



Charles D. Baker, Governor  
Karyn E. Polito, Lieutenant Governor  
Stephanie Pollack, Secretary & CEO  
Jonathan L. Gulliver, Highway Administrator



April 25, 2018

605384-102272

ADDENDUM NO. 2

To Prospective Bidders and Others on:

**TUESDAY MAY 1, 2018 at 2:00 P.M.\*\***

**AGAWAM-WEST SPRINGFIELD**

**Federal Aid Project Nos. NHP(BR-ON)-003S(070) & STP(BR-ON)-003S(070)  
Bridge Replacement Br. No. A-05-002=W-21-014 (Steel)  
Route 147 (Memorial Avenue) over the Westfield River and  
Intersection Improvements (Including Signals) at 3 Locations along Route 147**

OPENING OF BIDS POSTPONED TO: TUESDAY, MAY 22, 2018 AT 2:00 P.M.

Transmitting revisions to the Contract Documents as follows:

<u>COVER PAGE:</u>	Revised cover pages volume 1, volume 2, and volume 3.
<u>DOCUMENT 00104:</u>	Revised pages 1 and 2.
<u>DOCUMENT A00801:</u>	Revised pages 5 and 276.

Take note of the above, substitute the revised pages for the originals, and acknowledge Addendum No. 2 in your Expedite Proposal file before submitting your bid.

Very truly yours,

Frank Kucharski, P.E.  
Construction Contracts Engineer

SP  
c: Alwin Ramirez Project Manager

Ten Park Plaza, Suite 4160, Boston, MA 02116  
Tel: 857-368-4636, TTY: 857-368-0655  
[www.mass.gov/massdot](http://www.mass.gov/massdot)

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**VOLUME 1 OF 3**

COMMONWEALTH OF MASSACHUSETTS




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# CONTRACT DOCUMENTS AND SPECIAL PROVISIONS

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PROPOSAL NO.	605384-102272
P.V. =	\$26,241,000.00
PLANS	YES

FOR

**Federal Aid Project Nos. NHP(BR-ON)-003S(070) & STP(BR-ON)-003S(070)  
Bridge Replacement Br. No. A-05-002=W-21-014 (Steel)  
Route 147 (Memorial Avenue) over the Westfield River and  
Intersection Improvements (Including Signals) at 3 Locations along Route 147**

**in the Municipalities of**

**AGAWAM-WEST SPRINGFIELD**

In accordance with the 1988 English Edition of the STANDARD SPECIFICATIONS  
For HIGHWAYS and BRIDGES and the Supplemental Specifications dated July 1, 2015

② This Proposal to be opened and read:

**TUESDAY, MAY 22, 2018 @ 2:00 P.M.**

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**VOLUME 2 OF 3**

COMMONWEALTH OF MASSACHUSETTS




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**CONTRACT DOCUMENTS  
AND SPECIAL PROVISIONS**

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# CONTRACT DOCUMENTS AND SPECIAL PROVISIONS

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② Addendum No. 2, April 25, 2018

DOCUMENT 00104

**NOTICE TO CONTRACTORS**

Electronic proposals for the following project will be received through the internet using Bid Express until the date and time stated below and will be posted on [www.bidx.com](http://www.bidx.com) forthwith after the bid submission deadline. No paper copies of bids will be accepted. All Bidders must have a valid Digital ID issued by MassDOT in order to bid on projects. Bidders need to apply for a Digital ID at least 14 days prior to a scheduled bid opening date with Bid Express.

② **TUESDAY MAY 22, 2018 at 2:00 P.M.\*\*****AGAWAM-WEST SPRINGFIELD**

**Federal Aid Project Nos. NHP(BR-ON)-003S(070) & STP(BR-ON)-003S(070)  
Bridge Replacement Br. No. A-05-002=W-21-014 (Steel)  
Route 147 (Memorial Avenue) over the Westfield River and  
Intersection Improvements (Including Signals) at 3 Locations along Route 147**

**\*\*Date Subject to Change**PROJECT VALUE = \$26,214,000.00

Bidders must be pre-qualified by the Department in the BRIDGE-CONSTRUCTION categories to bid on the above project. An award will not be made to a Contractor who is not pre-qualified by the Department prior to the opening of Proposals.

