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# COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS

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for Highways and Bridges



2024 Edition

APPENDIX A



**APPENDIX A:  
AMENDMENTS TO PREVIOUS VERSION**

## NOTES

For reference only, the following changes have been approved by the Department and incorporated into the 2024 edition of the *Standard Specifications for Highways and Bridges*.

This Appendix is inclusive of the updates that were published as the *Supplemental Specifications*, dated September 30, 2023.

Any omissions below are unintentional. In any case(s) where there are differences between the *Standard Specifications* and the changes listed below, the *Standard Specifications* shall prevail.

## MODIFICATIONS TO SPECIFIC SECTIONS

### DIVISION I: GENERAL REQUIREMENTS AND COVENANTS

#### SECTION 1.00: DEFINITION OF TERMS

##### Subsection 1.02: References, Abbreviations, Acronyms, Measurement Units and Symbols

*The following acronym has been deleted:*

NTPEP..... National Transportation Product Evaluation Program

##### Subsection 1.03: Defined Terms

*The following definitions have been modified:*

**Roadway Flagger** .... A person who actively controls the flow of vehicular, bicycle, and pedestrian traffic into and/or through a temporary traffic control zone as authorized in 700 CMR 6.00. Requirements for Roadway Flagger training, certification, apparel, and equipment are defined in Subsection 850: Traffic Controls for Construction and Maintenance Operations.

**Specifications** ..... The Standard Specifications, Supplemental Specifications, Special Provisions, directions, provisions and requirements contained or referenced herein together with all written agreements made or to be made pertaining to the method and manner of performing the work, or the quantities and qualities of materials to be furnished under the Contract.

#### SECTION 2.00: PROPOSAL REQUIREMENTS AND CONDITIONS

##### Subsection 2.01: Proposal Forms and Plans

*Paragraph A: Prequalification Prior to Requesting Proposal Forms, has been modified to reflect changed CMR references.*

##### Subsection 2.04: Preparation of Proposals

*The 5<sup>th</sup> paragraph has modified:*

At the designated time of the bid opening the Department will accept as the official bid, the set of proposal forms generated from the electronic proposal which includes the bid item sheets, bid bond, addendum acknowledgement, and affidavit of non-collusion.

**Subsection 2.09: Rejection of Proposals**

*The 3<sup>rd</sup> paragraph has been modified to reflect changed CMR references.*

**SECTION 3.00: AWARD AND EXECUTION OF THE CONTRACT**

**Subsection 3.02: Award of Contract**

*The 4<sup>th</sup> paragraph has been modified to reflect changed CMR references.*

**SECTION 4.00: SCOPE OF WORK**

**Subsection 4.03: Extra Work**

*The 3<sup>rd</sup> and 4<sup>th</sup> paragraph have been replaced with the following:*

Payment for extra work will be as provided in Subsection 9.03: Payment for Extra Work.

The determination of the Engineer shall be final upon all questions concerning the amount and value of Extra Work (except as provided in Subsection 7.16: Claims of Contractor for Compensation).

If the Contractor disputes the scope, cost or time associated with the executed Extra Work Order or the determination by the Engineer for requested extra work, then the Contractor must deliver to the Department written notice of a claim in accordance with Subsection 7.16: Claims of Contractor for Compensation.

**Subsection 4.04: Changed Conditions**

*The following clause (b) has been added to the list and all subsequent clauses have been adjusted down accordingly:*

- (b) In the event the Engineer's report finds no material or substantial change in conditions, the Contractor may file a Notice of Claim in accordance with Subsection 7.16: Claims of Contractor for Compensation.

**SECTION 5.00: CONTROL OF WORK**

**Subsection 5.02: Plans and Detail Drawings**

*The 7<sup>th</sup> paragraph has been replaced with the following:*

The title block of shop drawings shall include, at a minimum, the following information: fabricator's name and address; city(ies) or town(s) where the project is located; location(s) where the material is to be used; MassDOT contract number; Federal aid project number, when applicable; MassDOT Project Number; name of the contractor, the subcontractor; date of drawing and date of all revisions. The title block for shop drawings of bridge projects shall also include: the bridge number and BIN; facility on the bridge; the feature under the bridge.

*Table 5.00-1 has been renumbered 5.02-1 and all subsequent references have been updated.*

**Subsection 5.09: Inspection of Work**

*The 1<sup>st</sup> paragraph has been replaced with the following:*

All materials and each part or detail of the work shall be subject to inspection by the Engineer. The Engineer shall be allowed access to all parts of the work and shall be furnished with such information and assistance by the Contractor as is required to make a complete and detailed inspection; such assistance may include furnishing labor, boats, tools, equipment, and personal protective equipment at no expense to the Department.

