



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

Janet T. Mills
GOVERNOR

Bruce A. Van Note
COMMISSIONER

November 23, 2021
Subject: Blue Hill Falls Bridge Replacement
State WIN: 017712.00
Location: **Blue Hill**
Amendment No. 2

Dear Sir/Ms.:

Please make the following changes to the Bid Documents:

In the Bid Book:

REMOVE pages 17 - 25, Proposal Schedule of Item, 9 pages, dated 9/30/2021, and **REPLACE** with the attached, revised Proposal Schedule of Items, 9 pages, dated 11/22/2021.

REMOVE pages 64 - 66, SPECIAL PROVISION – SECTION 105 – GENERAL SCOPE OF WORK – (Temporary Access Roads, Embankments and Temporary Works), 3 pages, dated September 28, 2021, and **REPLACE** with the attached, revised SPECIAL PROVISION – SECTION 105 – GENERAL SCOPE OF WORK – (Temporary Access Roads, Embankments and Temporary Works), 3 pages, dated November 19, 2021.

REMOVE from Amendment No. 1, SPECIAL PROVISION – SECTION 525 – GRANITE MASONRY – (Repointing Granite Masonry), 2 pages, dated November 9, 2021, and **REPLACE** with the attached, revised SPECIAL PROVISION – SECTION 525 – GRANITE MASONRY – (Repointing Granite Masonry), 2 pages, dated November 19, 2021.

In the Plan Set:

REMOVE SHEET NUMBER 2 OF 70, ESTIMATED QUANTITIES, dated 9/28/2021 and **REPLACE** with the attached, revised SHEET NUMBER 2 OF 70, ESTIMATED QUANTITIES, dated 11/22/2021.

REMOVE SHEET NUMBER 3 OF 70, GENERAL NOTES, dated 9/28/2021 and **REPLACE** with the attached, revised SHEET NUMBER 3 OF 70, GENERAL NOTES, dated 11/22/2021.

On SHEET NUMBER 41 of 70, ABUTMENT NO. 1 RETROFIT PLAN, ELEV., AND SECTION, **REMOVE** Note 6 and **REPLACE** with the following:

6. After repairing any loose granite blocks per Note 5, and prior to coring holes for micropiles in Abutment 2, the Contractor shall repoint the existing granite masonry at the abutment in accordance with Special Provision 525 and as directed by the Resident. The volume of mortar used in the repair will be measured for payment under Pay Item 525.061, Mortar for Repointing Granite Masonry and the length of joint caulked in the repair will be measured for payment under Pay Item 525.062, Caulking for Repointing Granite Masonry. Make this change in pen and ink.

The following questions have been received:

Question: Due to many contractors, suppliers and vendors being closed for the Thanksgiving holiday, we respectfully request the bid date to be postponed a minimum of (1) week from December 1, 2021 to December 8, 2021.

Response: The Department will not be extending the bid opening date of December 1st, 2021.

Question: What is the specified finish and color for the precast concrete fascia panels?

Response: The finish for the fascia panels shall meet the requirements of Standard Specification 534.17. The fascia panels will not have a colorized coating applied; they shall be a natural concrete grey color. The fabrication of the panels shall be completed with a consistent mix design to achieve a uniform color.

Question: Can you please confirm that the bearing plates in the bottom of the girders are galvanized and not stainless steel like everything else in the girders?

Response: The bearing plates embedded in the girders shall be galvanized steel.

Question: Contract drawing sheets 47 and 48 call for elastomer to be grade 4 neoprene. Will natural rubber be an acceptable alternative?

Response: Natural rubber (polyisoprene) is an acceptable alternative to neoprene. Natural rubber shall be grade 4 cold temperature resistant. Elastomer shall have a durometer hardness of 50. The shear modulus of the elastomer shall be 115 psi +/- 15%.

Question: On sheet 48, Section A-A appears to show elastomeric bearing pad to be tapered. Pad detail does not show this. Is pad tapered or flat?

Response: The elastomeric pad is flat (constant thickness).

Question: On sheet number #51 and #8 of the NEBT Precast Girder Notes, PVC sleeves or threaded inserts are specified, but only PVC inserts are drawn. Which girders require PVC, and which require threaded inserts - or are they interchangeable?

Response: Additional information is provided in the details on Sheet #53. At exterior girder locations the intermediate diaphragm locations shall use threaded inserts. All other diaphragm locations shall use PVC sleeves.