All prospective Bidders who intend to bid on this project must obtain “Request for Official Proposal Form (R109)”. The blank “Request for Official Proposal Form (R109)” can be obtained at:

<http://www.massdot.state.ma.us/highway/Departments/PrequalificationofHorizontalConstructionFirms.aspx>

Select the link “Request for Official Proposal Form (R-109 Form)”.

All prospective Bidders must complete and e-mail an electronic copy of “Request for Official Proposal Form (R109)” to the MassDOT Director of Prequalification for approval: [prequal.r109@state.ma.us](mailto:prequal.r109@state.ma.us).

Proposal documents for official bidders are posted on [www.bidx.com](http://www.bidx.com). Other interested parties may receive an informational copy of the Compact Disc (CD) containing the Plans and Specifications, free of charge.

Bids will be considered, and the contract awarded in accordance with statutes governing such contracts Massachusetts General Laws Chapter 30 § 39M.

All parties who wish to have the CDs mailed to them must provide a completed mailing label with an approved carrier account number for mail service (i.e. – Federal Express, UPS, etc) to the Bid Document Distribution Center.

② Addendum No. 2, April 25, 2018

**NOTICE TO CONTRACTORS** (Continued)

Bid Document Distribution Center  
MassDOT Highway Division  
10 Park Plaza - Suite 6260  
Boston, MA 02116  
Attn: Frank Kucharski, P. E., Construction Contracts Engineer

A Proposal Guaranty in the amount of 5% of the value of the bid is required.

This project is subject to the schedule of prevailing wage rates as determined by the Commissioner of the Massachusetts Department of Labor and Workforce Development, and the Division of Occupational Safety and United States Department of Labor.

Plans will be on display and information will be available at the MassDOT Boston Office and at the District Office in NORTHAMPTON.

The Department, in compliance with Title 49 Code of Federal Regulations Part 21 (NONDISCRIMINATION IN FEDERALLY-ASSISTED PROGRAMS OF THE DEPARTMENT OF TRANSPORTATION - EFFECTUATION OF TITLE VI OF THE CIVIL RIGHTS ACT OF 1964), hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement that minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on grounds of race, color, or national origin in consideration for an award.

This Proposal contains the "STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY CONTRACT SPECIFICATIONS (EXECUTIVE ORDER 11246)". The goals and timetables applicable to this proposal for minority and female participation, expressed in percentage terms for the Contractor's aggregate work force in each trade on all work, are contained in Appendices A and B of the above Specifications.

**PRICE ADJUSTMENTS**

- ② This Contract contains price adjustments for hot mix asphalt, and Portland cement mixtures, diesel fuel, and gasoline. For this project the base prices are as follows: liquid asphalt \$457.50 per ton, Portland cement \$122.89 per ton, diesel fuel \$2.404 per gallon, and gasoline 2.142 per gallon. MassDOT posts the **Price Adjustments** on their Highway Division's website at <https://www.mass.gov/topics/highway-construction-resources>

② Addendum No. 2, April 25, 2018

**WORK SCHEDULE**

The work on this project is allowed to be done between 7:00 am to 5:30 pm, Monday through Friday and Saturdays 7:00am to 3:30pm, with the Prime Contractor and all Subcontractors working on the same shift.

Work at night will be allowed with the prior written permission and approval of the Engineer between 10:00 pm and 5:00 am.

Any additional modifications to these proposed work hours are subject to the written approval of the Engineer.

Contractor shall schedule full-shutdown of all construction activities during all Eastern States Exposition (aka. The Big E) special events/fairs.

- ② The dates of the Big E event through 2022 are as follows and no-work will be allowed during these dates:

September 14 to September 30, 2018

September 13 to September 29, 2019

September 18 to October 4, 2020

September 17 to October 3, 2021

September 16 to October 2, 2022

The event starts the second Friday after Labor Day and runs for 17 days.

