



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

JOHN ELIAS BALDACCI
 GOVERNOR

DAVID A. COLE
 COMMISSIONER

June 29, 2010
 Subject: **Bangor & Brewer**
 Federal Project No: IM-1709(900)E &
 IM-1710(000)E
 State Pin No: 017099.00 & 017100.00
Amendment No. 2

Dear Sir/Ms:

Make the following changes to the bid documents:

In the Bid Book (pages 4 thru 9), **REMOVE** the “SCHEDULE OF ITEMS”, 6 pages dated 100622 (replaced in amendment #1) and **REPLACE** with the attached new “SCHEDULE OF ITEMS”, 6 pages dated 100628.

In the Bid Book (pages 47), “SPECIAL PROVISION, SECTION 107, TIME”, in the third sentence of subsection 107.3.1 General, **CHANGE** the word “guardrail” to read “**wall mounted bridge rail and bridge rail**”. Make this change in pen and ink.

In the Bid Book, after page 82, **INSERT** the attached “SPECIAL PROVISION, SECTION 502, STRUCTURAL CONCRETE, (Post-Tensioning Cast-In-Place Concrete)”, 1 page dated June 28, 2010.

In the Plans, SHEET NUMBER 2 OF 28, ESTIMATED QUANTITIES, **ADD** the following in pen and ink;

Item No.	Description	Quantity		TOTAL
		17099.00	17100.00	
<u>503.17</u>	<u>Mechanical/Welded Splice</u>	<u>0</u>	<u>160</u>	<u>160</u>

In the Plans, SHEET NUMBER 15 OF 28, DETAIL A, **CHANGE** the words “epoxy - coated thread bar rock anchor” to read “**galvanized post-tensioning rod**”. Make this change in pen and ink.

The following questions have been received:

Question: Page 15, 2 rock anchors at north wing shown, no specs are provided



PRINTED ON RECYCLED PAPER

Response: Please see Special Provision 502 – Post-Tensioning Cast-In-Place Concrete, added in this amendment.

Question: Because this is rehab work and it is difficult if not impossible to determine concrete quantities based on information provided, we request that item 502.219 be changed from Lump Sum to payment by the cubic yard.

Response: The Maine Department of Transportation is aware that there are problems with substructure concrete beyond the limits shown for removal and replacement. In full consideration of safety, structure durability, and transportation systems management, the Department has decided to limit the existing concrete replacement as shown on the Plans. Note substructure concrete replacement limits, such as existing horizontal construction joints. Payment shall be Lump Sum as indicated in the contract documents.

Question: It seems that some type of sheet piling/cofferdam will be required to maintain traffic between phases. How will this be paid?

Response: All work and materials for the structural excavation, including any sheet piling or cofferdams, shall be considered incidental to Pay Item No. 206.082, Structural Earth Excavation – Major Structures.

Question: It seems that the approach slabs will have to be constructed in phases. Will rebar splicers be required? How will they be paid?

Response: The horizontal splices where required by three stages in the approach slabs and the backwalls of the Veterans Remembrance Bridge shall be paid for under Pay Item No. 503.17, Mechanical/Welded Splice.

Question: In the Spec. Book, stage 3 is only 40 days. There is no breakdown of how much guardrail stuff is in this section. Is there a footage and item breakdown we can get?

Response: There is no guardrail in the area where work time is limited to 40 days. Please see the above pen and ink change.

Question: Is all the modify guardrail single rail? No double rail modify? Or was double rail counted as single rail in total footage?

Response: All affected rail length was calculated in the estimate. Note that for a fifty foot run of affected double rail, there is 100 feet of rail to modify. Also note that the modified double guardrail was estimated to the nearest existing breaks in the double rail

runs for turn-arounds, occurring west of the Main Street Bridge and east of the Veterans Remembrance Bridge.

Consider these changes and information prior to submitting your bid on June 30, 2010.

