

COMMONWEALTH OF MASSACHUSETTS



CONTRACT DOCUMENTS AND SPECIAL PROVISIONS

PROPOSAL NO.	613314-136483
P.V. =	\$11,262,000.00
PLANS	YES

FOR

**Federal Aid Project No. NHP(IM)-0912(004)X
Interstate Pavement Preservation and Related Work on I-91**

in the Municipalities of

HOLYOKE-WEST SPRINGFIELD

In accordance with the STANDARD SPECIFICATIONS
for HIGHWAYS and BRIDGES dated 2026

This Proposal to be opened and read:

TUESDAY, SEPTEMBER 29, 2026 at 2:00 P.M.

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DOCUMENT 00010

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*** END OF DOCUMENT ***

DOCUMENT 00104

**NOTICE TO CONTRACTORS**

Electronic proposals for the following project will be received through the internet using www.bidx.com until the date and time stated below and will be posted on www.bidx.com forthwith after the bid submission deadline. No paper copies of bids will be accepted. All Bidders must have a valid vendor code 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 www.bidx.com.

TUESDAY, SEPTEMBER 29, 2026 at 2:00 P.M. ****HOLYOKE-WEST SPRINGFIELD****Federal Aid Project No. NHP(IM)-0912(004)X****Interstate Pavement Preservation and Related Work on I-91******Date Subject to Change**PROJECT VALUE = \$11,262,000.00

Bidders must be pre-qualified by the Department in the BRIDGE - CONSTRUCTION or PAVEMENT – SURFACING category 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 Proposal Form (R109)”. The blank “Request Proposal Form (R109)” can be obtained at:
<https://www.mass.gov/prequalification-of-horizontal-construction-firms>.

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

Proposal documents for official bidders are posted on www.bidx.com. Other interested parties may receive informational Contract Documents containing the Plans and Special Provisions, free of charge.

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

The Project Bids File Attachments folder for proposals at www.bidx.com shall be used for submitting at the time of bid required information such as the Bid Bond required document, and other documents that may be requested in the proposal.

All parties who wish to have access to information plans and specification must send a “Request for Informational Documents” to MassDOTBidDocuments@dot.state.ma.us.

NOTICE TO CONTRACTORS (Continued)

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 the United States Department of Labor.

The Massachusetts Department of Transportation, in accordance with Title VI of the Civil Rights Act of 1964 (78 Stat. 252, 42 U.S.C. §§ 2000d to 2000d-4) and the Regulations, hereby affirmatively ensures that for any contract entered into pursuant to this advertisement, all bidders, including disadvantaged business enterprises, will be afforded full and fair opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, 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-80 of the above specifications.

The Contractor (hereinafter includes consultants) will comply with the Acts and Regulations relative to Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation, Federal Highway Administration (FHWA), as they may be amended from time to time, which are herein incorporated by reference and made a part of this Contract as contained in Appendices C and D of the above specifications.

PRICE ADJUSTMENTS

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 \$712.50 per ton, Portland cement \$452.13 per ton, diesel fuel \$4.372 per gallon, and gasoline \$3.335 per gallon, and Steel Base Price Index 378.1. 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.

BY: Phillip Eng, Interim MassDOT Secretary
Jonathan L. Gulliver, Undersecretary and Highway Administrator
SATURDAY, AUGUST 22, 2026

DOCUMENT 00210

REQUIREMENTS OF MASSACHUSETTS GENERAL LAWS
CHAPTER 30, SECTION 39R;
CHAPTER 30, SECTION 39O

July 1, 1981, updated October 2016

M.G.L. c. 30, § 39R. Award of Contracts; Accounting Statements; Annual Financial Statements; Definitions.

(a) The words defined herein shall have the meaning stated below whenever they appear in this section:

- (1) "Contractor" means any person, corporation, partnership, joint venture, sole proprietorship, or other entity awarded a contract pursuant to sections thirty-eight A1/2 to thirty-eight O, inclusive, of chapter seven and any contract awarded or executed pursuant to section eleven C of chapter twenty-five A, section thirty-nine M of chapter thirty, or sections forty-four A to forty-four H, inclusive, of chapter one hundred and forty-nine, which is for an amount or estimated amount greater than one hundred thousand dollars.
- (2) "Contract" means any contract awarded or executed pursuant to sections thirty-eight A1/2 to thirty-eight O, inclusive, of chapter seven and any contract awarded or executed pursuant to section eleven C of chapter twenty-five A, section thirty-nine M of chapter thirty, or sections forty-four A through forty-four H, inclusive, of chapter one hundred and forty-nine, which is for amount or estimated amount greater than one hundred thousand dollars.
- (3) "Records" means books of original entry, accounts, checks, bank statements and all other banking documents, correspondence, memoranda, invoices, computer printouts, tapes, discs, papers and other documents or transcribed information of any type, whether expressed in ordinary or machine language.
- (4) "Independent Certified Public Accountant" means a person duly registered in good standing and entitled to practice as a certified public accountant under the laws of the place of his residence or principal office and who is in fact independent. In determining whether an accountant is independent with respect to a particular person, appropriate consideration should be given to all relationships between the accountant and that person or any affiliate thereof. Determination of an accountant's independence shall not be confined to the relationships existing in connection with the filing of reports with the awarding authority.
- (5) "Audit", when used in regard to financial statements, means an examination of records by an independent certified public accountant in accordance with generally accepted accounting principles and auditing standards for the purpose of expressing a certified opinion thereon, or, in the alternative, a qualified opinion or a declination to express an opinion for stated reasons.
- (6) "Accountant's Report", when used in regard to financial statements, means a document in which an independent certified public accountant indicates the scope of the audit which he has made and sets forth his opinion regarding the financial statements taken as a whole with a listing of noted exceptions and qualifications, or an assertion to the effect that an overall opinion cannot be expressed. When an overall opinion cannot be expressed the reason therefor shall be stated. An accountant's report shall include as a part thereof a signed statement by the responsible corporate officer attesting that management has fully disclosed all material facts to the independent certified public accountant, and that the audited financial statement is a true and complete statement of the financial condition of the contractor.
- (7) "Management", when used herein, means the chief executive officers, partners, principals or other person or persons primarily responsible for the financial and operational policies and practices of the contractor.
- (8) Accounting terms, unless otherwise defined herein, shall have a meaning in accordance with generally accepted accounting principles and auditing standards.

(b) Subsection (a)(2) hereof notwithstanding, every agreement or contract awarded or executed pursuant to sections thirty-eight A 1/2 to thirty-eight O, inclusive, of chapter seven, or eleven C of chapter twenty-five A, and pursuant to section thirty-nine M of chapter thirty or to section forty-four A through H, inclusive, of chapter one hundred and forty-nine, shall provide that:

- (1) The contractor shall make, and keep for at least six years after final payment, books, records, and accounts which in reasonable detail accurately and fairly reflect the transactions and dispositions of the contractor, and
- (2) Until the expiration of six years after final payment, the office of inspector general, and the commissioner of capital asset management and maintenance shall have the right to examine any books, documents, papers or records of the contractor or of his subcontractors that directly pertain to, and involve transactions relating to, the contractor or his subcontractors, and
- (3) If the agreement is a contract as defined herein, the contractor shall describe any change in the method of maintaining records or recording transactions which materially affect any statements filed with the awarding authority, including in his description the date of the change and reasons therefor, and shall accompany said description with a letter from the contractor's independent certified public accountant approving or otherwise commenting on the changes, and
- (4) If the agreement is a contract as defined herein, the contractor has filed a statement of management on internal accounting controls as set forth in paragraph (c) below prior to the execution of the contract, and
- (5) If the agreement is a contract as defined herein, the contractor has filed prior to the execution of the contracts and will continue to file annually, an audited financial statement for the most recent completed fiscal year as set forth in paragraph (d) below.

(c) Every contractor awarded a contract shall file with the awarding authority a statement of management as to whether the system of internal accounting controls of the contractor and its subsidiaries reasonably assures that:

- (1) transactions are executed in accordance with management's general and specific authorization;
- (2) transactions are recorded as necessary
 - i. to permit preparation of financial statements in conformity with generally accepted accounting principles, and
 - ii. to maintain accountability for assets;
- (3) access to assets is permitted only in accordance with management's general or specific authorization; and
- (4) the recorded accountability for assets is compared with the existing assets at reasonable intervals and appropriate action was taken with respect to any difference.

Every contractor awarded a contract shall also file with the awarding authority a statement prepared and signed by an independent certified public accountant, stating that he has examined the statement of management on internal accounting controls, and expressing an opinion as to:

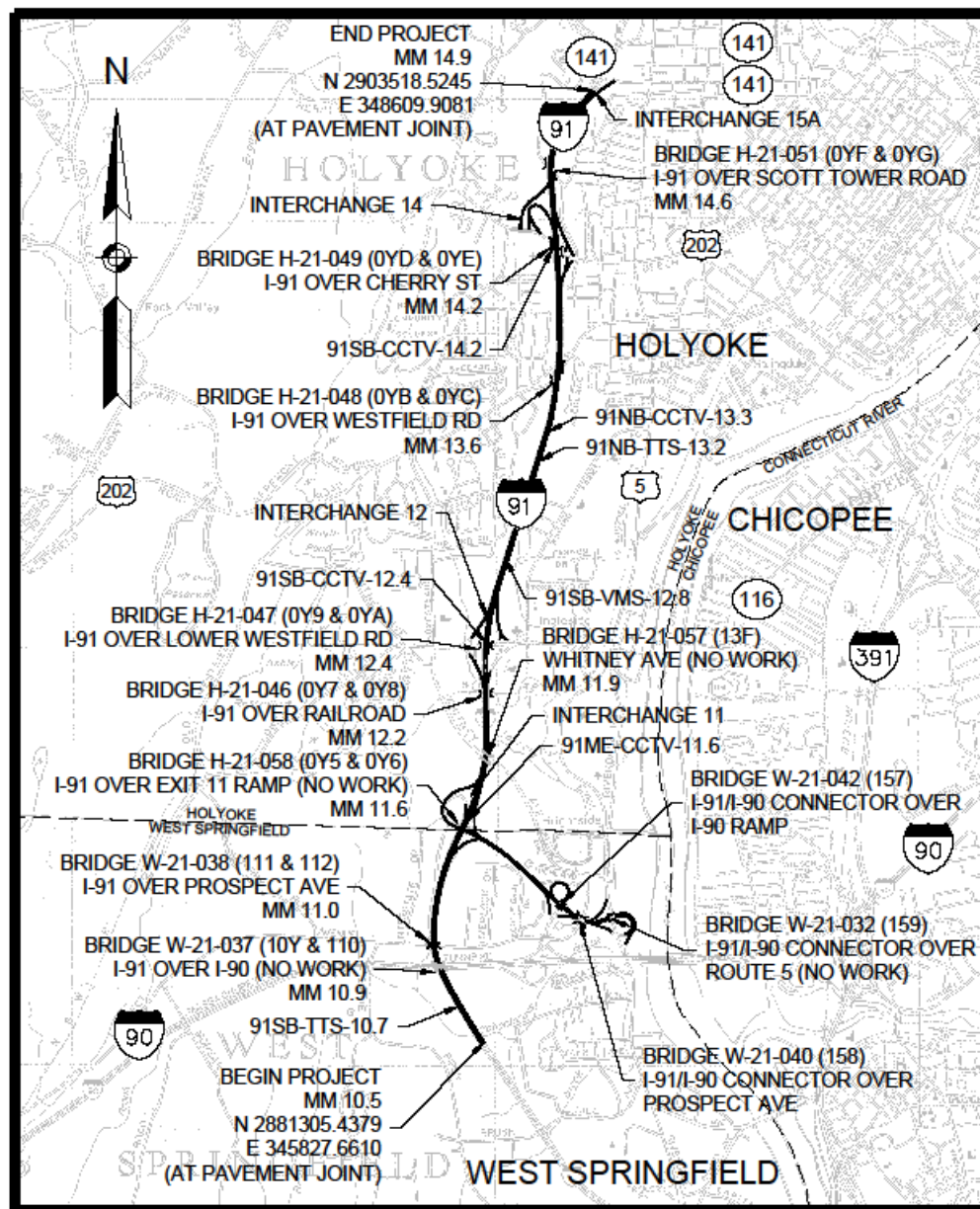
- (1) whether the representations of management in response to this paragraph and paragraph (b) above are consistent with the result of management's evaluation of the system of internal accounting controls; and
- (2) whether such representations of management are, in addition, reasonable with respect to transactions and assets in amounts which would be material when measured in relation to the applicant's financial statements.

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DOCUMENT 00331

LOCUS MAP

HOLYOKE-WEST SPRINGFIELD
Federal Aid Project No. NHP(IM)-0912(004)X
Interstate Pavement Preservation and Related Work on I-91



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Final Report ☐Interim Report ☐**CONTRACTOR PROJECT EVALUATION FORM***For instructions on using this form, see Engineering Directive E-10-002, Dated 4/20/2010*

Date: _____

City/Town: _____

Contractor: _____

Project: _____

Address: _____

F.A. No. _____

Contract Number: _____

Bid Price: _____

Notice to Proceed: _____

Funds: State: _____ Fed Aid: _____

Current Contract Completion Date: _____

Date Work Started: _____

Date Work Completed*: _____

Contractor's Superintendent: _____

Division: (indicates class of work) Highway: _____ Bridge: _____ Maintenance: _____

*If work was NOT completed within specified time (including extensions) give reasons on following page.

	Excellent 10	Very Good 9	Average 8	7	Fair 6	5	Poor 4	% Rating
1. Workmanship								x 2=
2. Safety								x 2=
3. Schedule								x 1.5=
4. Home Office Support								x 1=
5. Subcontractors Performance								x 1=
6. Field Supervision/ Superintendent								x 1=
7. Contract Compliance								x 0.5=
8. Equipment								x 0.5=
9. Payment of Accounts								x 0.5=
(use back for additional comments)								
Overall Rating:								

(Give explanation of items 1 through 9 on the following page in numerical order if overall rating is below 80%. Use additional sheets if necessary.)

District Construction Engineer's Signature/Date _____

Resident Engineer's Signature/Date _____

Contractor's Signature Acknowledging Report/Date _____

Contractor Requests Meeting with the District: No ☐Yes ☐

Date Meeting Held: _____

Contractor's Comments/Meeting Notes (extra sheets may be added to this form and noted here if needed): _____



DOCUMENT 00440

Final Report ☐Interim Report ☐**SUBCONTRACTOR PROJECT EVALUATION FORM***For instructions on using this form, see Engineering Directive E-10-002, Dated 4/20/2010*

Date: _____

City/Town: _____

Subcontractor: _____

Project: _____

Address: _____

F.A. No.: _____

Contract Number: _____

Prime Contractor _____

Current Contract Completion Date: _____

Date Work Started: _____

Date Work Completed*: _____

Subcontractor's Superintendent: _____

Type of Work Performed by Subcontractor: _____

*If work was NOT completed within specified time (including extensions) give reasons on following page.

	Excellent 10	Very Good 9	Average 8	7	Fair 6	5	Poor 4	% Rating
1. Workmanship								x 2=
2. Safety								x 2=
3. Schedule								x 1.5=
4. Home Office Support								x 1.5=
5. Field Supervision/ Superintendent								x 1=
6. Contract Compliance								x 1=
7. Equipment								x 0.5=
8. Payment of Accounts								x 0.5=
(use back for additional comments)							Overall Rating:	

(Give explanation of items 1 through 8 on the following page in numerical order if overall rating is below 80%. Use additional sheets if necessary.)

District Construction Engineer's Signature/Date _____

Resident Engineer's Signature/Date _____

Contractor Signature Acknowledging Report/Date _____

Subcontractor Signature Acknowledging Report/Date _____

Subcontractor Requests Meeting with the District: No ☐ Yes ☐ Date Meeting Held: _____

Subcontractor's Comments / Meeting Notes (extra sheets may be added to this form and noted here if needed): _____

Contractor's Comments: _____

SUBCONTRACTOR PROJECT EVALUATION FORM (Continued)

Date: _____ Contract Number: _____

INFORMATION FOR DISTRICT HIGHWAY DIRECTORS RELATING TO PREQUALIFICATION

A deduction shall be recommended for unsatisfactory performance if computed overall rating is under 80%.

A deduction may be recommended for this project being completed late due to the Contractor's fault.

RECOMMENDATIONS FOR DEDUCTIONS FROM CONTRACTORS' ASSIGNED FACTOR

(Write Yes or No in space provided)

I recommend a deduction for Contractor's unsatisfactory performance: _____

I recommend a deduction for project completed late: _____

Signed: _____
District Highway Director

EXPLANATION OF RATINGS 1 – 8:

[illegible]

WORK NOT COMPLETED WITHIN SPECIFIED TIME:

Revised: 04/28/17

*** END OF DOCUMENT ***

DOCUMENT 00710
GENERAL CONTRACT PROVISIONS
Revised: 03-31-26

NOTICE OF AVAILABILITY

The STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES dated 2026, the SUPPLEMENTAL SPECIFICATIONS, the 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS; the 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING and the CONSTRUCTION STANDARD DETAILS are available online at <https://www.mass.gov/massdot-highway-division-manuals-and-publications>

SPECIAL PROVISIONS FOR RIGHT-TO-KNOW ACT REQUIREMENTS

The Contractor's attention is directed to Massachusetts General Laws, Chapter 111F, commonly known as the Right-To-Know Act, and to the regulations promulgated pursuant thereto. Among the provisions of the Right-To-Know Act is a requirement that employers make available to employees Materials Safety Data Sheets (MSDS) for any substance on the Massachusetts Substance List (MSL) to which employees are, have been, or may be exposed.

To ensure prompt compliance with these regulations and legislation, the Contractor shall:

1. Deliver to the Department, prior to the start of any work under this contract, copies of MSDS for all MSL substances to be used, stored, processed or manufactured at the worksite by the Contractor.
2. Train employees of the Department, who may be exposed to MSL substances as a result of the Contractor's work under this contract, with regard to those specific substances in accordance with requirements of the Right-To-Know Act.
3. Observe all safety precautions recommended on the MSDS for any MSL substance to be used, stored, processed, or manufactured at the worksite by the Contractor.
4. Inform the Department in writing regarding specific protective equipment recommended in the MSDS for MSL substances to which employees of the Department may be exposed as a result of the Contractor's work under this contract.

The Department shall not be liable for any delay or suspension of work caused by the refusal of its employees to perform any work due to the Contractor's failure to comply with the Right-To-Know Act. The Contractor agrees to hold the Department or the Commissioner of the Department harmless and fully indemnified for any and all claims, demands, fines, actions, complaints, and causes of action resulting from or arising out of the Contractor's failure to comply with the requirements of the Right-To-Know Act.

ALTERNATIVE DISPUTE RESOLUTION

Forum, Choice of Law and Mediations:

Any actions arising out of a contract shall be governed by the laws of Massachusetts and shall be brought and maintained in a State or federal court in Massachusetts which shall have exclusive jurisdiction thereof. MassDOT and the Contractor may both agree to mediation of any claim and will share the costs of such mediation pro rata based on the number of parties involved.

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Massachusetts Department of Transportation
Quality Assurance Specifications for Superpave Waterproofing Surface Course

DOCUMENT 00714

SUPERPAVE WATERPROOFING SURFACE COURSE

Massachusetts Department of Transportation
Quality Assurance Specifications for Superpave Waterproofing Surface Course

SUBSECTION 457
SUPERPAVE WATERPROOFING SURFACE COURSE

DESCRIPTION

457.20 General.

The work under this Section consists of producing and placing a SUPERPAVE Waterproofing Surface Course (SSC-W). This Hot Mix Asphalt (HMA) mixture is intended to serve as a waterproof surface course for structures, including bridge decks, tunnels, and other roadway structures. All work associated with SSC-W is subject to the requirements of Section 450 Hot Mix Asphalt Pavement, Section M3 Asphaltic Materials, and the requirements herein.