Question: Do the lifters on the concrete girders need to be stainless steel?

Response: Yes, lifting hardware permanently embedded in the precast beams shall be stainless steel.

Question: Please confirm that repointing of granite masonry will only take place on exposed joints above Mean Low Water.

Response: The repair of mortar joints described in Special Provision 525, Repointing Granite Masonry, shall be limited to the portions of the bridge abutments located above the mean low water line.

Question: Will the caulking material used in the repointing of granite masonry also be paid by the cubic foot under item 525.262?

Response: See revised Special Provision 525, Repointing of Granite Masonry, included in this amendment.

Question: Please confirm that adjustment/resetting of stones that are out of alignment by more than 1” relative to other blocks will be paid under item #629.07 Stone Mason. How will the equipment required for the adjustment/resetting of these stones be paid?

Response: Existing abutment stones that need to be reset in accordance with Special Provision 525, and as determined by the Resident in accordance with Note 5 on Sheet 41, will be paid using hourly items in the contract including Pay Item 629.07, Stone Mason, Pay Item 631.10, Air Compressor (including operator), Pay Item 631.11, Air Tool (including operator), and Pay Item 629.05, Hand Labor Straight Time. Other hourly items included in the contract may also be used as needed.

Question: The Existing Bridge drawings don’t seem to show the thickness of the original bridge deck, which appears to have been placed monolithically with the transverse concrete floor beams. Please provide thickness of current deck/wearing surface (assuming it has been replaced since 1926) and advise if current deck/wearing surface is also integral to floor beams.

Response: There is no record of the original bridge deck being replaced. However, the original gravel roadway surface has been replaced with a concrete wearing surface. This is believed to have occurred in the 1990’s. Ground penetrating radar (GPR) completed on the bridge deck indicates a 4 to 5-inch-thick concrete wearing surface atop a 9 to 10-inch-thick bridge deck. The GPR indicates that, prior to installing the concrete wearing surface, one inch of the existing deck may have been removed. Measurements of the curb reveal indicate the thickness of the asphalt wearing surface at the curb line is consistent with the GPR findings. The Contractor is advised that the above deck and wearing surface thicknesses have not been verified through direct measurements.

Consider these changes and information prior to submitting your bid on **December 1, 2021**.

Sincerely,



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

Maine Department of Transportation

Proposal Schedule of Items

Proposal ID: 017712.00

Project(s): 017712.00

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	202.191 REMOVING EXISTING BRIDGE	LUMP SUM				
0020	202.202 REMOVING PAVEMENT SURFACE	290.000 SY				
0030	203.20 COMMON EXCAVATION	1,380.000 CY				
0040	203.21 ROCK EXCAVATION	70.000 CY				
0050	203.24 COMMON BORROW	50.000 CY				
0060	203.25 GRANULAR BORROW	90.000 CY				
0070	206.082 STRUCTURAL EARTH EXCAVATION - MAJOR STRUCTURES	130.000 CY				
0080	304.10 AGGREGATE SUBBASE COURSE - GRAVEL	1,100.000 CY				
0090	403.1021 TEXTURED ASPHALT PAVEMENT COLOR COATED	280.000 SY				
0100	403.208 HOT MIX ASPHALT 12.5 MM HMA SURFACE	225.000 T				
0110	403.209 HOT MIX ASPHALT 9.5 MM (SIDEWALKS, DRIVES, INCIDENTALS)	8.000 T				
0120	403.213 HOT MIX ASPHALT 12.5 MM BASE	345.000 T				

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0130	409.15 BITUMINOUS TACK COAT - APPLIED	160.000 G	_____	 _____	_____	 _____
0140	461.131 TEMPORARY PAVEMENT	160.000 T	_____	 _____	_____	 _____
0150	501.222 MICROPILES	590.000 LF	_____	 _____	_____	 _____
0160	501.2331 MICROPILE VERIFICATION LOAD TEST	2.000 EA	_____	 _____	_____	 _____
0170	501.2341 MICROPILE PROOF LOAD TEST	2.000 EA	_____	 _____	_____	 _____
0180	501.8031 CORING CONCRETE	130.000 LF	_____	 _____	_____	 _____
0190	501.8032 CONCRETE CORING EQUIPMENT MOBILIZATION	LUMP SUM	LUMP SUM		_____	 _____
0200	501.804 DRILLING EQUIPMENT MOBILIZATION	LUMP SUM	LUMP SUM		_____	 _____
0210	502.219 STRUCTURAL CONCRETE, ABUTMENTS AND RETAINING WALLS	LUMP SUM	LUMP SUM		_____	 _____
0220	502.261 STRUCTURAL CONCRETE ROADWAY & SIDEWALK SLAB ON CONCRETE BRIDGE	LUMP SUM	LUMP SUM		_____	 _____
0230	502.49 STRUCTURAL CONCRETE CURBS AND SIDEWALKS	LUMP SUM	LUMP SUM		_____	 _____