Sincerely,



FOR

Scott Bickford
Contracts & Specifications Engineer

SCHEDULE OF ITEMS

REVISED:

CONTRACT ID: 017099.00

PROJECT(S): IM-1709(900)E

IM-1710(000)E

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
SECTION 0001 PROJECT ITEMS						
0010	202.12 REMOVING EXISTING STRUCTURAL CONCRETE	298.000 CY				
0020	202.18 REMOVE EXISTING BITUMINOUS PAVEMENT (INCLUDING MEMBRANE)	LUMP	LUMP			
0030	203.25 GRANULAR BORROW	325.000 CY				
0040	206.082 STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES	305.000 CY				
0050	304.09 AGGREGATE BASE COURSE - CRUSHED	380.000 CY				
0060	403.207 HOT MIX ASPHALT 19.0 MM HMA	400.000 T				
0070	403.2081 12.5 MM POLYMER MODIFIED HOT MIX ASPHALT	400.000 T				
0080	403.2131 12.5 MM POLYMER MODIFIED HMA BASE	550.000 T				
0090	409.15 BITUMINOUS TACK COAT - APPLIED	450.000 G				

SCHEDULE OF ITEMS

REVISED:

CONTRACT ID: 017099.00

PROJECT(S): IM-1709(900)E

IM-1710(000)E

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0100	502.219 STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS	LUMP	LUMP			
0110	502.31 STRUCTURAL CONCRETE APPROACH SLABS	LUMP	LUMP			
0120	502.341 STRUCTURAL CONCRETE ROADWAY MEDIAN	6.000 CY				
0130	502.3412 STRUCTURAL CONCRETE, RAISED ISLAND	1.000 CY				
0140	502.49 STRUCTURAL CONCRETE CURBS AND SIDEWALK	LUMP	LUMP			
0150	503.12 REINFORCING STEEL, FABRICATED AND DELIVERED	18500.000 LB				
0160	503.13 REINFORCING STEEL, PLACING	18500.000 LB				
0170	503.17 MECHANICAL WELDED SPLICE	160.000 EA				
0180	507.10 ALUMINUM BRIDGE RAILING - REMOVE AND RESET	20.000 LF				
0190	508.14 HIGH PERFORMANCE WATERPROOFING MEMBRANE	LUMP	LUMP			
0200	510.301 EXPRESSWAY MEDIAN CROSSOVER	LUMP	LUMP			

SCHEDULE OF ITEMS

REVISED:

CONTRACT ID: 017099.00

PROJECT(S): IM-1709(900)E

IM-1710(000)E

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0210	515.21 PROTECTIVE COATING FOR CONCRETE SURFACES	LUMP	LUMP			
0220	515.21 PROTECTIVE COATING FOR CONCRETE SURFACES ACRYLIC ANTI-CARBONATION COATING	LUMP	LUMP			
0230	518.50 REPAIR OF UPWARD FACING SURFACES - TO REINFORCING STEEL < 7.9 IN.	SF 70.000				
0240	520.245 BRIDGE JOINT MODIFICATION TYPE 5	EA 3.000				
0250	521.23 EXPANSION DEVICE FINGER JOINT TYPE "C"	EA 1.000				
0260	521.23 EXPANSION DEVICE FINGER JOINT TYPE "E"	EA 1.000				
0270	521.32 FABRIC TROUGH FOR FINGER JOINT	EA 2.000				
0280	521.51 FABRIC COVERING FOR CONCRETE SURFACES	LUMP	LUMP			
0290	526.301 TEMPORARY CONCRETE BARRIER TYPE I	LUMP	LUMP			
0300	526.3401 PERMANENT CONCRETE TRANSITION BARRIER - MODIFIED	EA 6.000				