**SECTION 6.00: CONTROL OF MATERIALS**

**Subsection 6.01: Source of Supply and Quality**

*This subsection has been revised in its entirety.*

**Subsection 6.03: Delivery and Storage of Materials**

*This subsection has been revised in its entirety.*

**SECTION 7.00: LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC**

**Subsection 7.10: Traffic Management Plan**

*This subsection has been renamed and revised in its entirety.*

**Subsection 7.16: Claims of Contractor for Compensation**

*This subsection has been revised in its entirety.*

**SECTION 8.00: PROSECUTION AND PROGRESS**

**Subsection 8.05: Claim for Delay or Suspension of the Work**

*The 2<sup>nd</sup> paragraph has been replaced with the following:*

Provided, however, that if the Engineer determines that the performance of all or any major portion of the work is suspended, delayed, or interrupted for an unreasonable period of time by an act of the Department in the administration of the Contract, or by the Department's failure to act as required by the Contract within the time specified in the Contract ( or if no time is specified, within a reasonable time) and without the fault or negligence of the Contractor, an adjustment shall be made by the Department for any increase in the actual cost of performance of the Contract (excluding profit and overhead) necessarily caused by the period of such suspension, delay or interruption. No adjustment shall be made if the performance by the Contractor would have been prevented by other causes even if the work had not been so suspended, delayed, or interrupted by the department. The Contractor has an obligation to mitigate costs associated with any delay or suspension.

*The 5<sup>th</sup> paragraph has been replaced with the following:*

Any dispute concerning whether the delay or suspension is unreasonable or any other question of fact arising under this paragraph shall be determined by the Engineer, and such determination and decision, in case any question shall arise, shall be a condition precedent to the right of the

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Contractor to receive any money hereunder. The determination by the Engineer shall be in accordance with Subsection 7.16 Claims of Contractor for Compensation.

**Subsection 8.10: Determination and Extension of Contract Time for Completion (Time Extensions)**

*The 2<sup>nd</sup> paragraph in clause D. Disputes has been replaced with the following:*

The Contractor may dispute a determination by the Engineer by filing a claim notice within 7 calendar days after the Contractor's request for additional time has been denied or if the Contractor does not accept the number of days granted in a time extension. A determination on the Contractor's claim shall be in accordance with Subsection 7.16 Claims of Contractor for Compensation. The Contractor's claim notice shall include a revised time entitlement analysis that sufficiently explains the basis of the time-related claim. Failure to submit the required time entitlement analysis with the claim notice shall result in denial of the Contractor's claim.

**DIVISION II: CONSTRUCTION DETAILS**

**SUBSECTION 430: CEMENT CONCRETE BASE COURSE**

**430.40: General**

*This subsection has been revised in its entirety.*

**SUBSECTION 450: HOT MIX ASPHALT PAVEMENT**

**450.61: Contractor Quality Control Plan**

*"The QC Plan should sufficiently" has been replaced with "The QC Plan shall sufficiently."*

**SUBSECTION 460: HOT MIX ASPHALT PAVEMENT FOR LOCAL STREETS**

**460.61: Contractor Quality Control Plan**

*"The QC Plan should sufficiently" has been replaced with "The QC Plan shall sufficiently."*

**SUBSECTION 466: STRESS ABSORBING MEMBRANE & STRESS ABSORBING  
MEMBRANE INTERLAYER**

**466.61: Contractor Quality Control Plan**

*"The QC Plan should sufficiently" has been replaced with "The QC Plan shall sufficiently."*

**SUBSECTION 476: CEMENT CONCRETE PAVEMENT**

**476.64: Placing Concrete**

*The following paragraph has been deleted:*

When high early strength concrete is used, mechanical equipment may be operated upon the pavement after a shorter period of curing or as beam tests show that the concrete has attained a modulus of rupture of at least 550 psi.

**476.81: Basis of Payment**

*The following paragraph has been deleted:*

When high early strength concrete is specified at the direction of the Engineer, in order to expedite the opening of pavement to traffic, the high early strength will be obtained by means of an increase in the cement factor and a reduction of the water-cement ratio. The extra cement will be paid for at the actual unit cost per barrel to the Contractor for the extra quantity of cement actually incorporated in the pavement, plus an allowance of 5% of the cost per barrel, which cost shall include all equipment, labor storage, transportation and work incidental to its inclusion in the concrete and incorporation in the finished pavement.