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			Dollars	Cents	Dollars	Cents
0240	503.26 STAINLESS STEEL REINFORCEMENT - FABRICATED & DELIVERED	80,200.000 LB	_____	 _____	_____	 _____
0250	503.27 STAINLESS STEEL REINFORCEMENT - PLACING	80,200.000 LB	_____	 _____	_____	 _____
0260	507.0834 WYOMING STEEL BRIDGE RAILING	LUMP SUM	LUMP SUM		_____	 _____
0270	508.14 HIGH PERFORMANCE WATERPROOFING MEMBRANE	LUMP SUM	LUMP SUM		_____	 _____
0280	510.10 SPECIAL DETOUR _____ ROADWAY WIDTH VEHICULAR & PEDESTRIAN TRAFFIC NOT SEPARATED 16 FT	LUMP SUM	LUMP SUM		_____	 _____
0290	515.2011 PIGMENTED PROTECTIVE COATING CONCRETE SURFACES	LUMP SUM	LUMP SUM		_____	 _____
0300	515.21 PROTECTIVE COATING FOR CONCRETE SURFACES	LUMP SUM	LUMP SUM		_____	 _____
0310	518.60 REPAIR OF VERTICAL SURFACES < 8 IN.	10.000 SF	_____	 _____	_____	 _____
0320	518.70 REPAIR OF OVERHEAD SURFACES < 8 IN.	20.000 SF	_____	 _____	_____	 _____
0330	519.60 EXPANSION DEVICE - ASPHALTIC PLUG JOINT	90.000 LF	_____	 _____	_____	 _____
0340	523.52 BEARING INSTALLATION	42.000 EA	_____	 _____	_____	 _____

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			Dollars	Cents	Dollars	Cents
0350	523.5401 LAMINATED ELASTOMERIC BEARINGS, FIXED	5.000 EA	_____	 _____	_____	 _____
0360	523.5402 LAMINATED ELASTOMERIC BEARINGS, EXPANSION	37.000 EA	_____	 _____	_____	 _____
0370	525.061 MORTAR FOR REPOINTING GRANITE MASONRY	110.000 CF	_____	 _____	_____	 _____
0380	525.062 CAULKING FOR REPOINTING GRANITE MASONRY	950.000 LF	_____	 _____	_____	 _____
0390	525.329 DRY-LAID STONE WALL - REMOVE AND RESET	LUMP SUM		LUMP SUM	_____	 _____
0400	525.331 ADDITIONAL STONES FOR MASONRY WALL	15.000 CY	_____	 _____	_____	 _____
0410	526.301 PORTABLE CONCRETE BARRIER TYPE I	LUMP SUM		LUMP SUM	_____	 _____
0420	526.34 PERMANENT CONCRETE TRANSITION BARRIER	4.000 EA	_____	 _____	_____	 _____
0430	527.34 WORK ZONE CRASH CUSHIONS	4.000 UN	_____	 _____	_____	 _____
0440	534.7612 PRECAST APPROACH BEAMS	LUMP SUM		LUMP SUM	_____	 _____
0450	534.7613 PRECAST AESTHETIC PANELS	LUMP SUM		LUMP SUM	_____	 _____

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			Dollars	Cents	Dollars	Cents
0460	535.61 PRESTRESSED STRUCTURAL CONCRETE I-GIRDERS	LUMP SUM				
0470	603.16 15 INCH CULVERT PIPE OPTION I	27.000 LF				
0480	603.175 18 INCH REINFORCED CONCRETE PIPE CLASS III	24.000 LF				
0490	603.179 18 INCH CULVERT PIPE OPTION III	15.000 LF				
0500	604.262 CATCH BASIN TYPE B5-C	2.000 EA				
0510	606.1301 31" W-BM GR, MID-WAY SPLICE-SGL FACED	350.000 LF				
0520	606.1305 31" W-BM GR, MID-WAY SPLICE FLARED TERMINAL	1.000 EA				
0530	606.1306 31" W-BM GR, MID-WAY SPLICE TANGENT TERMINAL	3.000 EA				
0540	606.1307 BRIDGE TRANSITION (ASYMMETRICAL) - TYPE 1A	4.000 EA				
0550	606.353 REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	5.000 EA				
0560	606.356 UNDERDRAIN DELINEATOR POST	1.000 EA				

