



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



May 11, 2018

605384-102272

ADDENDUM NO. 4

To Prospective Bidders and Others on:

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**

BIDS TO BE OPENED AND READ: TUESDAY, MAY 22, 2018 AT 2:00 P.M.  
Transmitting revisions to the Contract Documents as follows:

COVER PAGE: Revised cover pages volume 1, volume 2, and volume 3.

DOCUMENT 00104: Revised pages 1 and 2.

DOCUMENT 00813: Deleted document in its entirety and inserted new document (4 pages).

**NOTE:** Regarding project value and bid amount submitted, official bidders are to review their Prequalification Certificate single contract limit in the class of work and their single contract bond limit regarding the need for a Prequalification waiver request.

Take note of the above, substitute the revised pages for the originals, delete document indicated, insert new document in proper order, and acknowledge Addendum No. 4 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)

THIS PAGE INTENTIONALLY LEFT BLANK

**VOLUME 1 OF 3**

COMMONWEALTH OF MASSACHUSETTS




---

# CONTRACT DOCUMENTS AND SPECIAL PROVISIONS

---

PROPOSAL NO.	605384-102272
P.V. =	\$28,620,000.00
PLANS	YES

④

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.**

THIS PAGE IS INTENTIONALLY LEFT BLANK

**VOLUME 2 OF 3**

COMMONWEALTH OF MASSACHUSETTS




---

# CONTRACT DOCUMENTS AND SPECIAL PROVISIONS

---

PROPOSAL NO.	605384-102272
P.V. =	\$28,620,000.00
PLANS	YES

④

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.**

THIS PAGE IS INTENTIONALLY LEFT BLANK

**VOLUME 3 OF 3**

COMMONWEALTH OF MASSACHUSETTS




---

# CONTRACT DOCUMENTS AND SPECIAL PROVISIONS

---

PROPOSAL NO.	605384-102272
P.V. =	\$28,620,000.00
PLANS	YES

④

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.**

THIS PAGE IS INTENTIONALLY LEFT BLANK



DOCUMENT 00104

④ Addendum No. 4, May 11, 2018

② Addendum No. 2, April 25, 2018

**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**④ PROJECT VALUE = \$28,620,000.00

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.

**NOTICE TO CONTRACTORS** (Continued)

④ Addendum No. 4, May 11, 2018

② Addendum No. 2, April 25, 2018

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**

- ④ 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 \$477.50 per ton, Portland cement \$123.62 per ton, diesel fuel \$2.380 per gallon, and gasoline 2.156 per gallon. MassDOT posts the **Price Adjustments** on their Highway Division's website at <https://www.mass.gov/topics/highway-construction-resources>

## DOCUMENT 00813

## SPECIAL PROVISIONS

## PRICE ADJUSTMENTS FOR STRUCTURAL STEEL AND REINFORCING STEEL

May 1, 2018

This provision applies to projects containing a price adjustment for structural steel and reinforcing steel as stipulated herein. It applies to all structural steel as defined below and all reinforcing steel 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 structural steel material, consisting of rolled shapes, plate steel, sheet piling, pipe piles, steel castings and steel forgings, and unfabricated reinforcing steel bars.

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 subject to a price adjustment by the index factor calculated as shown below under Example of a Period Price Calculation.

Price adjustments will *not* include 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.

The Base Price Date is the month and year in which MassDOT opened bids for the project. This date is used to select the Base Price Index.

*Period Prices* of unfabricated structural steel and unfabricated reinforcing steel on a project are variable prices calculated based on the purchase date of the steel (Period Price Date) using 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. Bureau of Labor Statistics (BLS) 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	Price per Kilogram
ASTM A615/A615M Grade 60 (AASHTO M31 Grade 420) Reinforcing Steel	\$0.35	\$0.78
ASTM A27 (AASHTO M103) Steel Castings, H-Pile Points & Pipe Pile Shoes (See Note below.)	\$0.48	\$1.05
ASTM A668 / A668M (AASHTO M102) Steel Forgings	\$0.48	\$1.05
ASTM A108 (AASHTO M169) Steel Forgings for Shear Studs	\$0.53	\$1.17
ASTM A709/A709M Grade 36 / AASHTO M270M/M270 Grade 250 Structural Steel Plate	\$0.58	\$1.27
ASTM A709/A709M Grade 36 / AASHTO M270M/M270 Grade 250 Structural Steel Shapes	\$0.41	\$0.90
ASTM A709/A709M Grade 50 / AASHTO M270M/M270 Grade 345 Structural Steel Plate	\$0.51	\$1.12
ASTM A709/A709M Grade 50 / AASHTO M270M/M270 Grade 345 Structural Steel Shapes	\$0.41	\$0.90
ASTM A709/A709M Grade 50WT / AASHTO M270M/M270 Grade 345WT Structural Steel Plate	\$0.60	\$1.32
ASTM A709/A709M Grade 50WT / AASHTO M270M/M270 Grade 345WT Structural Steel Shapes	\$0.46	\$1.00
ASTM A709/A709M Grade 50W / AASHTO M270M/M270 Grade 345W Structural Steel Plate	\$0.54	\$1.20
ASTM A709/A709M Grade 50W / AASHTO M270M/M270 Grade 345W Structural Steel Shapes	\$0.42	\$0.93
ASTM A709/A709M Grade HPS 50W / AASHTO M270M/M270 Grade HPS 345W Structural Steel Plate	\$0.61	\$1.35
ASTM A709/A709M Grade HPS 70W / AASHTO M270M/M270 Grade HPS 485W Structural Steel Plate	\$0.65	\$1.42
ASTM A514/A514M-05 Grade HPS 100W / AASHTO M270M/M270 Grade HPS 690W Structural Steel Plate	\$0.99	\$2.17
ASTM A276 Type 316 Stainless Steel	\$2.93	\$6.46
ASTM A240 Type 316 Stainless Steel	\$2.93	\$6.46
ASTM A148 Grade 80/50 Steel Castings (See Note below.)	\$1.02	\$2.24
AASHTO M270M/M270 Grade 345W Structural Steel Plate	\$0.54	\$1.20
AASHTO M270M/M270 Grade HPS 345W Structural Steel Plate	\$0.61	\$1.35
AASHTO M270M/M270 Grade 250 Structural Steel Plate	\$0.58	\$1.27
ASTM A53 Grade B Structural Steel Pipe	\$0.65	\$1.44
ASTM A500 Grades A, B, 36 & 50 Structural Steel Pipe	\$0.65	\$1.44
ASTM A252, Grades 240 (36 KSI) & 414 (60 KSI) Pipe Pile	\$0.50	\$1.11
ASTM 252, Grade 2 Permanent Steel Casing	\$0.50	\$1.11
ASTM A36 (AASHTO M183) H-piles, steel supports and sign supports	\$0.44	\$0.97
ASTM A328 / A328M, Grade 50 (AASHTO M202) Steel Sheetpiling	\$0.96	\$2.13
ASTM A572 / A572M, Grade 50 Sheetpiling	\$0.96	\$2.12
ASTM A36/36M, Grade 50	\$0.56	\$1.25
ASTM A570, Grade 50	\$0.56	\$1.24
ASTM A572 (AASHTO M223), Grade 50 H-Piles	\$0.41	\$0.91
ASTM A1085 Grade A (50 KSI) Steel Hollow Structural Sections (HSS), heat-treated per ASTM A1085 Supplement S1	\$0.66	\$1.45

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.

\*\*\*\*\*

END OF DOCUMENT

THIS PAGE IS INTENTIONALLY LEFT BLANK