**SUBSECTION 480: PAVEMENT CRACK SEALING**

**480.61: Contractor Quality Control Plan**

*“a QC Plan which should sufficiently” has been replaced with “a QC Plan which shall sufficiently.”*

**SUBSECTION 629: CONCRETE BARRIER**

*This Subsection has been revised in its entirety.*

**SUBSECTION 701: CEMENT CONCRETE SIDEWALKS, PEDESTRIAN CURB RAMPS  
AND DRIVEWAYS**

**701.61: Contractor Quality Control Plan**

*“The QC Plan should sufficiently” has been replaced with “The QC Plan shall sufficiently.”*

**SUBSECTION 702: HOT MIX ASPHALT SIDEWALKS AND DRIVEWAYS**

**702.61: Contractor Quality Control Plan**

*“The QC Plan should sufficiently” has been replaced with “The QC Plan shall sufficiently.”*

**SUBSECTION 717: METAL BIN-TYPE RETAINING WALL**

*This Subsection has been deleted.*

**SUBSECTION 820: HIGHWAY LIGHTING**

**820.20: General**

*In the last paragraph, “assumption is made that either the Prime Contractor or their Subcontractor” has been replaced with “Contractor or the Subcontractor is assumed to be.”*

**SUBSECTION 850: TRAFFIC CONTROLS FOR CONSTRUCTION AND  
MAINTENANCE OPERATIONS**

**850.21: Roadway Flagger**

*The 1<sup>st</sup> paragraph has been modified to reflect changed CMR references.*

## **SUBSECTION 860: REFLECTORIZED PAVEMENT MARKINGS**

### **860.40: General**

*The following material requirements have been added:*

Liquid Thermoplastic Striping Material.....M7.01.3

*The following material requirements have been deleted:*

White Thermoplastic ReflectORIZED Pavement Markings .....M7.01.03

Yellow Thermoplastic ReflectORIZED Pavement Markings..... M7.01.04

### **860.62: Application of Markings**

*Table 860.62-1 has been updated.*

## **SUBSECTION 945: DRILLED SHAFTS**

### **945.61: Drilled Shaft Load Tests**

*Under Part B.2: Instrumentation and Materials, the following sentence was deleted from Part c:*

Type III cement may be substituted upon approval of the Engineer.

*Under Part B.4: Procedures, the following sentence was deleted from the 4<sup>th</sup> paragraph:*

However, the Contractor may use high early cement (Type III) in the mix to reduce the time between concreting and testing, when approved by the Engineer.

## **SUBSECTION 965: MEMBRANE WATERPROOFING FOR NEW BRIDGE DECKS**

### **965.61: Submittals**

*“a QC Plan which should sufficiently” has been replaced with “a QC Plan which shall sufficiently.”*

## **DIVISION III: MATERIALS SPECIFICATIONS**

### **SECTION M1: SOILS AND BORROW MATERIALS**

#### **M1.06.0: Compost**

*This materials subsection has been renamed and replaced in its entirety.*

### **SECTION M3: ASPHALTIC MATERIALS**

#### **M3.01.6: Asphalt Release Agents**

*This materials subsection has been replaced in its entirety.*

### **SECTION M4: CEMENT AND CEMENT CONCRETE MATERIALS**

#### **M4.02.00: Cement Concrete**

*This materials subsection has been replaced in its entirety.*



**M4.02.01: Cement**

*The following paragraph has been deleted:*

When high early strength concrete is required it shall be obtained by using Type III or by adding an accelerator meeting AASHTO M 194M/M 194.

**M4.02.14: Precast Concrete Highway Units**

*This materials subsection has been renamed and replaced in its entirety.*

**M4.02.16: Precast Drainage Structures**

*This materials subsection has been deleted.*

**M4.03.0: Concrete Produced by Volumetric Mixers**

*This materials subsection has been added.*

**M4.06.1: High Performance Concrete**

*This materials subsection has been renamed and replaced in its entirety.*

**M4.06.2: High Early Strength Concrete**

*This materials subsection has been added.*

**M4.06.3: Rapid Hardening Concrete**

*This materials subsection has been added.*

**M4.06.4: Lightweight Concrete**

*This materials subsection has been added.*

**M4.08.0: Controlled Low-Strength Materials**

*This materials subsection has been renamed and replaced in its entirety.*

**SECTION M5: PIPE, CULVERT SECTIONS AND CONDUIT**

**M5.03.6: Metal End Sections**

*The following paragraph has been deleted:*

After fabrication of end sections, the entire unit shall be coated with 2 coats of material conforming to M7.04.01.

**SECTION M7: PAINTS, PROTECTIVE COATINGS AND PAVEMENT MARKINGS**

**M7.00.0: General Requirements for Paints and Protective Coatings**

*This materials subsection has been replaced in its entirety.*

**M7.01.3 Liquid Thermoplastic Striping Material**

*The AASHTO Standard in the first paragraph under B.2: Testing has been changed from M 249 to T 250.*

**M7.01.07 Glass Beads**

*Heavy metals requirements have been updated.*

*Submission requirements in Part C: Approval Procedure has changed from three bags to one bag.*

**M7.02: Structural Paint**

*This materials subsection has been replaced in its entirety.*

**SECTION M8: METALS AND RELATED MATERIALS**

**M8.07.0: Guardrail**

*The 1<sup>st</sup> paragraph has been replaced.*