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			Dollars	Cents	Dollars	Cents
0570	609.11 VERTICAL CURB TYPE 1	190.000 LF	_____	 _____	_____	 _____
0580	609.234 TERMINAL CURB TYPE 1 - 4 FOOT	5.000 EA	_____	 _____	_____	 _____
0590	610.08 PLAIN RIPRAP	530.000 CY	_____	 _____	_____	 _____
0600	610.18 STONE DITCH PROTECTION	140.000 CY	_____	 _____	_____	 _____
0610	615.07 LOAM	43.000 CY	_____	 _____	_____	 _____
0620	615.081 COMPOST BLANKET	300.000 CY	_____	 _____	_____	 _____
0630	618.146 HGM BIOTIC SOIL HYDROMULCH MEDIA	29.000 UN	_____	 _____	_____	 _____
0640	618.149 SPECIAL SEED MIX	35.000 UN	_____	 _____	_____	 _____
0650	619.12 MULCH	4.000 UN	_____	 _____	_____	 _____
0660	619.14 EROSION CONTROL MIX	50.000 CY	_____	 _____	_____	 _____
0670	620.58 EROSION CONTROL GEOTEXTILE	1,300.000 SY	_____	 _____	_____	 _____
0680	621.025 EVERGREEN TREES (3 FOOT - 4 FOOT) GROUP A	16.000 EA	_____	 _____	_____	 _____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0690	621.179 MEDIUM DECIDUOUS TREES (6 FOOT - 8 FOOT) GROUP B	16.000 EA	_____	 _____	_____	 _____
0700	621.389 EVERGREENS (15 INCH - 18 INCH) GROUP A	40.000 EA	_____	 _____	_____	 _____
0710	621.5351 DECIDUOUS SHRUBS (15 INCH - 18 INCH) GROUP A	40.000 EA	_____	 _____	_____	 _____
0720	621.54 DECIDUOUS SHRUBS (18 INCH - 24 INCH) GROUP A	40.000 EA	_____	 _____	_____	 _____
0730	627.733 4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	2,200.000 LF	_____	 _____	_____	 _____
0740	627.78 TEMPORARY 4 INCH PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW	230.000 LF	_____	 _____	_____	 _____
0750	629.05 HAND LABOR, STRAIGHT TIME	110.000 HR	_____	 _____	_____	 _____
0760	629.07 STONE MASON	60.000 HR	_____	 _____	_____	 _____
0770	631.10 AIR COMPRESSOR (INCLUDING OPERATOR)	20.000 HR	_____	 _____	_____	 _____
0780	631.11 AIR TOOL (INCLUDING OPERATOR)	60.000 HR	_____	 _____	_____	 _____
0790	631.12 ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	20.000 HR	_____	 _____	_____	 _____

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Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0800	631.14 GRADER (INCLUDING OPERATOR)	20.000 HR	_____	 _____	_____	 _____
0810	631.172 TRUCK - LARGE (INCLUDING OPERATOR)	20.000 HR	_____	 _____	_____	 _____
0820	631.22 FRONT END LOADER (INCLUDING OPERATOR)	20.000 HR	_____	 _____	_____	 _____
0830	639.18 FIELD OFFICE TYPE A	1.000 EA	_____	 _____	_____	 _____
0840	643.72 TEMPORARY TRAFFIC SIGNAL	LUMP SUM	LUMP SUM		_____	 _____
0850	652.312 TYPE III BARRICADE	12.000 EA	_____	 _____	_____	 _____
0860	652.33 DRUM	25.000 EA	_____	 _____	_____	 _____
0870	652.34 CONE	50.000 EA	_____	 _____	_____	 _____
0880	652.35 CONSTRUCTION SIGNS	740.000 SF	_____	 _____	_____	 _____
0890	652.361 MAINTENANCE OF TRAFFIC CONTROL DEVICES	LUMP SUM	LUMP SUM		_____	 _____
0900	652.38 FLAGGER	760.000 HR	_____	 _____	_____	 _____
0910	652.41 PORTABLE CHANGEABLE MESSAGE SIGN	2.000 EA	_____	 _____	_____	 _____

