



Charles D. Baker, Governor
Karyn E. Polito, Lieutenant Governor
Jamey Tesler, Acting Secretary & CEO
Jonathan L. Gulliver, Highway Administrator



August 26, 2021

608079-114943

ADDENDUM NO. 1

To Prospective Bidders and Others on:

SHARON
Federal Aid Project No. STP(BR-OFF)-003S(150)
Bridge Replacement Br. No. S-09-003 (Steel) Maskwonicut Street
over the Amtrak/MBTA Railroad

BIDS TO BE OPENED AND READ: TUESDAY, AUGUST 31, 2021, at 2:00 P.M.

Transmitting revisions to the Contract Documents as follows:

RESPONSES TO BIDDERS' QUESTIONS: Two pages.

DOCUMENT 00104: Revised page 3.

DOCUMENT A00801: Revised Pages 12, 66, 178, 212, 214, 240 through 242.

Please take note of the above, substitute the revised pages for the originals and acknowledge Addendum No. 1 in your Expedite Proposal file before submitting your bid.

Very truly yours,

Eric M. Cardone, P.E.
Construction Contracts Engineer

MB

c: Stephen Soma, Project Manager

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(608079-114943)

Responses to Bidders' Questions

Addendum No. 1, August 26, 2021

MAS Building & Bridge, Inc., e-mail dated August 19, 2021

- Question 1) There does not appear to be a Pay Item for repointing work at the existing masonry arch. Can you please add a Pay Item by the Linear Foot?
- Response 1) See the revised Special Provisions pages A00801 – 178, 240 through 242. Repointing of the existing stone masonry arch and walls to remain is to be paid for under Item 995.01.

J.F. White Contracting Company, e-mail dated August 19, 2021

- Question 2) Plan sheet 16, General Notes, under section Suggested Construction Sequence number 3 states to repoint underside of Stone Masonry Arch prior to West Abutment work. Under which bid item is the repointing to be paid for?
- Response 2) See response given for Question No. 1.
- Question 3) Plan sheets 27 and 28 reference the existing granite walls which remain to be repointed. Under which bid item will this work be paid for?
- Response 3) See response given for Question No. 1.

Advanced Drainage Systems, Inc., e-mail dated August 24, 2021

- Question 4) The Project is currently specified with 12-inch Reinforced Concrete Pipe. Item Number and quantity is as follows:
- 241.12 = 12-Inch Reinforced Concrete Pipe (330 LF)
- We would like to respectfully request that corrugated plastic pipe (both polyethylene and polypropylene; per AASHTO M294 and AASHTO M330) be allowed under the pipe option for the above referenced item. Both pipe materials are included within the Commonwealth of Massachusetts Department of Transportation Standard Specifications for Highways and Bridges (2021 Edition) Division III-Materials Specifications, Section M5.03.10 Corrugated Plastic Pipe. If allowed, the installation of corrugated plastic pipe would follow MassDOT Installation Guidelines.
- Response 4) 12-Inch Reinforced Concrete Pipe is to be used as specified.

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MAS Building & Bridge, Inc., e-mail dated August 24, 2021

- Question 5) Expected work hours are provided on A00801 – 19. The Special Provisions also go on to outline how the overall schedule duration was determined using these same work hours on A00801 – 21 under the heading, “Other.” Please confirm these work hours are to be used for development of bids for this project and that the following statement does not apply: “the above work hours are to be used as a guide and are not guaranteed... No additional compensation will be provided for work hours due to limitations by the railroad.” If less than the already limited hours are provided for uninterrupted work, this substantially changes both the cost and time to complete the scope of work required by this project.
- Response 5) The work hours are to be used for the development of bids for the project. The statement, “the above work hours are to be used as a guide and are not guaranteed... No additional compensation will be provided for work hours due to limitations by the railroad.” does apply.
- Question 6) Will weekend shutdowns of revenue service be allowed under this Contract?
- Response 6) Weekend shutdowns of revenue service will not be allowed under this Contract.
- Question 7) The Typical Wingwall Sections do not show horizontal construction joints. Are the wingwalls required to be built incrementally, similar to what is shown on the Abutment Sections?
- Response 7) Yes, the wingwalls are required to be built incrementally, similar to what is shown on the Abutment Sections.
- Question 8) The specification for Item 144. Class B Rock Excavation calls for demolition of the existing stone substructures. The Granite Stone Veneer Section under 995.01 (A00801 – 212) says that removal of the existing granite stone for the veneer is included under the Bridge Item. Please clarify.
- Response 8) See the revised Special Provisions pages A00801- 66, 212 and 214. Item 144. Class B Rock Excavation includes the removal and salvage of the existing granite stone masonry to be reused as veneer in the new abutments and wingwalls. Item 995.01 – Granite Stone Veneer Section – covers the cleaning and remaining associated work required for reuse of the salvaged existing stone masonry in the veneer for the new abutments and wingwalls.

