



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



July 21, 2025

Proposal No. 613216-130745

ADDENDUM NO. 3

To Prospective Bidders and Others on:

MARLBOROUGH
Bridge Preservation, M-06-010, Elm Street over I-495

THIS PROPOSAL TO BE OPENED AND READ: TUESDAY, JULY 29, 2025 at 2:00 P.M.

Transmitting changes to the Contract Documents as follows:

<u>QUESTIONS AND RESPONSES:</u>	2 pages.
<u>DOCUMENT A00801:</u>	Revised page 80. Inserted new pages 80.A through 80.D.
<u>DOCUMENT B00420:</u>	Revised pages 8 and 9.

Take note of the above, substitute the revised pages for the originals, insert new pages in proper order, and acknowledge Addendum No. 3 in your Expedite Proposal file before submitting your proposal.

Sincerely,

for

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

EMC/ha
cc: Genesis PozDiaz, Project Manager

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MARLBOROUGH
Bridge Preservation, M-06-010, Elm Street over I-495
(613216-130745)

QUESTIONS AND RESPONSES

ADDENDUM NO. 3, JULY 21, 2025

John Rocchio Corp., email dated July 10, 2025

Question #1:

Is there a DBE/ WBE goal for this project?

Response #1:

This question will be addressed in a later addendum.

J.F. White Contracting., email dated July 18, 2025

Question #18:

Referencing Special Provisions, page A00801-78 Cementitious Mortar For Patching indicates “The work under this item consists of furnishing and placing a cementitious, fast setting, trowel grade patching mortar for shallow depth (2” or less inches in depth) repairs of delaminated or deteriorated and/or unsound concrete surfaces at the substructures, sidewalk and as required by the Engineer.” Patching the sidewalks should be a very accessible, full shift straight forward item, whereas Patching the substructure will require working from I-495 off of manlifts with a limited productive work window, as well we have no way of determining what portion of the Bid Quantity is sidewalk and what portion is substructure. Considering the rather extreme difference could this Item be broken into (2) Items Cementitious Mortar For Patching Sidewalks and Cementitious Mortar For Patching Substructure?

Response #18:

Substructure repairs are not included in the scope of this Contract.

Question #19:

How are local and state police officer details compensated?

Response #19:

On a reimbursable basis, payment to the Contractor will be processed after the associated invoices have been paid.

Question #20:

Referencing Addendum No. 2, the answer to Question #14 indicates “An additional item, 909.5, has been included to cover any required maintenance repairs.” I do not see this Item added within Addendum No. 2 or BidEx. Will this Item be added so that we can see how it is defined, LS, Manhours, CY, etc.?

Response #20:

Item 909.5 has been added in this addendum. See attached revised proposal, pages B00420 – 8 and 9. See attached revised Special Provisions, pages A00801 – 80.A through 80.C.

MARLBOROUGH
Bridge Preservation, M-06-010, Elm Street over I-495
(613216-130745)

QUESTIONS AND RESPONSES

ADDENDUM NO. 3, JULY 21, 2025

J.F. White Contracting., email dated July 18, 2025 (Continued)

Question #21:

Referencing Addendum No. 2, answer to Question #6 within the documents referenced I cannot find the depth that constitutes a Partial Depth Repair and a Full Depth deck Repair. See attached District 1 "Deck Slab Repair Notes" page 2, No. 1 & 2 clouded. Is the depth of Partial & Full Depth Repairs to be per these guidelines: Partial Depth being up to 50% of the thickness of the deck and Full Depth being equal to or greater than one-half (1/2) the thickness of the deck slab? If so, do we determine the 50% or one-half (1/2) the thickness for the existing 9" slab or do we determine the deck thickness to be 7 5/8" slab which exists after scarifying to remove the top 1 3/8" of the cement concrete deck, which is done prior to the Partial & Full depth Repairs?

Response #21:

For partial-depth deck repairs, both excavation and replacement (concrete placement) will be measured and paid based on the actual volume of material removed or replaced. Full-depth excavation will involve removing the entire section of the deck down to its full depth as required or directed by the Engineer. This work will also include all of the necessary work to prepare and form the bottom to support the placement of new concrete.

