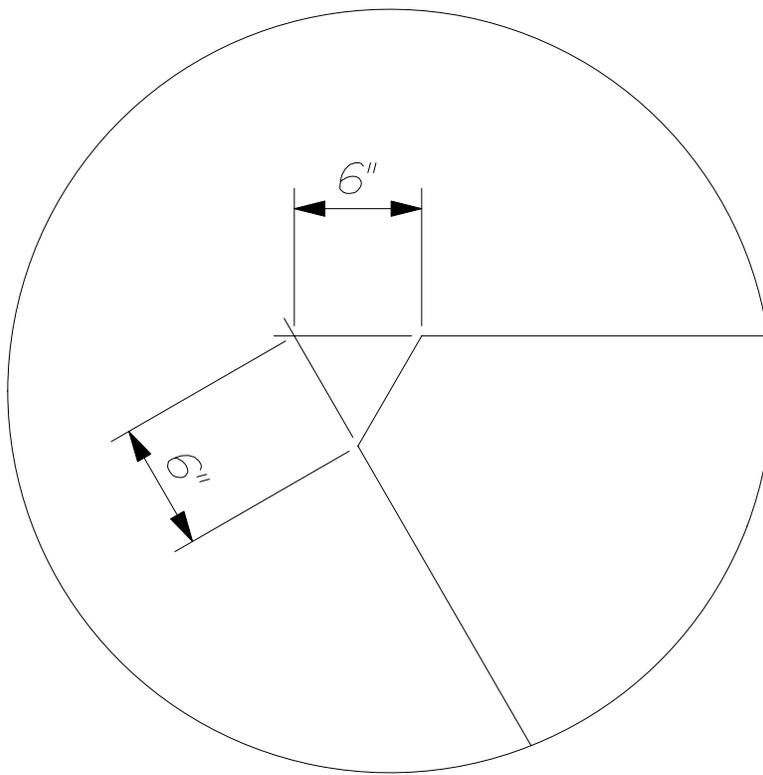
<u>Pay Item</u>	<u>Pay Unit</u>
511.07 Cofferdam – Abutment #1	Lump Sum
511.07 Cofferdam – Abutment #2	Lump Sum

Kittery
Elliot Rd Bridge
PIN 15099.00
April 13th, 2010

SPECIAL PROVISION
SECTION 535
PRECAST, PRESTRESSED CONCRETE SUPERSTURE
(Release Time)

535.13 Concrete.

Delete the paragraph that start with “The concrete mix design shall be proportioned such...”



CLIP DETAIL

Adjust reinforcing steel to fit