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0310	527.34 WORK ZONE CRASH CUSHIONS	10.000 UN				
0320	606.1721 BRIDGE TRANSITION - TYPE 1	14.000 EA				
0330	606.178 GUARDRAIL BEAM	1000.000 LF				
0340	606.24 GUARDRAIL TYPE 3D - SINGLE RAIL	75.000 LF				
0350	606.3581 GUARDRAIL, MODIFY EXISTING TO TYPE 3D	9500.000 LF				
0360	606.369 GUARDRAIL REMOVED AND STACKED	1000.000 LF				
0370	609.38 RESET CURB TYPE 1	20.000 LF				
0380	610.18 STONE DITCH PROTECTION	20.000 CY				
0390	619.1401 EROSION CONTROL MIX	40.000 CY				
0400	620.58 EROSION CONTROL GEOTEXTILE	40.000 SY				

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REVISED:

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PROJECT(S): IM-1709(900)E

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CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0410	627.733 4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	18500.000 LF				
0420	627.76 TEMPORARY PVMT. MARK LINE, W OR YELLOW	LUMP	LUMP			
0430	629.05 HAND LABOR, STRAIGHT TIME	80.000 HR				
0440	631.12 ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	40.000 HR				
0450	631.15 ROLLER, EARTH AND BASE COURSE (INCLUDING OPERATOR)	40.000 HR				
0460	631.172 TRUCK - LARGE (INCLUDING OPERATOR)	40.000 HR				
0470	635.14 PREFABRICATED CONCRETE MODULAR GRAVITY WALL	1700.000 SF				
0480	639.18 FIELD OFFICE TYPE A	1.000 EA				
0490	643.72 TEMPORARY TRAFFIC SIGNAL	LUMP	LUMP			
0500	652.30 FLASHING ARROW BOARD	2.000 EA				
0510	652.312 TYPE III BARRICADE	60.000 EA				

SCHEDULE OF ITEMS

REVISED:

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PROJECT(S): IM-1709(900)E

IM-1710(000)E

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0520	652.33 DRUM	90.000 EA				
0530	652.34 CONE	90.000 EA				
0540	652.35 CONSTRUCTION SIGNS	600.000 SF				
0550	652.361 MAINTENANCE OF TRAFFIC CONTROL DEVICES	LUMP	LUMP			
0560	652.38 FLAGGER	1000.000 HR				
0570	652.381 TRAFFIC OFFICER	150.000 HR				
0580	652.41 PORTABLE CHANGEABLE MESSAGE SIGN	2.000 EA				
0590	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LUMP	LUMP			
0600	659.10 MOBILIZATION	LUMP	LUMP			
	SECTION 0001 TOTAL					
	TOTAL BID					

SPECIAL PROVISION
SECTION 502
STRUCTURAL CONCRETE
(Post-Tensioning Cast-In-Place Concrete)

Description. This work consists of all labor, equipment and materials needed to complete the post-tensioning of the North Wingwall of Veterans Remembrance Bridge Abutment #1 as shown on the Plans and accepted by the Resident. Except as otherwise specified in this Special Provision, all work shall be in conformity with the applicable provisions of Supplemental Specifications Section 502 - Structural Concrete.

MATERIALS

Concrete. Concrete shall be Class A.

Reinforcing Steel. Reinforcing steel shall be plain, Grade 60 and conform to Section 503 - Reinforcing Steel.

Post-tensioning Bar. The post-tensioning precast abutments and piers shall be post-tensioned with galvanized bars conforming to ASTM A722, Type II. Ducts for post-tensioning bars shall be galvanized, metal duct suitable for the intended purpose.

End Anchorage Chuck. The Chuck and other components of the end anchorage shall meet the plate anchorage detail as manufactured by Dywidag-Systems International or approved equal.

Duct. Grout tubes shall be installed at each duct at both ends. Ducts shall be galvanized corrugated metal ducts and in conformity to materials specified by Dywidag-Systems International or approved equal.

Grout. Grout for post-tensioning ducts shall be either **Five Star Special Grout 400** or **Masterflow 1205**. Alternate high strength specially graded pumpable cable grouts will be considered for approved by the engineer upon request.

Basis of Payment. The Post-Tensioning Cast-In-Place Concrete as shown on the Plans and specified herein shall be considered incidental to Pay Item No. 502.219 Structural Concrete, Abutments and Retaining Walls.