



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, 2025
Subject: Bridge Wearing Surface
Replacement
State WIN: 027184.20
Location: Waterville
Amendment No. 3

Dear Sir/Ms.:

Make the following changes to the Bid Book:

Insert SPECIAL PROVISION SECTION 401 HOT MIX ASPHALT PAVEMENT (Material Transfer Vehicle Option) totaling one page

Remove Pages sixteen through thirty-two titled Proposal Schedule of Items dated 12/18/2024 and **Replace** with the attached Proposal Schedule of Items dated 1/14/2025

Remove pages one hundred and three through one hundred and six titled SPECIAL PROVISION SECTION 401 HOT MIX ASPHALT PAVEMENTS (HMA- Highly Modified Asphalt Pavement) totaling four pages dated February 1, 2022 and **Replace** with the attached SPECIAL PROVISION SECTION 401 HOT MIX ASPHALT PAVEMENTS (HMA-Highly Modifies Asphalt Pavement) totaling five pages

In Amendment No. 2, the following question had been received but had an incorrect response:

Question: The schedule of items for the project contains Type 1 Smart Work Zone items, but the special provisions reference the contractor installing Type 2 Smart Work Zone items. Please confirm.

Response: ~~The Special Provision, Section 652 Maintenance of Traffic, Smart Work Zone System, includes both Type 1 and Type 2 information and pay items. This project only requires the installation of Type 1.~~

Correct Response: : The intent of the Contract is to utilize Type 2 Smart Work Zone System. An updated Schedule of Items is attached.

The following questions have been received:

Question: Will a MTV be required for mainline paving?

Response: An MTV is not required, but the Department highly recommends its use. Should the contractor request to use an MTV, compensation will be handled per special provision 401 Material Transfer Vehicle Option (see attached).

Question: Item 403.2084 call for a 60 ton test strip to be placed and a leveling course of shim to be placed prior to the test strip. Is the HMA used for the test strip and leveling course paid under the appropriate pay items?

Response: If a test strip is required, there will be no direct payment for the material used for the test strip or the leveling course. Please see revised 401 SP – Hot Mix Asphalt Pavement – Highly Modified Asphalt Pavement.

Question: Where is the location of the test strip? Spec says the location shall be identified by the Department.

Response: If required, the location of the test is up to the contractor. Please see the updated 401 SP - Hot Mix Asphalt Pavement – Highly Modified Asphalt Pavement.

Question: Could the department provide a special provision and additional information regarding item 645.511
Flashing Warning Sign Bridge No 1458?

Response: Item 645.511 Flashing Warning Sign Bridge No 1458 will not be used.

Consider these changes and information prior to submitting your bid on **January 15, 2025**

Sincerely,



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

SPECIAL PROVISION
SECTION 401
HOT MIX ASPHALT PAVEMENT
(Material Transfer Vehicle Option)

Description The Contractor may elect to use a material transfer vehicle at their option to transfer hot mix asphalt to the paver on mainline travelways, shoulders, and ramps as denoted in Special Provision 403 - Hot Mix Asphalt Pavement.

Material transfer vehicles shall operate as an independent unit not attached to the paver. It shall be a commercially manufactured unit specifically designed to transfer the hot mix from haul trucks to the paver without depositing the mix on the roadway. A separate hopper with a capacity of 14 ton shall be inserted into the regular paver hopper. The material transfer vehicle or the hopper insert shall be designed so that the mix receives additional internal mixing action either in the material transfer vehicle or the paver hopper.

Method of Measurement Hot mix asphalt pavement transferred by the material transfer vehicle and hopper insert will be measured by the ton.

Basis of Payment The accepted quantities of hot mix asphalt pavement transferred by the material transfer vehicle and hopper insert will be paid for at a price of \$2.00 per ton.

Payments will be made under:

<u>Pay Item:</u>	<u>Pay Unit:</u>
403.40 Material Transfer Vehicle (MTV)	Ton

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Proposal Schedule of Items

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Proposal ID: 027184.20

Project(s): 027184.20

SECTION: 1 INITIAL GROUP

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	202.127 REMOVE EXISTING BITUMINOUS PAVEMENT BRIDGE NO. 1458	LUMP SUM	LUMP	SUM	_____	_____
0020	202.127 REMOVE EXISTING BITUMINOUS PAVEMENT BRIDGE NO. 1459	LUMP SUM	LUMP	SUM	_____	_____
0030	202.127 REMOVE EXISTING BITUMINOUS PAVEMENT BRIDGE NO. 5816	LUMP SUM	LUMP	SUM	_____	_____
0040	202.127 REMOVE EXISTING BITUMINOUS PAVEMENT BRIDGE NO. 5817	LUMP SUM	LUMP	SUM	_____	_____
0050	202.202 REMOVING PAVEMENT SURFACE BRIDGE NO. 1458	635.000 SY	_____	_____	_____	_____
0060	202.202 REMOVING PAVEMENT SURFACE BRIDGE NO. 1459	635.000 SY	_____	_____	_____	_____
0070	202.202 REMOVING PAVEMENT SURFACE BRIDGE NO. 5816	635.000 SY	_____	_____	_____	_____
0080	202.202 REMOVING PAVEMENT SURFACE BRIDGE NO. 5817	635.000 SY	_____	_____	_____	_____
0090	202.205 RUMBLE STRIPS - SHOULDER BRIDGE NO. 1457	500.000 LF	_____	_____	_____	_____
0100	202.205 RUMBLE STRIPS - SHOULDER BRIDGE NO. 1458	2,900.000 LF	_____	_____	_____	_____
0110	202.205 RUMBLE STRIPS - SHOULDER BRIDGE NO. 1459	750.000 LF	_____	_____	_____	_____