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Contractor: _____

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0920	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LUMP SUM	LUMP	SUM	_____	_____
0930	659.10 MOBILIZATION	LUMP SUM	LUMP	SUM	_____	_____
0940	660.21 ON-THE-JOB TRAINING (BID)	1,000.000 HR	_____	_____	_____	_____
Section: 1			Total:		_____	_____
			Total Bid:		_____	_____

SPECIAL PROVISION
SECTION 105
GENERAL SCOPE OF WORK
(Temporary Access Roads, Embankments and Temporary Works)

This section is amended by the addition of the following:

105.12 Temporary Access Roads, Embankments and Work Trestles

This specification shall apply to the design, furnishing, installation, maintenance, removal, reinstallation/removal as necessary, and all labor, materials and equipment required to construct temporary work areas, access roads, embankments, and rock roads outside of, or within, the waterway, herein defined as “Temporary Embankments and Work Areas”, deemed necessary by the Contractor to adequately access and complete the Work, or to maintain traffic through the project site.

This specification shall also apply to the design, furnishing, installation, maintenance, removal, reinstallation/removal as necessary, and for all labor, materials and equipment required to construct temporary structures including temporary bridges, work trestles, structures, and platforms, herein identified as “Trestles”, deemed necessary by the Contractor to adequately access and complete the Work, or to maintain traffic through the project site.

Temporary Embankments and Trestles shall be constructed in accordance with the Plans, the project permits, and as noted herein.

105.12.1 General Requirements for Temporary Embankments and Work Areas

1. Vegetation removal shall be limited to the greatest extent practical to promote stability of the surficial soil following restoration of the area at the completion of construction.
2. Grubbing shall be limited to the greatest extent practical to minimize the potential for erosion and preserve native soils.
3. Exposed rocks and boulders can be removed and stacked to accommodate temporary access, work areas and the Special Detour with approval of the Resident. The stacked boulders shall be returned to the approximate existing locations at contract completion.
4. The Contractor shall place Special Seed Mix, Compost Blanket, Hydromulch Growth Medium and plantings outside of the States permanent ROW in conformance with Specifications 615, 618 & 621. Within the areas of Shoreland Buffer Zones shown on the Plans no Compost Blanket shall be applied.
5. All Temporary Embankments and Work Areas located both west of the Route 175 existing (permanent) right-of-way, and north of the northerly mean high water line of the Salt Pond, shall meet the following additional requirements:

- a. Where the removal of trees and other vegetation is required, all cutting shall be flush to the ground (within 3” of the ground surface), leaving the roots in place. No herbicide shall be applied to stumps.
 - b. All areas of native soil exposed to construction operations shall be covered with Separation Geotextile and temporary fill. Separation geotextile shall be placed directly atop the existing native soils prior to the placement of temporary fill materials. Separation Geotextile materials and construction requirements shall be in accordance with Standard Specification 620 and Standard Details, Section 620. A minimum depth of fill of one foot shall be placed over the separation geotextile.
 - c. At the completion of construction all non-native soils shall be removed from above the Separation Geotextile, and the Separation Geotextile shall be removed to uncover the underlying native soils. Ground disturbance shall be avoided.
6. All Temporary Embankments within the waterway, regardless of location, shall meet the following requirements:
- a. Temporary Embankments within the waterway, if used, shall be constructed using methods, and erosion-resistant materials, that will resist stream flow and minimize erosion to the extent practical. The Contractor will not be permitted to use materials or construction methods that will likely result in the loss of material. All materials placed within the waterway shall be capable of being completely removed.
 - b. Temporary Embankments within the waterway shall be removed completely, and to the satisfaction of the Resident, upon completion of the project.
 - c. The limits of Temporary Embankments within the waterway shall not encroach into the Main Waterway Channel. The Main Waterway Channel is defined as the portion of the waterway located between Station 17+05 and Station 18+05.
7. All Temporary Embankments shall be stabilized to minimize erosion to the extent practical.
8. Payment for all of the above work shall be incidental to the Special Detour item, except for landscaping which will be paid for under the 621 items.

