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

JOHN ELIAS BALDACCI
GOVERNOR

DAVID A. COLE
COMMISSIONER

January 7, 2010
Subject: **Falmouth**
Federal Project No: BR-1509(400)X
State Pin No. 015094.00
Amendment No. 6

Dear Sir/Ms:

Make the following changes to the Bid Documents:

In the Bid Book (pages 69 and 70) **REMOVE** "SPECIAL PROVISION, SECTION 203, EXCAVATION AND EMBANKMENT, (Riverbed Excavation – Dredge Material)", 2 pages dated 4 December, 2009 and **REPLACE** with the attached new "SPECIAL PROVISION, SECTION 203, EXCAVATION AND EMBANKMENT, (Riverbed Excavation – Dredge Material)", 1 page dated January 6, 2010.

In the Bid Book (page 106), **REMOVE** "SPECIAL PROVISION, SECTION 403, HOT MIX ASPHALT", 1 page dated November 16, 2009 and **REPLACE** with the attached new "SPECIAL PROVISION, SECTION 403, HOT MIX ASPHALT", 1 page dated January 6, 2010.

In the Bid Book (page 160), "SPECIAL PROVISIONS, SECTION 621.97, ENGINEERED WOODY DEBRIS", **CHANGE** the third paragraph that begins; "Brush Piles are to be spaced 110'…" to read as follows; "**Five** Brush Piles are to be spaced 100' to 150' apart as located by the Staff Biologist and Resident Engineer."

In the Plans, Sheet Number 106 of 143, Typical Wall Panel Elevation, "#4 dowel & Mechanical Coupler (Typ.), **CHANGE** "(See Note 11)" to read "(See Note **5**)". Make this change in pen and ink.

The following questions have been received:

Question: Can you confirm the Geofoam Manufacturer is responsible for providing a site supervisor during the Geofoam installation or is it the responsibility of the Contractor as written in Subsection 203.021.

Response: In accordance with SP Section 203, Article 203.02 the Contractor is responsible for providing full time on site supervision of Geofoam installation. The personnel selected by the Contractor to provide full time on site supervision of Geofoam installation shall meet the minimum qualifications provided in Article 203.021

Question: Second Request - Is it possible to obtain the CAD files for the EPS Geofoam Lightweight Fill portion of this project?

Response: This question was answered in Amendment #3. The project microstation files have been placed on our FTP site. The folder name is "Falmouth plans as advertised 15094.00" Please note if there is any discrepancy between the microstation files and the PDF plans that the PDF plans take priority.

Directions to our FTP site are below.

> **Step 1)** Click on the following link or cut and past the following link into the address bar of internet explorer
>
> ftp://ftp.state.me.us/mainedot
>
> **Step 2)** At the prompt enter the following user name and password
>
> Username: mdottemp
>
> Password: case#swim (Note: be sure to use lower case letters)
>
> **Step 3)** Look in the following folder for the various files and attachments.
>
> folder: Falmouth plans as advertised 15094.00

Question: Specification Section 104, utilities underground, states that if the Contractors price for the conduit system on the bridge exceeds the estimated price by 15% or more, it may be pulled from the contract. Is this the Lump Sum Price for pay item 806.67, Fiberglass Conduit System? Does it include all of the materials and work shown on sheets 139 to 143?

Response: Yes, the work referenced in Specification Special Provision 104 Utilities under subsection titled UNDERGROUND, 2nd paragraph, is reflected in Pay Item 806.67 Fiberglass Conduit System and this work is detailed on Sheets 139-143.

Question: Information required on Sheet Number 106, Typical Wall Panel Elevation Section. This section states to see note 11 for the #4 dowels and Mechanical Couplers, however none was provided. Please provide information regarding the length of the #4 dowels and type of mechanical coupler. On the same sheet and section, details for the coil bar inserts could not be located. Please provide information on the type and size of the inserts.

Response:

1) Sheet 106, Typical Wall Panel Elevation – Reference to Note 11 should be changed to "See Note 5". Please see the above pen and ink change.

2) Dowel reinforcement details for the precast panel wall are shown in the "Cast In Place Concrete Coping Detail" on Sheet 108. The portion of the bar extending into the precast section is embedded 1' as shown in the detail. The portion of the dowel bar extending into the cast-in-place section should be detailed with the required development length for a #4 bar with a standard hook (10").
3) The type of mechanical coupler provided shall meet the requirements for Tension Couplers of Standard Specification Subsection 503.07 Splicing.
4) Coil bar insert type and size are specified in Note 3 on Sheet 108.

Question: Please clarify under what pay item Piet 1 excavation will be paid for. Special Provision – Section 203 seems to indicate material excavation from the river (Pier 1) will be paid under 206.061 – to excavate and place the material in the approaches. If MDOT does not get a permit to use the material on site then item 203.231 will be a lot more than the contract quantity of 10 CY? Yet the pier excavation item 206.10 quantity seems to include pier 1, 2 & 2?

Response: Special Provision 203 EXCAVATION AND EMBANKMENT (Riverbed Excavation – Dredge Material) has been replaced by this amendment.

Question: Item 524.40 – Protective Shielding – will shielding of the existing bridge over the river be required during removal of the existing bridge?

Response: Special Provision Section 524 Temporary Structural Support (Protective Shield) specifies the limits for the protective shield. This pay item is intended to protect the railroad and is not intended to protect the water resource. The Contractor is responsible for adhering to the requirements of Special Provision 656 Temporary Soil Erosion and Water Pollution Control.