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Proposal ID: 027184.20

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0120	202.205 RUMBLE STRIPS - SHOULDER BRIDGE NO. 5816	750.000 LF	_____	 _____	_____	 _____
0130	202.205 RUMBLE STRIPS - SHOULDER BRIDGE NO. 5817	2,900.000 LF	_____	 _____	_____	 _____
0140	202.207 RUMBLE STRIPS, FILL BRIDGE NO. 1457	500.000 LF	_____	 _____	_____	 _____
0150	202.207 RUMBLE STRIPS, FILL BRIDGE NO. 1458	2,900.000 LF	_____	 _____	_____	 _____
0160	202.207 RUMBLE STRIPS, FILL BRIDGE NO. 1459	750.000 LF	_____	 _____	_____	 _____
0170	202.207 RUMBLE STRIPS, FILL BRIDGE NO. 5816	750.000 LF	_____	 _____	_____	 _____
0180	202.207 RUMBLE STRIPS, FILL BRIDGE NO. 5817	2,900.000 LF	_____	 _____	_____	 _____
0190	403.2084 12.5 MM HIGHLY MODIFIED ASPHALT PAVEMENT (HiMAP) BRIDGE NO. 1458	669.000 T	_____	 _____	_____	 _____
0200	403.2084 12.5 MM HIGHLY MODIFIED ASPHALT PAVEMENT (HiMAP) BRIDGE NO. 1459	212.000 T	_____	 _____	_____	 _____
0210	403.2084 12.5 MM HIGHLY MODIFIED ASPHALT PAVEMENT (HiMAP) BRIDGE NO. 5816	212.000 T	_____	 _____	_____	 _____
0220	403.2084 12.5 MM HIGHLY MODIFIED ASPHALT PAVEMENT (HiMAP) BRIDGE NO. 5817	669.000 T	_____	 _____	_____	 _____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0230	403.210 HOT MIX ASPHALT 9.5 MM BRIDGE NO. 1458	25.000 T	_____	 _____	_____	 _____
0240	403.210 HOT MIX ASPHALT 9.5 MM BRIDGE NO. 1459	25.000 T	_____	 _____	_____	 _____
0250	403.210 HOT MIX ASPHALT 9.5 MM BRIDGE NO. 5816	25.000 T	_____	 _____	_____	 _____
0260	403.210 HOT MIX ASPHALT 9.5 MM BRIDGE NO. 5817	25.000 T	_____	 _____	_____	 _____
0270	403.211 HOT MIX ASPHALT (SHIMMING) BRIDGE NO. 1458	5.000 T	_____	 _____	_____	 _____
0280	403.211 HOT MIX ASPHALT (SHIMMING) BRIDGE NO. 1459	10.000 T	_____	 _____	_____	 _____
0290	403.211 HOT MIX ASPHALT (SHIMMING) BRIDGE NO. 5816	10.000 T	_____	 _____	_____	 _____
0300	403.211 HOT MIX ASPHALT (SHIMMING) BRIDGE NO. 5817	5.000 T	_____	 _____	_____	 _____
0310	409.15 BITUMINOUS TACK COAT - APPLIED BRIDGE NO. 1458	262.000 G	_____	 _____	_____	 _____
0320	409.15 BITUMINOUS TACK COAT - APPLIED BRIDGE NO. 1459	96.000 G	_____	 _____	_____	 _____
0330	409.15 BITUMINOUS TACK COAT - APPLIED BRIDGE NO. 5816	96.000 G	_____	 _____	_____	 _____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0340	409.15 BITUMINOUS TACK COAT - APPLIED BRIDGE NO. 5817	262.000 G	_____	 _____	_____	 _____
0350	461.131 TEMPORARY PAVEMENT BRIDGE NO. 1458	50.000 T	_____	 _____	_____	 _____
0360	461.131 TEMPORARY PAVEMENT BRIDGE NO. 1459	50.000 T	_____	 _____	_____	 _____
0370	461.131 TEMPORARY PAVEMENT BRIDGE NO. 5816	50.000 T	_____	 _____	_____	 _____
0380	461.131 TEMPORARY PAVEMENT BRIDGE NO. 5817	50.000 T	_____	 _____	_____	 _____
0390	508.14 HIGH PERFORMANCE WATERPROOFING MEMBRANE BRIDGE NO. 1458	LUMP SUM	LUMP	 SUM	_____	 _____
0400	508.14 HIGH PERFORMANCE WATERPROOFING MEMBRANE BRIDGE NO. 1459	LUMP SUM	LUMP	 SUM	_____	 _____
0410	508.14 HIGH PERFORMANCE WATERPROOFING MEMBRANE BRIDGE NO. 5816	LUMP SUM	LUMP	 SUM	_____	 _____
0420	508.14 HIGH PERFORMANCE WATERPROOFING MEMBRANE BRIDGE NO. 5817	LUMP SUM	LUMP	 SUM	_____	 _____
0430	510.301 EXPRESSWAY MEDIAN CROSSOVER BRIDGE NO. 1458	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
0440	510.301 EXPRESSWAY MEDIAN CROSSOVER BRIDGE NO. 1459	LUMP SUM	LUMP	SUM	_____	_____
0450	510.301 EXPRESSWAY MEDIAN CROSSOVER BRIDGE NO. 5816	LUMP SUM	LUMP	SUM	_____	_____
0460	510.301 EXPRESSWAY MEDIAN CROSSOVER BRIDGE NO. 5817	LUMP SUM	LUMP	SUM	_____	_____
0470	518.51 REPAIR OF UPWARD FACING SURFACES - BELOW REINFORCING STEEL < 8 IN. BRIDGE NO. 1458	336.000 SF	_____	_____	_____	_____
0480	518.51 REPAIR OF UPWARD FACING SURFACES - BELOW REINFORCING STEEL < 8 IN. BRIDGE NO. 1459	87.000 SF	_____	_____	_____	_____