105.12.2 General Requirements for Trestles

All Trestles located within the waterway shall meet the following requirements:

1. All Trestle supports shall be aligned with the flow of the waterway to the extent practical.
2. No more than two lines of supports shall be located within the main waterway channel. The Main Waterway Channel shall be defined as the portion of the

waterway located between Station 17+05 and Station 18+05 of the proposed baseline.

3. The minimum elevation of the low chord of the Trestle system shall be one foot above the Mean Higher High Water elevation. A navigational channel does not need to be maintained on this project.

All Trestles shall be removed completely, and to the satisfaction of the Resident, upon completion of the project. Where foundation elements are socketed or otherwise anchored into bedrock the foundation elements shall be removed to either the top of bedrock, or to two feet below streambed elevation, whichever is higher.

105.12.2.1 Submittals

Trestles shall be designed by a Professional Engineer, licensed in the State of Maine. The Contractor shall submit design computations and detailed plans for the Trestles to the Resident at least 30 calendar days prior to beginning construction of the Trestles.

If the Department requires changes to Trestle plans or computations, based on Contract requirements, then the Contractor shall implement the changes at no additional cost to the Department. No additional payments to the Contractor will be associated with this submittal and review process.

The Department shall have no obligation to review or comment on any design, construction, maintenance, or removal of Trestles. No review or comment by the Department, or any lack of review or comment by the Department, shall relieve the Contractor of its responsibility to properly design, construct, maintain in good condition, and completely remove Trestles in accordance with the Contract, or shall shift any responsibility to the Department. The Contractor shall be responsible for all damages resulting from the failure of the Trestles.

105.12.3 Method of Measurement

Design, installation, maintenance, removal and reinstallation (regardless of location or use) of Temporary Embankments and Trestles shall not be measured separately for payment but shall be considered incidental to the Contract.

SPECIAL PROVISION
SECTION 525
GRANITE MASONRY
(Repointing Granite Masonry)

525.01 Description The following paragraph is added:

The work included in this section includes the removal of all loose/deteriorated existing mortar, the removal of all loose/deteriorated existing caulking material, filling all voids between granite blocks with mortar, and repointing/caulking the face joints. This work is limited to masonry joints located above the mean low water line at the existing abutments; no repointing of granite masonry will be required on the dry laid granite retaining walls that run parallel to the roadway. The work shall be completed as directed by the Resident.

525.02 Materials The following paragraph is added:

Caulking material for repointing granite masonry joints shall be approved by the Manufacturer for exposure to salt water during and after application

Sections 525.03 General This section is deleted and replaced by the following:

An inspection of the abutments identified the possible presence of lead wool / lead caulking within the mortared abutment joints. Lead shims, strips, buttons or other lead-bearing components may also be present within the mortared abutment joints. The Contractor shall be responsible for the proper containment, management, and disposal of all lead-contaminated hazardous waste generated by the project, and for implementing appropriate personal protection standards in compliance with all applicable federal, state and local regulations, including the current version of 29 CFR 1926, OSHA Construction Industry Health and Safety Standards, and in particular, the OSHA Lead in Construction Standard (29 CFR 1926.62). MaineDOT will be the generator of the hazardous waste and will sign all associated documents for proper management. Payment for all labor, materials, equipment and other costs required for proper management of lead waste shall be incidental to Pay Item 525.061, Mortar for Repointing Granite Masonry

Areas of loose, deteriorated, or otherwise unsound mortar and caulking shall be removed to sound material as directed by the Resident. Removals shall be completed using air tools, hand tools, or other methods approved by the Resident that will not damage or destabilize the existing stones. The Contractor shall sequence and complete the work in a manner that ensures that at least 50% of the grout joint beneath each stone remains intact at all times.

The abutments shall be cleaned prior to placing any mortar or caulking to remove any dirt, loose stones, or other debris that would inhibit the proper adhesion of the repair materials. Cleaning shall be completed through the use of compressed air, hand tools and other methods approved by the Resident to ensure a clean bond surface is achieved. The Contractor shall use great care to avoid damaging or otherwise destabilizing existing stones.

Sections 525.04 through 525.05 These sections are deleted and not replaced.

525.07 Setting Stones The following paragraph is added:

Existing granite blocks that are out of alignment relative to the other blocks in the same course shall be adjusted into alignment as directed by the Resident.

