



Maura Healey, Governor  
Kimberley Driscoll, Lieutenant Governor  
Monica Tibbitts-Nutt, Secretary & CEO  
Jonathan L. Gulliver, Highway Administrator



March 15, 2024

608858-125266

ADDENDUM NO. 2

To Prospective Bidders and Others on:

CHARLEMONT

**Federal Aid Project No. STP(BR-OFF)-003S(716)X  
Bridge Replacement, C-05-042, East Oxbow Road over Oxbow Brook**

THIS PROPOSAL TO BE OPENED AND READ: TUESDAY, MARCH 19, 2024 at 2:00 P.M.

Transmitting revisions to the Contract Documents as follows:

<u>QUESTIONS AND RESPONSES:</u>	Three pages.
<u>DOCUMENT 00104:</u>	Revised page 3.
<u>DOCUMENT 00813:</u>	Deleted document in its entirety and inserted new document (4 pages).
<u>DOCUMENT A00801:</u>	Revised pages 64 and 113.

Take note of the above, substitute the revised pages for the originals, delete the document indicated, insert the new document in the proper order, and acknowledge Addendum No. 2 in your Expedite Proposal file before submitting your bid.

Very truly yours,

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

RM  
cc: S. Negah, Project Manager

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# CHARLEMONT

## **Federal Aid Project No. STP(BR-OFF)-003S(716)X Bridge Replacement, C-05-042, East Oxbow Road over Oxbow Brook**

(608858-125266)

Questions and Responses

Addendum No. 2, March 15, 2024

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### J.H. MAXYMILLIAN, INC. e-mail dated March 12, 2024

- Question 2) Drawing 38 of 55 depicts the location of the shoring close to the edge of the temporary road. Along the east side of the temporary road, north of the temporary bridge, would the contractor be allowed to slope soil to the limits of the temporary easement in order to lessen the height of the temporary earth support required?
- Response 2) See Item 953.1 special provisions. The Contractor shall submit their proposed design SOE for Engineer's approval.
- Question 3) The Special Provision for Item 993.1 Temporary Bridge No. C-05-042T states, "The work under this Item shall include the design, furnishing, and installation of a prefabricated panelized steel bridge system supporting decking with bituminous concrete pavement, bridge railings/barriers, associated hardware, bridge excavation, and reinforced concrete temporary abutments." Can you please clarify that the bituminous concrete pavement is limited to the bridge deck? If not, could you please clarify the limits of bituminous concrete to be included in this item?
- Response 3) See "Temporary Bridge Cross Section" on Sheet 43 of 55 of the Contract plans. Wearing surface does not have to be bituminous concrete pavement, but the chosen wearing surface for the temporary bridge is limited to the bridge deck. Approach pavement will be measured and paid for under separate items.
- Question 4) The Special Provision for Item 993.1 Temporary Bridge No. C-05-042T also states "Removing the fill material required to construct the temporary roadway and abutments to restore embankments as close as possible to original conditions with modifications shown on the Contract plans shall also be included under this Item." Later in the special provision under the Basis for Partial Payments, it states, "All excavation and backfill will be paid for separately under respective Contract items." Could you please clarify how much work, beyond the temporary bridge and its abutments, is to be included in this lump sum item, for both the installation and removal?
- Response 4) The installation and removal of the temporary bridge/roadway will involve the addition and removal of fill material, but as stated in the payment section, all necessary excavation and backfill will be paid under separate items. The excavation and backfill limits should be included in the Contractor's proposed design for temporary excavation support system.

# CHARLEMONT

## **Federal Aid Project No. STP(BR-OFF)-003S(716)X Bridge Replacement, C-05-042, East Oxbow Road over Oxbow Brook**

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Question 5) If the removal of the temporary roadway is included in Item 993.1 Temporary Bridge No. C-05-042T, under the lump sum item are we just to cut the subgrade and finishes are paid for under other items, or should the finishes in this area be included in this lump sum price?

Response 5) Removal of the temporary roadway is not included under Item 993.1.