0490	518.51 REPAIR OF UPWARD FACING SURFACES - BELOW REINFORCING STEEL < 8 IN. BRIDGE NO. 5816	87.000 SF	_____	_____	_____	_____
0500	518.51 REPAIR OF UPWARD FACING SURFACES - BELOW REINFORCING STEEL < 8 IN. BRIDGE NO. 5817	336.000 SF	_____	_____	_____	_____
0510	520.243 BRIDGE JOINT MODIFICATION TYPE 3 BRIDGE NO. 1457	2.000 EA	_____	_____	_____	_____
0520	520.243 BRIDGE JOINT MODIFICATION TYPE 3 BRIDGE NO. 1458	4.000 EA	_____	_____	_____	_____
0530	520.243 BRIDGE JOINT MODIFICATION TYPE 3 BRIDGE NO. 1459	2.000 EA	_____	_____	_____	_____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0540	520.243 BRIDGE JOINT MODIFICATION TYPE 3 BRIDGE NO. 5816	2.000 EA	_____	_____	_____	_____
0550	520.243 BRIDGE JOINT MODIFICATION TYPE 3 BRIDGE NO. 5817	4.000 EA	_____	_____	_____	_____
0560	526.301 PORTABLE CONCRETE BARRIER TYPE I BRIDGE NO. 1457	LUMP SUM	LUMP SUM	_____	_____	_____
0570	526.301 PORTABLE CONCRETE BARRIER TYPE I BRIDGE NO. 1458	LUMP SUM	LUMP SUM	_____	_____	_____
0580	526.301 PORTABLE CONCRETE BARRIER TYPE I BRIDGE NO. 1459	LUMP SUM	LUMP SUM	_____	_____	_____
0590	526.301 PORTABLE CONCRETE BARRIER TYPE I BRIDGE NO. 5816	LUMP SUM	LUMP SUM	_____	_____	_____
0600	526.301 PORTABLE CONCRETE BARRIER TYPE I BRIDGE NO. 5817	LUMP SUM	LUMP SUM	_____	_____	_____
0610	527.33 TRUCK MOUNTED ATTENUATOR BRIDGE NO. 1458	0.500 EA	_____	_____	_____	_____
0620	527.33 TRUCK MOUNTED ATTENUATOR BRIDGE NO. 1459	0.500 EA	_____	_____	_____	_____
0630	527.33 TRUCK MOUNTED ATTENUATOR BRIDGE NO. 5816	0.500 EA	_____	_____	_____	_____
0640	527.33 TRUCK MOUNTED ATTENUATOR BRIDGE NO. 5817	0.500 EA	_____	_____	_____	_____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0650	527.34 WORK ZONE CRASH CUSHIONS BRIDGE NO. 1458	1.000 UN	_____	_____	_____	_____
0660	527.34 WORK ZONE CRASH CUSHIONS BRIDGE NO. 1459	0.500 UN	_____	_____	_____	_____
0670	527.34 WORK ZONE CRASH CUSHIONS BRIDGE NO. 5816	0.500 UN	_____	_____	_____	_____
0680	527.34 WORK ZONE CRASH CUSHIONS BRIDGE NO. 5817	1.000 UN	_____	_____	_____	_____
0690	619.14 EROSION CONTROL MIX BRIDGE NO. 1458	5.000 CY	_____	_____	_____	_____
0700	619.14 EROSION CONTROL MIX BRIDGE NO. 1459	5.000 CY	_____	_____	_____	_____
0710	619.14 EROSION CONTROL MIX BRIDGE NO. 5816	5.000 CY	_____	_____	_____	_____
0720	619.14 EROSION CONTROL MIX BRIDGE NO. 5817	5.000 CY	_____	_____	_____	_____
0730	627.51 6" TEMPORARY PAVEMENT TAPE, YELLOW OR WHITE BRIDGE NO. 1457	340.000 LF	_____	_____	_____	_____
0740	627.51 6" TEMPORARY PAVEMENT TAPE, YELLOW OR WHITE BRIDGE NO. 1458	4,400.000 LF	_____	_____	_____	_____
0750	627.51 6" TEMPORARY PAVEMENT TAPE, YELLOW OR WHITE BRIDGE NO. 1459	1,360.000 LF	_____	_____	_____	_____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0760	627.51 6" TEMPORARY PAVEMENT TAPE, YELLOW OR WHITE BRIDGE NO. 5816	1,250.000 LF	_____	 _____	_____	 _____
0770	627.51 6" TEMPORARY PAVEMENT TAPE, YELLOW OR WHITE BRIDGE NO. 5817	4,300.000 LF	_____	 _____	_____	 _____
0780	627.57 12" REMOVABLE BLACK LINE MASKING TAPE BRIDGE NO. 1458	160.000 LF	_____	 _____	_____	 _____
0790	627.57 12" REMOVABLE BLACK LINE MASKING TAPE BRIDGE NO. 1459	160.000 LF	_____	 _____	_____	 _____
0800	627.744 6" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE BRIDGE NO. 1458	3,300.000 LF	_____	 _____	_____	 _____
0810	627.744 6" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE BRIDGE NO. 1459	1,500.000 LF	_____	 _____	_____	 _____
0820	627.744 6" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE BRIDGE NO. 5816	1,500.000 LF	_____	 _____	_____	 _____
0830	627.744 6" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE BRIDGE NO. 5817	3,800.000 LF	_____	 _____	_____	 _____
0840	627.77 REMOVING PAVEMENT MARKINGS BRIDGE NO. 1457	515.000 SF	_____	 _____	_____	 _____
0850	627.77 REMOVING PAVEMENT MARKINGS BRIDGE NO. 1458	3,200.000 SF	_____	 _____	_____	 _____