Bidders are advised that the duration of work for this contract was developed with the inclusion of various items of work continuing through the winter months. For cold weather construction requirements please refer to the Standard Specifications.

**PROVISIONS FOR TRAVEL AND PROSECUTION OF WORK**

Prior to commencement of work, the Contractor shall submit Temporary Traffic Control Plan (TTCP) operations, schedule of operations and construction activities to the Engineer for review and approval. Work on roadways shall proceed only on such sections and widths thereof as will be approved by the Engineer.

The Contractor shall notify the Engineer in writing one (1) week in advance of any proposed short-term temporary roadway closures necessary to complete the work. Work hours for these activities will be restricted to low-volume time periods. The time periods may take place during weekends or overnight, and shall be reflected in the Contractor's Schedule of Operations.

The Contractor's personnel and equipment shall be well off the traveled way and shoulders. Under no circumstance should a Contractor close a travel lane or in any way affect traffic outside the specified work hours. All travel lanes of the roadway must be fully open to traffic prior to the start and after the end of the approved work schedule. In no case will operations commence prior to specified work hours. This includes traffic set-ups that restrict the flow of traffic.

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**PROVISIONS FOR TRAVEL AND PROSECUTION OF WORK** (Continued)

All sidewalks shall be safe and open to pedestrians by the end of each work shift of the approved work hours. Temporary wheelchair ramps may be needed to maintain access at driveways and intersections.

The Contractor shall close off the bridge construction area completely by using temporary chain-link fence. The fence shall have gates to permit the Contractor's personnel and equipment access to the site.

At the end of each work day, the Contractor shall verify that no openings in the fence are present, and that all gates are chained and padlocked.

The Contractor shall schedule and conduct their construction operations conforming to the conditions of the Levee Protection Plan for all work at, or in the vicinity of, the West Springfield Levee System located at the south limits of the Big E property, and at the north abutment of the project bridge site.

The Contractor shall serve written notice to all abutters one week in advance of any reconstruction work adjacent to their property, and during such time that construction is in progress, provide safe access to the abutting properties. The Contractor shall schedule his operations to minimize interruption to the normal flow of traffic at all times.

**COORDINATION WITH PIONEER VALLEY TRANSIT AUTHORITY (PVTA)**

The Contractor shall notify Pioneer Valley Transportation Authority (PVTA) at least 30 days in advance of work in the vicinity of any existing PVTA bus stop within the limits of work.

Pioneer Valley Transportation Authority (PVTA) will be responsible for labor, materials, equipment, for layout, excavation, grading, installation of the new concrete foundation, installation of the new bus shelter complete in place, and all incidental costs required to complete the work.

Upon complete installation and acceptance by the Engineer the new bus shelter installed by the PVTA, the Department will pay the Contractor for all PVTA construction activities. Within three weeks from the issuance of payment by the Department for PVTA costs, the Contractor shall submit proof that payment has been made to the PVTA. Failure of the Contractor to provide proof of payment within the three week period will result in the following: (a) the removal of the prior payment from the subsequent estimate; and (b) all future payments will be made on a reimbursement basis, based upon the receipt of a cancelled check.

**SUBSECTION 4.04 CHANGED CONDITIONS.**

This Subsection is revised by deleting the two sequential paragraphs near the end that begin “The Contractor shall be estopped...” and “Any unit item price determined ...” (1/6/2006).

**ITEM 995.01** (Continued)**Coating Thickness**

Apply the shop and field coats to the dry film thicknesses as specified.

1. Determine the cumulative dry film thickness of each coat using a magnetic dry film thickness gage in accordance with SSPC-CS 23 and SSPC-PA 2 with the following exceptions:
  - a. Take readings on each 100 square-foot increment of the surface.
  - b. The minimum specified thickness of the TSC must be achieved at each individual spot measurement location (i.e., the 20 percent under run allowed by SSPC-PA 2 is not permitted for the metalizing).
2. If the thickness of any coat (TSC, seal coat, intermediate coat or top coat) is less than specified, apply additional material in accordance with the manufacturer's instructions and this Section before applying the next coat. Before applying additional TSC, visually confirm that there is no evidence of oxidation on the surface.