Question 6) Note 8 under the Micropile Installation Procedure on Drawing 35 of 65 states "... The contractor shall prepare a dewater plan to handle all artesian and groundwater conditions at the site..." Under the Special Provisions for the Micropile in the first paragraph on page A00801-113, it states "Costs associated with remedial measures that are required to install the micropiles in artesian conditions will be compensated based on a Time and Materials basis as required and approved by MassDOT." We believe this to mean that preparation of the dewatering plan shall be included in our costs, however any work to be completed to control water from artesian conditions, if encountered, will be paid for on a time and material basis. Is this interpretation correct?

Response 6) Please see revised page A00801-113

Question 7) The special provision for item 698.4 Geotextile Fabric for Permanent Erosion Control refers the bidders to Subsection M9.350.0 of the Standard Specification with property requirements per Table 5. There seems to be an error here. Could you please review, and if required, could you please revise?

Response 7) Please see revised page A00801-64.

Question 8) Payment Micropiles is by the foot of drilled micropiles. Approximately 2' of the micropile will be in the concrete pile cap, and will most likely not be drilled. Will piles be measured from the top of the pile or only the portion that is drilled?

Response 8) Pile length will be measured from drilled micropile cut-off elevation to drilled micropile tip elevation, as shown on the plans.

**CHARLEMONT**

**Federal Aid Project No. STP(BR-OFF)-003S(716)X  
Bridge Replacement, C-05-042, East Oxbow Road over Oxbow Brook**

**(608858-125266)**

Questions and Responses

Addendum No. 2, March 15, 2024

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**E.T. & L. Corp. e-mail dated March 14, 2024**

Question 9) Given the unknown area, extent of repairs, material quantities, and the fact that the road may need to be graded and re-graded several times throughout the 930 days of the contract, would The Department consider changing contract item 170.001 to a unit-price pay item to cover the costs of fine grading and compacting for the detour route?

Response 9) There will be no change to the Contract items.

② Addendum No. 2, March 15, 2024

**NOTICE TO CONTRACTORS** (Continued)

**PRICE ADJUSTMENTS**

- ② 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 \$637.50 per ton, Portland cement \$425.53 per ton, diesel fuel \$3.279 per gallon, and gasoline \$2.582 per gallon, and Steel Base Price Index 436.7. MassDOT posts the **Price Adjustments** on their Highway Division's website at <https://www.mass.gov/massdot-contract-price-adjustments>

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](http://WWW.COMMBUYS.COM).

BY: Monica G. Tibbits-Nutt, Secretary and CEO, MassDOT  
Jonathan L. Gulliver, Administrator, MassDOT Highway Division  
SATURDAY, FEBRUARY 17, 2024

## DOCUMENT 00813

## SPECIAL PROVISIONS

## PRICE ADJUSTMENTS FOR STRUCTURAL STEEL AND REINFORCING STEEL

March 14, 2024

This special provision applies to all projects containing the use of structural steel and/or reinforcing steel as specified elsewhere in the Contract work. It applies to all structural steel and all reinforcing steel, as defined below, on the project. Compliance with this provision is mandatory, i.e., there are no “opt-in” or “opt-out” clauses. Price adjustments will be handled as described below and shall only apply to unfabricated reinforcing steel bars and unfabricated structural steel material, consisting of rolled shapes, plate steel, sheet piling, pipe piles, steel castings and steel forgings.

Price adjustments will be variances between Base Prices and Period Prices. Base Prices and Period Prices are defined below.

Price adjustments will only be made if the variances between Base Prices and Period Prices are 5% or more. A variance can result in the Period Price being either higher or lower than the Base Price. Once the 5% threshold has been achieved, the adjustment will apply to the full variance between the Base Price and the Period Price.

Price adjustments will be calculated by multiplying the number of pounds of unfabricated structural steel material or unfabricated reinforcing steel bars on a project by the index factor calculated as shown below under Example of a Period Price Calculation.