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Contractor: _____

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0860	627.77 REMOVING PAVEMENT MARKINGS BRIDGE NO. 1459	805.000 SF	_____	_____	_____	_____
0870	627.77 REMOVING PAVEMENT MARKINGS BRIDGE NO. 5816	805.000 SF	_____	_____	_____	_____
0880	627.77 REMOVING PAVEMENT MARKINGS BRIDGE NO. 5817	3,200.000 SF	_____	_____	_____	_____
0890	627.781 TEMPORARY 6 INCH PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW BRIDGE NO. 1457	3,000.000 LF	_____	_____	_____	_____
0900	627.781 TEMPORARY 6 INCH PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW BRIDGE NO. 1458	18,800.000 LF	_____	_____	_____	_____
0910	627.781 TEMPORARY 6 INCH PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW BRIDGE NO. 1459	4,700.000 LF	_____	_____	_____	_____
0920	627.781 TEMPORARY 6 INCH PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW BRIDGE NO. 5816	4,700.000 LF	_____	_____	_____	_____
0930	627.781 TEMPORARY 6 INCH PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW BRIDGE NO. 5817	18,800.000 LF	_____	_____	_____	_____
0940	629.05 HAND LABOR, STRAIGHT TIME BRIDGE NO. 1457	3.000 HR	_____	_____	_____	_____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0950	629.05 HAND LABOR, STRAIGHT TIME BRIDGE NO. 1458	3.000 HR	_____	_____	_____	_____
0960	629.05 HAND LABOR, STRAIGHT TIME BRIDGE NO. 1459	3.000 HR	_____	_____	_____	_____
0970	629.05 HAND LABOR, STRAIGHT TIME BRIDGE NO. 5816	3.000 HR	_____	_____	_____	_____
0980	629.05 HAND LABOR, STRAIGHT TIME BRIDGE NO. 5817	3.000 HR	_____	_____	_____	_____
0990	631.112 WELDING MACHINE (INCLUDING OPERATOR) BRIDGE NO. 1457	3.000 HR	_____	_____	_____	_____
1000	631.112 WELDING MACHINE (INCLUDING OPERATOR) BRIDGE NO. 1458	3.000 HR	_____	_____	_____	_____
1010	631.112 WELDING MACHINE (INCLUDING OPERATOR) BRIDGE NO. 1459	3.000 HR	_____	_____	_____	_____
1020	631.112 WELDING MACHINE (INCLUDING OPERATOR) BRIDGE NO. 5816	3.000 HR	_____	_____	_____	_____
1030	631.112 WELDING MACHINE (INCLUDING OPERATOR) BRIDGE NO. 5817	3.000 HR	_____	_____	_____	_____
1040	631.133 SKID STEER (INCLUDING OPERATOR) BRIDGE NO. 1457	4.000 HR	_____	_____	_____	_____
1050	631.133 SKID STEER (INCLUDING OPERATOR) BRIDGE NO. 1458	4.000 HR	_____	_____	_____	_____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1060	631.133 SKID STEER (INCLUDING OPERATOR) BRIDGE NO. 1459	4.000 HR	_____	_____	_____	_____
1070	631.133 SKID STEER (INCLUDING OPERATOR) BRIDGE NO. 5816	4.000 HR	_____	_____	_____	_____
1080	631.133 SKID STEER (INCLUDING OPERATOR) BRIDGE NO. 5817	4.000 HR	_____	_____	_____	_____
1090	631.172 TRUCK - LARGE (INCLUDING OPERATOR) BRIDGE NO. 1457	2.000 HR	_____	_____	_____	_____
1100	631.172 TRUCK - LARGE (INCLUDING OPERATOR) BRIDGE NO. 1458	2.000 HR	_____	_____	_____	_____
1110	631.172 TRUCK - LARGE (INCLUDING OPERATOR) BRIDGE NO. 1459	2.000 HR	_____	_____	_____	_____
1120	631.172 TRUCK - LARGE (INCLUDING OPERATOR) BRIDGE NO. 5816	2.000 HR	_____	_____	_____	_____
1130	631.172 TRUCK - LARGE (INCLUDING OPERATOR) BRIDGE NO. 5817	2.000 HR	_____	_____	_____	_____
1140	639.19 FIELD OFFICE TYPE B BRIDGE NO. 1457	0.200 EA	_____	_____	_____	_____
1150	639.19 FIELD OFFICE TYPE B BRIDGE NO. 1458	0.200 EA	_____	_____	_____	_____