MATERIALS

457.30 General.

Provide materials as specified in Section 450 Hot Mix Asphalt Pavement and Section M3 Asphalt Materials, as amended herein:

Performance Graded Asphalt Binder	M3.01.0
Warm Mix Asphalt Additive	M3.01.4
Asphalt Release Agents	M3.01.6
Asphalt Emulsion for Tack Coat	M3.03.1
Hot Applied Pavement Joint Adhesive	M3.05.4
Hot Mix Asphalt	M3.06.0
Hot Mix Asphalt Production Facility	M3.12.0
Contractor Quality Control Laboratory	M3.13.1
Department Acceptance Laboratory	M3.13.2

SSC-W Mix Design.

SSC-W shall be a mixture comprised of coarse aggregate, fine aggregate, asphalt binder, and warm mix asphalt additive, and may include mineral filler and crumb rubber. Reclaimed Asphalt Pavement (RAP), Recycled Asphalt Shingles (RAS), Manufactured Asphalt Shingles (MAS), or Recycled Glass Aggregate shall not be used in SSC-W mixtures.

The Contractor shall be responsible for development of an SSC-W Laboratory Trial Mix Formula (LTMF) for each SSC-W mixture type specified for the contract in accordance with the requirements of Subsection 457.30.

(1) Performance Graded Asphalt Binder.

The asphalt binder shall be polymer modified and achieve the performance grade necessary for the SSC-W mixture to meet the performance testing requirements specified below. The Contractor shall coordinate with the asphalt binder Supplier to select the proper binder grade.

The asphalt binder shall be storage-stable, pre-blended, homogeneous, and polymer modified. The asphalt binder shall be storage-stable, pre-blended, homogeneous, and polymer modified using Styrene-Butadiene (SB), Styrene-Butadiene-Styrene (SBS), or Styrene-Butadiene-Rubber (SBR) formulations. Other methods of binder modification must be reviewed by the MassDOT Research & Materials Section prior to the mix design. The asphalt binder certifications shall provide the continuous PG binder grade, the polymer content and the polyphosphoric acid content.

The continuous grading of the asphalt binder used for the mix design shall be reported in the mix design submission.

Massachusetts Department of Transportation
Quality Assurance Specifications for Superpave Waterproofing Surface Course

(2) Aggregate.

Aggregate shall conform to the requirements of Subsection M3.11.2. Fine aggregate shall be a manufactured sand and have an uncompacted void content of at least 45 percent when tested according to AASHTO T 304, Method A. The minimum sand equivalent of the fine aggregate shall be 45 percent when tested according to AASHTO T 176.

(3) LTMF Design and Verification.

The Contractor shall develop and submit a Laboratory Trial Mix Formula (LTMF), which is to be proposed as a Job Mix Formula, a minimum of sixty (60) days prior to the start of SSC-W production in accordance with the requirements of Subsection 457.30 and MassDOT's Asphalt Mix Design approval process. The submission shall identify the source of each component and provide results confirming that materials meet the criteria specified in Table 457.30-1 and Table 457.30-2.

The Contractor shall not proceed to SSC-W production for the Control Strip as outlined below until the LTMF is verified by the Department.

The Contractor shall submit the LTMF with supporting documentation to the Department along with samples of aggregate material and PG asphalt binder. An adequate amount of the aggregate and PG asphalt binder shall be supplied in order to verify the LTMF. The Department will use these samples for verification the LTMF and to benchmark the binder and mix design performance. Benchmarking shall include determining the continuous grade of the binder.

Should a change in sources, including the PG asphalt binder, be made or a change in the properties of materials occurs, the Department will require that a new LTMF be developed and approved before production can continue.

Massachusetts Department of Transportation
 Quality Assurance Specifications for Superpave Waterproofing Surface Course
Table 457.30-1 – Aggregate Gradation and Percent Binder Requirements for SSC-W

Sieve Size	9.5 mm Mixture Design Control Points (% Passing) ⁽²⁾		12.5 mm Mixture Design Control Points (% Passing) ⁽²⁾	
	Min	Max	Min	Max
¾”	100	-	100	-
½”	100	-	90	100
3/8”	80	100	70	90
#4	55	85	45	75
#8	32	42	28	38
#16	20	30	20	30
#30	12	22	12	22
#50	7	16	7	16
#100	3	12	3	12
#200	2.0	6.0	2.0	6.0
N _{des} , gyrations	50		50	
P _b , %	≥ 7.0		≥ 7.0	
VCA _{mix} , % ⁽¹⁾	< VCA _{DRC}		< VCA _{DRC}	
Draindown, % ⁽³⁾	≤ 0.1		≤ 0.1	
⁽¹⁾ VCA determination shall be performed in accordance with the procedure outlined by MassDOT Research & Materials.				
⁽²⁾ The SSC-W mix design gradation may go outside of the Mixture Design Control Points with prior approval of the Engineer. The mix design will still be required to meet the volumetric and performance criteria.				
⁽³⁾ Draindown shall be tested in accordance with AASHTO T 305 at the production temperature.				

Table 457.30-2 – Volumetric Requirements for Design and Control of SSC-W

	Required Density at N _{des} (% of G _{mm})	Voids Filled with Asphalt (VFA)	Voids in Mineral Aggregate (%) (VMA)	Dust to Binder Ratio
Design Requirements	99	90 - 100	≥ 18.0 (SSC-W-9.5 mm)	0.3 - 0.9
Control Requirements	98 - 100		≥ 17.0 (SSC-W-12.5 mm)	

The Engineer may require that the Contractor demonstrate that the mixture meets a minimum tensile strength ratio (TSR) of 90 percent when tested according to AASHTO T 283 with the following modifications:

1. Compact specimens to 40 gyrations according to AASHTO T 312.
2. If less than 55 percent saturation is achieved, the procedure does not need to be repeated, unless the difference in tensile strength between duplicate specimens is greater than 25 pounds per square inch.

Massachusetts Department of Transportation
 Quality Assurance Specifications for Superpave Waterproofing Surface Course
(4) LTMF Performance Testing.

Submit to the Department a sample comprised of six (6) gyratory specimens, three (3) 5-gallon metal buckets of loose SSC-W mixture, and a sufficient amount of raw material for performance testing of the LTMF by the Department.

The 6 gyratory specimens shall be compacted according to AASHTO T 312 to a height of 60 mm and shall have an air void content of 3.0 ± 0.5 percent. The Department reserves the right to be present at the time of molding the gyratory specimens. The specimens will be tested using a Hamburg Wheel Tracking Device (HWTB) according to AASHTO T 324 at 45°C.

The Department will use the supplied loose mix sample to compact four (4) beam specimens to an air void content of 1.5 ± 0.5 percent for Flexural Beam Fatigue testing. The Beam Fatigue specimens will be tested according to AASHTO T 321 at 15°C, 10 Hz loading frequency, and 1,500 micro-strains.

The Department will approve the LTMF if the performance testing requirements in Table 457.30-3 are met. If the LTMF does not meet the HWTB and Flexural Beam Fatigue criteria, the LTMF shall be rejected.

Table 457.30-3 – Performance Testing Requirements for SSC-W

Performance Characteristic	Test Method	Requirement
HWTB Maximum Rut Depth	AASHTO T 324 @ 45°C ⁽¹⁾	< 0.25 inch
Beam Fatigue Test Failure	AASHTO T 321 @ 15°C ⁽²⁾	> 100,000 cycles
⁽¹⁾ Maximum rut depth after 20,000 passes. ⁽²⁾ Test performed at a strain level of 1,500 microstrains.		

CONSTRUCTION PROCEDURES**457.40 General.**

Construction procedures for the SSC-W mixture shall be in accordance with Section 450, as amended herein.

457.41 Weather Limitations.

When SSC-W is to be paved on a concrete bridge deck, the deck's surface moisture content shall be measured in accordance with ASTM F2659 and shall be less than 5.0%. Do not place SSC-W mixture if it is precipitating. Do not allow trucks to leave the plant when precipitation is imminent. If precipitation occurs the Contractor may resume operations when precipitation has stopped and when the concrete surface has a moisture content less than 5.0%. Do not pave if the base temperature is below 50°F.

457.42 Tack Coat.

A tack coat of asphalt emulsion shall be applied in accordance with Subsection 450.43G. Ensure that required repairs to the underlying structure have been completed before placing the tack coat and SSC-W mixture. Clean the surface where the SSC-W mixture is to be placed of foreign and loose material.

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Immediately before beginning paving operations, ensure that the surface is completely dry. Use heaters, propane torches or other appropriate methods acceptable to the Department to dry the surface.

Only apply tack coat that can be paved over in the same day. Apply tack coat at an emulsion application rate of 0.07 gallons per square yard. Adjust the application rate to produce a uniform coating, with no excess material. Ensure that the tack coat has fully broken prior to placing the SSC-W mixture.

457.43 Joint Adhesive.

A hot applied pavement joint adhesive meeting the requirements in Subsection 457.30 shall be applied to all joint edges and vertical surfaces. Apply a 1/8-inch thick, uniform coating of joint adhesive to vertical contact surfaces of curbing, gutters, scuppers, parapets and other structures before placing the SSC-W against them. The joint adhesive shall be applied in a manner that ensures an even coating thickness.

457.44 SSC-W Placement.

Procedures for placement of the SSC-W mixture shall be in accordance with Subsection 450.47. Place SSC-W mixture at the laydown temperature recommended by the supplier of the asphalt binder.

457.45 SSC-W Compaction.

Compact the SSC-W mixture as specified in Subsection 450.48. Operate rollers in static mode only. Rollers operated in oscillatory mode may be permitted provided that mixture does not excessively bleed or flush. The compacted SSC-W pavement course shall be free of the mat deficiencies depicted in Subsection 450.48D and shall meet the requirements for in-place density, thickness, and ride quality specified in Subsection 457.65.

457.46 SSC-W Joints.

Construct all joints in accordance with Subsection 450.49. The use of wedge joints will not be permitted. Where traffic operations allow, adjacent passes shall be paved prior to the previous pass achieves a mat temperature below 200°F. The Contractor will measure the surface smoothness and test the in-place density of each transverse joint and longitudinal joint as specified in Subsection 457.65.

457.47 Opening to Traffic.

No vehicular traffic or loads shall be permitted on the newly completed SSC-W pavement until adequate stability has been attained and the material has cooled sufficiently to a surface temperature of 120°F or less as indicated by an infrared thermometer. Remove loose material from the traveled way, shoulder, and auxiliary lanes before opening to traffic.

457.48 Control Strip Requirements.

SSC-W Control Strip.

A minimum of thirty (30) days prior to the start of SSC-W production the Contractor shall produce and place a Control Strip Lot for the SSC-W mixture at a location off of the project site, agreed upon by the Department, before proceeding to the first day of production. The Control Strip Lot shall consist of a minimum of 50 tons of SSC-W mixture but the Department will compensate the Contractor for a maximum of 60 tons of SSC-W mixture. The Control Strip will be used to verify that the SSC-W mixture can be produced per the LTMF, to establish rolling patterns, and to verify that the equipment and processes for lay-down are capable of providing the SSC-W pavement course in conformance with these specifications.

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(1) Control Strip Inspection.

The Contractor's QC personnel shall perform inspection of each Control Strip Sublot at both the HMA production facility and at the site of SSC-W field placement. The specific attributes to be inspected for the Control Strip shall include the four primary inspection components (Equipment, Environmental Conditions, Materials, Workmanship) in accordance with the requirements of Table 450.64-3, Table 450.64-4 and as specified in the Contractor's approved QC Plan.

The Department will also inspect each Control Strip Sublot for the inspection components of Materials and Workmanship.

(2) Control Strip Sampling and Testing.

The Contractor and the Department shall independently sample and test the Control Strip Lot for the Quality Characteristics identified in Table 457.48-1. The Contractor shall obtain a minimum of two (2) samples of SSC-W mixture for QC testing. The Department will obtain a minimum of one sample of SSC-W mixture for Acceptance testing. The Contractor QC samples and the Agency Acceptance sample(s) shall be randomly obtained from the Lot in accordance with ASTM D3665 and the prescribed sampling protocols for each Quality Characteristic as outlined in Table 457.65-1. Split samples shall be retained for each sample by both the Contractor and the Department in accordance with Subsection 450.65D.

The Contractor and the Department shall each obtain three (3) cores from randomly selected locations in the Control Strip to test the bulk specific gravity of the SSC-W mixture. The Contractor shall fill all core holes, whether from QC sampling or Department Acceptance sampling, with fresh SSC-W mixture from the same Lot. The filled core holes shall be thoroughly compacted as outlined in the Contractor's approved QC Plan. The Contractor and Department shall compare the density gauge readings and the core test results to establish a correlation. Both the Contractor and the Department will use this correlation as a guide for their respective density gauge testing for Quality Control and Acceptance during SSC-W production and placement.

(3) Control Strip Performance Testing.

The Department will obtain a sample comprised of five (5) 5-gallon metal buckets of loose SSC-W mixture from the Control Strip Lot for performance testing. Test specimens will be prepared and tested in accordance with AASHTO T 324 and AASHTO T 321 as specified in Section 457.30A(4).

(4) Evaluation of Control Strip Inspection Data.

The Contractor and the Department shall each evaluate their respective Control Strip inspection data against the requirements for Materials and Workmanship specified in Subsection 450.43 through Subsection 450.52 as well as Subsection 457.42 through Subsection 457.48.

(5) Evaluation of Control Strip Sampling and Testing Data.

The Contractor and the Department shall each evaluate their respective Control Strip test results against the Control Strip Quality Limits in Table 457.48-1.

(6) Evaluation of Control Strip Performance Testing Data.

The Department will evaluate the Control Strip sample performance testing results against the requirements in Table 457.30-3.

(7) Verification of Control Strip Lot and LTMF.

In order for a Control Strip Lot and corresponding LTMF to be Verified, the criteria in Table 457.48-1 and Subsection 450.51 must be met. In addition, the performance testing results shall meet the requirements in Table 457.30-3.

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(8) Acceptance and Payment of Control Strips.

If the Control Strip Lot has been Verified in accordance with the requirements above, the Lot will be accepted and paid for at the unit bid price per ton of SSC-W mixture. If the Control Strip Lot is not Verified, the Contractor will be required to construct another Control Strip.

Table 457.48-1 SSC-W Control Strip Quality Limits

Quality Characteristic	Target	Specification Limits		Engineering Limits		Acceptance Limit
		LSL	USL	LEL	UEL	
PG Asphalt Binder Grading	Per Binder Grade specified	N/A	N/A	Per AASHTO M320	Per AASHTO M320	N/A
PG Asphalt Binder Content	Per LTMF	Target - 0.3 %	Target + 0.3 %	Target - 0.4 %	Target + 0.4 %	N/A
Particle Coating	100%	98 %	N/A	95%	100%	
Volumetrics: Air Voids	1%	0 %	2 %	0 %	3 %	N/A
Fines to Effective Asphalt Ratio	Per JMF	N/A	N/A	0.3	0.9	N/A
Moisture Content of SSC-W Mixture	Per JMF	N/A	N/A	0%	1%	N/A
Combined Gradation: Passing #4 and Larger Sieves	Per JMF	N/A	N/A	Target - 6%	Target + 6%	N/A
Combined Gradation: Passing #8 Sieve	Per JMF	N/A	N/A	Target - 5%	Target + 5%	N/A
Combined Gradation: Passing #16 to #50 Sieve	Per JMF	N/A	N/A	Target - 3%	Target + 3%	N/A
Combined Gradation: Passing #100 Sieve	Per JMF	N/A	N/A	Target - 2%	Target + 2%	N/A
Combined Gradation: Passing #200 Sieve	Per JMF	N/A	N/A	Target - 1.5%	Target + 1.5%	N/A
In-Place SSC-W Mat Density (Density Gauge)	99% of G_{mm}	97% of G_{mm}	N/A	96% of G_{mm}	100% of G_{mm}	N/A
Transverse Joint Density (Density Gauge)	95% of G_{mm}	N/A	N/A	92% of G_{mm}	100% of G_{mm}	N/A
Longitudinal Joint Density (Density Gauge)	95% of G_{mm}	N/A	N/A	92% of G_{mm}	100% of G_{mm}	N/A

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CONTRACTOR QUALITY CONTROL

457.60 General.

The Contractor shall provide a Quality Control (QC) system in accordance with the provisions of Section 450 Hot Mix Asphalt, as modified below.

457.61 Contractor Quality Control Plan.

The QC system shall be detailed in a Quality Control Plan (QC Plan). This may be either a standalone QC Plan for the SSC-W mixture, or if a QC Plan is required for other HMA mixtures on the project, the SSC-W mixture may be addressed in that QC Plan. The QC Plan shall conform to the requirements in Subsection 450.61 for submittal, format, contents, and approval.

457.62 Quality Control Personnel Requirements.

The Contractor shall provide the QC personnel required by Subsection 450.62.

457.63 Quality Control Laboratory Facility Requirements.

The Contractor shall provide the QC laboratory facilities required by Subsection 457.40.

457.64 Quality Control Inspection.

The Contractor shall perform Quality Control inspection of the SSC-W mixture in accordance with the requirements of Subsection 450.64, as amended herein.

A. QC Inspection for Preparation of Underlying Surface.

If HMA patching is required on the approach pavement, Quality Control inspection of HMA for Patching shall be performed in accordance with the requirements of Subsection 450.64A and Table 450.64-1. Quality Control inspection of the tack coat for HMA mixtures shall be performed in accordance with the requirements of Table 450.64-2.

B. QC Inspection for Production & Placement of SSC-W Lots.

The Contractor's QC personnel will perform Quality Control inspection at both the HMA production facility and at the site of SSC-W field placement to ensure that the production and placement processes are providing work conforming to the contract requirements. For purposes of QC inspection, the total quantity of SSC-W produced and placed during the same construction season will constitute a Lot. Each in-place Lot shall be divided into 100 lane-feet Sublots. The specific attributes to be inspected for each SSC-W Lot shall be in accordance with the requirements of Subsection 450.43 through Subsection 450.52, as amended herein, and as outlined in Table 450.64-3 and Table 450.64-4.

457.65 Quality Control Sampling and Testing Requirements.

The Contractor shall perform Quality Control sampling and testing of the SSC-W mixture in accordance with the requirements of Subsection 450.65, as amended herein.

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A. Quality Control Testing of Prepared Underlying Surface.

Quality Control sampling and testing of HMA for Patching shall be performed in accordance with the requirements of Table 450.65-1.

B. Quality Control Testing of SSC-W Lots.

The Contractor's QC personnel will perform Quality Control sampling and testing at both the SSC-W production facility and at the site of HP field placement to ensure that the production and placement processes are providing work conforming to the contract requirements. All QC sampling and testing shall be in accordance with the AASHTO, ASTM, NETTCP, or Department procedures specified in Table 457.65-1 below. The Contractor shall furnish approved containers for all material samples. The Department shall be provided the opportunity to monitor and witness all QC sampling and testing.

Quality Control testing of the SSC-W pavement course for Ride Quality will only be required when the criteria in Subsection 450.65F(11) are met.