Question: Would the Department consider a pavement structure consisting of:
Base 19.0 mm 3" 1 layer
Binder 12.5 mm 1 ½"
Surface 9.5 mm 1 ½"
for the Travel Way and Shoulder – Approach areas?

Response: Yes. The current 403 spec already allows for 12.5 mm to be used as the binder layer. Special Provision Section 403 Hot Mix Asphalt has been changed to allow for 19.0 mm to be used as the base layer.

Question: I am planning on quoting the finger joint expansion devices on this project and I would like some clarification on the non-skid requirement called for in standard specification 521.02. What are acceptable non-skid options? Raised pattern plates? "Slip-Not" type coating? Welded traction studs?

Response: MaineDOT is waiving the non skid requirement for the finger joints.

Question: Specification 521.02 calls out ASTM A786 as one of the acceptable material grades. This grade is for raised pattern floor plate. Is that sufficient for meeting non-skid requirements, or is additional skid resistance required?

Response: MaineDOT is waiving the non skid requirement for the finger joints.

Question: Item 621.97 – Engineered Woody Debris Piles: How many piles are required?

Response: 5 piles are required. See the above pen and ink change.

Consider these changes and information prior to submitting your bid on January **13**, 2010.

Sincerely,

Scott Bickford
Contracts & Specifications Engineer

SPECIAL PROVISION
SECTION 203
EXCAVATION AND EMBANKMENT
(Riverbed Excavation -- Dredge Material)

Description: Dredge Material (See MaineDOT Standard Specifications § 101.2) is regulated as a Special Waste.

The Dredge Material from the River and Rail Road Crossing Bridge meets the CMR 418 § 5 criteria for Beneficial Use as Construction Fill. The MaineDOT has applied to the MDEP for a Beneficial Use of Dredge Material Permit and it is anticipated that the Permit will be approved and the Dredge Material will be beneficially used on site. The approximate volume of anticipated dredge is 2900 cubic yards.

CONSTRUCTION REQUIREMENTS

Management: The contractor shall use the Dredge Material excavated at the River and Rail Road Crossing Bridge site as Construction Fill in the Routes 26/100 in-slopes in the vicinity of the bridge and to fill in the basement of a demolished building at the site. The Contractor shall ensure that the Dredge Material is placed into the fill area(s) specified by MaineDOT. All Dredge Material shall be completely covered by concrete, asphalt-paved surface or by six (6) inches (150 mm) of a compacted soil material.

Method of Measurement: Dredge Material will be measured by the cubic yard of material removed.

Basis of Payment: The accepted quantity of Dredge Material Beneficially Used shall be paid for at the contract unit price bid for Structural Earth Excavation. Payment shall be full compensation for excavation, dewatering, managing, transporting and placement.

Payment will be made under:

Pay Item		Pay Unit
206.10	Structural Earth Excavation	cubic yard

Falmouth
15094.00
RTE 26/100
Bridge Replacement
January 6, 2010

SPECIAL PROVISION
SECTION 403
HOT MIX ASPHALT

Desc. Of Course	Grad Design.	Item Number	Bit Cont. % of Mix	Total Thick	No. Of Layers	Comp. Notes
Bridge Deck						
Wearing	9.5 mm	403.210	N/A	1.5 in	1	1,2,4,8
Base	9.5 mm	403.210	N/A	1.5 in	1	1,2,4,8
Travel Way & Shoulders - Approach Areas						
Wearing	9.5 mm	403.210	N/A	1.5 in	1	4,8,12
Binder	9.5 mm	403.210	N/A	1.5 in	1	4,8,12
Base	12.5 mm	403.213	N/A	3.0 in	2	4,8,14
Sidewalks, Drives, Islands & Incidentals						
Wearing	9.5 mm	403.209	N/A	2 in	2/more	2,3,10,13

COMPLEMENTARY NOTES

1. The use of Recycled Asphalt Pavement (RAP) will not be permitted.
2. The density requirements are waived. In addition, the use of an oscillating steel roller shall be required to compact all HMA pavements placed on bridge decks.
3. The design traffic level for mix placed shall be <0.3 million ESALS.
4. The design traffic level for mix placed shall be 0.3 to <3 million ESALS. The design, verification, Quality Control, and Acceptance tests for this mix will be performed at **50 gyrations.**
8. Section 106.6 Acceptance, (2) Method B.
10. Section 106.6 Acceptance, (2) Method D.
12. A mixture meeting the gradation of 12.5 mm hot mix asphalt may be used at the option of the contractor.
13. A mixture meeting the requirements of section 703.09 Grading 'D', with a minimum PGAB content of 6%, and the limits of Special Provision 401, Table 9 (Drives and Sidewalks) for PGAB content and gradation may be substituted for this item. A job mix formula shall be submitted to the department for approval.
14. A mixture meeting the gradation of 19.0 mm hot mix asphalt may be used at the option of the contractor.

Tack Coat

A tack coat of emulsified asphalt, RS-1, Item 409.15 shall be applied to any existing pavement at a rate of approximately 0.025 gal/yd², and on milled pavement approximately 0.05 gal/yd², prior to placing a new course. A fog coat of emulsified asphalt shall be applied between shim / intermediate course and the surface course, at a rate not to exceed 0.025 gal/yd².

Tack used between layers of pavement will be paid for at the contract unit price for Item 409.15 Bituminous Tack Coat.