525.08 Joints The following paragraph is added:

Face joints shall be properly pointed before caulking material sets. Face surfaces of stones shall not be smeared with caulking material used in pointing. After repointing is completed and caulking material has set, all surfaces exposed in the final condition shall be cleaned of loose caulking material and mortar stains.

525.09 Method of Measurement The following paragraphs are added:

Resetting of stones as directed by the Resident shall not be measured for payment under this section, but shall be paid by force account as noted in the Contract Plans.

Mortar for Repointing Granite Masonry shall be measured for payment by the cubic foot of mortar satisfactorily installed and accepted in the final condition.

Caulking for Repointing Granite Masonry shall be measured for payment by the linear foot of joint satisfactorily caulked and approved by the Resident.

525.10 Basis of Payment This Subsection is amended by the addition of the following:

The unit price for Mortar for Repointing Granite Masonry shall be full compensation for all labor, equipment, scaffolding, materials, and other incidentals necessary to remove existing mortar and caulking, for the temporary support of stones as necessary, and for the installation of new mortar. The unit price shall also be full compensation for the proper containment, management, and disposal of all lead-contaminated hazardous waste generated by the work and for implementing appropriate personal protection standards.

The unit price for Mortar for Repointing Granite Masonry and Caulking for Repointing Granite Masonry shall be full compensation for all labor, equipment, scaffolding, materials, and other incidentals necessary to complete the work.

Payment will be made under:

<u>Pay Item</u>		<u>Pay Unit</u>
525.061	Mortar for Repointing Granite Masonry	Cubic Foot
525.062	Caulking for Repointing Granite Masonry	Linear Foot

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.191	Removing Existing Bridge (350 CY)	1	LS
202.202	Removing Pavement Surface	290	SY
203.20	Common Excavation	1,380	CY
203.21	Rock Excavation	70	CY
203.24	Common Borrow	50	CY
203.25	Granular Borrow	90	CY
206.092	Structural Earth Excavation - Major Structures, Plan Quantity	130	CY
304.10	Aggregate Subbase Course - Gravel	1,100	CY
403.1021	Textured Asphalt Pavement w/Color Coating	280	SY
403.208	Hot Mix Asphalt - 12.5 mm Nominal Maximum Size	225	Ton
403.209	Hot Mix Asphalt, 9.5 mm (Sidewalk, Drives, Incidentals)	8	Ton
403.213	Hot Mix Asphalt, 12.5 mm Nominal Maximum Size (Base and Intermediate Base course)	345	Ton
409.15	Bituminous Tack Coat, Applied	160	Gal
461.131	Temporary Pavement	160	Ton
501.222	Micropiles	590	LF
501.2331	Micropile Verification Load Test	2	EA
501.2341	Micropile Proof Load Test	2	EA
501.8031	Coring - 14" Core Hole	130	LF
501.8032	Coring Equipment Mobilization	1	LS
501.804	Drilling Equipment Mobilization	1	LS
502.219	Structural Concrete, Abutments and Retaining Walls (260 CY)	1	LS
502.261	Structural Concrete Roadway and Sidewalk Slab on Concrete Bridges (220 CY)	1	LS
502.49	Structural Concrete Curbs and Sidewalks (26 CY)	1	LS
503.26	Stainless Steel Reinforcement, Fabricated and Delivered	80,200	LB
503.27	Stainless Steel Reinforcement, Placing	80,200	LB
507.0834	Wyoming Steel Bridge Railing (384 LF)	1	LS
508.14	High Performance Waterproofing Membrane (680 SY)	1	LS
510.10	Special Detour, 16 foot Roadway Width Vehicular and Pedestrian Traffic Not Separated	1	LS
515.2011	Pigmented Protective Coating for Concrete Surfaces (170 SY)	1	LS
515.21	Protective Coating for Concrete Surfaces (790 SY)	1	LS
518.60	Repair of Vertical Surfaces < 8 inches	10	SF
518.70	Repair of Overhead Surfaces < 8 inches	20	SF
519.60	Expansion Device - Asphaltic Plug Joint	90	LF
523.52	Bearing Installation	42	EA
523.5401	Laminated Elastic Bearings, Fixed	5	EA
523.5402	Laminated Elastic Bearings, Expansion	37	EA
525.061	Mortar for Repointing Granite Masonry	110	CF
525.062	Caulking for Repointing Granite Masonry	950	LF
525.329	Dry-Laid Stone Wall - Remove and Reset	1	LS
525.331	Additional Stones for Masonry Wall	15	CY
526.301	Portable Concrete Barrier, Type I (40 LF)	1	LS
526.34	Permanent Concrete Transition Barrier	4	EA
527.34	Work Zone Crash Cushions	4	UNIT
534.7612	Precast Approach Beams (270 CY)	1	LS
534.7613	Precast Aesthetic Panels (2200 SF)	1	LS
535.61	Prestressed Structural Concrete I-Girders (525 LF)	1	LS
603.16	15 inch Culvert Pipe Option I	27	LF
603.175	18 inch RCP Class III	24	LF
603.179	18 inch Culvert Pipe Option III	15	LF
604.262	Catch Basin Type B5-C	2	EA
606.1301	3" W-Beam Guardrail - Mid-way Splice (Steel Posts, 8" Offset, Single faced)	350	LF
606.1305	3" W-Beam Guardrail - Mid-way Splice Flared Terminal (3" Height)	1	EA
606.1306	3" W-Beam Guardrail - Mid-way Splice Tangent Terminal (3" Height)	3	EA
606.1307	Bridge Transition (Asymmetrical) - Type IA	4	EA
606.353	Reflectorized Flexible Guardrail Marker	5	EA
606.356	Underdrain Delineator Post	1	EA
609.11	Vertical Curb Type I	190	LF
609.234	Terminal Curb Type I - 4 foot	5	EA
610.08	Plain Riprap	530	CY
610.18	Stone Ditch Protection	140	CY
615.07	Loom	43	CY
615.081	Compost Blanket	300	CY
618.146	Seeding Hydromulch Growth Medium	35	UNIT
618.149	Special Seed Mix	29	UNIT
619.12	Mulch	4	UNIT
619.14	Erosion Control Mix	50	CY
620.58	Erosion Control Geotextile	1,300	SY
621.025	Evergreen Trees 3'-4' Group A B&B/Cont.	16	EA
621.179	Medium Decid. Trees 6'-8' Group B Cont.	16	EA
621.389	Evergreen Shrubs 15'-18" Group A Cont.	40	EA
621.5351	Deciduous Shrubs 15'-18" Group A Cont.	40	EA