Table 457.65-1 - Minimum Quality Control Sampling & Testing of SSC-W Lots

Quality Characteristic	Test Method(s)	Sublot Size	Minimum Test Frequency	Point of Sampling	Sampling Method
PG Asphalt Binder Grading	Per Binder Grade from JMF	Per Supplier QC Plan or 24,000 tons of SSC-W per Subsection 450.65F ⁽¹⁾	See Subsection 450.65F(1)	See Subsection 450.65F(1)	Random AASHTO R 66
Aggregate Gradation	AASHTO T 27	Per QC Plan	Per QC Plan	At HMA Plant Per QC Plan	Random AASHTO T 2
PG Asphalt Binder Content	AASHTO T 308	150 tons	1 per Sublot ⁽¹⁾	From Haul Vehicle at Plant	Random AASHTO T 168 and R 47
Combined Aggregate Gradation	AASHTO T 30	150 tons	1 per Sublot ⁽¹⁾	From Haul Vehicle at Plant	Random AASHTO T 168 and R 47
Particle Coating	AASHTO T 195 ⁽²⁾	150 tons	1 per Sublot ⁽¹⁾	From Haul Vehicle at Plant	Random AASHTO T 168 and R 47
Maximum Theo. Specific Gravity	AASHTO T 209	150 tons	1 per Sublot ⁽¹⁾	From Haul Vehicle at Plant	Random AASHTO T 168 and R 47
Bulk Specific Gravity	AASHTO T 166 (Method A)	150 tons	1 per Sublot ⁽¹⁾	From Haul Vehicle at Plant	Random AASHTO T 168 and R 47
Volumetrics: Air Voids, VMA, VFA	AASHTO T 312 and R 35	150 tons	1 per Sublot ⁽¹⁾	From Haul Vehicle at Plant	Random AASHTO T 168 and R 47
Fines to Effective Asphalt Ratio	AASHTO T 312 and R 35	150 tons	1 per Sublot ⁽¹⁾	From Haul Vehicle at Plant	Random AASHTO T 168 and R 47
Moisture Content of SSC-W Mixture	AASHTO T 329 ⁽³⁾	150 tons	1 per Sublot ⁽¹⁾	From Haul Vehicle at Plant	Random AASHTO T 168 and R 47

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Quality Characteristic	Test Method(s)	Sublot Size	Minimum Test Frequency	Point of Sampling	Sampling Method
In-place SSC-W Mat Density (Density Gauge)	AASHTO T 343 or T 355	150 tons	3 per Sublot ⁽¹⁾	From Compacted SSC-W Course	Selective & Random AASHTO T 343 or T 355
Transverse Joint Density (Density Gauge)	AASHTO T 343 or T 355	Each Joint	3 per Sublot ⁽¹⁾	At Finished Joint	Selective & Random AASHTO T 343 or T 355
Longitudinal Joint Density (Density Gauge)	AASHTO T 343 or T 355	50 feet per Joint	3 per Sublot ⁽¹⁾	At Finished Joint	Selective & Random AASHTO T 343 or T 355
Ride Quality (IRI)	AASHTO R 54 Per Subsection 450.65F(11)	0.1 miles per each Wheel Path	3 Runs per Sublot	Each Pavement Course Per Subsection 450.65F(11)	Random Per Subsection 450.65F(11)
⁽¹⁾ In the event that the total daily SSC-W production is less than one Sublot, a minimum of one random QC sample shall be obtained for the day's production. On bridge decks over 1,500 ft ² a minimum of 3 tests shall be performed. ⁽²⁾ At least 95 percent of the coarse aggregate particles shall be entirely coated with asphalt binder as determined according to AASHTO T 195. ⁽³⁾ The moisture content of the mixture from the plant shall not exceed 1.0 percent.					

457.66 Quality Control Documentation and Data Evaluation.

The Contractor shall document all QC inspection, sampling and testing and perform evaluation of QC data in accordance with Subsection 450.66.

457.67 Corrective Action.

As part of the Quality Control system, the Contractor shall implement corrective action in accordance with Subsection 450.67 for any part of a Lot that is determined by inspection or testing to not be in conformance with the quality requirements.

457.68 Quality Control Records System.

The Contractor shall maintain a QC records system for the SSC-W in accordance with Subsection 450.68.

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DEPARTMENT ACCEPTANCE

457.70: General

The Department is responsible for performing all Acceptance activities and making the final Acceptance determination for each SSC-W Lot produced and placed. The Department's Acceptance System will include monitoring the Contractor's QC activity and performing Acceptance inspection, sampling and testing in order to determine the Quality and corresponding payment for each Lot.

457.71 Acceptance System Approach.

The Department's Acceptance determination for each Lot of SSC-W will be based on an evaluation of its Acceptance inspection information, testing data, and performance testing results.

457.72 Department Monitoring of Contractor Quality Control.

The Department will monitor the Contractor's Quality Control system in accordance with Section 450.72.

457.73 Acceptance Inspection.

The Department will perform Acceptance inspection of all work items addressed under Section 450 Hot Mix Asphalt Pavement and herein in accordance with Subsection 450.73, to ensure that all materials and completed work are in conformance with the contract requirements.

A. Acceptance Inspection of Prepared Underlying Surface.

If HMA patching is required on the approach pavement, Acceptance inspection of HMA for Patching shall be performed in accordance with the requirements of Subsection 450.73 and Table 450.73.-1.

Acceptance inspection of the tack coat for HMA mixtures shall be performed in accordance with the requirements of Table 450.73-2.

B. Acceptance Inspection of SSC-W Lots.

The Department will perform Acceptance inspection of the SSC-W at both the HMA production facility and at the site of SSC-W field placement. For purposes of Acceptance inspection, the total quantity of SSC-W mixture produced and placed during the same construction season will constitute a Lot. Each in-place SSC-W Lot will be divided into 100 lane-feet Sublots. The attributes to be inspected and minimum frequency of inspection will be in accordance with the requirements of Subsection 450.73.

457.74 Acceptance Sampling & Testing.

The Department will perform sampling and testing of the SSC-W mixture in accordance with the requirements of Subsection 450.74, as amended herein.

The Department will obtain random samples for Acceptance testing from all Sublots from the SSC-W production facility and at the site of SSC-W field placement in accordance with Subsection 450.74A. The specific Quality Characteristics subject to Department Acceptance testing are identified in Table 457.74-1. All Acceptance testing of SSC-W Lots will be performed by the Department in accordance with the AASHTO, ASTM, NETTCP, or Department test methods specified in Subsection 450.74F and Table 457.74-1.

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Acceptance testing of the SSC-W pavement course for Ride Quality will only be required when the criteria in Subsection 450.65F(11) are met.

Table 457.74-1 - Department Acceptance Sampling & Testing of SSC-W Lots

Quality Characteristic	Test Method(s)	Sublot Size	Minimum Test Frequency	Point of Sampling	Sampling Method
PG Asphalt Binder Grading	AASHTO M 320	12,000 tons of SSC-W using same PG Grade	1 per Sublot	From In-line Sample Valve at HMA Plant	Random AASHTO R 66
PG Asphalt Binder Content	AASHTO T 308	150 tons	1 per Sublot	From Haul Vehicle at Plant	Random AASHTO T 168 & R 47
Particle Coating	AASHTO T 195 ⁽¹⁾	150 tons	1 per Sublot	From Haul Vehicle at Plant	Random AASHTO T 168 & R 47
Volumetrics: Air Voids	AASHTO T 312 and R 35	150 tons	1 per Sublot	From Haul Vehicle at Plant	Random AASHTO T 168 & R 47
Fines to Effective Asphalt Ratio	AASHTO T 312 and R 35	150 tons	1 per Sublot	From Haul Vehicle at Plant	Random AASHTO T 168 & R 47
Moisture Content of SSC-W Mixture	AASHTO T 329	300 tons	1 per Sublot	From Haul Vehicle at Plant	Random AASHTO T 168 & R 47
In-place SSC-W Mat Density (Density Gauge)	AASHTO T 343 or T 355	150 tons	1 per Sublot ⁽²⁾	From Compacted SSC-W Course	Selective & Random AASHTO T 343 or T 355
Ride Quality (IRI)	AASHTO R 54 per Subsection 450.65F(11)	0.1 miles per each Wheel Path	3 Runs per Sublot	Each Pavement Course Per Subsection 450.65F(11)	Random Per Subsection 450.65F(11)
⁽¹⁾ At least 95 percent of the coarse aggregate particles shall be entirely coated with asphalt binder as determined according to AASHTO T 195.					
⁽²⁾ On bridge decks over 1,500 ft ² a minimum of 3 tests shall be performed.					

Performance Testing for Acceptance.

The Department will obtain random samples for performance testing from the first Sublot and from a minimum of 25% of all Sublots produced and placed thereafter. Each sample will be comprised of five (5) 5-gallon metal buckets of loose SSC-W mixture. Test specimens will be prepared and tested in accordance with AASHTO T 324 and AASHTO T 321. The Department will evaluate the performance testing results against the requirements in Table 457.30-3.

457.75 Split Sample Correlation.

Split Sample Correlation shall be performed when Validated Contractor QC test data is to be included in the acceptance determination in accordance with Subsection 450.75.

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457.76 Lot Acceptance Determination Based on Inspection Results.

The Department's Acceptance inspection results will be used in the final acceptance determination for each SSC-W pavement Lot in accordance with Subsection 450.76.

457.77 Lot Acceptance Determination Based on Testing Data.

The Department's Acceptance testing data will be evaluated for the final acceptance determination for each SSC-W Lot in accordance with Subsection 450.77 and Table 457.77-1 below.

Table 457.77-1 - Quality Limits for Acceptance of SSC-W Lots

Quality Characteristic	Target	Specification Limits		Engineering Limits		Acceptance Limit
		LSL	USL	LEL	UEL	
PG Asphalt Binder Grading	Per Binder Grade specified	N/A	N/A	Per M3.01.0		N/A
PG Asphalt Binder Content	Per JMF	Target - 0.3 %	Target + 0.3 %	Target - 0.4 %	Target + 0.4 %	60 PWL
Particle Coating	98 %	N/A	N/A	95%	100%	N/A
Volumetrics: Air Voids	1 %	0 %	2 %	0 %	3 %	60 PWL
In-Place SSC-W Mat Density (Density Gauge)	99.0 % of G _{mm}	97.0%	N/A	96.0 % of G _{mm}	100 % of G _{mm}	N/A
Ride Quality: Posted Speed Limit ≥ 55 mph ⁽¹⁾	50 in/mile	N/A	70 in/mile	N/A	80 in/mile	60 PWL
Posted Speed Limit ≥ 40 mph, but < 55 mph ⁽¹⁾	70 in/mile	N/A	100 in/mile	N/A	110 in/mile	60 PWL
Ride Quality: Posted Speed Limit <40 mph	Not subject to Ride Quality Testing					
⁽¹⁾ Projects with posted speed limits that fall into more than one of the Posted Speed Limit ranges above will be divided into multiple Lots and evaluated separately.						

Lot Acceptance Determination Based on Performance Testing.

The Department's Performance testing data for each SSC-W Lot will be evaluated against the requirements in Table 457.30-3. The Department will accept a Lot if the evaluation of all Acceptance testing data for the Lot is in conformance with the Quality Limits specified in Table 457.30-3 and Table 457.77-1 above.

457.78 Quality Level Analysis Procedures.

For each SSC-W Category A or B Lot, the Engineer will determine the Lot Quality Level, for the applicable Quality Characteristics in Table 457.77-1, using the Quality Level Analysis (QLA) procedures outlined in Subsection 450.78.

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For each SSC-W pavement course that is subject to Ride Quality testing per Subsection 450.65F(11), the Department will determine the Quality Level for the Ride Quality of each SSC-W Lot, using the Quality Level Analysis (QLA) procedures outlined in Subsection 450.78.

DISPUTE RESOLUTION

457.80 Procedures for Dispute Resolution.

The Contractor or the Department may dispute any of the test values that are utilized in the Acceptance determination for a given SSC-W Lot in accordance with the procedures contained in Subsection 450.80 through Subsection 450.84.

COMPENSATION

457.90 Method of Measurement.

HMA for Patching (if required), Tack Coat, and Joint Sealer will be measured as specified in Section 450.90.

SSC-W pavement course mixtures will be measured by the ton and shall be the actual pavement course quantity complete, in place, and accepted by the Engineer. The quantity shall be determined only by weight slips that have been properly countersigned by the Engineer at the time of delivery.

457.91 Basis of Payment.

HMA for Patching (if required), Tack Coat, and Joint Sealer will be paid for as specified in Section 450.91.

Each SSC-W pavement course will be paid for at the contract unit price per ton of in-place mixture under the SSC-W Pay Items specified (Pay Items 457.1 through 457.2). Payment shall include sweeping the underlying surface, transportation, delivery, placement (including providing an MTV, when required), and compaction of each SSC-W pavement course in accordance with Subsection 457.40 through 457.48. Mobile lighting for nighttime milling and paving, in accordance with 450.47, Part C, is considered incidental to the cost of each SSC-W pavement course placed.

All sawcutting required for transverse joints or longitudinal joints in accordance with Subsection 457.46 shall also be included in the contract unit price for each SSC-W pavement course. All required sawcutting in the existing pavement in accordance with this specification will be included in the contract unit price for each SSC-W pavement course, except sawcutting pavement for box widening, which will be paid under Item 482.5.

457.92 Pay Adjustment (PA).

Payment adjustments for each SSC-W Lot will be made, for the applicable Quality Characteristic(s) in Table 457.77-1, in accordance with Subsection 450.92.

457.93	Payment Items	Payment Unit
457.1	SUPERPAVE Waterproofing Surface Course - 9.5 (SSC-W - 9.5)	Ton
457.2	SUPERPAVE Waterproofing Surface Course - 12.5 (SSC-W - 12.5)	Ton
451.	HMA for Patching	Ton
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452.	Asphalt Emulsion for Tack Coat	Gallon
453.	HMA Joint Adhesive	Foot
999.490	HMA Pay Adjustment – PG Asphalt Binder Content ⁽¹⁾	Dollar
999.491	HMA Pay Adjustment – Volumetrics (Air Voids) ⁽¹⁾	Dollar
999.494	HMA Pay Adjustment – Ride Quality ⁽¹⁾	Dollar
(1) Not a bid item		

DOCUMENT 00715



SUPPLEMENTAL SPECIFICATIONS

JUNE 30, 2026

The 2026 *Standard Specifications for Highways and Bridges* are amended by the following modifications, additions and deletions. These Supplemental Specifications prevail over those published in the Standard Specifications.

The Specifications Committee has issued these Supplemental Specifications for inclusion into each proposal until such time as they are updated or incorporated into the next Standard Specifications.

Contractors are cautioned that these Supplemental Specifications are dated and will change as they are updated.

DIVISION I

GENERAL REQUIREMENTS AND COVENANTS

SECTION 5.00: CONTROL OF WORK

Subsection 5.03: Conformity with Plans and Specifications

Change the MGL reference in the first sentence to Chapter 30, Section 39I (from Section 39L).

DIVISION II

CONSTRUCTION DETAILS

SECTION 200: DRAINAGE

SUBSECTION 227: DRAINAGE SYSTEM SEDIMENT

Subsection 227.30, Method of Measurement

Change the subsection number to 227.80

Subsection 227.31, Basis of Payment

Change the subsection number to 227.81

Subsection 227.31, Payment Items

Change the subsection number to 227.82

SECTION 400: SUB-BASE, BASE COURSE, SHOULDERS, PAVEMENT AND BERMS

SUBSECTION 430: CEMENT CONCRETE BASE COURSE

Subsection 430.40: General

Change Applied Crack Sealer to Hot Applied Crack Sealer.

SUBSECTION 476: CEMENT CONCRETE PAVEMENT**Subsection 476.20: Materials**

Delete Preformed Bituminous Joint Filler for Concrete - M3.05.5 and add the following in M number sequence:

Preformed Expansion Joint Filler	M9.14.0
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SUBSECTION 477: MILLED RUMBLE STRIPS**Subsection 477: Milled Rumble Strips**

Replace this subsection with the following:

DESCRIPTION**477.20: General**

The work consists of constructing rumble strips on roadways by milling grooves into finished surfaces. Milled Rumble Strips are categorized as Type A, Type B, Type C, or Type D. Type A are rectangular milled grooves at regular intervals in the paved surface, Type B rumble strips are rectangular grooves at regular intervals with designed gaps between intervals to accommodate bicyclists, and Type C and Type D rumble strips form continuous grooves in the paved surface in the form of a vertical sinusoidal wave pattern.

CONSTRUCTION METHODS**477.61: Equipment**

The equipment shall self-align with the slope of the roadway surface and/or any irregularities in the roadway surface.

The Contractor shall demonstrate to the Engineer the ability to achieve the desired groove without tearing or snagging the roadway surface prior to beginning the work.

477.62: Installation of Rumble Strips

Rumble strips shall be installed in accordance with the locations, dimensions, and Type shown on the plans.

Type A and Type B rumble strips shall be installed after the longitudinal pavement markings they supplement (typically edge lines or channelizing lines) are in place. Installation of any diagonal or chevron pavement markings that cross the Type A or Type B rumble strips shall only occur after the rumble strips are in place.

Type C rumble strips shall be installed after the location of the longitudinal pavement markings they supplement (typically center lines) has been laid out, but before the pavement markings are installed. The pavement markings shall only be installed after the Type C rumble strips are in place.

Type D rumble strips shall be installed after the longitudinal pavement markings they supplement (typically center lines) are in place.

477.63: Control of the Work Area

At the end of each working day, all equipment shall be moved to a location where it does not present a hazard to traffic. The pavement shall be cleaned by sweeping and the work area shall be reopened to traffic.

Pavement millings shall become the property of the Contractor and shall be removed and disposed of off-site.

COMPENSATION**477.80: Method of Measurement**

Milled Rumble Strip (Type A), Milled Rumble Strip (Type C), and Milled Rumble Strip (Type D) will be measured by the total length of installed rumble strip. Milled Rumble Strip (Type B) will be measured by the total length of installed rumble strip excluding the designed gaps. Breaks at castings, bridge decks, intersections or other breaks will not be measured for payment for all types.

477.81: Basis of Payment

Payment for Milled Rumble Strip (Type A), Milled Rumble Strip (Type B), Milled Rumble Strip (Type C), and Milled Rumble Strip (Type D) will be made at the contract unit price per foot of rumble strips, complete in place. Such payment will be full compensation for furnishing all equipment and labor for satisfactorily performing the work including cleanup and disposal of excess materials.

477.82: Payment Items

Item number	Description	Unit
477.	Milled Rumble Strip (Type A)	Foot
477.1	Milled Rumble Strip (Type B)	Foot
477.2	Milled Rumble Strip (Type C)	Foot
477.3	Milled Rumble Strip (Type D)	Foot

SUBSECTION 482: SAWCUTTINGSubsection 482.80: Method of Measurement

Replace this subsection with the following:

Sawcutting, when included in the Contract as its own bid item, will be measured for payment by the foot along the cut line, regardless of depth.

SECTION 600: HIGHWAY GUARD, FENCES AND WALLS**SUBSECTION 628: IMPACT ATTENUATORS**Subsection 628.82: Payment Items

Replace this subsection with the following:

Item number	Description	Unit
628.302	Permanent Impact Attenuator, Non-Redirective, TL-2	Each
628.303	Permanent Impact Attenuator, Non-Redirective, TL-3	Each
628.304	Temporary Impact Attenuator, Non-Redirective, TL-2	Each
628.305	Temporary Impact Attenuator, Non-Redirective, TL-3	Each
628.312	Permanent Impact Attenuator, Redirective, TL-2	Each
628.313	Permanent Impact Attenuator, Redirective, TL-3	Each
628.314	Temporary Impact Attenuator, Redirective, TL-2	Each
628.315	Temporary Impact Attenuator, Redirective, TL-3	Each
628.322	Permanent Impact Attenuator, Low-Maintenance, TL-2	Each
628.323	Permanent Impact Attenuator, Low-Maintenance, TL-3	Each

SECTION 800: TRAFFIC CONTROL DEVICES

SUBSECTION 813: WIRING, GROUNDING AND SERVICE CONNECTIONS

Subsection 813.20: General

Replace this subsection with the following:

This work shall consist of furnishing and installing wire and cable of the type and size indicated for traffic signals and other traffic control devices, ITS systems, highway lighting and related electrical systems, equipment grounding systems, new ground electrodes or connections to existing ground electrodes, power pedestals, and all materials and equipment necessary to deliver power to such systems.

Service points shown on the plans are approximate only. The Contractor shall determine exact locations for both overhead and underground service access points. The Contractor shall determine riser elevations or connections/routing to manhole facilities from the serving utility, and arrange to complete the service connections.

All work under this Subsection shall comply with the MEC and the National Electrical Safety Code.

Subsection 813.41: Grounding and Bonding Conductions

Replace this subsection with the following:

Grounding and bonding conductors shall conform to M8.16.10: Type 10 Grounding and Bonding Conductors (Solid or Stranded, Insulated or Bare).