Question #22:

Referencing Drawing Sheets 5 & 7 of 25, the concrete areas shown to be excavated under Item 127.1 include areas that will need to be excavated from the deck surface and areas that will need to be excavated from I-495. We can discern from the drawing which portions need to be done from the deck and which portions need to be done from I-495. All Deck Excavation Items 127.4 Full Depth Deck & 127.41 Partial Depth Deck will be completed from the Deck surface. Per a site visit it was observed that the concrete encased diaphragm beams had significant deterioration at the bottom right side (as shown on 5 & 7 of 25). If these areas or any other areas (as directed by the Engineer) on the substructure are to be chipped/excavated from I-495 where will this be paid for under an existing Item or T&M? For example If it is to be paid for under Item 127.1 and at this point we have no concept of the quantity, this could significantly impact the cost we Bid for Item 127.1 considering working from I-495 contains more logistics and a limited work window. Can a separate Item be added for Reinforced Concrete Excavation of Substructure?

Response #22:

The excavation limits for item 127.1 at the joints shall be as indicated on the drawings. Any additional excavation directed by the Engineer (e.g., diaphragm excavation) directed by the Engineer will be compensated under Base Labor (item 100.1) and the applicable non-bid items.

③ Addendum No. 3, July 21, 2025

ITEM 909.2

The manufacturer's field representative must be fully qualified to instruct artisans or perform the work and shall be subject to the approval of the Engineer.

The Contractor shall be completely responsible for the expense and services of the required field representative, and the bid contract price shall be full compensation for all cost in connection therewith.

Method of Measurement

Item 909.2 will be measured for payment by the Square Foot of patch area, complete in place.

Basis of Payment

Item 909.2 will be paid for at the contract unit price per Square Foot. This price shall include all labor, materials, equipment, manufacturer's field representative, and all incidental costs required to complete the work.

③

Addendum No. 3, July 21, 2025

ITEM 909.5**RAPID SETTING CONCRETE****CUBIC YARD**

The work under this item shall conform to the relevant Provisions of Subsection 901 of the Standard Specifications and the following:

The work under this Item shall consist of furnishing and placing rapid setting cementitious material that is suitable to repair concrete and pavement surfaces on bridges as directed by the Engineer.

The rapid setting cementitious product shall be qualified rapid set material that shall have completed testing through AASHTO's National Transportation Program (AASHTO Product Evaluation & Audit Solutions) and is included on the MassDOT Qualified Construction Material List.

The rapid setting cementitious material shall be expanded with aggregate for placements that are (2") inches or more in depth and must be formulated to develop a minimum compressive strength of 2000 PSI within two (2) hours.

The product shall be expanded using clean non-reactive aggregates from a MassDOT approved source according to a formulation acceptable to the manufacturer and submit certified test reports showing the aggregate is non-reactive. Aggregate specified, labeled and furnished by the rapid set patching material manufacturer may be used with approval of the Engineer. The mixing process for expanding the rapid setting patching material shall be performed per the Manufacturer's recommendations.

The Contractor will be required to cast twelve (12) cylinders from trial batch for compressive strength testing, in accordance with AASHTO T 22. The trial batch production shall use the same materials and processes as those to be used to produce the rapid setting patching material for the contract and follow AASHTO R 100.

Trial batching shall be conducted in the presence of the Engineer. The concrete cylinders shall be cast by a certified technician for testing at an independent laboratory approved by MassDOT. Acceptance shall be based on the average compressive strength of three (3) cylinder breaks. The cylinders shall be tested at two (2) hours and seven (7) days. The minimum average compressive strength of the specimens (including 20% overdesign requirement) shall be 2400 PSI at two (2) hours and 5000 psi at seven (7) days. Two sets of three (3) cylinders shall be reserved for quality assurance testing by MassDOT Research and Material Section. The contractor shall coordinate delivery of the concrete cylinders to a MassDOT facility so that they may be tested for compressive strength at two hours. No cylinders shall be handled or transported until they have cured for a minimum of 1 hour.

Retesting through trial batching will be required if the rapid setting cementitious product, aggregate source or the process to produce the patching material changes.

The Contractor shall give the Engineer a 10-day minimum advance notification of trial batch production.

Addendum No. 3, July 21, 2025

ITEM 909.5 (Continued)**CONSTRUCTION METHOD:**

All concrete surfaces shall be prepared in accordance with PREPARATION OF CONCRETE SURFACES.

The ambient temperature must be 35 degrees F and rising for placement of the rapid set repair material. Placement of this material when the temperature is below 35 degrees F will require the following:

1. Heating the mixing water.
2. Heating the aggregate.
3. Using warm cement.
4. Pre-heating the excavated area to be patched using a method approved by the Engineer.
5. Protecting the mixture from freezing after placement (using a method approved by the Engineer) until after hydration takes place.

The rapid setting repair material shall be cured and protected until the minimum compressive strength is achieved.

It is understood that the cold weather steps listed above come at an additional cost to the Contractor. When temperatures during the repair of a bridge deck will generally be less than 35 degrees F during mixing, placement, and hydration an additional 10% will be added to the measured repair quantity to compensate the Contractor for this additional work.

