



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

Janet T. Mills
GOVERNOR

Bruce A. Van Note
COMMISSIONER

November 10, 2021
Subject: Blue Hill Falls Bridge Replacement
State WIN: 017712.00
Location: **Blue Hill**
Amendment No. 1

Dear Sir/Ms.:

Please make the following changes to the Bid Documents:

In the Bid Book:

ADD the attached SPECIAL PROVISION – SECTION 202 – REMOVING STRUCTURES AND OBSTRUCTIONS – (Removing Existing Bridge), 2 pages, dated September 28, 2021.

REMOVE pages 139 – 140, SPECIAL PROVISION – SECTION 525 – GRANITE MASONRY – (Repointing Granit Masonry), 2 pages, dated September 28, 2021, and **REPLACE** with the attached, revised SPECIAL PROVISION – SECTION 525 – GRANITE MASONRY – (Repointing Granit Masonry), 2 pages, dated November 9, 2021.

REMOVE pages 141 – 142, SPECIAL PROVISION – SECTION 525 – GRANITE MASONRY – (Dry-Laid Stone Wall, Remove and Reset) (Additional Stones for Masonry Wall), 2 pages, dated September 28, 2021, and **REPLACE** with the attached, revised SPECIAL PROVISION – SECTION 525 – GRANITE MASONRY – (Dry-Laid Stone Wall, Remove and Reset) (Additional Stones for Masonry Wall), 3 pages, dated November 10, 2021.

In the Plan Set: On SHEET NUMBER 3 OF 70, GENERAL NOTES, **ADD** the following:

32. 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 525.262, Repointing Granite Masonry. Make this change in pen and ink.

The following questions have been received:

Question: Can the MDOT provide a 2021 Heavy & Bridge Hancock County Masonry wage rate for items under 525?

Response: The Contractor will need to apply after they are awarded the contract.

Question: Special Provision Section 105 (Temporary Access Roads, Embankments and Temporary Works) 105.12.2.3 states, "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 the project." Special Provisions Section 510 Special Detours 510.031.d. states, "The minimum elevation of the low chord of the temporary detour shall be at or above the elevation of the low beam of the existing bridge." If a navigational channel isn't required to be maintained what is driving the bottom chord elevation instead of a top or roadway elevation?

Response: The minimum low chord elevation for the temporary detour has been set to minimize the potential for flooding and damage to the temporary bridge during high water and storm events.

Question: Special Provision Section 105 (Temporary Access Roads, Embankments and Temporary Works) 105.12.2.2 General Requirements for Trestles states, "No more than two lines of supports shall be located within the main waterway channel." Are there any restrictions on the number of lines of supports within the main waterway channel for the detour bridge or existing bridge demo?

Response: In accordance with Special Provision 510 (Special Detours), Subsection 510.01(Description), the requirements of Special Provision Section 105 (Temporary Access Roads, Embankments and Temporary Works) also apply to construction of the Special Detour, except where amended otherwise in Special Provision 510. Requirements regarding temporary works for demolition of the existing bridge are provided in Special Provision 202 (Removing Existing Bridge) included in this amendment.

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

Sincerely,



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

SPECIAL PROVISION
SECTION 202
REMOVING STRUCTURES AND OBSTRUCTIONS
(Removing Existing Bridge)

202.01 Description The following paragraphs are added:

This work shall include the removal and satisfactory disposal of the existing Falls Bridge tied arch superstructure including the concrete deck, railings, floorbeams, arch ribs, hangers and tie girders. This work also includes salvaging portions of the existing superstructure as described herein.

This work also includes removal of the existing cast-in-place concrete abutment seats and backwalls located above the top of granite facing, as well as the removal of existing railings, concrete curbs and extension walls located above the top course of granite blocks on the approach retaining walls, as shown on the Plans.

This work shall also include removing and stacking portions of the existing bridge as described herein.

This provision neither amends nor modifies other provisions of Section 202 except as specified below.

202.031 Construction Requirements

The Contractor shall dismantle the existing superstructure in a controlled manner and using methods that will not result in damage to the portions of the structure to remain, or to persons or property.

Explosive demolition of the existing structure shall not be permitted.

The Contractor will be responsible for removing, stacking, and loading onto a vehicle designated by the Town of Blue Hill, the following elements from the existing bridge. The contractor shall take care to salvage these components in a manner that does not result in irreparable damage to the items to be salvaged to the extent practical. The final limits of removal shall be determined in coordination with the Resident.

- Bronze plaque at north portal beam
- The four finials at the ends of the north and south portal brace.

Any temporary structural supports installed within the Main Waterway Channel, defined as the portion of the waterway located between Station 17+00 and Station 18+00, shall not restrict the existing 100-foot-wide hydraulic opening by more than fifteen percent. Temporary structural

supports shall be located in a manner that does not significantly increase flow velocities, or create significant new eddies, in the vicinity of the abutments and retaining walls.