Subsection 813.42: Ground Rods

Replace this subsection with the following:

Ground rods shall consist of driven rod(s) conforming to M8.17.0: Ground Rod or other devices approved for the purpose.

Subsection 813.44: Power Pedestal

Add this subsection in numerical order:

A Power Pedestals shall consist of a side-of-post mounted lockable load center enclosure, a load center with circuit breakers, an exterior-mounted electrical meter, signal post and base, equipment bonding, ground rod(s) conforming to 813.42: Ground Rods, and a cement concrete foundation. The enclosure, lock, circuit breakers, signal post and base, and foundation shall all be included in the Shop Drawing submission.

The enclosure shall be rated to meet or exceed NEMA 3R and be suitable for post-mounting and shall be sized appropriately to house the load center. The enclosure shall be capable of being secured with an integrated locking mechanism or by a Contractor-supplied padlock; regardless of locking mechanism, it shall be operated with a #2 key.

The circuit breakers shall be designed for single-phase, 3-wire, 120/240 VAC. Circuit breakers shall provide a means to manually operate a circuit and/or automatically open a circuit that is in overload or short circuit conditions. All circuit breakers shall be UL listed and have CSA certification.

The enclosure shall be furnished with a meter socket installed. The meter socket shall be approved by the servicing electrical utility.

The signal post and base shall conform to M10.05.1: Signal Posts and Bases and the Plans. The Contractor shall supply a square aluminum base with a natural or anodized finish and a Schedule 80 aluminum post with a brushed or spun finish, unless otherwise indicated in the Plans.

The Contractor shall supply mounting equipment recommended by the enclosure manufacturer to side-mount the cabinet to the post.

Bonding for the Power Pedestal shall utilize a #8 AWG or larger ASTM-B3 wire.

The cement concrete foundation shall conform to the Plans and M4.02.0: Concrete Produced by Stationary and Truck Mixers, M4.03.0: Concrete Produced by Volumetric Mixers, M4.06.1: Conventional Concrete, M4.09.0: Precast, Prestressed, and Prefabricated Concrete Products, M4.11.0: Evaporation Reducing Materials, and M4.12.0: Curing Materials, as applicable.

Subsection 813.64: Power Pedestal

Add this subsection in numerical order:

No work shall commence until Shop Drawings have been approved.

The Power Pedestal Cabinet shall be mounted side-of-post to the Signal Post, per the manufacturer's recommendations. The Power Pedestal Cabinet should be installed directly below the meter socket, per the Plans. If dissimilar metals are present, they shall be electrically insulated to prevent galvanic corrosion.

The Contractor shall supply the appropriate type (single pole or double pole) and number of circuit breakers included within the Power Pedestal Cabinet to provide the recommended AC power to each device receiving power from the Cabinet. The circuit breakers shall be clearly labeled as to which device they are powering (e.g. RRFB-1, RRFB-2, Warning Beacon, Speed Feedback Sign, etc.).

The Power Pedestal shall be grounded and bonded per 813.61: Equipment Grounding and Bonding and 813.62: Grounding Electrodes.

Subsection 813.80.E: Power Pedestal

Add this subsection in numerical order:

Power Pedestals will be measured by the number of Power Pedestals each furnished and installed.

Subsection 813.81.E: Power Pedestal

Add this subsection in numerical order:

Power Pedestals will be paid for at the contract unit price for each installed in place. This includes all labor and materials required for a working system.

All costs associated with grounding and bonding of Power Pedestals shall be considered incidental to the item.

All costs associated with providing service connections to Power Pedestals shall be paid for under their respective pay items.

Subsection 813.82: Payment Items

Change the unit of measure for items 813.80 and 813.81 to Each and add the following pay item:

Subsection 815.82: Payment Items

Delete payment items 818.90 to 818.94, 819.39, 819.832, 819.52, 819.53, 819.60 to 819.64, 819.70, 819.71, 819.72, 819.800, 819.801, 819.802, 819.803, 819.810, 819.811, 819.820, 819.821, 819.850, 819.851, 819.852.

Add the following payment item:

813.90	Power Pedestal	Each
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SUBSECTION 819: TRAFFIC SIGNAL DETECTIONSubsection 819: Traffic Signal Detection*Add this subsection:***DESCRIPTION****819.20: General**

Work under this Subsection consists of furnishing and installing detection devices for vehicles, bicycles, pedestrians, and other road users.

MATERIALS**819.40: General**

Materials shall meet the requirements specified in the following Subsections of Division III, Materials:

Material	Section
Vehicle Detection Systems	M10.08.0
Passive Stop Line Detectors	M10.08.1
Passive Advanced Detectors	M10.08.2
Pedestrian Detectors	M10.09.0
Pedestrian Pushbutton Assembly	M10.09.1
APS Pushbutton Assembly	M10.09.2

The Contractor shall furnish Vehicle Detection Systems (VDS) and Pedestrian Detectors that are listed on the QTCE.

Any software, firmware, cables, or adapters required to program, adjust, fine-tune, or monitor VDS or Pedestrian Detectors shall be provided by the Contractor. VDS and Pedestrian Detectors shall have the latest versions of software and/or firmware installed prior to inspection. Manufacturer updates to software and/or firmware shall be included at no cost for the life of the products.

819.40.A: Vehicle Detection Systems

A VDS shall consist of one or more Internet Protocol (IP) -based detector/sensor assemblies and a cabinet interface device that is installed in a Traffic Signal Controller Cabinet or similar device.

Stop Line VDS shall be capable of providing motor vehicle and bicycle detection at all locations shown on the Plans. The Contractor may furnish a VDS that utilizes a single detector/sensor or multiple, as long as all stop line motor vehicle and bicycle detection zones are encompassed and the traffic signal or other device utilizing the detection can operate per the Plans. All Passive Stop Line Detectors required to provide stop line detection at an intersection shall be included in the cost of a single Stop Line Vehicle Detection System.

If the Contractor furnishes a Stop Line VDS that does not utilize an integrated video monitoring system, a separate video monitoring system per 819.41: Video Monitoring System shall be furnished and installed at no additional cost.

Advanced VDS shall be capable of providing motor vehicle detection on a single approach, at the location shown on the Plans. The Contractor Shall furnish Passive Advanced Detectors that utilize, and are compatible with, the same interface device installed in the Traffic Signal Controller Cabinet, or similar device, as the Stop Line VDS.

All VDSs shall be furnished with manufacturer-supplied mounting hardware.

If multiple VDSs over multiple locations are supplied under a single contract, all components furnished by the Contractor shall be of the same make and model.

819.40.B: Pedestrian Detectors

Pedestrian Pushbutton Assembly and Accessible Pedestrian Signal (APS) Pushbutton Assembly shall both include a pushbutton, sign, housing, manufacturer-specified mounting hardware, and wiring. The Contractor shall review the Contract Documents to determine if one or more in-cabinet control units are required to meet the pedestrian detector type and operational requirements. In-cabinet control units shall be considered incidental to the cost of the item.

The Contractor shall provide a pushbutton housing that conforms to the shape of the pole it is mounted to or shall furnish and install a manufacturer-supplied saddle to provide a flush, secure fit, at no additional cost.

An APS Pushbutton Assembly shall include a pedestrian pushbutton sign that conforms to the Plans. If the sign is not integral to the housing, separate mounting equipment shall be furnished and installed by the Contractor. All costs associated with the sign and mounting equipment shall be considered incidental to the cost of the item.

819.41: Video Monitoring System

When required by 819.40.A: Vehicle Detection Systems, the Contractor shall furnish and install a Video Monitoring System. The Video Monitoring System shall consist of one or more IP-based 4K, 1080p, H.264 dome-type CCTV cameras; mounting hardware, including but not limited to: brackets, bands, straps, posts, plates, and pole mount adapters; power distribution and conditioning equipment including surge suppression; and all necessary cabling and wiring.

All equipment provided for the Video Monitoring System shall be commercial, off-the-shelf products. Custom equipment designed specifically for the Contract will not be accepted. All cabling and wiring shall be recommended by the manufacturer and rated for outdoor use. Any special wiring or connectors required by the manufacturer shall be identified in the Shop Drawings.

The Video Monitoring System shall conform to National Electrical Manufacturers Association (NEMA) standards, Underwriters' Laboratory (UL), and Military Standards (MIL), as applicable. All components of the Video Monitoring System shall be new and still under production by the manufacturer. Obsolete, no longer produced, and/or no longer supported components will not be accepted.

The Video Monitoring System shall be capable of operating in temperatures ranging from -29°F to +165°F.

The camera shall meet or exceed the requirements found in Table 819.41-1:

Table 819.41-1: Minimum Camera Requirements

Feature	Requirement
Zoom Ratio	The minimum zoom ratio shall be 30x Optical and 12x Digital
Camera Type	The camera shall be an IP-type CCTV camera.
Auto Focus	The camera shall include auto focus with a selection for manual override of auto focus.
Lens Aperture Ratio	Typical: F/1.6 to F/4.7 (wide to telephoto)
On-Screen Direction	The CCTV camera shall display on-screen azimuth indications.
Privacy Zones	The CCTV camera shall be programmable to blank out up to 8, four-sided areas to electronically block portions of the camera's field of view from being

Feature	Requirement
	displayed. These privacy zones shall move and adjust sizing synchronously with camera movements and degree of lens zooming.
On-Screen Labels, Text and Titles	The CCTV camera shall display a minimum of 20 programmable characters for on-screen camera ID, preset position, sector, and alarm titles.
On-Screen Labels, Text and Title Positioning	The position of the on-screen text shall be adjustable to appear at selectable positions on the CCTV camera screen image.
Number of Pixels	The camera shall provide a minimum of 1280H x 720V effective pixels. The camera shall be capable of being configured to operate at all standard lower resolutions down to 320H x 180V effective pixels.
Image Sensor Size	The camera shall include an image sensor of 1/1.8 in., nominal.
Lens Focal Length	The camera shall include a zoom lens of 4.3 mm to 129 mm, minimum focal length.
Color and Black & White Image Selection	The camera shall have Color and Black & White video image display modes incorporating both automatic and manual override image mode selection. The camera shall transition automatically to a Black & White mode (when in automatic mode) when the luminance level reaches a user predefined threshold. At all times the camera shall provide a full motion video output at 30 frames per second.
Image Stabilization	The CCTV camera shall incorporate electronic image stabilization to reduce the effects of vibration and wind gusts on the displayed video image.
Automatic Iris	The camera shall include both automatic iris control and an override for manual iris adjustments.
Wide Dynamic Range	The CCTV camera's wide dynamic range shall be 120 dB.
CCTV Camera Optical Sensitivity	The camera's sensitivity shall be sufficient to provide a clear, usable color video image display with a scene illumination of ≤ 0.1 lux at an aperture of F1.6, nominal.
Power Input	The power input for the CCTV camera and dome shall be PoE+.
Alarms	No alarm contacts shall be wired.

The Contractor shall mount the camera at a location that optimizes line-of-sight for all approaches. The view of each approach shall have a clear line of sight, free from obstructions from trees, overhead wires, buildings, and/or other obstructions. If the Contractor is unable to provide a clear line of sight for all approaches to the satisfaction of the Engineer, a second camera, including mounting hardware, cabling, and wiring, shall be furnished and installed on a different traffic signal structure at no additional cost.

The Contractor shall be responsible for the following items prior to installation:

- Ensure that all components are assembled and factory-tested prior to delivery to the project site.
- Fully configure the camera settings, including but not limited to: camera resolution, camera address, default settings, and pre-set and home positions, per the direction of the Engineer.
- Coordinate with the Engineer to set the camera address number to provide unique identification that is compatible with the CCTV camera addressing schema utilized by the Department.

The Contractor shall deliver the camera(s) fully assembled to the project site.

The Contractor shall provide up to 3 hard copy sets of operating manuals, service manuals, and maintenance instructions for all components of the system. At the request of the Engineer, the number of copies may be reduced if the manuals are provided in .pdf file format.

819.42: Material Warranties

All components of Vehicle Detection Systems, including Video Monitoring Systems, and Pedestrian Detectors shall include a minimum two-year manufacturer's replacement warranty that will commence upon acceptance by the Engineer. The warranty shall cover any manufacturing defects of the products.

Construction Methods

819.60: General

The Contractor shall use discretion in installing the detectors/sensors at locations that optimize the performance of the VDS and to eliminate false calls. The Contractor shall notify the Engineer if the size or location of the detection zones differs from what is shown in the Plans. At the direction of the Engineer, the Contractor will be required to readjust the location of the detection zones and/or modify the detection channels if false calls are observed or the traffic signal system is not operating per the Plans due to the performance of the VDS; this work shall be considered incidental to the cost of the item.

The Contractor shall use manufacturer-specified mounting hardware for all detectors/sensors. If mounted to mast arms or strain poles, any addition weight or wind loading from the detector/sensor shall be accounted for in the structural calculations.

The Contractor shall install the cabinet interface device in the traffic signal controller cabinet. The cabinet interface device shall be connected to the Field Monitoring Unit (FMU) or an ethernet switch in the traffic signal controller cabinet. All communication between devices shall be IP-based. Use of external communications that are not routed through the FMU is prohibited.

The Contractor shall furnish and install low voltage power cabling surge protection equipment required for all data and power lines associated with VDS, Video Monitoring Systems, and/or Pedestrian Detection Systems entering the traffic signal controller cabinet.

The Contractor shall install the manufacturer-specified cable between the detectors/sensors to the cabinet interface device in the traffic signal controller cabinet via traffic signal structures, conduit, and/or pullboxes. This shall include all connectors, sealing tape, and incidental work to complete the connection(s). All equipment installation and wiring shall be installed in a neat and orderly manner and per the manufacturer's specifications.

The VDS shall be powered through one of the power outlets available on the FMU. The VDS shall be capable of being powered down and remotely restarted through remote control of the power outlet on the FMU.

Under the supervision of the Engineer, the Contractor shall install the VDS software that allows visual confirmation of the detection zones on Department computers.

The Contractor shall install Pedestrian Detectors at the location(s) and mounting height shown on the Plans.

The Contractor shall mount and orient the APS Pushbutton Assembly in a manner so that the vibrotactile arrow is aligned parallel to the crosswalk.

Prior to acceptance, the Contractor shall furnish all passwords for Vehicle Detection Systems and Pedestrian Detectors to the Engineer. The use of default passwords is prohibited.

819.61: Programming APS Pushbuttons

Each APS Pushbutton shall have an audible walk indication during the associated walk interval. The duration of the audible walk indication shall match the duration of the walk interval unless the pedestrian signal is programmed to rest in walk. If programmed to rest in walk, the audible walk indication shall be limited to 7 seconds in length but may be recalled by a subsequent button press during the walk interval.

The APS Pushbutton locator tone and audible walk indication shall be programmed to broadcast at volume 5 dBA louder than ambient sound, except when audible beaconing is provided in response to an extended pushbutton press. The broadcast volume shall be programmed to not exceed 100 dBA at 3 ft. from the emitter, regardless of ambient noise conditions.

The locator tone shall have a duration of 0.15 seconds or less and shall repeat at 1-second intervals.

The locator tone shall be active during all signal intervals, except for the following conditions:

- When the audible walk indication is being broadcast.
- If the signal is programmed to rest in walk, the locator tone shall resume 7 seconds after the start of the walk interval.
- The locator tone shall be disabled if the traffic control signal or pedestrian hybrid beacon is operating in an emergency or fault flashing mode.

The locator tone shall be active during the flashing yellow and alternating flashing red intervals of a pedestrian hybrid beacon phasing sequence.

Upon button press, the locator tone at that pushbutton shall be interrupted and a speech message of "Wait" shall be broadcast.

The normal status of the pilot light shall be dark. The pilot light shall illuminate upon button press and stay illuminated until the start of the walk interval, when it shall return to dark. If the associated pedestrian phase is set to pedestrian recall, the pilot light shall stay illuminated for all intervals except for the walk interval.

The audible walk indication shall be an audible tone unless a speech message is called for in the Plans. The audible tone shall repeat at 8 to 10 ticks per second, in multiple frequencies, with the dominant component at 880 Hz.

If a speech message is used, the following shall apply:

- For exclusive pedestrian phases, during the walk interval the speech message shall be: "walk sign is on for all crossings." This message shall be broadcast a single instance.
- *For concurrent pedestrian phases, during the walk interval the speech message shall be: "[STREET NAME]. Walk sign is on for [STREET NAME]." This message shall be broadcast a single instance.
- If the signal is programmed to rest in walk, the concurrent pedestrian speech message shall be repeated upon each subsequent button press.

*Note: See Plans for Street Name information.

The vibrotactile arrow shall vibrate during the walk interval.

The Contractor shall include a fault relay that will default to placing a constant pedestrian call from any pushbutton assembly that fails to communicate back to the in-cabinet control unit.

The Contractor shall connect the in-cabinet control unit to the Field Monitoring Unit (FMU) via an open ethernet port.

819.62: VDS Testing and Evaluation

After the VDS is installed, but prior to acceptance, the Contractor shall conduct an evaluation of the system in the presence of the Engineer. The purpose of the evaluation is to certify the system is operating per the requirements of M10.08.0: Vehicle Detection Systems, M10.08.1: Passive Stop Line Detectors, and M10.08.2: Passive Advanced Detectors, as applicable. The Contractor shall submit their testing and evaluation plan as a part of the Shop Drawing submittal.

The testing and evaluation shall take place for a minimum of 30 minutes under moderate live traffic conditions. Testing shall not be conducted during inclement weather.

If the Engineer determines that the system does not meet the operational requirements, the Contractor will be required to adjust the location, orientation, and/or number of detector/sensors. The Contractor may also adjust the location of the detection zones at this time. Upon completion of this work, the system shall be reevaluated in the presence of the Engineer. This process shall be repeated until the operational requirements are met.

All costs associated with testing and evaluation of the VDS, including the repositioning or addition of new materials, shall be considered incidental to the item.

Compensation**819.80: Method of Measurement**

Stop Line Vehicle Detection Systems will be measured as each system furnished and installed.

Advanced Vehicle Detection Systems will be measured as each system furnished and installed.

Pedestrian Pushbuttons and APS Pushbuttons will be measured as each pushbutton furnished and installed.

819.81: Basis of Payment

Stop Line Vehicle Detection Systems will be paid for each system installed at an intersection. For the purposes of this work, an intersection shall be defined as all roadway, path, and/or trail approaches controlled by a single traffic signal controller. Where a Video Monitoring System is required per 819.40: General, it shall be included in the cost of Item 819.840.

Advanced Vehicle Detection System will be paid for each system installed on an intersection approach.

Pedestrian Pushbutton and APS Pushbutton will be paid for each pushbutton assembly installed. The pedestrian sign mounted directly above the pushbutton shall be considered incidental to the item.

The unit cost of each vehicle detection system or pushbutton item shall include all wiring, cabling, mounting hardware, software, firmware, video monitoring system (if required), testing, calibrating, Department Acceptance, training, and all other labor and materials required for the system(s) to operate per the Plans.

819.82: Payment Items

Item number	Description	Unit
819.840	Stop Line Vehicle Detection System	Each
819.845	Advanced Vehicle Detection System	Each
819.850	Pedestrian Pushbutton	Each
819.855	APS Pushbutton	Each

SUBSECTION 850: TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE OPERATIONS

Subsection 850.25: Arrow Board

Subsection 850.45: Arrow Board

Subsection 850.65: Arrow Board

Delete these subsections.

Subsection 850.80: Method of Measurement

Delete the 7th paragraph beginning with "Arrow Board will be measured ..."

Subsection 850.81: Basis of Payment

Delete the 7th paragraph beginning with "Arrow Board will be paid for ..."

Subsection 850.82: Payment Items

Revise description and unit of item 852. to Safety Signing for Traffic Management / Square Foot.

Delete item number 856.

SUBSECTION 856: CONNECTED WORK ZONE NOTIFICATION SYSTEM AND ASSOCIATED DEVICES

Subsection 856: Connected Work Zone Notification System and Associated Devices

Add this new subsection.