Price adjustments will not include guardrail panels or the costs of shop drawing preparation, handling, fabrication, coatings, transportation, storage, installation, profit, overhead, fuel costs, fuel surcharges, or other such charges not related to the cost of the unfabricated structural steel and unfabricated reinforcing steel.

The weight of steel subject to a price adjustment shall not exceed the final shipping weight of the fabricated part by more than 10%.

Base Prices and Period Prices are defined as follows:

Base Prices of unfabricated structural steel and unfabricated reinforcing steel on a project are fixed prices determined by the Department and found in the table below. While it is the intention of the Department to make this table comprehensive, some of a project’s unfabricated structural steel and/or unfabricated reinforcing steel may be inadvertently omitted. Should this occur, the Contractor shall bring the omission to the Department’s attention so that a contract alteration may be processed that adds the missing steel to the table and its price adjustments to the Contract.

The Base Price Date is the month and year of the most recent finalized period price index at the time that MassDOT opened bids for the project. The Base Price Index for this contract is the Steel PPI listed in the Notice to Contractors.

Period Prices of unfabricated structural steel and unfabricated reinforcing steel on a project are variable prices that have been calculated using the Period Price Date and an index of steel prices to adjust the Base Price.

The Period Price Date is the date the steel was delivered to the fabricator as evidenced by an official bill of lading submitted to the Department containing a description of the shipped materials, weights of the shipped materials and the date of shipment. This date is used to select the Period Price Index.

The index used for the calculation of Period Prices is the U.S. Department of Labor Bureau of Labor Statistics Producer Price Index (PPI) Series ID WPU101702 (Not Seasonally Adjusted, Group: Metals and Metal Products, Item: Semi-finished Steel Mill Products.) As this index is subject to revision for a period of up to four (4) months after its original publication, no price adjustments will be made until the index for the period is finalized, i.e., the index is no longer suffixed with a “(P)”.

Period Prices are determined as follows:

Period Price = Base Price X Index Factor

Index Factor = Period Price Index / Base Price Index

Example of a Period Price Calculation:

Calculate the Period Price for December 2009 using a Base Price from March 2009 of \$0.82/Pound for 1,000 Pounds of ASTM A709 (AASHTO M270) Grade A36 Structural Steel Plate.

The Period Price Date is December 2009. From the PPI website\*, the Period Price Index = 218.0.

The Base Price Date is March 2009. From the PPI website\*, the Base Price Index = 229.4.

Index Factor = Period Price Index / Base Price Index = 218.0 / 229.4 = 0.950

Period Price = Base Price X Index Factor = \$0.82/Pound X 0.950 = \$0.78/Pound

Since \$0.82 - \$0.78 = \$0.04 is less than 5% of \$0.82, no price adjustment is required.

If the \$0.04 difference shown above was greater than 5% of the Base Price, then the price adjustment would be 1,000 Pounds X \$0.04/Pound = \$40.00. Since the Period Price of \$0.78/Pound is less than the Base Price of \$0.82/Pound, indicating a drop in the price of steel between the bid and the delivery of material, a credit of \$40.00 would be owed to MassDOT. When the Period Price is higher than the Base Price, the price adjustment is owed to the Contractor.

\* To access the PPI website and obtain a Base Price Index or a Period Price Index, go to <http://data.bls.gov/cgi-bin/srgate>

End of example.

The Contractor will be paid for unfabricated structural steel and unfabricated reinforcing steel under the respective contract pay items for all components constructed of either structural steel or reinforced Portland cement concrete under their respective Contract Pay Items.

Price adjustments, as herein provided for, will be paid separately as follows:

Structural Steel

Pay Item Number 999.449 for positive (+) pay adjustments (payments to the Contractor)

Pay Item Number 999.457 for negative (-) pay adjustments (credits to MassDOT Highway Division)

Reinforcing Steel

Pay Item Number 999.466 for positive (+) pay adjustments (payments to the Contractor)

Pay Item Number 999.467 for negative (-) pay adjustments (credits to MassDOT Highway Division)

No price adjustment will be made for price changes after the Contract Completion Date, unless the MassDOT Highway Division has approved an extension of Contract Time for the Contract.