1160	639.19 FIELD OFFICE TYPE B BRIDGE NO. 1459	0.200 EA	_____	_____	_____	_____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1170	639.19 FIELD OFFICE TYPE B BRIDGE NO. 5816	0.200 EA	_____	_____	_____	_____
1180	639.19 FIELD OFFICE TYPE B BRIDGE NO. 5817	0.200 EA	_____	_____	_____	_____
1190	652.30 FLASHING ARROW BOARD BRIDGE NO. 1458	0.500 EA	_____	_____	_____	_____
1200	652.30 FLASHING ARROW BOARD BRIDGE NO. 1459	0.500 EA	_____	_____	_____	_____
1210	652.30 FLASHING ARROW BOARD BRIDGE NO. 5816	0.500 EA	_____	_____	_____	_____
1220	652.30 FLASHING ARROW BOARD BRIDGE NO. 5817	0.500 EA	_____	_____	_____	_____
1230	652.312 TYPE III BARRICADE BRIDGE NO. 1457	2.000 EA	_____	_____	_____	_____
1240	652.312 TYPE III BARRICADE BRIDGE NO. 1458	6.000 EA	_____	_____	_____	_____
1250	652.312 TYPE III BARRICADE BRIDGE NO. 1459	4.000 EA	_____	_____	_____	_____
1260	652.312 TYPE III BARRICADE BRIDGE NO. 5816	4.000 EA	_____	_____	_____	_____
1270	652.312 TYPE III BARRICADE BRIDGE NO. 5817	6.000 EA	_____	_____	_____	_____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1280	652.33 DRUM BRIDGE NO. 1457	20.000 EA	_____	 _____	_____	 _____
1290	652.33 DRUM BRIDGE NO. 1458	85.000 EA	_____	 _____	_____	 _____
1300	652.33 DRUM BRIDGE NO. 1459	35.000 EA	_____	 _____	_____	 _____
1310	652.33 DRUM BRIDGE NO. 5816	35.000 EA	_____	 _____	_____	 _____
1320	652.33 DRUM BRIDGE NO. 5817	85.000 EA	_____	 _____	_____	 _____
1330	652.34 CONE BRIDGE NO. 1457	15.000 EA	_____	 _____	_____	 _____
1340	652.34 CONE BRIDGE NO. 1458	20.000 EA	_____	 _____	_____	 _____
1350	652.34 CONE BRIDGE NO. 1459	10.000 EA	_____	 _____	_____	 _____
1360	652.34 CONE BRIDGE NO. 5816	10.000 EA	_____	 _____	_____	 _____
1370	652.34 CONE BRIDGE NO. 5817	20.000 EA	_____	 _____	_____	 _____
1380	652.35 CONSTRUCTION SIGNS BRIDGE NO. 1457	235.000 SF	_____	 _____	_____	 _____
1390	652.35 CONSTRUCTION SIGNS BRIDGE NO. 1458	325.000 SF	_____	 _____	_____	 _____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1400	652.35 CONSTRUCTION SIGNS BRIDGE NO. 1459	200.000 SF	_____	 _____	_____	 _____
1410	652.35 CONSTRUCTION SIGNS BRIDGE NO. 5816	200.000 SF	_____	 _____	_____	 _____
1420	652.35 CONSTRUCTION SIGNS BRIDGE NO. 5817	325.000 SF	_____	 _____	_____	 _____
1430	652.361 MAINTENANCE OF TRAFFIC CONTROL DEVICES BRIDGE NO. 1457	LUMP SUM	LUMP	 SUM	_____	 _____
1440	652.361 MAINTENANCE OF TRAFFIC CONTROL DEVICES BRIDGE NO. 1458	LUMP SUM	LUMP	 SUM	_____	 _____
1450	652.361 MAINTENANCE OF TRAFFIC CONTROL DEVICES BRIDGE NO. 1459	LUMP SUM	LUMP	 SUM	_____	 _____
1460	652.361 MAINTENANCE OF TRAFFIC CONTROL DEVICES BRIDGE NO. 5816	LUMP SUM	LUMP	 SUM	_____	 _____
1470	652.361 MAINTENANCE OF TRAFFIC CONTROL DEVICES BRIDGE NO. 5817	LUMP SUM	LUMP	 SUM	_____	 _____
1480	652.41 PORTABLE CHANGEABLE MESSAGE SIGN BRIDGE NO. 1457	1.600 EA	_____	 _____	_____	 _____
1490	652.41 PORTABLE CHANGEABLE MESSAGE SIGN BRIDGE NO. 1458	1.600 EA	_____	 _____	_____	 _____
1500	652.41 PORTABLE CHANGEABLE MESSAGE SIGN BRIDGE NO. 1459	1.600 EA	_____	 _____	_____	 _____

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Proposal ID: 027184.20

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Alt Set ID: Alt Mbr ID:

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1510	652.41 PORTABLE CHANGEABLE MESSAGE SIGN BRIDGE NO. 5816	1.600 EA	_____	_____	_____	_____
1520	652.41 PORTABLE CHANGEABLE MESSAGE SIGN BRIDGE NO. 5817	1.600 EA	_____	_____	_____	_____
1530	652.442 TYPE 2 SMART WORK ZONE SYSTEM BRIDGE NO. 1457	0.200 EA	_____	_____	_____	_____
1540	652.442 TYPE 2 SMART WORK ZONE SYSTEM BRIDGE NO. 1458	0.200 EA	_____	_____	_____	_____
1550	652.442 TYPE 2 SMART WORK ZONE SYSTEM BRIDGE NO. 1459	0.200 EA	_____	_____	_____	_____
1560	652.442 TYPE 2 SMART WORK ZONE SYSTEM BRIDGE NO. 5816	0.200 EA	_____	_____	_____	_____
1570	652.442 TYPE 2 SMART WORK ZONE SYSTEM BRIDGE NO. 5817	0.200 EA	_____	_____	_____	_____
1580	652.45 AUTOMATED TRAILER MOUNTED SPEED LIMIT SIGN BRIDGE NO. 1457	0.400 EA	_____	_____	_____	_____
1590	652.45 AUTOMATED TRAILER MOUNTED SPEED LIMIT SIGN BRIDGE NO. 1458	0.400 EA	_____	_____	_____	_____
1600	652.45 AUTOMATED TRAILER MOUNTED SPEED LIMIT SIGN BRIDGE NO. 1459	0.400 EA	_____	_____	_____	_____
1610	652.45 AUTOMATED TRAILER MOUNTED SPEED LIMIT SIGN BRIDGE NO. 5816	0.400 EA	_____	_____	_____	_____

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Proposal ID: 027184.20

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1620	652.45 AUTOMATED TRAILER MOUNTED SPEED LIMIT SIGN BRIDGE NO. 5817	0.400 EA	_____	_____	_____	_____
1630	652.46 SEQUENTIAL FLASHING WARNING LIGHTS BRIDGE NO. 1457	5.000 EA	_____	_____	_____	_____
1640	652.46 SEQUENTIAL FLASHING WARNING LIGHTS BRIDGE NO. 1458	5.000 EA	_____	_____	_____	_____
1650	652.46 SEQUENTIAL FLASHING WARNING LIGHTS BRIDGE NO. 1459	5.000 EA	_____	_____	_____	_____
1660	652.46 SEQUENTIAL FLASHING WARNING LIGHTS BRIDGE NO. 5816	5.000 EA	_____	_____	_____	_____
1670	652.46 SEQUENTIAL FLASHING WARNING LIGHTS BRIDGE NO. 5817	5.000 EA	_____	_____	_____	_____
1680	652.47 TEMPORARY PORTABLE RUMBLE STRIP BRIDGE NO. 1457	1.000 GP	_____	_____	_____	_____
1690	652.47 TEMPORARY PORTABLE RUMBLE STRIP BRIDGE NO. 1458	2.000 GP	_____	_____	_____	_____
1700	652.47 TEMPORARY PORTABLE RUMBLE STRIP BRIDGE NO. 1459	1.000 GP	_____	_____	_____	_____
1710	652.47 TEMPORARY PORTABLE RUMBLE STRIP BRIDGE NO. 5816	1.000 GP	_____	_____	_____	_____
1720	652.47 TEMPORARY PORTABLE RUMBLE STRIP BRIDGE NO. 5817	2.000 GP	_____	_____	_____	_____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1730	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL BRIDGE NO. 1457	LUMP SUM	LUMP	SUM	_____	_____
1740	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL BRIDGE NO. 1458	LUMP SUM	LUMP	SUM	_____	_____
1750	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL BRIDGE NO. 1459	LUMP SUM	LUMP	SUM	_____	_____
1760	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL BRIDGE NO. 5816	LUMP SUM	LUMP	SUM	_____	_____
1770	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL BRIDGE NO. 5817	LUMP SUM	LUMP	SUM	_____	_____
1780	659.10 MOBILIZATION	LUMP SUM	LUMP	SUM	_____	_____
Section: 1			Total:		_____	_____
			Total Bid:		_____	_____

SPECIAL PROVISION
SECTION 401
HOT MIX ASPHALT PAVEMENTS
(HMA – Highly Modified Asphalt Pavement)

The Special Provision 400 – Pavements; Section 401 – Hot Mix Asphalt Pavements; the following subsections have been modified with the following:

Description The Contractor shall furnish and place one or more courses of Highly Modified Asphalt Pavement (HiMAP) on an approved base in accordance with the contract documents and in reasonably close conformity with the lines, grades, thicknesses and typical cross sections shown on the plans or established. The Department will accept this work under Quality Assurance provisions, in accordance with these specifications and the requirements of Section 106 – Quality, the provisions of AASHTO M 323 except where otherwise noted in sections 401 and 703 of these specifications, and the MaineDOT Policies and Procedures for HMA Sampling and Testing. The Highly Modified Asphalt Pavement shall meet all of the Materials, Seasonal Limitations, Equipment, and Construction requirements of Special Provision Section 401, with the following additions and changes.

401.03 Composition of Mixtures The Contractor shall submit for Department approval a JMF to the Asphalt Pavement Engineer for each mixture to be supplied. The Contractor may forgo the test strip required under section 401.20 Acceptance of this specification if the Contractor submits a JMF from a manufacturer that has successfully designed and produced a HiMAP mixture and the mixture was successfully placed on a Department project within the current or within the previous construction season (within the past year) resulting in a finished product meeting the requirements of this specification. Asphalt percentage, aggregate sources, and gradation percentages must not have been adjusted from a previously approved design in order to forgo submitting samples for HWT approval or construction of a new a test strip.