DESCRIPTION

856.20: General

The Connected Work Zone Notification System (CWZNS) is a system of field devices that transmit real-time location-based data about work zones. CWZNS field device data is provided in a Work Zone Data Exchange (WZDx) Device Feed in accordance with the United States Department of Transportation (USDOT) WZDx Specification. The Device Feed is consumed by the MassDOT Work Zone Manager (WZM) application.

The Contractor shall be responsible for furnishing, installing, repositioning, operating, maintaining, and removing these CWZNS devices.

MATERIALS

856.40: General

Materials shall meet the requirements specified in the following Subsections of Division III, Materials:

Material	Section
Connected Work Zone Notification System Devices	M10.18.0
Location Marker	M10.18.1
Connected Arrow Board	M10.18.2

End Location Markers shall conform to M10.18.1: Location Marker and include power and communication status lights and an on/off switch.

856.41: Arrow Board

Arrow Boards shall consist of a matrix of yellow elements that may be illuminated in flashing or sequential patterns, on a non-reflective, black background. The light output from the Arrow Board shall meet the minimum legibility distance, per the MUTCD. The elements shall be capable of at least 50% dimming from full brilliance to avoid nighttime glare. Arrow Boards that are continuously operational in both daylight and nighttime conditions shall automatically adjust the light output based upon ambient light conditions.

The mounting height of the Arrow Board, when in operation, shall be per the Plans.

The minimum dimensions and number of elements for Arrow Boards shall be per Table 856.41-1.

Table 856.41-1: Arrow Board Dimensions and Elements

Item Numbers	MUTCD Type	Minimum Dimensions (width by height)	Minimum Number of Elements
856.060, 856.160	B	60 in. by 30 in.	13
856.096, 856.196	C	96 in. by 48 in.	15

Arrow Boards shall be capable of the following operating modes, per the MUTCD:

- Four Corners Flashing Caution
- Alternating Diamond Caution
- Flashing Arrow (left or right)
- Sequential Chevron (left or right)
- Flashing Double Arrow

Arrow Boards that are categorized as “Connected Arrow Boards” (Items 856.160 and 856.196) shall meet the requirements of M10.18.2: Connected Arrow Board in addition to the requirements of an Arrow Board described in this Subsection.

856.42: Shop Drawings

Within 30 days of the Notice to Proceed, the Contractor shall submit to the Engineer for review and approval cut sheets for each model of CWZNS device to be used. The cut sheets shall document device specifications, including details of how the CWZNS device will communicate. Work that requires the use of CWZNS devices shall not commence until the submission has been approved.

CONSTRUCTION METHODS

856.60: General

At least 15 days prior to deploying CWZNS devices, the Contractor shall visit the site to verify cellular coverage. If the devices the Contractor plans to deploy do not have coverage, the Contractor shall swap out the cellular modem, SIM card, or both to a carrier that provides coverage. If no adequate cellular coverage exists from 4G LTE or 5G providers, the Contractor shall immediately notify the Engineer.

The Contractor shall install CWZNS devices at the locations shown on the Plans.

Per the WZDx Specification Device Feed, an End Location Marker shall have a single MarkedLocation with the “type” property as “work-zone-end”.

The Contractor shall install and power on the End Location Marker coinciding with the deployment of the temporary traffic control setup that calls for its use. The Contractor shall power down and remove the Location Marker at the conclusion of the removal of the temporary traffic control setup. If the location of the work moves during a work shift, the Contractor shall power down the Location Marker, relocate it, and then power it back on.

The operating mode for the Arrow Board or Connected Arrow Board shall be per the Plans. When activated, the minimum element on-time shall be 50% for the flashing mode, with equal intervals of 25% for each sequential phase. The flashing rate shall be not less than 25 or more than 40 flashes per minute.

If a Connected Arrow Board is being used to transmit its location without utilizing other arrow board functions, such as operating a Flashing Arrow, the arrow board shall remain dark and removed from the roadway or protected from approaching traffic while the data is being transmitted.

The Contractor shall be responsible for remediating any CWZNS device that is not operating as specified, at no additional cost to the Department.

CWZNS devices that are lost, stolen, vandalized, damaged, destroyed, or deemed unacceptable while their use is required on the project shall be replaced by the Contractor at no additional cost to the Department.

COMPENSATION

856.80: Method of Measurement

Arrow Boards and Connected Arrow Boards will be measured by the Day. Each period of up to 24 hours during which an Arrow Board or Connected Arrow Board is in use will be measured as one day, regardless of the number of times that the unit is positioned, repositioned, removed, or returned to service.

End Location Markers will be measured by the Day. Each period of up to 24 hours during which a End Location Marker is in use will be measured as one day, regardless of the number of times that the unit is positioned, repositioned, removed, or returned to service.

856.81: Basis of Payment

Arrow Boards and Connected Arrow Boards will be paid for at the contract unit price per day which shall include full compensation for labor and materials, positioning, repositioning, and removing or returning to service.

End Location Markers will be paid for at the contract unit price per day which shall include full compensation for labor and materials, positioning, repositioning, and removing or returning to service.

If an End Location Marker is attached to another traffic control device that is not otherwise called for in the Plans or Specifications, that ancillary device shall be considered incidental to the cost of the End Location Marker.

Licenses, fees, communication costs, power costs, and access to real-time and recorded data associated with the Device Feed for CWZNS devices shall be considered incidental to the cost of the item.

The Department will not pay for CWZNS devices that fail to operate as specified.

856.82: Payment Items

Item number	Description	Unit
856.060	Arrow Board (Type B)	Day
856.096	Arrow Board (Type C)	Day
856.160	Connected Arrow Board (Type B)	Day
856.196	Connected Arrow Board (Type C)	Day
856.201	End Location Marker	Day

SECTION 900: STRUCTURES

SUBSECTION 901: CEMENT CONCRETE

Subsection 901.20: Materials

Delete Asphaltic Materials – M3, Preformed Bituminous Fiber Joint Filler – M3.05.3 and add the following in M number sequence:

Preformed Expansion Joint Filler	M9.14.0
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SUBSECTION 983: REVETMENT

Subsection 983.40: General

Delete *Preformed Bituminous Fiber Joint Filler – M3.05.3* and add the following in M number sequence:

Preformed Expansion Joint Filler	M9.14.0
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DIVISION III

MATERIALS SPECIFICATIONS

SECTION M3: ASPHALTIC MATERIALS

Subsection M3.05.5: Preformed Bituminous Joint Filler for Concrete

Delete this subsection.

SECTION M9: MISCELLANEOUS MATERIALS

Subsection M9.14.0: Preformed Expansion Joint Filler

Replace this subsection with the following:

Preformed expansion joint filler for concrete applications and structural construction shall meet the requirements specified herein. The Contractor shall provide certified test data which documents compliance with the required physical properties. The certified test data shall be submitted to the Engineer for approval.

Table M9.14.0-1: Types of Preformed Expansion Joint Filler

Specification	Type and Description
AASHTO M 153	Type I – Sponge Rubber Type II – Cork Type III – Self-Expanding Cork Type IV – Polyurethane-Bonded Recycled Rubber
AASHTO M 213	Type I – Asphalt-Saturated Cellulosic Fiber Type II – Asphalt Binder-Cork with Asphalt-Saturated or Glass Fiber Felt Type III – Polyurethane-Bonded Recycled Rubber
ASTM D1752	Type IV – Recycled PVC
ASTM D7174	Type I – Closed-Cell Polyethylene or Blended Polyethylene Foam
ASTM D8139	Type I – Closed-Cell Polypropylene Foam

Subsection M9.14.2: Closed Cell Foam Joint Filler

Delete this subsection:

M10.03.1: Field Monitoring Unit

All Field Monitoring Units (FMU) shall be compatible with the MassDOT Critical Operations Multi-jurisdictional Modular System (MCOMMS), cloud-based management system.

Subsection M9.14.2: Closed Cell Foam Joint Filler

Delete this subsection:

SECTION M10: TRAFFIC CONTROL DEVICES

Subsection M10.03.1: Field Monitoring Unit

Add these new subsections:

M10.03.1: Field Monitoring Unit

All Field Monitoring Units (FMU) shall be compatible with the MassDOT Critical Operations Multi-jurisdictional Modular System (MCOMMS), cloud-based management system.

FMUs shall be capable of operating independently from the brand of traffic signal controller, vehicle and pedestrian detection systems, battery backup system (BBS), and any other Ethernet-based, web accessible device present in the traffic signal controller cabinet.

M10.03.1.A: Hardware

The FMU shall communicate via an Ethernet port with an RJ45 connector and have an integrated Ethernet switch with a minimum of four ports.

The FMU shall be powered via standard 120 VAC input power. The FMU shall include an integrated battery and battery charging/monitoring circuit that will allow the FMU to fully function even if all other electrical service to the cabinet has been interrupted. The battery shall continue to supply the FMU with power for a minimum of 5 hours on a single charge.

The FMU shall have an integrated GPS that will allow for automated telemetry without additional configuration. The GPS shall be capable of providing a time sync pulse to the internal clock of a connected traffic signal controller. The FMU shall utilize the integrated GPS to geolocate itself on a map via the FMU management software.

M10.03.1.B: Software

The configuration of the FMU shall be accomplished by accessing FMU management software via an internet browser. It shall be possible to configure the FMU without any special software.

The FMU shall operate without requiring a static IP address. The only configuration required at the FMU is to enter the URL to the host of the FMU management software.

The FMU shall utilize HTTPS protocols and XML data structure for communications with the FMU management software. The data shall be scalable for future expansion; proprietary protocols shall not be used.

M10.03.1.C: Wireless Connectivity

The FMU shall be supplied with an internal 4G LTE cellular modem.

The modem shall support future upgrades to 5G service, when available, and shall be compatible with SIM cards from multiple cellular carriers.

M10.03.1.D: Remote Access

Remote access to any traffic signal cabinet component that has a web interface via the FMU shall not require the end user to create a separate Virtual Private Network (VPN) connection.

Subsection M10.08.0: Vehicle Detection Systems

Subsection M10.08.0: Vehicle Detection Systems

Subsection M10.08.0: Vehicle Detection Systems

Add these new subsections:

M10.08.0: Vehicle Detection Systems

Vehicle Detection Systems (VDS) shall be capable of detecting the presence of all motor vehicle types and bicycles in designated areas and sending corresponding detector outputs to a traffic signal controller.

All in-cabinet components of VDS shall be compatible with the following standards:

- ATCC 5301 v02
- ATC 5201 v06
- NEMA TS2 environmental standards

Through an ethernet-based connection to the detection module and/or cabinet interface device in the field or through the internal network of the traffic signal controller cabinet, the VDS shall support remote management of motor vehicle and bicycle detection configurations and access to data including:

- The number, location, and size of detection zones.
- Configuration of the detector channel and assigned phase for each zone.
- Configuration of detection zones for signal performance measurement data collection.
- The ability to add and remove users.
- Signal performance data:
 - o Monitoring and recording the status of the phase and detector channels from the traffic signal controller through the SIU bus at a frequency of no less than 10 times per second.
 - o Estimation of the speed of vehicles at defined, user-configurable points, such as entering or exiting a detection zone.
 - o Retrieval of the signal performance data through an http-based Application Programming Interface (API), or equivalent process, in .xml, .json, or .csv format.
 - o The data shall be available in a per vehicle format, be viewable in real time, and store at least 168 hours of data locally on the device.

VDS shall be capable of supporting user-based restrictions to limit functionality, including:

- The ability to make changes to the VDS settings.
- The ability to view imagery or digital video streams.
- The ability to view and download signal performance data.

VDS shall be capable of automatically determining if the system's ability to accurately detect vehicles and shall default to a constant call state if this system error is detected.

VDS shall be capable of classifying vehicles based upon length and/or number of axles.

VDS shall be capable of performing all detection, classification, and data collection functions in the absence of an internet connection.

VDS shall be capable of providing remote access to the latest images or digital video stream of all IP video units through either an HTTP request or through a Real Time Streaming Protocol compatible with RFC2326 standards. VDS that do not utilize video shall be able to display the current state of the vehicle detection zones and approximate vehicle locations in a digital twin model of the intersection.

M10.08.1: Passive Stop Line Detectors

Passive Stop Line Detectors shall demonstrate a reliability of 99% or greater for vehicle detection functions.

Passive Stop Line Detectors shall be able to track and classify turning movements for all motor vehicle types and bicycles and shall demonstrate an accuracy of 95% or greater for turning movement counts.

M10.08.2: Passive Advanced Detectors

Passive Advanced Detectors shall be capable of detecting all motor vehicle types at a minimum distance of 600 ft upstream of the stop line.

Subsection M10.09.0: Pedestrian Detectors

Subsection M10.09.1: Pedestrian Pushbutton Assembly

Subsection M10.09.2: APS Pushbutton Assembly

Add these new subsections:

M10.09.0: Pedestrian Detectors

Pedestrian Detectors shall be capable of detecting the presence of pedestrians and placing a corresponding call for a phase in a traffic signal controller or similar device.

Pedestrian Detectors may be pushbuttons or passive detection devices.

Components of Pedestrian Detectors shall meet NEMA TS2 compliance for temperature and humidity, mechanical shock and vibration, transient voltage protection, transient suppression, and electrical reliability.

If Pedestrian Detectors include an in-cabinet control unit, it shall meet the following requirements:

- Operate on a cabinet-supplied 120 VAC power source.
- Include labelled LED indicators for each channel operation.
- Include a 10/100BaseT, RJ45 ethernet connector port.
- Capable of communication with the Pedestrian Detectors to allow for remote programming and firmware updates via the ethernet connection.
- Capable of supporting a minimum of 4 pedestrian detectors per NEMA pedestrian phase and up to 16 pushbuttons.
- Will automatically reset upon loss of internal communication.

M10.09.1: Pedestrian Pushbutton Assembly

A Pedestrian Pushbutton Assembly shall consist of a pushbutton, a sign, and a housing to mount those devices to a post.

The pushbutton shall be a minimum of 2 in. in diameter and the force to activate it shall be no greater than 5 lbs. The pushbutton must be weather-tight and tamper-resistant.

The pushbutton shall meet one of the following criteria:

- A normally open, mechanical phenolic enclosed, positive-acting, spring-loaded, audible (i.e., click) snap-action switch with single pole, single throw contacts; or
- A piezo-driven solid state switch rated for a minimum of 50 V, a minimum of 20 million cycles, and capable of providing an audible indication of actuation.

The pushbutton shall have an operating voltage range of 12 to 36 VDC.

The housing shall be yellow.

Housings that include an integral sign mount for the pedestrian pushbutton sign shall be capable of mounting a 9 in. by 12 in. or 9 in. by 15 in. sign (width by height).

M10.09.2: APS Pushbutton Assembly

An APS Pushbutton Assembly shall meet all of the requirements of M10.09.1: Pedestrian Pushbutton Assembly, and the following.

The pushbutton shall have a vibrotactile arrow. The arrow shall have high visual contrast (light on dark or dark on light).

APS Pushbutton Assembly shall be capable of the following:

- Emitting a locator tone.
- Providing two types of audible walk indications: an audible tone in multiple frequencies and a speech message. The type of audible walk indication will be programmed by Contractor per the Plans.
- Emitting sound via one or more speakers that automatically adjust to ambient noise and shall also be capable of being capped at a preprogrammed level.
- Providing three functions as a result of an extended pushbutton press: increased crossing time, audible beaconing, and speech pushbutton information. The function of the extended pushbutton press will be programmed by the Contractor per the Plans.

APS Pushbutton Assembly shall include a latching red LED pilot light.

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CONTRACT PROVISIONS FOR FEDERAL-AID CONSTRUCTION CONTRACTS

- I. General
- II. Nondiscrimination
- III. Davis-Bacon and Related Act Provisions
- IV. Contract Work Hours and Safety Standards Act Provisions
- V. Subletting or Assigning the Contract
- VI. Safety: Accident Prevention
- VII. False Statements Concerning Highway Projects
- VIII. Implementation of Clean Air Act and Federal Water Pollution Control Act
- IX. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion
- X. Certification Regarding Use of Contract Funds for Lobbying
- XI. Use of United States-Flag Vessels

immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. 23 U.S.C. 114(b). The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors. 23 U.S.C. 101(a).

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only).

I. GENERAL

1. Historically, contracting agencies using Federal-aid highway funds were required to ensure Form FHWA-1273 was physically incorporated into all contracts and subcontracts. Effective June 10, 2026, this requirement was eliminated [91 FR 25492]. Future use of Form FHWA-1273 is now optional on the part of the contracting agency using Federal-aid highway funds. FHWA continues to make Form FHWA-1273 available as a convenience to contracting agencies. Contracting agencies must continue to ensure compliance with the provisions cited in Form FHWA-1273 in accordance with the provisions regardless of the use of Form FHWA-1273. Accordingly, the contracting agency retains the authority to determine whether the contractor must use Form FHWA-1273 to physically incorporate required contract provisions in each subcontract and in lower tier contracts. Where permitted by the contracting agency, the contractor may choose other ways to include required contract provisions in each subcontract, besides incorporating Form FHWA-1273. Contract provisions in Form FHWA-1273 are not required to be physically included in subcontracts for design services on Federal-aid design-build contracts, or in purchase orders, rental agreements and other agreements for supplies or services.

The applicable provisions of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor or design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in solicitation-for-bids or request-for-proposals documents.

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's

II. NONDISCRIMINATION

The contractor and all subcontractors must comply with the following policies: 29 CFR Parts 1625-1627, 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), and related regulations including 49 CFR Parts 21, 26, and 27, including any amendments thereto.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with 29 CFR Parts 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), and Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), and related regulations including 49 CFR Parts 21, 26, and 27, including any amendments thereto.

The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR Part 35 and 29 CFR Part 1630 are incorporated by reference in this contract.

1. Assurances Required:

a. The requirements of 49 CFR Part 26, including any amendments thereto, and the State DOT's FHWA-approved Disadvantaged Business Enterprise (DBE) program are incorporated by reference.

b. The contractor, subrecipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR part 26, including any amendments thereto, in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to:

- (1) Withholding monthly progress payments;
- (2) Assessing sanctions;
- (3) Liquidated damages; and/or
- (4) Disqualifying the contractor from future bidding as non-responsible.

c. The Title VI and nondiscrimination provisions of U.S. DOT Order 1050.2A at Appendixes A and E, including any amendments thereto, are incorporated by reference. 49 CFR Part 21.

III. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size), in accordance with 29 CFR 5.5. The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. 23 U.S.C. 113. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. 23 U.S.C. 101. Where applicable law requires that projects be treated as a project on a Federal-aid highway, the provisions of this subpart will apply regardless of the location of the project. Examples include: Surface Transportation Block Grant Program projects funded under 23 U.S.C. 133 [excluding recreational trails projects], the Nationally Significant Freight and Highway Projects funded under 23 U.S.C. 117, and National Highway Freight Program projects funded under 23 U.S.C. 167.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA-1273 format and FHWA program requirements.

1. Minimum wages (29 CFR 5.5)

a. *Wage rates and fringe benefits.* All laborers and mechanics employed or working upon the site of the work (or otherwise working in construction or development of the project under a development statute), will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act ([29 CFR part 3](#))), the full amount of basic hourly wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. As provided in paragraphs (d) and (e) of 29 CFR 5.5, the appropriate wage determinations are effective by operation of law even if they have not been attached to the contract. Contributions made or costs reasonably anticipated for bona fide fringe benefits under the Davis-Bacon Act ([40 U.S.C. 3141\(2\)\(B\)](#)) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.e. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics must be paid the appropriate wage rate and fringe benefits on the wage determination for the classification(s) of work actually performed, without regard to skill, except as provided in

paragraph 4. of this section. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: *Provided*, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classifications and wage rates conformed under paragraph 1.c. of this section) and the Davis-Bacon poster (WH-1321) must be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. *Frequently recurring classifications.* (1) In addition to wage and fringe benefit rates that have been determined to be prevailing under the procedures set forth in [29 CFR part 1](#), a wage determination may contain, pursuant to § 1.3(f), wage and fringe benefit rates for classifications of laborers and mechanics for which conformance requests are regularly submitted pursuant to paragraph 1.c. of this section, provided that:

(i) The work performed by the classification is not performed by a classification in the wage determination for which a prevailing wage rate has been determined;

(ii) The classification is used in the area by the construction industry; and

(iii) The wage rate for the classification bears a reasonable relationship to the prevailing wage rates contained in the wage determination.