① Addendum No. 1, August 26, 2021

NOTICE TO CONTRACTORS (Continued)

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PRICE ADJUSTMENTS

This Contract contains price adjustments for hot mix asphalt and Portland cement mixtures, diesel fuel, and gasoline. For reference the base prices are as follows: liquid asphalt \$562.50 per ton, Portland cement \$149.65 per ton, diesel fuel \$2.563 per gallon, and gasoline \$2.495 per gallon. MassDOT posts the **Price Adjustments** on their Highway Division's website at <https://www.mass.gov/topics/highway-construction-resources>

This Contract contains Price Adjustments for steel. See Document 00813 - PRICE ADJUSTMENT FOR STRUCTURAL STEEL AND REINFORCING STEEL for their application and base prices.

MassDOT projects are subject to the rules and regulations of the Architectural Access Board (521 CMR 1.00 et seq.)

Prospective bidders and interested parties can access this information and more via the internet at WWW.COMMBUYS.COM.

BY: Jamey Tesler, Acting Secretary and CEO, MassDOT
Jonathan L. Gulliver, Administrator, MassDOT Highway Division
SATURDAY, JUNE 26, 2021

① Addendum No.1, August 26, 2021

HOLIDAY WORK RESTRICTIONS (Continued)

Memorial Day (Federal Holiday)

No work on major arterial roadways from 5:00 AM on the Friday before, until the normal start of business on the following day.

Bunker Hill Day (Suffolk County State Holiday)

No work restrictions due to traffic concerns.

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Juneteenth

No work restrictions due to traffic concerns, however work on local roadways requires permission by the DHD and local police chief.

Independence Day (Federal Holiday)

No work on major arterial roadways from 5:00 AM on the day before until the normal start of business on the next subsequent business day. No work on local roadways on the holiday without permission by the DHD and the local police chief.

Labor Day (Federal Holiday)

No work on major arterial roadways from 5:00 AM on the Friday before, until the normal start of business on the following day.

Columbus Day (Federal Holiday)

No work on major arterials from 5:00 AM on the Friday before, until the normal start of business on the following day

Veterans' Day (Federal Holiday)

No work restrictions due to traffic concerns.

Thanksgiving Day (Federal Holiday)

No work on major arterials from 5:00 AM two days before until the normal start of business on the following Monday.

Christmas Day (Federal Holiday)

No work on major arterial roadways from 5:00 AM on the day before until the normal start of business on the next subsequent business day.

① Addendum No. 1, August 26, 2021

ITEM 144.**CLASS B ROCK EXCAVATION****CUBIC YARD**

The work under this item shall conform to the applicable provisions of Subsection 140 of the Standard Specifications and the specific requirements stipulated below for the component parts of this item.

- ① The work under this item shall include removal and salvage of stone masonry for reuse, and legal disposal of the existing stone substructures as indicated on the Contract Drawings and as required by the Engineer.

Prior to the start of work, the Contractor shall submit demolition plan for approval by Amtrak and MassDOT. Such plan should include, at minimum:

1. A detailed description of the means, methods, equipment, and sequence of the planned demolition
2. A plan showing the anticipated location(s) of rock to be removed.

The Contractor shall contact and coordinate development of this plan with Amtrak prior to submission.