TABLE

Steel Type	Price per Pound	
1	ASTM A615/A615M Grade 60 (AASHTO M31 Grade 60 or 420) Reinforcing Steel	\$0.68
2	ASTM A27 (AASHTO M103) Steel Castings, H-Pile Points & Pipe Pile Shoes (See Note below.)	\$0.93
3	ASTM A668 / A668M (AASHTO M102) Steel Forgings	\$0.93
4	ASTM A108 (AASHTO M169) Steel Forgings for Shear Studs	\$0.97
5	ASTM A709/A709M Grade 36 / AASHTO M270M/M270 Grade 36 or 250 Structural Steel Plate	\$1.03
6	ASTM A709/A709M Grade 36 / AASHTO M270M/M270 Grade 36 or 250 Structural Steel Shapes	\$0.96
7	ASTM A709/A709M Grade 50 / AASHTO M270M/M270 Grade 50 or 345 Structural Steel Plate	\$1.03
8	ASTM A709/A709M Grade 50 / AASHTO M270M/M270 Grade 50 or 345 Structural Steel Shapes	\$0.96
9	ASTM A709/A709M Grade 50WT / AASHTO M270M/M270 Grade 50WT or 345WT Structural Steel Plate	\$1.07
10	ASTM A709/A709M Grade 50WT / AASHTO M270M/M270 Grade 50WT or 345WT Structural Steel Shapes	\$0.97
11	ASTM A709/A709M Grade 50W / AASHTO M270M/M270 Grade 50W 345W Structural Steel Plate	\$1.07
12	ASTM A709/A709M Grade 50W / AASHTO M270M/M270 Grade 50W or 345W Structural Steel Shapes	\$0.97
13	ASTM A709/A709M Grade HPS 50W / AASHTO M270M/M270 Grade HPS 50W or 345W Structural Steel Plate	\$1.12
14	ASTM A709/A709M Grade HPS 70W / AASHTO M270M/M270 Grade HPS 70W or 485W Structural Steel Plate	\$1.19
15	ASTM A514/A514M-05 Grade HPS 100W / AASHTO M270M/M270 Grade HPS 100W or 690W Structural Steel Plate	\$1.82
16	ASTM A992/A992M Grade 50S / AASHTO M270M/M270 Grade 50S or 345S Structural Steel Plate	\$1.07
17	ASTM A992/A992M Grade 50S / AASHTO M270M/M270 Grade 50S or 345S Structural Steel Shapes	\$0.97
18	ASTM A276 Type 316 Stainless Steel	\$5.43
19	ASTM A240 Type 316 Stainless Steel	\$5.43
20	ASTM A148 Grade 80/50 Steel Castings (See Note below.)	\$1.87
21	ASTM A53 Grade B Structural Steel Pipe	\$1.20
22	ASTM A500 Grades A, B, 36 & 50 Structural Steel Pipe	\$1.20
23	ASTM A252, Grades 240 (36 KSI) & 414 (60 KSI) Pipe Pile	\$0.95
24	ASTM 252, Grade 2 Permanent Steel Casing	\$0.95
25	ASTM A36 (AASHTO M183) for H-piles, steel supports and sign supports	\$1.02
26	ASTM A328 / A328M, Grade 50 (AASHTO M202) Steel Sheetpiling	\$1.79
27	ASTM A572 / A572M, Grade 50 Sheetpiling	\$1.79
28	ASTM A36/36M, Grade 50	\$1.03
29	ASTM A570, Grade 50	\$1.02
30	ASTM A572 (AASHTO M223), Grade 50 H-Piles	\$1.03
31	ASTM A1085 Grade A (50 KSI) Steel Hollow Structural Sections (HSS), heat-treated per ASTM A1085 Supplement S1	\$1.20
32	AREA 140 LB Rail and Track Accessories	\$0.61

**NOTE:** Steel Castings are generally used only on moveable bridges. Cast iron frames, grates and pipe are not "steel" castings and will not be considered for price adjustments.