**Access for MassDOT - Highway Inspection**

Provide safe access and time for MassDOT - Highway inspections for any and all phases of the work, including but not limited to surface preparation, the application of each coat (including field coat), and for an inspection of the completed system.

**Quality Control Documentation**

Copies of Quality Control daily inspection and testing documents will be provided to the MassDOT – Highway Representative within 24 hours.

**MEMBRANE WATERPROOFING FOR BRIDGE DECKS (SPRAY APPLIED)**

The work under this heading shall conform to applicable sections of Section 965 of the Standard Specifications and the following:

The work to be performed shall consist of the furnishing and application of an approved cold liquid spray applied, seamless methyl methacrylate or polyurea membrane system and all concrete surface preparation work necessary to install the membrane system. The membrane system shall consist of the primer, the membrane, aggregated keycoat layer, and polymer modified tack coat.

The traffic island at the southwest corner of the bridge (within the limits of Stage I bridge construction) is to be constructed after completion of Stage II bridge construction. During Stage I, the membrane waterproofing shall not be applied to the bridge deck below the final location of the traffic island and paved over. After completion of Stage II the wearing surface within the limits of the traffic island shall be excavated. After construction of the traffic island the membrane waterproofing shall be installed to the final condition as shown on the proposed bridge plans.

② Addendum No. 2, April 25, 2018

**ITEM 995.01** (Continued)

Membrane waterproofing application shall be in accordance with the manufacturer's instructions. The Manufacturer's representative shall be present during the entire application and shall oversee surface preparation, installation and quality control testing. The handling, mixing, and addition of membrane components shall be performed in a safe manner to achieve the desired results in accordance with the Manufacturer's recommendations. All open flames and spark producing equipment shall be removed from the work area prior to commencement of application in accordance with the Manufacturer's recommendations. No smoking signs shall be posted at the entrances to the work. The Applicator shall be responsible for the protection of equipment and adjacent areas from overspray or other contamination.

Product approval shall require the demonstration, by the Manufacturer, that the membrane system meets the material specifications and that the entire membrane system is designed and tested as waterproofing for use on bridge deck applications. The Contractor and the Applicator shall agree upon a schedule for coordination between trades working in the areas that are to receive the membrane waterproofing system.

**Submittals**

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

## 1. Initial submission:

- a. The membrane system material specifications including product performance data.
- b. Certified independent test reports demonstrating conformance to Table 965.2-1.
  - i. The independent lab shall be recognized by the National Cooperation for Laboratory Accreditation (NACLA.) in Construction Materials Engineering and Testing (CMET) or an equal program approved by the Engineer.
    - All testing shall be performed by one independent lab unless approved by the Engineer.
  - ii. Independent testing reports must be dated within two (2) years from the anticipated start of membrane installation.
    - Samples for all required testing shall be fabricated at the same time. Test reports shall denote the lot of material as well as the sample fabrication and testing dates.
- c. Safety data sheets (SDS) for all components.
- d. MassDOT shall perform prequalification testing on the membrane.
- e. Two (2) 10 inch by 10 inch square samples of the proposed membrane with smooth surfaces (no primer or aggregate in the keycoat) shall be provided to the Engineer. The samples shall be a minimum of 80 mils thick or the thickness used to pass the crack bridging requirement found in table 965.2-1.

## 2. At the pre-application meeting:

- a. Manufacturer's written approval of the Applicator's qualifications
- b. List of personnel performing the installation and the Manufacturer's representative performing the inspection and testing.
- c. Installation procedure including storage and protection instructions as well as handling and mixing instructions.
- d. List of application equipment to be used.
- e. Manufacturer's written approval of the proposed polymer modified tack coat and the application rate that it shall be applied at.