① **CONSTRUCTION METHODS**

Prior to the start of any stone removal, the Contractor shall take color photographs of the existing walls in accordance with the GRANITE STONE VENEER Section of Item 995.01.

The stones in the existing bridge abutments and wingwalls to be reused as facing for the new concrete abutments and wingwalls shall be removed and salvaged. Stones shall be removed by the gentlest means feasible to avoid damage during disassembly. Cleaning and other treatment of the stone prior to reuse shall be in accordance with the GRANITE STONE VENEER Section of Item 995.01.

METHOD OF MEASUREMENT

Item 144. will be measured for payment by the Cubic Yard, of class B rock excavation.

BASIS OF PAYMENT

Item 144. will be paid for at the contract unit price per Cubic Yard, which price shall include all bracing, labor, tools, equipment, materials, loading, transportation, disposal fees necessary or incidental, approvals, permits, and incidental work necessary for the completion of the work.

① Addendum No. 1, August 26, 2021

ITEM 995.01 **BRIDGE STRUCTURE, BRIDGE NO. S-09-003** **LUMP SUM**

The work under this item shall conform to the applicable provisions of Subsection 995 of the Standard Specifications and the specific requirements stipulated below for the component parts of this Item. For those component parts where no specific requirement is stipulated, the Standard Specifications shall apply except for payment.

Work under this Item shall include all materials, equipment and labor needed to construct the following:

- Structural steel
- Post-tensioned precast concrete deck panels
- Cast-in-place concrete abutments and wingwalls
- Cast-in-place concrete approach slabs
- Cast-in-place concrete moment slabs
- Precast concrete transition bases and transitions
- Cast-in-place concrete end diaphragms
- Cast-in place reinforced concrete safety curbs
- Elastomeric bearing assemblies
- CP-PL2 bridge parapet
- Ornamental electrification barrier
- Granite stone veneer
- Spray applied membrane waterproofing
- Repointing of existing stone masonry wingwalls and arch

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The following items shall be considered as incidental to the unit price of concrete, as stated by the Contractor and as approved by the Engineer in the respective "Basis for Partial Payments": Development of Assembly Plan, form liners, neoprene seals, backer rods, preformed and premolded filler, joint sealer, grout ports, keyway grout, concrete for precast voids, leveling devices, corrugated metal pipe, grouted splice couplers, lifting hardware, bedding grouts, caulking, closed cell foam, weep holes with crushed stone, all piping and drains, waterproofing protective course.

The work does not include any items listed separately in the proposal. Payment for materials shown on the Plans as being part of this bridge structure or which may be incidental to its construction and are not specifically included for payment under another Item shall be considered incidental to the work performed under this Item and shall be included in the unit price of the component of which they are a part.

STRUCTURAL STEEL

The work under this Item shall conform to the relevant provisions of Subsection 960.

Prior to the start of work, the Contractor shall submit an erection procedure in accordance with Subsection 960.61 for approval by Amtrak and MassDOT. The Contractor shall contact and coordinate development of this plan with Amtrak prior to submission.

① Addendum No. 1, August 26, 2021

ITEM 995.01 (Continued)**CONSTRUCTION METHODS****Shop Drawings/Submittals**

- A. Submit for approval prior to fabrication: samples, product data (including preparation, storage and installation methods), cuts & anchor spacing, reinforcement & location, product specifications, shop drawings, test reports (current UL Listing Verification & UL 752 Test Results as provided by Underwriters Laboratories), and printed data in sufficient detail to indicate compliance with the Plans and these special provisions.
- B. Manufacturer's instructions for installation and cleaning of Bullet Resistant Laminated Polycarbonate Glazing. All required submittals shall be approved prior to installation.

Quality Assurance

Manufacturer shall be a Company that specializes in manufacturing products of the specified type with a minimum of five years' experience. Installer shall be a Company that specializes in product type specified. Manufacturer shall provide a sample to the Engineer for approval prior to start of work.

Installation

The bullet resistant laminated polycarbonate glazing shall be installed in accordance with the approved shop drawings and submittals and in accordance with the manufacturer's recommendations.

After installation is complete the galzing shall be cleaned.