(2) The Administrator will establish wage rates for such classifications in accordance with paragraph 1.c.(1)(iii) of this section. Work performed in such a classification must be paid at no less than the wage and fringe benefit rate listed on the wage determination for such classification.

c. *Conformance.* (1) The contracting officer must require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract be classified in conformance with the wage determination. Conformance of an additional classification and wage rate and fringe benefits is appropriate only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is used in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) The conformance process may not be used to split, subdivide, or otherwise avoid application of classifications listed in the wage determination.

(3) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the

classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken will be sent by the contracting officer by email to DBAconformance@dol.gov. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(4) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer will, by email to DBAconformance@dol.gov, refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(5) The contracting officer must promptly notify the contractor of the action taken by the Wage and Hour Division under paragraphs 1.c.(3) and (4) of this section. The contractor must furnish a written copy of such determination to each affected worker or it must be posted as a part of the wage determination. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph 1.c.(3) or (4) of this section must be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

d. Fringe benefits not expressed as an hourly rate. Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor may either pay the benefit as stated in the wage determination or may pay another bona fide fringe benefit or an hourly cash equivalent thereof.

e. Unfunded plans. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, *Provided*, That the Secretary of Labor has found, upon the written request of the contractor, in accordance with the criteria set forth in § 5.28, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

f. Interest. In the event of a failure to pay all or part of the wages required by the contract, the contractor will be required to pay interest on any underpayment of wages.

2. Withholding (29 CFR 5.5)

a. Withholding requirements. The contracting agency may, upon its own action, or must, upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered

necessary to satisfy the liabilities of the prime contractor or any subcontractor for the full amount of wages and monetary relief, including interest, required by the clauses set forth in this section for violations of this contract, or to satisfy any such liabilities required by any other Federal contract, or federally assisted contract subject to Davis-Bacon labor standards, that is held by the same prime contractor (as defined in § 5.2). The necessary funds may be withheld from the contractor under this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract that is subject to Davis-Bacon labor standards requirements and is held by the same prime contractor, regardless of whether the other contract was awarded or assisted by the same agency, and such funds may be used to satisfy the contractor liability for which the funds were withheld. In the event of a contractor's failure to pay any laborer or mechanic, including any apprentice or helper working on the site of the work all or part of the wages required by the contract, or upon the contractor's failure to submit the required records as discussed in paragraph 3.d. of this section, the contracting agency may on its own initiative and after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

b. Priority to withheld funds. The Department has priority to funds withheld or to be withheld in accordance with paragraph 2.a. of this section or Section IV, paragraph 3.a., or both, over claims to those funds by:

(1) A contractor's surety(ies), including without limitation performance bond sureties and payment bond sureties;

(2) A contracting agency for its procurement costs;

(3) A trustee(s) (either a court-appointed trustee or a U.S. trustee, or both) in bankruptcy of a contractor, or a contractor's bankruptcy estate;

(4) A contractor's assignee(s);

(5) A contractor's successor(s); or

(6) A claim asserted under the Prompt Payment Act, [31 U.S.C. 3901-3907](#).

3. Records and certified payrolls (29 CFR 5.5)

a. Basic record requirements (1) Length of record retention. All regular payrolls and other basic records must be maintained by the contractor and any subcontractor during the course of the work and preserved for all laborers and mechanics working at the site of the work (or otherwise working in construction or development of the project under a development statute) for a period of at least 3 years after all the work on the prime contract is completed.

(2) *Information required.* Such records must contain the name; Social Security number; last known address, telephone number, and email address of each such worker; each worker's correct classification(s) of work actually performed; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in [40 U.S.C. 3141\(2\)\(B\)](#) of the Davis-Bacon Act); daily and weekly number

of hours actually worked in total and on each covered contract; deductions made; and actual wages paid.

(3) *Additional records relating to fringe benefits.* Whenever the Secretary of Labor has found under paragraph 1.e. of this section that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in [40 U.S.C. 3141\(2\)\(B\)](#) of the Davis-Bacon Act, the contractor must maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits.

(4) *Additional records relating to apprenticeship.* Contractors with apprentices working under approved programs must maintain written evidence of the registration of apprenticeship programs, the registration of the apprentices, and the ratios and wage rates prescribed in the applicable programs.

b. *Certified payroll requirements (1) Frequency and method of submission.* The contractor or subcontractor must submit weekly, for each week in which any DBA- or Related Acts-covered work is performed, certified payrolls to the contracting agency. The prime contractor is responsible for the submission of all certified payrolls by all subcontractors. A contracting agency or prime contractor may permit or require contractors to submit certified payrolls through an electronic system, as long as the electronic system requires a legally valid electronic signature; the system allows the contractor, the contracting agency, and the Department of Labor to access the certified payrolls upon request for at least 3 years after the work on the prime contract has been completed; and the contracting agency or prime contractor permits other methods of submission in situations where the contractor is unable or limited in its ability to use or access the electronic system.

(2) *Information required.* The certified payrolls submitted must set out accurately and completely all of the information required to be maintained under paragraph 3.a.(2) of this section, except that full Social Security numbers and last known addresses, telephone numbers, and email addresses must not be included on weekly transmittals. Instead, the certified payrolls need only include an individually identifying number for each worker (e.g., the last four digits of the worker's Social Security number). The required weekly certified payroll information may be submitted using Optional Form WH-347 or in any other format desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division website at <https://www.dol.gov/sites/dolgov/files/WHD/legacy/files/wh347.pdf> or its successor website. It is not a violation of this section for a prime contractor to require a subcontractor to provide full Social Security numbers and last known addresses, telephone numbers, and email addresses to the prime contractor for its own records, without weekly submission by the subcontractor to the contracting agency.

(3) *Statement of Compliance.* Each certified payroll submitted must be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor, or the contractor's or subcontractor's agent who pays or supervises the payment of the persons working on the contract, and must certify the following:

(i) That the certified payroll for the payroll period contains the information required to be provided under paragraph 3.b. of this section, the appropriate information and basic records are being maintained under paragraph 3.a. of this section, and such information and records are correct and complete;

(ii) That each laborer or mechanic (including each helper and apprentice) working on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in [29 CFR part 3](#); and

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification(s) of work actually performed, as specified in the applicable wage determination incorporated into the contract.

(4) *Use of Optional Form WH-347.* The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 will satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(3) of this section.

(5) *Signature.* The signature by the contractor, subcontractor, or the contractor's or subcontractor's agent must be an original handwritten signature or a legally valid electronic signature.

(6) *Falsification.* The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under [18 U.S.C. 1001](#) and [31 U.S.C. 3729](#).

(7) *Length of certified payroll retention.* The contractor or subcontractor must preserve all certified payrolls during the course of the work and for a period of 3 years after all the work on the prime contract is completed.

c. *Contracts, subcontracts, and related documents.* The contractor or subcontractor must maintain this contract or subcontract and related documents including, without limitation, bids, proposals, amendments, modifications, and extensions. The contractor or subcontractor must preserve these contracts, subcontracts, and related documents during the course of the work and for a period of 3 years after all the work on the prime contract is completed.

d. *Required disclosures and access (1) Required record disclosures and access to workers.* The contractor or subcontractor must make the records required under paragraphs 3.a. through 3.c. of this section, and any other documents that the contracting agency, the State DOT, the FHWA, or the Department of Labor deems necessary to determine compliance with the labor standards provisions of any of the applicable statutes referenced by § 5.1, available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and must permit such representatives to interview workers during working hours on the job.

(2) *Sanctions for non-compliance with records and worker access requirements.* If the contractor or subcontractor fails to submit the required records or to make them available, or refuses to permit worker interviews during working hours on the job, the Federal agency may, after written notice to the contractor, sponsor, applicant, owner, or other entity, as the case may be, that maintains such records or that employs such workers, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available, or to permit worker interviews during working hours on the job, may be grounds for debarment action pursuant to § 5.12. In addition, any contractor or other person that fails to submit the required records or make those records available to WHD within the time WHD requests that the records be produced will be precluded from introducing as evidence in an administrative proceeding under [29 CFR part 6](#) any of the required records that were not provided or made available to WHD. WHD will take into consideration a reasonable request from the contractor or person for an extension of the time for submission of records. WHD will determine the reasonableness of the request and may consider, among other things, the location of the records and the volume of production.

(3) *Required information disclosures.* Contractors and subcontractors must maintain the full Social Security number and last known address, telephone number, and email address of each covered worker, and must provide them upon request to the contracting agency, the State DOT, the FHWA, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or other compliance action.

4. Apprentices and equal employment opportunity (29 CFR 5.5)

a. *Apprentices (1) Rate of pay.* Apprentices will be permitted to work at less than the predetermined rate for the work they perform when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship (OA), or with a State Apprenticeship Agency recognized by the OA. A person who is not individually registered in the program, but who has been certified by the OA or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice, will be permitted to work at less than the predetermined rate for the work they perform in the first 90 days of probationary employment as an apprentice in such a program. In the event the OA or a State Apprenticeship Agency recognized by the OA withdraws approval of an apprenticeship program, the contractor will no longer be permitted to use apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(2) *Fringe benefits.* Apprentices must be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringe benefits must be paid in accordance with that determination.

(3) *Apprenticeship ratio.* The allowable ratio of apprentices to journeyworkers on the job site in any craft classification must not be greater than the ratio permitted to the contractor as to the entire work force under the registered program or the ratio applicable to the locality of the project pursuant to paragraph 4.a.(4) of this section. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated in paragraph 4.a.(1) of this section, must be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under this section must be paid not less than the applicable wage rate on the wage determination for the work actually performed.

(4) *Reciprocity of ratios and wage rates.* Where a contractor is performing construction on a project in a locality other than the locality in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyworker's hourly rate) applicable within the locality in which the construction is being performed must be observed. If there is no applicable ratio or wage rate for the locality of the project, the ratio and wage rate specified in the contractor's registered program must be observed.

b. *Equal employment opportunity.* The use of apprentices and journeyworkers under this part must be in conformity with [29 CFR part 30](#), including any amendments thereto.

c. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section III. 23 CFR 230.111(e)(2). The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeyworkers shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract as provided in 29 CFR 5.5.

6. Subcontracts. The contractor or subcontractor must insert in any subcontracts the clauses set forth in paragraphs (1) through (11) of this section, along with the applicable wage determination(s) and such other clauses or contract modifications as the contracting agency may by appropriate instructions require, and a clause requiring the subcontractors to include these clauses and wage determination(s) in any lower tier subcontracts. The prime contractor is responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in this section. In the event of any violations of these clauses, the prime contractor and any subcontractor(s) responsible will be liable for any unpaid wages and monetary relief, including interest from the date of the underpayment or loss, due to any workers of lower-tier subcontractors, and may be subject to debarment, as appropriate. 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the

contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract as provided in 29 CFR 5.5.

9. Disputes concerning labor standards. As provided in 29 CFR 5.5, disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility. a. By entering into this contract, the contractor certifies that neither it nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of [40 U.S.C. 3144\(b\)](#) or § 5.12(a).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of [40 U.S.C. 3144\(b\)](#) or § 5.12(a).

c. The penalty for making false statements is prescribed in the U.S. Code, Title 18 Crimes and Criminal Procedure, [18 U.S.C. 1001](#).

11. Anti-retaliation. It is unlawful for any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, or to cause any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, any worker or job applicant for:

a. Notifying any contractor of any conduct which the worker reasonably believes constitutes a violation of the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#);

b. Filing any complaint, initiating or causing to be initiated any proceeding, or otherwise asserting or seeking to assert on behalf of themselves or others any right or protection under the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#);

c. Cooperating in any investigation or other compliance action, or testifying in any proceeding under the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#); or

d. Informing any other person about their rights under the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#).

IV. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

Pursuant to 29 CFR 5.5(b), the following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the

Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchpersons and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek. 29 CFR 5.5.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph 1. of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages and interest from the date of the underpayment. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchpersons and guards, employed in violation of the clause set forth in paragraph 1. of this section, in the sum currently provided in 29 CFR 5.5(b)(2)* for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph 1. of this section.

* \$33 as of January 15, 2025 (See 90 FR 1859) as may be adjusted annually by the Department of Labor, pursuant to the Federal Civil Penalties Inflation Adjustment Act of 1990.

3. Withholding for unpaid wages and liquidated damages

a. *Withholding process.* The FHWA or the contracting agency may, upon its own action, or must, upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered necessary to satisfy the liabilities of the prime contractor or any subcontractor for any unpaid wages; monetary relief, including interest; and liquidated damages required by the clauses set forth in this section on this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract subject to the Contract Work Hours and Safety Standards Act that is held by the same prime contractor (as defined in § 5.2). The necessary funds may be withheld from the contractor under this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract that is subject to the Contract Work Hours and Safety Standards Act and is held by the same prime contractor, regardless of whether the other contract was awarded or assisted by the same agency, and such funds may be used to satisfy the contractor liability for which the funds were withheld.

b. *Priority to withheld funds.* The Department has priority to funds withheld or to be withheld in accordance with Section III paragraph 2.a. or paragraph 3.a. of this section, or both, over claims to those funds by:

- (1) A contractor's surety(ies), including without limitation performance bond sureties and payment bond sureties;
- (2) A contracting agency for its procurement costs;
- (3) A trustee(s) (either a court-appointed trustee or a U.S. trustee, or both) in bankruptcy of a contractor, or a contractor's bankruptcy estate;
- (4) A contractor's assignee(s);
- (5) A contractor's successor(s); or
- (6) A claim asserted under the Prompt Payment Act, [31 U.S.C. 3901](#)–3907.

4. Subcontracts. The contractor or subcontractor must insert in any subcontracts the clauses set forth in paragraphs 1. through 5. of this section and a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor is responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs 1. through 5. In the event of any violations of these clauses, the prime contractor and any subcontractor(s) responsible will be liable for any unpaid wages and monetary relief, including interest from the date of the underpayment or loss, due to any workers of lower-tier subcontractors, and associated liquidated damages and may be subject to debarment, as appropriate.

5. Anti-retaliation. It is unlawful for any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, or to cause any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, any worker or job applicant for:

- a. Notifying any contractor of any conduct which the worker reasonably believes constitutes a violation of the Contract Work Hours and Safety Standards Act (CWHSSA) or its implementing regulations in this part;
- b. Filing any complaint, initiating or causing to be initiated any proceeding, or otherwise asserting or seeking to assert on behalf of themselves or others any right or protection under CWHSSA or this part;
- c. Cooperating in any investigation or other compliance action, or testifying in any proceeding under CWHSSA or this part; or
- d. Informing any other person about their rights under CWHSSA or this part.

V. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System pursuant to 23 CFR 635.116.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of

the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" in paragraph 1. of this section refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions: (based on longstanding interpretation)

- (1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
- (2) the prime contractor remains responsible for the quality of the work of the leased employees;
- (3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and
- (4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract. 23 CFR 635.102.

2. Pursuant to 23 CFR 635.116(a), the contract amount upon which the requirements set forth in paragraph 1. of this section is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. Pursuant to 23 CFR 635.116(c), the contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract. (based on longstanding interpretation of 23 CFR 635.116).

5. The 30-percent self-performance requirement of paragraph (1) is not applicable to design-build contracts; however,

contracting agencies may establish their own self-performance requirements. 23 CFR 635.116(d).

VI. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR Part 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract. 23 CFR 635.108.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and health standards (29 CFR Part 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704). 29 CFR 1926.10.

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

VII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR Part 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the

character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 11, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

VIII. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT (42 U.S.C. 7606; 2 CFR 200.88; EO 11738)

This provision is applicable to all Federal-aid construction contracts in excess of \$150,000 and to all related subcontracts. 48 CFR 2.101; 2 CFR 200.327.

By submission of this bid/proposal or the execution of this contract or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, subcontractor, supplier, or vendor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal Highway Administration and the Regional Office of the Environmental Protection Agency. 2 CFR Part 200, Appendix II.

The contractor agrees to include or cause to be included the requirements of this Section in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements. 2 CFR 200.327.

IX. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200. 2 CFR 180.220 and 1200.220.

1. Instructions for Certification – First Tier Participants:

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this

covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction. 2 CFR 180.320.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default. 2 CFR 180.325.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances. 2 CFR 180.345 and 180.350.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900-180.1020, and 1200. "First Tier Covered Transactions" refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction. 2 CFR 180.330.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold. 2 CFR 180.220 and 180.300.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. 2 CFR 180.300; 180.320, and 180.325. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. 2 CFR 180.335. To verify the eligibility of its principals, as well as the

eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (<https://www.sam.gov/>). 2 CFR 180.300, 180.320, and 180.325.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default. 2 CFR 180.325.

* * * * *

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.335;

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property, 2 CFR 180.800;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification, 2 CFR 180.700 and 180.800; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default. 2 CFR 180.335(d).

(5) Are not a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(6) Are not a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability (USDOT Order 4200.6 implementing appropriations act requirements).

b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal. 2 CFR 180.335 and 180.340.

3. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders, and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200). 2 CFR 180.220 and 1200.220.

a. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances. 2 CFR 180.365.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900 – 180.1020, and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contractor). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers to any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated. 2 CFR 1200.220 and 1200.332.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold. 2 CFR 180.220 and 1200.220.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered

transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (<https://www.sam.gov/>), which is compiled by the General Services Administration. 2 CFR 180.300, 180.320, 180.330, and 180.335.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment. 2 CFR 180.325.

4. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

a. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals:

(1) is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.355;

(2) is a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(3) is a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability. (USDOT Order 4200.6 implementing appropriations act requirements)

b. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal.

X. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000. 49 CFR Part 20, App. A.

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

XI. USE OF UNITED STATES-FLAG VESSELS:

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, or any other covered transaction. 46 CFR Part 381.

This requirement applies to material or equipment that is acquired for a specific Federal-aid highway project. 46 CFR 381.7. It is not applicable to goods or materials that come into inventories independent of an FHWA funded-contract.

When oceanic shipments (or shipments across the Great Lakes) are necessary for materials or equipment acquired for a specific Federal-aid construction project, the bidder, proposer, contractor, subcontractor, or vendor agrees:

1. To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the

extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels. 46 CFR 381.7.

2. To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (b)(1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Office of Cargo and Commercial Sealift (MAR-620), Maritime Administration, Washington, DC 20590. (MARAD requires copies of the ocean carrier's (master) bills of lading, certified onboard, dated, with rates and charges. These bills of lading may contain business sensitive information and therefore may be submitted directly to MARAD by the Ocean Transportation Intermediary on behalf of the contractor). 46 CFR 381.7.

ATTACHMENT A - EMPLOYMENT AND MATERIALS PREFERENCE FOR APPALACHIAN DEVELOPMENT HIGHWAY SYSTEM OR APPALACHIAN LOCAL ACCESS ROAD CONTRACTS (40 U.S.C. sections 14501(d) and 14701 and the Appalachian Regional Commission Code as authorized under 40 U.S.C. section 14302)
This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone. If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 40 U.S.C. 14501 allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

DOCUMENT 00811

SPECIAL PROVISIONS
MONTHLY PRICE ADJUSTMENT FOR HOT MIX ASPHALT (HMA) MIXTURES
Revised: 02/03/2023

This provision applies to all projects using greater than 100 tons of hot mix asphalt (HMA) mixtures containing liquid asphalt cement as stipulated in the Notice to Contractors section of the bid documents.