The Contractor shall provide a demolition submittal prepared and stamped by a professional engineer licensed in the state of Maine. The submittal shall include, but shall not be limited to, demolition plans, design calculations, and a written demolition narrative. The demolition narrative shall outline the proposed demolition procedure and sequence including the proposed method(s) of removal, all required falsework and temporary supports, protective structures, and equipment needed to safely accomplish bridge removal. The submittal shall also identify all portions of the structure specified to be salvaged, and the manner in which these portions will be safely removed. The Contractor shall submit the demolition submittal to the Resident at least 60 calendar days prior to beginning demolition activities. If the Department requires changes to demolition submittal, 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 Contractor shall contain all demolition debris (including debris from wearing surface removal, saw cut slurry, concrete debris, dust, etc.) and shall not allow it to discharge to any regulated resource in a manner not allowed by these Contract documents or the environmental permits for the project.

202.07 Method of Measurement

Removing Existing Bridge will be measured by the lump sum and will include complete removal of the superstructure, partial removal of the concrete abutments, and the complete removal of the concrete railings, curbs and extension walls located atop the existing approach retaining walls.

202.08 Basis of Payment

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
202.191 Removing Existing Bridge	Lump Sum

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 and the furnishing and the installation of mortar and grout for existing stone masonry abutment repointing as directed by the Resident.

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 525.262, Repointing Granite Masonry.

525.02 Materials The following paragraph is added:

Caulking material for repointing granite masonry joints shall meet the requirements for new construction of joints in granite masonry following Section 525.06 and 705.02 of the Standard Specifications. Materials shall be taken from the Maine DOT qualified product list. All caulking materials shall be recommended by the Manufacturer for exposure to salt water during application or during the expected tidal window for the given elevation.

525.03 Installation The following paragraphs are added:

The Contractor shall fill voids in the existing granite abutments with stone and mortar as directed by the Resident.

The abutments shall be cleaned prior to setting any stone or mortar to remove any dirt, loose stones, or other debris that would inhibit the proper adhesion of the mortar. Cleaning shall be completed through the use of compressed air and hand tools to ensure a clean bond surface is achieved. Small to medium loose stones shall be removed; rocks firmly in place shall remain. Large stones that are identified as being loose shall be thoroughly grouted into place. The Contractor shall use great care to avoid damaging or otherwise destabilizing the existing substructure.

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 showing surfaces shall be cleaned of loose caulking material and cement stains.

525.07 Setting Stones The following paragraph is added:

Existing granite blocks that are out of alignment by more than 1” relative to the other blocks in the same course shall be adjusted into alignment as directed by the Resident.

525.09 Method of Measurement The following paragraphs are added:

Repointing granite masonry to be measured for payment will be the volume of grout material used to repoint the granite masonry.

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

The accepted quantity of repointed 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>
525.262 Repointing Granite Masonry	Cubic Foot

SPECIAL PROVISION
SECTION 525
GRANITE MASONRY
(Dry-Laid Stone Wall, Remove and Reset)
(Additional Stones for Masonry Wall)

525.01 Description The following paragraph is added:

This work shall consist of removing and salvaging stacked stone from the existing stone wall \ slope protection at the northwest corner of the bridge (pictured below) for reuse in resetting the wall in a new location, and for sourcing new stone for use in extending the existing stone walls to meet the new toe of slope, in accordance with these specifications and in reasonably close conformity with the plans or as directed by the Resident.



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 presence of lead components may also be present within the joints of dry laid mortar walls. 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 525.329, Dry-Laid Stone Wall, Remove and Reset.

525.02 Materials The following paragraph is added:

Stones from the existing wall shall be reused for the reset wall. Additional stones required to complete the wall shall generally match the texture, size, type, and color of the existing stones and shall be blended in with the old stones. Additional stones are subject to inspection and approval by the Resident. The additional stones are subject to rejection if they do not generally match the existing stone characteristics.

525.03 Installation The following paragraphs are added:

The dry-laid stone wall shall be reconstructed in a manner that is consistent with the existing wall condition and level of detail. Before setting stones, all stones shall be cleaned free of dirt and soil. Cleaning methods shall be nondestructive to the stone and approved by the Resident. The dry-laid stone wall shall be reconstructed to the location and limits shown on the plans or as approved by the Resident. Additional stones required to extend the wall shall match the texture and color of the existing stones.

Care should be taken to keep weathered faces exposed.

Remove from site all excess materials, debris, tools, and equipment.

No mortar shall be used. The stone wall shall be constructed to act as a self-supporting gravity wall. The wall front & rear surfaces shall be battered consistent with the existing wall, or as approved by the Resident.

525.09 Method of Measurement The following paragraph is added:

Dry-laid stone wall, remove and reset will be measured as one lump sum. Additional stones will be measured as the number of cubic yards of stones brought to the project from another source.

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

Dry-laid stone wall, remove and reset will be paid for at the contract unit price per lump sum. The unit price shall include full compensation for removing existing wall, excavation and grading, temporarily storing on site, cleaning, resetting wall and furnishing all materials, labor, equipment, management of lead and lead waste if required, and other incidentals necessary to complete the work. The unit price shall include full compensation all materials, labor, equipment,

transportation of materials, and other incidentals necessary to complete the work.

Additional stones for masonry wall will be paid for at the contract unit price per cubic yard. The unit price shall include full compensation for furnishing, transporting, and placing the additional stones including all materials, labor and incidentals necessary to complete the work.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
525.329 Dry-Laid Stone Wall, Remove and Reset	Lump Sum
525.331 Additional Stones for Masonry Wall	Cubic yard