GRANITE STONE VENEER

The work to be done under this heading shall conform to the relevant provisions of subsection 685 of the Standard Specifications and the following:

DESCRIPTION

- ① Work under this item consists of cleaning, storing, and installing the granite stone masonry from the existing bridge abutments and wingwalls as a veneer on the exposed face of cast-in-place concrete abutments and wingwalls as shown on the plans. The reconstructed granite stone masonry shall maintain the appearance of the previous stone abutments and wingwalls to the greatest degree feasible. All work under this heading shall be supervised by a qualified professional stone mason.
- ① The work shall include the total volume of adjusted masonry, cleaning of existing masonry, and reconstructing masonry abutments and wingwalls complete as shown on the plans and as directed by the Engineer. This shall include but not be limited to mortar, masonry anchorage, cutting, chipping, labor, tools, equipment and all incidentals required to complete the work as stated herein, shown on the contract plans, and as directed by the Engineer to the satisfaction of the Engineer.

① Addendum No. 1, August 26, 2021

ITEM 995.01 (Continued)

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All stones shall be cleaned of old mortar, superficial dirt and organic matter and stacked at the project site in undamaged condition for later reuse.

During reconstruction, the walls shall be rebuilt in such manner that they shall retain the prior appearance of the walls and abutments to be removed. The stones shall be laid in approximately horizontal beds with vertical joints broken by at least 6 inches. The spaces between larger stones shall be chinked with small stones to firmly lock each stone in place and to fill the space as completely as possible.

High early strength cement shall not be used. Mortar for setting shall consist of one part cement, two parts sand, and water. The cement and sand shall be thoroughly mixed dry and the water shall then be added to make a putty-like consistency. The mortar shall be prepared only in such quantities as can be used before initial set takes place. The use of retempered mortar is not permitted. Mortar shall be tinted dark grey with a coloring admixture.

Each stone shall be laid in full mortar beds with full mortar joints. A stone shall not be permitted to slide on the mortar bed while it is being set. Beds and joints shall be the shallowest effective depth. The mortar shall be installed with or otherwise raked back to produce a nominal reveal of at least 1 inch. The face of each stone shall be kept free from mortar. Stones shall be thoroughly cleaned after setting and pointed using a flat head point. The use of wire brushes, acids, or solutions that might discolor the stones is prohibited.

Laying Technique Specified

All the stones shall be thoroughly wetted before laying. Every course of stone shall be hammer dressed and cut for thickness, as necessary. No hammering, cutting or other dimensional alteration shall be conducted on the outer face of the stones. Stones shall be laid with faces accurately matched and laid as close to the previous appearance of the abutments and wingwalls as feasible. The masonry shall be carried up regularly and true to plumb. The thickness of joints shall not exceed 1 inch.

Curing Method

The work shall be protected from rain or sun while it is green. At the end of the day's work, the top surface of the walls shall be kept flooded so that it acquires the required strength. The masonry shall be kept moist on all the faces for at least 7 days.

Any surplus materials shall become the property of the Contractor and shall be removed from the site or otherwise legally disposed of.

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① Addendum No. 1, August 26, 2021

ITEM 995.01 (Continued)**F. Filling of Blockouts for Lifting Devices and Threaded inserts.**

If the blockouts in the Precast Concrete Bridge Elements where the lifting devices were located will be exposed and visible after assembly is complete, the Contractor shall fill these blockouts with Cement Mortar (M4.02.15) or grout.

After the formwork has been removed, all threaded inserts that have been cast into the precast concrete bridge deck for support of the formwork shall be filled with a grout of the same color as that of the precast concrete.

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MORTAR FOR POINTING

The work to be done under this heading shall conform to the relevant provisions of subsection 685 of the Standard Specifications and the following:

DESCRIPTION

Work under this item includes the cleaning out of mortar joints in the exposed surfaces of the existing stone masonry wingwalls to remain and underside of the existing stone masonry arch and the pointing of joints with new mortar.

MATERIALS

Mortar for pointing, dirt and stain resistant type, shall conform to ASTM C270, Type S.