Price Adjustments will be based on the variance in price, for the liquid asphalt component only, between the Base Price and the Period Price. They shall not include transportation or other charges. Price Adjustments will occur on a monthly basis.

Base Price

The Base Price of liquid asphalt on a project as listed in the Notice to Contractors section of the bid documents is a fixed price determined by the Department at the time of the bid using the same method as the determination of the Period Price detailed below. The Base Price shall be used in all bids.

Period Price

The Period Price is the price of liquid asphalt for each monthly period as determined by the Department using the average selling price per standard ton of PG64-28 paving grade (primary binder classification) asphalt, FOB manufacturer's terminal, as listed under the "East Coast Market - New England, Boston, Massachusetts area" section of the Poten & Partners, Inc. "Asphalt Weekly Monitor". This average selling price is listed in the issue having a publication date of the second Friday of the month and will be posted as the Period Price for that month. The Department will post this Period Price on its website at <https://www.mass.gov/service-details/massdot-current-contract-price-adjustments> following its receipt of the relevant issue of the "Asphalt Weekly Monitor". Poten and Partners has granted the Department the right to publish this specific asphalt price information sourced from the Asphalt Weekly Monitor.

Price Adjustment Determination, Calculation and Payment

The Contract Price of the HMA mixture will be paid under the respective item in the Contract. Price Adjustments, as herein provided, either upwards or downwards, will be made after the work has been performed using the monthly period price for the month during which the work was performed.

Price Adjustments will be paid only if the variance from the Base Price is 5% or more for a monthly period. The complete adjustment will be paid in all cases with no deduction of the 5% from either upward or downward adjustments.

The Price Adjustment applies only to the actual virgin liquid asphalt content in the mixture placed on the job in accordance with the approved Job Mix Formula.

Price Adjustments will be separate payment items. The pay item numbers are 999.401 for a positive price adjustment (a payment) and 999.402 for a negative price adjustment (a deduction). Price Adjustments will be calculated using the following equation:

Price Adjustment = Tons of HMA Placed X Liquid Asphalt Content % X RAP Factor X (Period Price - Base Price)

No Price Adjustment will be allowed beyond the Completion Date of this Contract, unless there is a Department-approved extension of time.

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DOCUMENT 00812

SPECIAL PROVISIONS
MONTHLY PRICE ADJUSTMENT FOR DIESEL FUEL AND GASOLINE –
ENGLISH UNITS
Revised: 02/01/2021

This monthly fuel price adjustment is inserted in this contract because the national and worldwide energy situation has made the future cost of fuel unpredictable. This adjustment will provide for either additional compensation to the Contractor or repayment to the Commonwealth, depending on an increase or decrease in the average price of diesel fuel or gasoline.

This adjustment will be based on fuel usage factors for various items of work developed by the Highway Research Board in Circular 158, dated July 1974. These factors will be multiplied by the quantities of work done in each item during each monthly period and further multiplied by the variance in price from the Base Price to the Period Price.

The Base Price of Diesel Fuel and Gasoline will be the price as indicated in the Department's web site <https://www.mass.gov/service-details/massdot-current-contract-price-adjustments> for the month in which the contract was bid, which includes State Tax.

The Period Price will be the average of prices charged to the State, including State Tax for the bulk purchases made during each month.

This adjustment will be effected only if the variance from the Base Price is 5% or more for a monthly period. The complete adjustment will be paid in all cases with no deduction of the 5% from either upward or downward adjustments.

No adjustment will be paid for work done beyond the extended completion date of any contract.

Any adjustment (increase or decrease) to estimated quantities made to each item at the time of final payment will have the fuel price adjustment figured at the average period price for the entire term of the project for the difference of quantity.

The fuel price adjustment will apply only to the following items of work at the fuel factors shown:

ITEMS COVERED	FUEL FACTORS	
	Diesel	Gasoline
Excavation: and Borrow Work: Items 120, 120.1, 121, 123, 124, 125, 127, 129.3, 140, 140.1, 141, 142, 143, 144, 150, 150.1, 151 and 151.1 (Both Factors used)	0.29 Gallons / CY.	0.15 Gallons / CY
Surfacing Work: All Items containing Hot Mix Asphalt	2.90 Gallons / Ton	Does Not Apply

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DOCUMENT 00813

SPECIAL PROVISIONS

PRICE ADJUSTMENTS FOR STRUCTURAL STEEL AND REINFORCING STEEL

August 19, 2026

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 = $\$0.82/\text{Pound} \times 0.950 = \$0.78/\text{Pound}$

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	\$0.58
2	ASTM A27 (AASHTO M103) Steel Castings, H-Pile Points & Pipe Pile Shoes (See Note below.)	\$0.81
3	ASTM A668 / A668M (AASHTO M102) Steel Forgings	\$0.81
4	ASTM A108 (AASHTO M169) Steel Forgings for Shear Studs	\$0.84
5	ASTM A709/A709M Grade 36 / AASHTO M270M/M270 Grade 36 or 250 Structural Steel Plate	\$0.88
6	ASTM A709/A709M Grade 36 / AASHTO M270M/M270 Grade 36 or 250 Structural Steel Shapes	\$0.83
7	ASTM A709/A709M Grade 50 / AASHTO M270M/M270 Grade 50 or 345 Structural Steel Plate	\$0.88
8	ASTM A709/A709M Grade 50 / AASHTO M270M/M270 Grade 50 or 345 Structural Steel Shapes	\$0.83
9	ASTM A709/A709M Grade 50WT / AASHTO M270M/M270 Grade 50WT or 345WT Structural Steel Plate	\$0.91
10	ASTM A709/A709M Grade 50WT / AASHTO M270M/M270 Grade 50WT or 345WT Structural Steel Shapes	\$0.84
11	ASTM A709/A709M Grade 50W / AASHTO M270M/M270 Grade 50W 345W Structural Steel Plate	\$0.91
12	ASTM A709/A709M Grade 50W / AASHTO M270M/M270 Grade 50W or 345W Structural Steel Shapes	\$0.84
13	ASTM A709/A709M Grade HPS 50W / AASHTO M270M/M270 Grade HPS 50W or 345W Structural Steel Plate	\$0.95
14	ASTM A709/A709M Grade HPS 70W / AASHTO M270M/M270 Grade HPS 70W or 485W Structural Steel Plate	\$1.03
15	ASTM A514/A514M-05 Grade HPS 100W / AASHTO M270M/M270 Grade HPS 100W or 690W Structural Steel Plate	\$1.57
16	ASTM A992/A992M Grade 50S / AASHTO M270M/M270 Grade 50S or 345S Structural Steel Plate	\$0.91
17	ASTM A992/A992M Grade 50S / AASHTO M270M/M270 Grade 50S or 345S Structural Steel Shapes	\$0.84
18	ASTM A276 Type 316 Stainless Steel	\$4.71
19	ASTM A240 Type 316 Stainless Steel	\$4.71
20	ASTM A148 Grade 80/50 Steel Castings (See Note below.)	\$1.62
21	ASTM A53 Grade B Structural Steel Pipe	\$1.03
22	ASTM A500 Grades A, B, 36 & 50 Structural Steel Pipe	\$1.03
23	ASTM A252, Grades 240 (36 KSI) & 414 (60 KSI) Pipe Pile	\$0.81
24	ASTM 252, Grade 2 Permanent Steel Casing	\$0.81
25	ASTM A36 (AASHTO M183) for H-piles, steel supports and sign supports	\$0.86
26	ASTM A328 / A328M, Grade 50 (AASHTO M202) Steel Sheetpiling	\$1.54
27	ASTM A572 / A572M, Grade 50 Sheetpiling	\$1.54
28	ASTM A36/36M, Grade 50	\$0.88
29	ASTM A570, Grade 50	\$0.86
30	ASTM A572 (AASHTO M223), Grade 50 H-Piles	\$0.88
31	ASTM A1085 Grade A (50 KSI) Steel Hollow Structural Sections (HSS), heat-treated per ASTM A1085 Supplement S1	\$1.03
32	AREA 140 LB Rail and Track Accessories	\$0.53

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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DOCUMENT 00820

**THE COMMONWEALTH OF MASSACHUSETTS
SUPPLEMENTAL EQUAL EMPLOYMENT OPPORTUNITY,
NON-DISCRIMINATION AND AFFIRMATIVE ACTION PROGRAM**

I. Definitions

For purposes of this contract,

"Minority" means a person who meets one or more of the following definitions:

- (a) American Indian or Native American means: all persons having origins in any of the original peoples of North America and who are recognized as an Indian by a tribe or tribal organization.
- (b) Asian means: All persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian sub-continent, or the Pacific Islands, including, but Not limited to China, Japan, Korea, Samoa, India, and the Philippine Islands.
- (c) Black means: All persons having origins in any of the Black racial groups of Africa, including, but not limited to, African-Americans, and all persons having origins in any of the original peoples of the Cape Verdean Islands.
- (d) Eskimo or Aleut means: All persons having origins in any of the peoples of Northern Canada, Greenland, Alaska, and Eastern Siberia.
- (e) Hispanic means: All persons having their origins in any of the Spanish-speaking peoples of Mexico, Puerto Rico, Cuba, Central or South America, or the Caribbean Islands.

"State construction contract" means a contract for the construction, reconstruction, installation, demolition, maintenance or repair of a building or capital facility, or a contract for the construction, reconstruction, alteration, remodeling or repair of a public work undertaken by a department, agency, board, or commission of the commonwealth.

"State assisted construction contract" means a contract for the construction, reconstruction, installation, demolition, maintenance or repair of a building or capital facility undertaken by a political subdivision of the commonwealth, or two or more political subdivisions thereof, an authority, or other instrumentality and whose costs of the contract are paid for, reimbursed, grant funded, or otherwise supported, in whole or in part, by the commonwealth.

II. Equal Opportunity, Non-Discrimination and Affirmative Action

During the performance of this Contract, the Contractor and all subcontractors (hereinafter collectively referred to as "the Contractor") for a state construction contract or a state assisted construction contract, for him/herself, his/her assignees and successors in interest, agree to comply with all applicable equal employment opportunity, non-discrimination and affirmative action requirements, including but not limited to the following:

In connection with the performance of work under this contract, the Contractor shall not discriminate against any employee or applicant for employment because of race, color, religious creed, national origin, sex, sexual orientation, genetic information, military service, age, ancestry or disability, shall not discriminate in the selection or retention of subcontractors, and shall not discriminate in the procurement of materials and rentals of equipment.

The aforesaid provision shall include, but not be limited to, the following: employment upgrading, demotion, or transfer; recruitment advertising, layoff or termination; rates of pay or other forms of compensation; conditions or privileges of employment; and selection for apprenticeship or on-the-job training opportunity. The Contractor shall comply with the provisions of chapter 151B of the Massachusetts General Laws, as amended, and all other applicable anti-discrimination and equal opportunity laws, all of which are herein incorporated by reference and made a part of this Contract.

The Contractor shall post hereafter in conspicuous places, available for employees and applicants for employment, notices to be provided by the Massachusetts Commission Against Discrimination setting forth the provisions of the Fair Employment Practices Law of the Commonwealth (Massachusetts General Laws Chapter 151 B).

In connection with the performance of work under this contract, the Contractor shall undertake, in good faith, affirmative action measures to eliminate any discriminatory barriers in the terms and conditions of employment on the grounds of race, color, religious creed, national origin, sex, sexual orientation, genetic information, military service, age, ancestry or disability. Such affirmative action measures shall entail positive and aggressive measures to ensure nondiscrimination and to promote equal opportunity in the areas of hiring, upgrading, demotion or transfer, recruitment, layoff or termination, rate of compensation, apprenticeship and on-the-job training programs. A list of positive and aggressive measures shall include, but not be limited to, advertising employment opportunities in minority and other community news media; notifying minority, women and other community-based organizations of employment opportunities; validating all job specifications, selection requirements, and tests; maintaining a file of names and addresses of each worker referred to the Contractor and what action was taken concerning such worker; and notifying the administering agency in writing when a union with whom the Contractor has a collective bargaining agreement has failed to refer a minority or woman worker. These and other affirmative action measures shall include all actions required to guarantee equal employment opportunity for all persons, regardless of race, color, religious creed, national origin, sex, sexual orientation, genetic information, military service, age, ancestry or disability. One purpose of this provision is to ensure to the fullest extent possible an adequate supply of skilled tradesmen for this and future Commonwealth public construction projects.

III. Minority and Women Workforce Participation

Pursuant to his/her obligations under the preceding section, the Contractor shall strive to achieve on this project the labor participation goals contained herein. Said participation goals shall apply in each job category on this project including but not limited to bricklayers, carpenters, cement masons, electricians, ironworkers, operating engineers and those classes of work enumerated in Section 44F of Chapter 149 of the Massachusetts General Laws. The participation goals for this project shall be 15.3% for minorities and 6.9% for women. The participation goals, as set forth herein, shall not be construed as quotas or set-asides; rather, such participation goals will be used to measure the progress of the Commonwealth's equal opportunity, non-discrimination and affirmative action program. Additionally, the participation goals contained herein should not be seen or treated as a floor or as a ceiling for the employment of particular individuals or group of individuals.

IV. Liaison Committee

At the discretion of the agency that administers the contract for the construction project there may be established for the life of the contract a body to be known as the Liaison Committee. The Liaison Committee shall be composed of one representative each from the agency or agencies administering the contract for the construction project, hereinafter called the administering agency, a representative from the Office of Affirmative action, and such other representatives as may be designated by the administering agency. The Contractor (or his/her agent, if any, designated by him/her as the on-site equal employment opportunity officer) shall recognize the Liaison Committee as an affirmative action body, and shall establish a continuing working relationship with the Liaison Committee, consulting with the Liaison Committee on all matters related to minority recruitment, referral, employment and training.

V. Reports and Records

The Contractor shall prepare projected workforce tables on a quarterly basis when required by the administering agency. These shall be broken down into projections, by week, of workers required in each trade. Copies shall be furnished one week in advance of the commencement of the period covered, and also, when updated, to the administering agency and the Liaison Committee when required.

The Contractor shall prepare weekly reports in a form approved by the administering agency, unless information required is required to be reported electronically by the administering agency, the number of hours worked in each trade by each employee, identified as woman, minority, or non-minority. Copies of these shall be provided at the end of each such week to the administering agency and the Liaison Committee.

Records of employment referral orders, prepared by the Contractor, shall be made available to the administering agency on request.

The Contractor will provide all information and reports required by the administering agency on instructions issued by the administering agency and will permit access to its facilities and any books, records, accounts and other sources of information which may be determined by the administering agency to effect the employment of personnel. This provision shall apply only to information pertinent to the Commonwealth's supplementary non-discrimination, equal opportunity and access and opportunity contract requirements. Where information required is in the exclusive possession of another who fails or refuses to furnish this information, the Contractor shall so certify to the administering agency and shall set forth what efforts he has made to obtain the information.

VI. Access to Work Site

A designee of the administering agency and a designee of the Liaison Committee shall each have a right to access the work site.

VII. Solicitations for Subcontracts, and for the Procurement of Materials and Equipment

In all solicitations either by competitive bidding or negotiation made by the Contractor either for work to be performed under a subcontract or for the procurement of materials or equipment, each potential subcontractor or supplier shall be notified in writing by the Contractor of the Contractor's obligations under this contract relative to non-discrimination and equal opportunity.

VIII. Sanctions

Whenever the administering agency believes the General or Prime Contractor or any subcontractor may not be operating in compliance with the provisions of the Fair Employment Practices Law of the Commonwealth (Massachusetts General Laws Chapter 151B), the administering agency may refer the matter to the Massachusetts Commission Against Discrimination ("Commission") for investigation.

Following the referral of a matter by the administering agency to the Massachusetts Commission Against Discrimination, and while the matter is pending before the MCAD, the administering agency may withhold payments from contractors and subcontractors when it has documentation that the contractor or subcontractor has violated the Fair Employment Practices Law with respect to its activities on the Project, or if the administering agency determines that the contractor has materially failed to comply with its obligations and the requirements of this Section. The amount withheld shall not exceed a withhold of payment to the General or Prime Contractor of 1/100 or 1% of the contract award price or \$5,000, whichever sum is greater, or, if a subcontractor is in non-compliance, a withhold by the administering agency from the General Contractor, to be assessed by the General Contractor as a charge against the subcontractor, of 1/100 or 1% of the subcontractor price, or \$1,000 whichever sum is greater, for each violation of the applicable law or contract requirements. The total withheld from anyone General or Prime Contractor or subcontractor on a Project shall not exceed \$20,000 overall. No withhold of payments or investigation by the Commission or its agent shall be initiated without the administering agency providing prior notice to the Contractor.

If, after investigation, the Massachusetts Commission Against Discrimination finds that a General or Prime Contractor or subcontractor, in commission of a state construction contract or state-assisted construction contract, violated the provisions of the Fair Employment Practices Law, the administering agency may convert the amount withheld as set forth above into a permanent sanction, as a permanent deduct from payments to the General or Prime Contractor or subcontractor, which sanction will be in addition to any such sanctions, fines or penalties imposed by the Massachusetts Commission Against Discrimination.

No sanction enumerated under this Section shall be imposed by the administering agency except after notice to the General or Prime Contractor or subcontractor and an adjudicatory proceeding, as that term is used, under Massachusetts General Laws Chapter 30A, has been conducted.

IX. Severability

The provisions of this section are severable, and if any of these provisions shall be held unconstitutional by any court of competent jurisdiction, the decision of such court shall not affect or impair any of the remaining provisions.

X. Contractor's Certification

After award and prior to the execution of any contract for a state construction contract or a state assisted construction contract, the Prime or General Contractor shall certify that it will comply with all provisions of this Document 00820 Supplemental Equal Employment Opportunity, Non-Discrimination and Affirmative Action Program, by executing Document 00859 Contractor/Subcontractor Certification Form.

XI. Subcontractor Requirements

Prior to the award of any subcontract for a state construction contract or a state assisted construction contract, the Prime or General Contractor shall provide all prospective subcontractors with a complete copy of this Document 00820 entitled "Supplemental Equal Employment Opportunity, Non-Discrimination and Affirmative Action Program" and will incorporate the provisions of this Document 00820 into any and all contracts or work orders for all subcontractors providing work on the Project. In order to ensure that the said subcontractor's certification becomes a part of all subcontracts under the prime contract, the Prime or General Contractor shall certify in writing to the administering agency that it has complied with the requirements as set forth in the preceeding paragraph by executing Document 00859 Contractor/Subcontractor Certification Form.

Rev'd 03/07/14

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DOCUMENT 00821

**ELECTRONIC REPORTING REQUIREMENTS
CIVIL RIGHTS PROGRAMS AND CERTIFIED PAYROLL**

Implemented on March 2, 2009

Revised June 04, 2019

The Massachusetts Department Of Transportation (MassDOT) has replaced the CHAMP reporting system with Equitable Business Opportunity Solution (EBO), a new web-based civil rights reporting software system. This system is capable of handling both civil rights reporting requirements and certified payrolls. The program's functions include the administration of Equal Employment Opportunity (EEO) requirements, On-The-Job Training requirements (OJT), Disadvantage Business Enterprise (DBE) and/or Minority / Women's Business Enterprise (M/WBE) subcontracting requirements, and the electronic collection of certified payrolls associated with MassDOT projects. In addition, this system is used to generate various data required as part of the American Recovery and Reinvestment Act (ARRA). Contractors are responsible for all coordination with all sub-contractors to ensure timely and accurate electronic submission of all required data.

Contractor and Sub-Contractor EBO User Certification

All contractors and sub-contractors must use the EBO software system. The software vendor, Internet Government Solutions (IGS), has developed an online EBO Training Module that is available to contractors and sub-contractors. This module is a self-tutorial which allows all users in the company to access the training, complete the tutorial, and become certified as EBO users for a one time fee of \$75.00. This is the only cost to contractors and sub-contractors associated with the EBO software system. The online EBO Training Module can be accessed at www.ebotraining.com. Click the "Register My Company" button on the login page to begin your training registration. Questions regarding EBO online training should be directed to Gerry Anguilano, IGS at (440) 238-1684.