The JMF will be approved by the Department in accordance with the MaineDOT HMA Policies and Procedures for HMA Sampling and Testing Manual. The specimens shall be prepared in accordance with AASHTO M323 and R35. The Contractor shall not use RAP in the HiMAP mixture at any percentage.

The mix design will satisfy the following criteria:

TABLE 1: HiMAP VOLUMETRIC DESIGN CRITERIA

Property		Criteria
Required Density (Percent of Gmm)	N _{initial}	≤89.0
	N _{design}	97.0
	N _{max}	≤99.0
Voids in Mineral Aggregates (VMA)		15% minimum
Voids Filled with Binder (VFB)		65-85%
Fines/Effective Binder Ratio		0.5-1.1
HWT, Rut Depth (20,000 passes) @ 50°C		12.5mm maximum
HWT, Stripping Inflection Point (SIP)		15,000 minimum

401.031 Hamburg Wheel Tracker (HWT) If the Contractor is submitting a new JMF the Contractor shall provide the Department with **four boxes** of the proposed plant or lab produced asphalt mixture for HWT approval prior to the test strip. The mixture will be tested for rutting and moisture sensitivity in the Hamburg Wheel Tracker according to AASHTO T324, “Hamburg Wheel-Track Testing of Hot Mix Asphalt (HMA).” If the sample meets the requirements of Table 1, an approved JMF will be forwarded to the Contractor with a comment referencing the passing HWT reference number for use on the test strip. The Department shall provide final approval of the JMF based on the results of the Test Strip. The Department will have five business days from receipt of the sample at the Central Laboratory to process, test, and report the Hamburg Wheel Tracker sample. The first day’s production shall be monitored, and the approval may be withdrawn if the mixture exhibits undesirable characteristics such as checking, shoving or displacement.

401.032 Warm Mix Technology The HiMAP shall be modified using an approved Warm-Mix Asphalt (WMA) additive that may reduce compactive effort and emissions. No WMA foaming technology will be permitted which requires the mechanical injection of steam or water into the liquid asphalt. The WMA additive must be compatible with polyphosphoric acid modified and polymer modified asphalts. The WMA additive shall be introduced in accordance with the Manufacturer’s dosing rates and approved blending methods.

401.04 Temperature Requirements After the JMF is established, the temperatures of the mixture shall conform to the following tolerances unless otherwise authorized by the Department:

In the truck at the mixing plant	– allowable range 290° to 340°F
At the Paver	– allowable range 290° to 340°F

401.05 Performance Graded Asphalt Binder The Performance Graded Asphalt Binder (PGAB) shall comply with AASHTO M 332 and R 92 and have a PG Grading of **PG 76E-28** with a minimum 6% SBS Polymer. The Multiple Stress Creep Recovery (MSCR) shall have a $J_{nr3.2}$ maximum value of 0.1 kPa⁻¹ when tested according to AASHTO T 350. The minimum MSCR % recovery at 3.2 kPa shall be 90%. The MSCR test for J_{nr} and % recovery shall be run at 76°C. The viscosity shall be less than or equal to 3.0 Pa-s, however the Department may increase this limit to 5.0 Pa-s if the binder supplier and contractor agree that the binder is suitably workable.

401.10 Rollers Section 401.10 shall apply, with the following exceptions; a Pneumatic roller will not be required. A 3-5 ton dual drum vibratory shall be required to replace the pneumatic roller in the required roller train, and aid in compaction in areas inaccessible to larger rollers.

401.19 Quality Control - Method A, B, C & D The Contractor shall have a testing lab at the plant site, equipped with all testing equipment necessary to complete the tests in Table 2. The Contractor shall locate an approved Gyratory Compactor at the plant testing lab. The Contractor shall generate QC sampling random numbers for each approved mix design. A copy of the random numbers shall be emailed to the QC.mainedot@maine.gov email address and remain on-file (in print) and be available for inspection at the QC laboratory. The Contractor

shall sample, test, and evaluate Hot Mix Asphalt Pavement in accordance with the following minimum frequencies per each approved mix design:

TABLE 2: MINIMUM QUALITY CONTROL FREQUENCIES

Test or Action	Frequency	Test Method
Temperature of mix	6 per day at street and plant	-
Temperature of mat	4 per day	-
%TMD (Surface)	1 per 125 ton	AASHTO T 355 or AASHTO T 343
%TMD (Base)	1 per 250 ton	AASHTO T 355 or AASHTO T 343
Fines / Effective Binder	1 per 500 ton	AASHTO T 312
Gradation	1 per 500 ton	AASHTO T 30
PGAB content	1 per 500 ton	AASHTO T164 or AASHTO T 308
Voids at N_{design}	1 per 500 ton	AASHTO T 312
Voids in Mineral Aggregate at N_{design}	1 per 500 ton	AASHTO T 312
Rice Specific Gravity	1 per 500 ton	AASHTO T 209
Coarse Aggregate Angularity	1 per 5,000 ton	ASTM D5821
Flat and Elongated Particles	1 Per 5,000 ton	ASTM D4791
Fine Aggregate Angularity	1 Per 5,000 ton	AASHTO T 304
<u>Hamburg Wheel Tracker</u>	<u>1 Per 4,000 ton and at least once per Acceptance Lot</u>	<u>AASHTO T 324</u>

The Contractor shall monitor plant production on each approved mix design using running average of three control charts as specified in Section 106 - Quality. Control limits shall be as noted in Table 3 below. The UCL and LCL, shall not exceed the allowable gradation control points for the particular type of mixture as outlined in Table 1 of Section 703.0

Hamburg Wheel Tracker (HWT) The project specific QCP shall address the sampling, transport, and testing of Hamburg Wheel Tracker QC samples and what potential steps will be taken if QC samples do not meet the requirements in Table 1. The project specific QCP shall also contain a sample Hamburg Wheel Tracker test report for approval. The Contractor shall sample and test HMA Pavement in the Hamburg Wheel Tracker according to AASHTO T324 in accordance with the minimum frequencies listed in Table 2.