CONSTRUCTION METHODS

All stone masonry joints shall have existing mortar removed with a chisel to a minimum depth of two inches. Care shall be taken to not damage edges of existing stone masonry. The joint shall be thoroughly cleaned of all loose mortar, dust, dirt and vegetation.

All cleaned joints shall be inspected and approved by the Engineer prior to the application of mortar. Immediately prior to application of mortar, dampen joints to be re-pointed and allow existing stone masonry to absorb surface water. The mortar shall be tightly packed to the back of the excavated joint and made flush with the masonry face. Tool joints, after initial hardening of mortar, to produce a smooth, compacted, concaved joint.

Only enough mortar shall be mixed that can be effectively used to repoint the prepared joints.

Pointing shall not be done in freezing weather nor when the stones contain frost.

The Contractor shall be responsible for maintaining the stability of the masonry walls throughout the work.

① Addendum No. 1, August 26, 2021

ITEM 995.01 (Continued)**SCHEDULE OF BASIS FOR PARTIAL PAYMENT**

Within ten (10) days after Notice to Proceed, the Contractor shall submit on his/her proposal form a schedule of unit priced for the major component Sub-Items that make up Item 995.01 as well as his/her total bridge structure Lump Sum cost for Bridge Structure No. S-09-003. The bridge structure Lump Sum breakdown quantities provided in the proposal form are estimated and not guaranteed. The total of all partial payments to the Contractor shall equal the Lump Sum contract price regardless of the accuracy of quantities furnished by the Engineer for the individual bridge components. The cost of labor and materials for any Item not listed but required to complete the work shall be considered incidental to Item 995.01 and no further compensation will be allowed.

The schedule on the proposal form applies only to Bridge Structure No. S-09-003. Payment for similar materials and construction at locations other than at this bridge structure shall not be included under this Item. Sub-Item numbering is presented for information only in coordination with MassDOT Standard Nomenclature.

| Sub-Item | Description | Quantity | Units | Unit Price | Total |
|----------|---|----------|-------|------------|-------|
| 901. | 4000 PSI, 1-1/2 IN., 565 CEMENT CONCRETE | 910 | CY | | |
| 904. | 4000 PSI, 3/4 IN., 610 CEMENT CONCRETE | 30 | CY | | |
| 904.3 | 5000 PSI, 3/4 IN., 685 HP CEMENT CONCRETE | 60 | CY | | |
| 904.4 | 4000 PSI, 3/4 IN., 585 HP CEMENT CONCRETE | 30 | CY | | |
| 908.1 | MORTAR FOR POINTING | 7300 | FT | | |
| 908.4 | GRANITE STONE VENEER | 3500 | SF | | |
| 910.1 | STEEL REINFORCEMENT FOR STRUCTURES-EPOXY COATED | 119,700 | LB | | |
| 922.2 | LAMINATED ELASTOMERIC BEARING W/O ANCHOR BOLTS (51-100) | 12 | EA | | |
| 960. | STRUCTURAL STEEL | 73,100 | LB | | |
| 965. | MEMBRANE WATERPROOFING FOR BRIDGE DECKS | 1540 | SF | | |
| 970. | DAMP PROOFING | 390 | SF | | |
| 975.5 | ALUMINUM HANDRAIL | 180 | FT | | |

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ⓐ Addendum No. 1, August 26, 2021

ITEM 995.01 (Continued)

| Sub-Item | Description | Quantity | Units | Unit Price | Total |
|---|---|----------|-------|------------|-------|
| 975.6 | ORNAMENTAL ELECTRIFICATION BARRIER | 165 | FT | | |
| 904.301 | PRECAST HIGHWAY GUARDRAIL TRANSITION | 4 | EA | | |
| 904.401 | PRECAST CONCRETE FULL DEPTH DECK PANEL | 12 | EA | | |
| Contract Bid Price for LUMP SUM Item 995.01 = | | | | | |

The above schedule on the proposal form applies only to Bridge Structure No S-09-003. Payment for similar materials and construction at locations other than at this bridge structure shall not be included under this Item. Sub-Item numbering is presented for information only in coordination with MassDOT Standard Nomenclature.

END OF DOCUMENT