The Contractor shall be required to mix and place the cement by using an eight (8) cubic foot minimum rubber-blade mobile mixer. Two (2) mixers will be required to be on site, of which one mixer can be used as a back-up. Sufficient mixing and placing equipment shall be provided on the construction site by the Contractor to ensure that a breakdown of equipment will not cause significant delays in completing the scheduled work in the shift.

Approval by the Engineer of all formwork shall be required prior to placement of any concrete.

The Engineer may require the Contractor to vibrate and/or power screed the patched area. Payment for such equipment shall be considered incidental to this Item.

Rapid setting concrete placements shall be completed no later than 2:00 AM for nighttime operations so that the required compressive strength of 2000 PSI is attained before the area is opened to traffic no later than 5:00 A.M.

Formwork shall be maintained and remain in place a minimum of seventy- two (72) hours after placement. All formwork placed under this contract must be removed no later than forty-five (45) days after it was initially placed. Failure to remove said formwork within forty-five (45) days may result in its removal by others with the associated costs being assessed to the Contractor.

Addendum No. 3, July 21, 2025

ITEM 909.5 (Continued)**METHOD OF MEASUREMENT**

Item 909.5 will be measured for payment by the Cubic Yard of Rapid Setting Concrete furnished and installed, complete in place.

BASIS OF PAYMENT

Item 909.5 will be paid at the Contract unit price per Cubic Yard, which price shall include all labor, materials, tools, equipment, trial batching, testing, and all incidental costs required to complete the work, as required by the Engineer.

Any required trial batching and acceptance testing including the cost associated with hiring certified technician shall also be considered incidental to this Item.

Where formwork is installed for concrete placement, payment of seventy percent (70%) of the Cubic Yard price of this item will be made upon complete concrete installation.

The remaining thirty (30%) of the Cubic Yard price of this Item will be paid only after complete form work is removed by the Contractor.

Addendum No. 3, July 21, 2025

ITEM 912. **DRILLING AND GROUTING DOWELS** **EACH**

The work under this Item shall conform to the relevant provisions of Subsection 901 of the Standard Specifications and the following:

The work includes drilling holes, furnishing, installing, and grouting steel dowel reinforcement at the locations shown on the drawings and as required by the Engineer.

The dowel embedment must be adequate to fully develop 125% of the yield strength of the bar.

The embedment length, the method and equipment used to drill the dowel holes, and the diameter of the drilled hole shall at a minimum conform to the recommendations of the manufacturer and be submitted to the Engineer for approval.

MATERIALS

The grout to be used for these dowels shall be selected from the MassDOT Qualified Construction Materials List for its specific application.

Reinforcing steel dowels shall meet the requirements of AASHTO M31 Grade 60. All reinforcing steel dowels shall be epoxy coated in accordance with ASTM A775. Reinforcing steel dowels shall be incidental to the work under this Item.

Reinforcing Steel Manufacturer shall be listed on the QCML

Project # 613216		Contract # 130745		
Location : MARLBOROUGH				
Description : Bridge Preservation, M-06-010, Elm Street Over I-495				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
867.706	1,800	6 INCH YELLOW LINE WITH BLACK CONTRAST - RECESSED (PF, WR) AT _____ PER FOOT		
905.	79	4000 PSI, 3/8 INCH, 660 CEMENT CONCRETE AT _____ PER CUBIC YARD		
907.1	700	BRIDGE DECK RIDEABILITY AND GROOVING AT _____ PER SQUARE YARD		
909.2	40	CEMENTITIOUS MORTAR FOR PATCHING AT _____ PER SQUARE FOOT		
909.5	8	RAPID SETTING CONCRETE AT _____ PER CUBIC YARD		
910.1	8,000	STEEL REINFORCEMENT FOR STRUCTURES - EPOXY COATED AT _____ PER POUND		
912.	80	DRILLING AND GROUTING DOWELS AT _____ EACH		
964.60	700	PENETRATING SEALER FOR EXPOSED DECK AT _____ PER SQUARE YARD		
973.2	85	PRE-COMPRESSED JOINT SEAL AT _____ PER FOOT		

Project # 613216		Contract # 130745		
Location : MARLBOROUGH				
Description : Bridge Preservation, M-06-010, Elm Street Over I-495				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
994.1	4,900	TEMPORARY PROTECTIVE SHIELDING AT _____ PER SQUARE FOOT		
994.12	2,500	TEMPORARY PROTECTIVE SHIELDING REMOVED AND RESET AT _____ PER SQUARE FOOT		
Total Qty:		50,480		