The Contractor shall sample the HMA on the first day of production and test the sample in the Hamburg Wheel Tracker according to AASHTO T324. This sample will not count towards the minimum quality control frequency specified in Table 2. The Contractor shall submit all Hamburg Wheel Tracker test reports in writing, signed by the appropriate technician and present them to the Department within ten working days of initial sampling, except when otherwise noted in the project specific QCP due to local restrictions. The Contractor shall make the raw Hamburg Wheel Tracker data from QC samples available to the Department upon request. If a QC sample fails to meet the criteria in Table 1, the Contractor will be required to submit a corrective action letter to the Resident, Materials Engineer, Pavement Quality Manager, and Pavement Quality Engineer by the end of the following working day with the proposed changes to bring the mixture

back into compliance. The Department will respond and either accept or reject the Contractor's proposed corrective action by the end of the following working day from when the letter was received.

401.20 Acceptance Method The HiMAP will be evaluated by the acceptance limits specified in Table 3 and in accordance with Section 106.6 Acceptance, (1) Method A as specified Section 401.20 - Quality Assurance Methods A and C of the most recent Special Provision 400 - Pavements.

The Department will sample the HiMAP on the first day of production and at the acceptance frequencies specified in Table 2 to verify the compliance with the HWT. For all QA samples identified as a HWT sample, the Department will collect four additional boxes of the HMA mixture to verify compliance with the HWT requirements. The minimum sampling shall be as specified in Table 3A.

If an acceptance sample fails to meet the criteria in Table 1, the Contractor will be required cease production and submit a corrective action letter to the Resident, Materials Engineer, Pavement Quality Manager, and Pavement Quality Engineer by the end of the following working day with the proposed changes to bring the mixture back into compliance. Failure to do so will be treated as a second incident under 106.4.6 QCP Non-compliance.

TABLE 3: ACCEPTANCE LIMITS

Property	USL and LSL
Passing 4.75 mm and larger sieves	Target +/-7%
Passing 2.36 mm to 1.18 mm sieves	Target +/-4%
Passing 0.60 mm	Target +/-3%
Passing 0.30 mm to 0.075 mm sieve	Target +/-2%
PGAB Content	Target +/-0.4%
Voids at N _{design}	3.0% +/- 1.5%
Fines to Effective Binder	0.8 +/-0.3
Voids in the Mineral Aggregate	LSL from Table 1
Voids Filled with Binder	401.03 Composition of Mixtures Table 1 values plus a 4% production tolerance for USL only
% TMD (In place density)	94.5% +/- 2.5%

TABLE 3A: MINIMUM HWT ACCEPTANCE FREQUENCIES

Test or Action	Frequency	Test Method
Hamburg Wheel Tracker	1 per 4,000 ton and at least once per Acceptance Lot	AASHTO T 324

HWT Pay Adjustment For Hamburg Wheel Tracker, if the mix is within the tolerances listed in Table 1, the Department will pay the contract unit price, otherwise pay adjustments as shown in Table 4 shall be applied to the quantity of mix represented by the test.

TABLE 4: HWT PAY ADJUSTMENT

Number of Passes	Pay Adjustment
< 20,000	-1.0% for every 1000 passes below target

A pay adjustment will not be applied to the HWT acceptance sample taken within the test strip or within the first lot on the first day of production per JMF.

Test Strip If the Contractor is submitting a new JMF, a test strip of a minimum 60 tons placed at a nominal depth of 1 ¾ inch, full lane width, shall be required. The Department shall take at a minimum a single sample consisting of eight boxes and three cores stratified over the length of the test strip. The mixture will be evaluated under the Method B and HWT testing requirements. The exact location of the test strip will be at the discretion of Contractor unless otherwise stated in the contract.

A leveling course (Item 403.211) shall be placed at the chosen location prior to placement of the test strip unless the area is constructed of other freshly placed hot mix asphalt mix that would represent a prepared base on which to place a HiMap mixture. A fog coat of Item 409.15, Bituminous Tack Coat, shall be applied to the level course prior to the placement of the HMA surface course, payment to be made under the 409.15 pay item. The test strip will be excluded from the remainder of the projects' QA analysis. The Contractor shall notify the Department at least 48 hours in advance of placing the test strip. The test strip is intended to allow the Contractor to establish a method of compaction, adjust plant settings prior to mainline plant production, and obtain a HWT and production sample for the final approval of the JMF.

403.05 Basis of Payment The accepted quantities of HiMAP will be paid for at the contract unit price per ton for the mixture in place.

Payments will be made under the appropriate mixture type used:

Pay Item

403.2084 12.5mm Highly Modified Asphalt Pavement (HiMAP)

Pay Unit
Ton