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② Addendum No. 2, March 15, 2024

**ITEM 698.4****GEOTEXTILE FABRIC FOR  
PERMANENT EROSION CONTROL****SQUARE YARD**

The work under this Item shall conform to all relevant provisions of Subsections 260 and 670 of the Standard Specifications and the following:

The Work under this Item consists of furnishing and placing geotextile fabric for permanent erosion control at the locations and grades shown on the Plans or as required by the Engineer.

**MATERIALS**

- ② Geotextile Fabric for Permanent Erosion Control shall be selected from the MassDOT Qualified Construction Materials List and shall conform to Subsection M9.50.0 of the Standard Specification, with property requirements per Table 5.

**SUBMITTALS**

The Contractor shall submit the following to the Engineer for approval:

Certificate stating the manufacturer, product name, style number, chemical composition of the filaments and other pertinent information to fully describe the geotextiles.

Test results that show the geotextile meets the requirements of Material Subsection M9.50.0 and of the Standard Specifications and AASHTO M 288.

**CONSTRUCTION METHODS**

Geotextile for Permanent Erosion Control shall be installed according to the manufacturer's instructions and in reasonable close conformity with the location, lines and grades indicated on the Plans.

Overlapped seams at roll ends shall be a minimum of 1 foot except if placed under water. In such instances the overlap shall be a minimum of 3 feet. Overlaps of adjacent rolls shall be a minimum of 1 foot in all instances.

Any section of fabric that is damaged shall be repaired in accordance with the Manufacturer's requirements and AASHTO M 288 and to the acceptance of the Engineer or it shall be replaced at the cost of the Contractor.

**METHOD OF MEASUREMENT**

Item 698.4 will be measured for payment by the SQUARE YARD of Geotextile Fabric For Permanent Erosion Control furnished and installed, complete in place.

Seam overlap and joints will be measured as one layer of fabric. Any embedment or wrapping at the toe or top of the slope will be measured for payment.

**BASIS OF PAYMENT**

Item 698.4 will be paid for at the Contract unit price per SQUARE YARD, which price shall include all labor, materials, equipment, sewing, vertical edges, overlapping, and all incidental costs required to complete the work.

② Addendum No. 2, March 15, 2024

**ITEMS 945.10, 948.60, and 948.61** (Continued)

②

The Contractor shall anticipate encountering flowing artesian conditions as noted herein and shall utilize equipment and methods necessary to successfully install micropiles in a way that eliminates impact from artesian conditions. Any lost production or installation of replacement piles, as required due to the artesian conditions, shall not be measured or paid for separately. Costs associated with remedial measures that are required to install the micropiles in artesian conditions are considered incidental to the work and will not be measured or paid for separately, and all costs in connection therewith shall be included in the Contract. Any costs associated with the presence of obstructions shall be considered incidental to the Drilled Micropiles Items.

Drilling tools that are lost during the drilling shall not be considered obstructions and shall be promptly removed by the Contractor without compensation. If removal will degrade the hole, the hole shall be abandoned with a new hole located by the Engineer. All costs due to lost tool removal, drilling a new hole and filling the abandoned hole shall be borne by the Contractor.

Micropile Verification Load Test and Micropile Proof Load Test shall be paid at the Contract unit price per EACH completed and accepted test, for which payment shall be considered complete compensation for providing all design, materials, labor, equipment, load test report, and incidentals to complete the work including the installation and materials of the test pile and reaction piles, if used. This payment shall also include full compensation for cutting the pile to the elevation necessary to properly incorporate the pile in the structure. If a pile is not to be incorporate in the structure, this payment item includes cutting the pile to the grade necessary to avoid its interference with the proposed construction. Payment for Micropile Verification Load Tests shall also include full compensation for installing the test pile. Micropiles installed as test piles for Proof Load Tests, if incorporated in the final structures, the length of pile installed in place shall be paid for at Contract unit price of Drilled Micropiles.