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
621.54	Deciduous Shrubs 18"-24" Group A Cont.	40	EA
627.733	4" White or Yellow Painted Pavement Marking Line	2,200	LF
627.78	Temporary 4" Painted Pavement Marking Line, White or Yellow	230	LF
629.05	Hand Labor, Straight Time	110	HR
629.07	Stone Mason	60	HR
631.10	Air Compressor (Including operator)	20	HR
631.11	Air Tool (Including operator)	60	HR
631.12	All Purpose Excavator (Including operator)	20	HR
631.14	Grader (Including operator)	20	HR
631.172	Truck-Large (Including operator)	20	HR
631.22	Front End Loader (Including operator)	20	HR
639.18	Field Office, Type A	1	EA
643.72	Temporary Traffic Signal: Route 175	1	LS
652.312	Type III Barricade	12	EA
652.33	Drum	25	EA
653.34	Cone	50	EA
652.35	Construction Signs	740	SF
652.361	Maintenance of Traffic Control Devices	1	LS
652.38	Flaggers	760	HR
652.41	Portable Changeable Message Sign	2	EA
656.75	Temporary Soil Erosion and Water Pollution Control	1	LS
659.10	Mobilization	1	LS
660.21	On-The-Job Training	1,000	HR

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		STP-1771(200)X		WIN		17712.00		BRIDGE PLANS	
BLUE HILL FALLS BRIDGE		SALT POND OUTLET		HANCOCK COUNTY		ESTIMATED QUANTITIES		SHEET NUMBER		2	
PROJ. MANAGER		A. Lethe		BY		DATE		SIGNATURE		P.E. NUMBER	
DESIGN-DETAILED		A. Sweet		E. Raymond		09/21		T. Cote		09/21	
CHECKED-REVIEWED		L. Driscoll		-		-		-		-	
DESIGNS-DETAILED		-		PAY ITEM REVISIONS		11/22/21		-		-	
REVISIONS 1		-		-		-		-		-	
REVISIONS 2		-		-		-		-		-	
REVISIONS 3		-		-		-		-		-	
REVISIONS 4		-		-		-		-		-	
FIELD CHANGES		-		-		-		-		-	