MassDOT will track contractors and sub-contractors who have successfully completed the on-line training module. All persons performing civil rights program and/or certified payroll functions should be EBO certified.

Vetting of Firms and Designated Firm Individuals

Contractors must authorize a Primary Log-In ID Holder who has completed EBO on-line training to have access to the EBO system by completing and submitting the "Request For EBO System Log-In/Password Form" located on the MassDOT website at: <https://www.mass.gov/how-to/how-to-get-an-ebo-login>. Contractors must also agree to comply with the EBO system user agreement located on the MassDOT website.

All subcontracts entered into on a project must include language that identifies the submission and training requirements that the sub-contractor must perform. Sub-contractors will be approved by the respective District Office of MassDOT through the existing approval process. When new sub-contractors, who have not previously worked for MassDOT, are initially selected by a general contractor, the new sub-contractor must be approved by the District before taking the EBO on-line training module.

Interim Reporting Requirements

Until MassDOT is satisfied that the EBO system is fully operational and functioning as designed, contractors and sub-contractors will be required to submit certified payrolls manually. There will be a transition period where dual reporting, through manual and electronic submission, will be required. MassDOT, however, will notify contractors and sub-contractors when they may cease manual submission of certified payrolls.

*** END OF DOCUMENT ***

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DOCUMENT 00859

CONTRACTOR/SUBCONTRACTOR CERTIFICATION FORM ‡*The contractor shall submit this completed document 00859 to MassDOT for each subcontract.*_____
(Contractor) Date: __________
(Subcontractor) ☐ District Approved SubcontractorContract No: 136483 Project No. 613314 Federal Aid No.: NHP(IM)-0912(004)XLocation: HOLYOKE-WEST SPRINGFIELDProject Description: Interstate Pavement Preservation and Related Work on I-91

PART 1 CONTRACTOR CERTIFICATION: I hereby certify, as an authorized official of this company, that to the best of my knowledge, information and belief, the company is in compliance with all applicable federal and state laws, rules, and regulations governing fair labor and employment practices, that the company will not discriminate in their employment practices, that the company will make good faith efforts to comply with the minority employee and women employee workforce participation ratio goals and specific affirmative action steps contained in Contract Document 00820 The Commonwealth of Massachusetts Supplemental Equal Employment Opportunity, Non-Discrimination and Affirmative Action Program, and that the company will comply with the special provisions and documentation indicated below (as checked).

I further hereby certify, as an authorized official of this company, that the special provisions and documentation indicated below (as checked) have been or are included in, and made part of, the Subcontractor Agreement entered into with the firm named above.

☐ **This is not a Federally-aided construction project****Document #**

- ☐ 00718 –Participation By Minority Or Women's Business Enterprises and SDVOBE†
- ☐ 00761 –Certification Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion
- ☐ 00820 – MA Supplemental Equal Employment Opportunity, Non-Discrimination, and Affirmative Action Program
- ☐ 00821 – Electronic Reporting Requirements, Civil Rights Programs, and Certified Payroll
- ☐ 00859 – Contractor/Subcontractor Certification Form (this document)
- ☐ 00860 – MA Employment Laws
- ☐ 00861 – Applicable State Wage Rates in the Contract Proposal**
- ☐ B00842 – MA Schedule of Participation By Minority or Women Business Enterprises (M/WBEs)†
- ☐ B00843 – MA Letter of Intent – M/WBEs†
 - ** Does not apply to Material Suppliers, unless performing work on-site
 - † Applies only if Subcontractor is a M/WBE; only include these forms for the particular M/WBE Entity
- ☐ B00844 - Schedule of Participation By SDVOBE
- ☐ B00845 - Letter of Intent – SDVOBE
- ☐ B00846 – M/WBE or SDVOBE Joint Check Arrangement Approval Form
- ☐ B00847 – Joint Venture Affidavit

☐ **This is a Federally-aided construction project (Federal Aid Number is present)****Document #**

- ☐ 00719 – Special Provisions for Participation by Disadvantaged Business Enterprises†
- ☐ 00760 - Form FHWA 1273 - Required Contract Provisions for Federal-Aid Construction Contracts
- ☐ 00820 – MA Supplemental Equal Employment Opportunity, Non-Discrimination and Affirmative Action Program
- ☐ 00821 – Electronic Reporting Requirements, Civil Rights Programs and Certified Payroll
- ☐ 00859 – Contractor/Subcontractor Certification Form (this document)
- ☐ 00860 – MA Employment Laws
- ☐ 00870 – Standard Federal Equal Employment Opportunity Construction Contract Specifications Executive Order 11246, (41 CFR Parts 60-4.2 and 60-4.3 (Solicitations and Equal Opportunity Clauses)*
- ☐ 00875 – Federal Trainee Special Provisions

- ☐ B00853 – Schedule of Participation by Disadvantaged Business Enterprise†
☐ B00854 – Letter of Intent – DBEs†
☐ B00855 – DBE Joint Check Arrangement Approval Form
☐ B00856 – Joint Venture Affidavit
☐ 00861/00880 - Applicable state and federal wage rates from Contract Proposal**

*Applicable only to Contracts or Subcontracts in excess of \$10,000

**Does not apply to Material Suppliers, unless performing work on-site

† Applies only if Subcontractor is a DBE; only include these forms for the particular DBE Entity

Signed this _____ Day of _____, 20____ Under The Pains And Penalties Of Perjury.

(Print Name and Title)

(Authorized Signature)

PART 2

PART 2 SUBCONTRACTOR CERTIFICATION: I hereby certify, as an authorized official of this company, that the required documents in Part 1 above were physically incorporated in our Agreement/Subcontract with the Contractor and give assurance that this company will fully comply or make every good faith effort to comply with the same. I further certify that:

1. This company recognizes that if this is a Federal-Aid Project, then this Contract is covered by the equal employment opportunity laws administered and enforced by the United States Department of Labor ("USDOL"), Office of Federal Contract Compliance Programs ("OFCCP"). By signing below, we acknowledge that this company has certain reporting obligations to the OFCCP, as specified by 41 CFR Part 60-4.2.
2. This company further acknowledges that any contractor with fifty (50) or more employees on a Federal-aid Contract with a value of fifty-thousand (\$50,000) dollars or more must annually file an EEO-1 Report (SF 100) to the EEOC, Joint Reporting Committee, on or before September 30th, each year, as specified by 41 CFR Part 60-1.7a.
3. For more information regarding the federal reporting requirements, please contact the USDOL, OFCCP Regional Office, at 1-646-264-3170 or EEO-1, Joint Reporting Committee at 1-866-286-6440.
4. This company ☐ has, ☐ has not, participated in a previous contract or subcontract subject to the Equal Opportunity clauses set forth in 41 CFR Part 60-4 and Executive Order 11246, and where required, has filed with the Joint Reporting Committee, the Director of the Office of Federal Contract Compliance Programs or the EEO Commission all reports due under the applicable filing requirements.
5. This company is in full compliance with applicable Federal and Commonwealth of Massachusetts laws, rules, and regulations and is not currently debarred or disqualified from bidding on or participating in construction contracts in any jurisdiction of the United States. See : <https://www.mass.gov/service-details/contractors-and-vendors-suspended-or-debarred-by-massdot>
6. This company is properly registered and in good standing with the Office of the Secretary of the Commonwealth.

Signed this _____ Day of _____, 20____, Under The Pains And Penalties Of Perjury.

Firm: _____

Address: _____

(Print Name and Title)

Telephone Number: _____

Federal I.D. Number: _____

(Authorized Signature)

Estimated Start Date: _____

Estimated Completion Date: _____

(Date)

Estimated Dollar Amount: _____

DOCUMENT 00860

COMMONWEALTH OF MASSACHUSETTS PUBLIC EMPLOYMENT LAWS

Revised February 20, 2019

The Contractor's attention is directed to Massachusetts General Laws, Chapter 149, Sections 26 through 27H, and 150A. This contract is considered to fall within the ambit of that law, which provides that in general, the Prevailing Rate or Total Rate must be paid to employees working on projects funded by the Commonwealth of Massachusetts or any political subdivision including Massachusetts Department of Transportation (MassDOT).

A Federal Aid project is also subject to the Federal Minimum Wage Rate law for construction. When comparing a state minimum wage rate, monitored by the Massachusetts Attorney General, versus federal minimum wage rate, monitored by the U.S. Department of Labor Wage and Hour Division, for a particular job classification the higher wage is at all times to be paid to the affected employee.

Every contractor or subcontractor engaged in this contract to which sections twenty-seven and twenty-seven A apply will keep a true and accurate record of all mechanics and apprentices, teamsters, chauffeurs and laborers employed thereon, showing the name, address and occupational classification of each such employee on this contract, and the hours worked by, and the wages paid to, each such employee, and shall furnish to the MassDOT's Resident Engineer, on a weekly basis, a copy of said record, in a form approved by MassDOT and in accordance with M.G.L. c. 149, § 27B, signed by the employer or his/her authorized agent under the penalties of perjury.

Each such contractor or subcontractor shall preserve its payroll records for a period of three years from the date of completion of the contract.

The Prevailing Wage Rate generally includes the following:

Minimum Hourly Wage + Employer Contributions to Benefit Plans = Prevailing Wage Rate or Total Rate

Any employer who does not make contributions to Benefit Plans must pay the total Prevailing Wage Rate directly to the employee.

Any deduction from the Prevailing Wage Rate or Total Rate for contributions to benefit plans can only be for a Health & Welfare, Pension, or Supplementary Unemployment plan meeting the requirements of the Employee Retirement Income Security Act (ERISA) of 1974. The maximum allowable deduction for these benefits from the prevailing wage rate cannot be greater than the amount allowed by Executive Office of Labor (EOL) for the specified benefits. Any additional expense of providing benefits to the employees is to be borne by the employer and cannot be deducted from the Minimum Hourly Wage. If the employer's benefit expense is less than that so provided by EOL the difference will be paid directly to the employee. The rate established must be paid to all employees who perform work on the project.

When an employer makes deductions from the Minimum Hourly Wage for an employee's contribution to social security, state taxes, federal taxes, and/or other contribution programs, allowed by law, the employer shall furnish each employee a suitable pay slip, check stub or envelope notifying the employee of the amount of the deductions.

No contractor or subcontractor contracting for any part of the contract week shall require or permit any laborer or mechanic to be employed on such work in excess of forty hours in any workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times his basic rate of pay for all hours worked in excess of forty hours in such workweek, whichever is the greater number of overtime hours.

Apprentice Rates are permitted only when there is an Apprentice Agreement registered with the Massachusetts Division of Apprentice Training in accordance with M.G.L. c. 23, § 11E-11L.

The Prevailing Wage Rates issued for each project shall be the rates paid for the entire project. The Prevailing Wage Rates must be posted on the job site at all times and be visible from a public way.

In addition, each such contractor and subcontractor shall furnish to the MassDOT's Resident Engineer, within fifteen days after completion of its portion of the work, a statement, executed by the contractor or subcontractor or by any authorized officer or employee of the contractor or subcontractor who supervises the payment of wages, in the following form:

STATEMENT OF COMPLIANCE

Date: _____

I, _____ do hereby state:
(Name of signatory party) (Title)

That I pay or supervise the payment of the persons employed by:

(Contractor or Subcontractor)

on the _____
(MassDOT Project Location and Contract Number)

and that all mechanics and apprentices, teamsters, chauffeurs and laborers employed on said project have been paid in accordance with wages determined under the provisions of sections twenty-six and twenty-seven of chapter one hundred and forty-nine of the General Laws.

Signature _____

Title _____

The above-mentioned copies of payroll records and statements of compliance shall be available for inspection by any interested party filing a written request to the MassDOT's Resident Engineer for such inspection and copying.

Massachusetts General Laws c. 149, §27, requires annual updates to prevailing wage schedules for all public construction contracts lasting longer than one year. MassDOT will request the required updates and furnish them to the Contractor. The Contractor is required to pay no less than the wage rates indicated on the annual updated wage schedules.

MassDOT will request the updates no later than two weeks before the anniversary of the Notice to Proceed date of the contract to allow for adequate processing by the Department of Labor Standards (DLS). The effective date for the new rates will be the anniversary date of the contract (i.e. the notice to proceed date), regardless of the date of issuance on the schedule from DLS.

All bidders are cautioned that the aforementioned laws require that employers pay to covered employees no less than the applicable minimum wages. In addition, the same laws require that the applicable prevailing wages become incorporated as part of this contract. The prevailing minimum wage law establishes serious civil and criminal penalties for violations, including imprisonment and exclusion from future public contracts. Bidders are cautioned to carefully read the relevant sections of the Massachusetts General Laws.

*** END OF DOCUMENT ***

DOCUMENT 00861

STATE PREVAILING WAGE RATES

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**THE COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT
DEPARTMENT OF LABOR STANDARDS
Prevailing Wage Rates**

MAURA HEALEY
Governor

KIM DRISCOLL
Lt. Governor

As determined by the Director under the provisions of the
Massachusetts General Laws, Chapter 149, Sections 26 to 27H

LAUREN JONES
Secretary
MICHAEL FLANAGAN
Director

Awarding Authority:	Massachusetts Highway	City/Town:	HOLYOKE
Wage Request No:	20260821104115-S1	Job Location:	on I-91
Description of Work:	HOLYOKE-WEST SPRINGFIELD – FAP No. NHP(IM)-0912(004)X Interstate Pavement Preservation and Related Work on I-91		
Contract Number:	136483		

§§ 26-27D Construction Project

This Prevailing Wage Schedule establishes the minimum wage rates that employees on this public works construction project must be paid. The project's Wage Request Number is listed above and on all pages of this Schedule. This schedule applies **only** to this specific project.

Awarding Authority Responsibilities

- You must include this Prevailing Wage Schedule (PWS) or an appropriate reference to it in all advertisements and calls for bids.
- The PWS must be incorporated in its entirety into all contracts for this project (G.L. c. 149, § 27).
- The wage rates on this PWS will remain in effect for the duration of the project. **Exception:** You must request an updated schedule for any multi-year construction project no later than 2 weeks before the project's yearly anniversary date.
 - For CM AT RISK projects, the anniversary date is the earlier of the signing date of: (a) the GMP Amendment; or (b) the first amendment to permit procurement of construction services.
 - For all other construction projects, the anniversary date is the date the contract was signed by the Awarding Authority and the General Contractor.
- You must also request an updated PWS if you have not opened bids or selected a contractor within 90 days of the date of issuance on this PWS.
 - For CM AT RISK projects, the earlier of (a) the signing date of the GMP Amendment; or (b) the bid for the first construction scope of work must be within 90 days of the date of issuance on this Schedule.
- You must provide any updated PWS to all contractors working on the project, including general and sub-contractors.
- You must keep the contractors' weekly certified payroll records and Statements of Compliance on file for **3 years**.
- Awarding authorities have other prevailing wage responsibilities not listed above. Learn more at: [\[Prevailing wage: for awarding authorities | Mass.gov\]](#) and G.L. c. 149, §§ 26-27D.

Contractor Responsibilities

- You must pay all employees who perform construction work on this project at least the wage rate listed on this PWS. **Warning!** If you do not follow this requirement, you can face civil fines, criminal charges, or private lawsuits.
- You must post this PWS at the worksite where it can be easily seen. (G.L. c. 149, § 27)
- You must file weekly payroll reports and a Statement of Compliance with the awarding authority (**not** DLS). You can file payroll reports by mail or email and must keep them on file for 3 years. Each weekly payroll report must include each employee's name, address, occupational classification(s), hours worked, and wages paid. Find a sample report at: mass.gov/dols/pw.
- You cannot pay any employees at the apprentice rates listed on this PWS unless they are registered with the Massachusetts Division of Apprentice Standards (DAS). Qualifying apprentices must be paid at the applicable step rate and must carry their apprentice ID card during all work hours on the project. Apprentices **not** registered with DAS must be paid at the listed journeyworker's rate, even if they are registered with a different federal/state public agency or private entity. For every week in which apprentice rates are paid, a copy of each apprentice's apprentice ID card issued by DAS shall be attached to the certified payroll records.
- If you don't know what classification or rate applies to the work being performed, you must ask DLS; paying the wrong rate subjects you to enforcement.
- Please contact DLS if you have any questions about the Prevailing Wage Schedule: (617) 626-6953 or DLS.Feedback@mass.gov

Employees who are **not** paid the wage listed on the Prevailing Wage Schedule (PWS) may file a complaint with the Attorney General's Fair Labor Division: www.mass.gov/ago/flid; (617) 727-3465.

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
(2 AXLE) DRIVER - EQUIPMENT	6/1/2026	\$41.95	\$16.17	\$21.78	\$0.00	\$0.00	\$79.90
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	\$41.95	\$16.17	\$23.52	\$0.00	\$0.00	\$81.64
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	\$41.95	\$16.77	\$23.52	\$0.00	\$0.00	\$82.24
(3 AXLE) DRIVER - EQUIPMENT	6/1/2026	\$42.02	\$16.17	\$21.78	\$0.00	\$0.00	\$79.97
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	\$42.02	\$16.17	\$23.52	\$0.00	\$0.00	\$81.71
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	\$42.02	\$16.77	\$23.52	\$0.00	\$0.00	\$82.31
(4 & 5 AXLE) DRIVER - EQUIPMENT	6/1/2026	\$42.14	\$16.17	\$21.78	\$0.00	\$0.00	\$80.09
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	\$42.14	\$16.17	\$23.52	\$0.00	\$0.00	\$81.83
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	\$42.14	\$16.77	\$23.52	\$0.00	\$0.00	\$82.43
ADS/SUBMERSIBLE PILOT	8/1/2024	\$117.16	\$10.08	\$11.62	\$12.67	\$0.00	\$151.53
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
For apprentice rates see "Apprentice- PILE DRIVER"							
AIR TRACK OPERATOR	6/1/2026	\$37.75	\$10.90	\$9.75	\$8.62	\$0.00	\$67.02
LABORERS	12/7/2026	\$39.05	\$10.90	\$9.75	\$8.62	\$0.00	\$68.32
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$40.45	\$10.90	\$9.75	\$8.62	\$0.00	\$69.72
	12/6/2027	\$41.85	\$10.90	\$9.75	\$8.62	\$0.00	\$71.12
	6/5/2028	\$43.35	\$10.90	\$9.75	\$8.62	\$0.00	\$72.62
	12/4/2028	\$44.85	\$10.90	\$9.75	\$8.62	\$0.00	\$74.12
For apprentice rates see "Apprentice- LABORER"							
AIR TRACK OPERATOR (HEAVY & HIGHWAY)	6/1/2026	\$37.74	\$10.90	\$9.75	\$6.60	\$0.00	\$64.99
LABORERS	12/1/2026	\$39.03	\$10.90	\$9.75	\$6.60	\$0.00	\$66.28
LABORERS - ZONE 3 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
ASBESTOS WORKER (PIPES & TANKS)	12/1/2025	\$40.32	\$14.50	\$4.30	\$6.25	\$0.00	\$65.37
HEAT & FROST INSULATORS LOCAL 6							
HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)							
ASPHALT RAKER	6/1/2026	\$37.25	\$10.90	\$9.75	\$8.62	\$0.00	\$66.52
LABORERS	12/7/2026	\$38.55	\$10.90	\$9.75	\$8.62	\$0.00	\$67.82
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$39.95	\$10.90	\$9.75	\$8.62	\$0.00	\$69.22
	12/6/2027	\$41.35	\$10.90	\$9.75	\$8.62	\$0.00	\$70.62
	6/5/2028	\$42.85	\$10.90	\$9.75	\$8.62	\$0.00	\$72.12
	12/4/2028	\$44.35	\$10.90	\$9.75	\$8.62	\$0.00	\$73.62
For apprentice rates see "Apprentice- LABORER"							
ASPHALT RAKER (HEAVY & HIGHWAY)	6/1/2026	\$37.24	\$10.90	\$9.75	\$6.60	\$0.00	\$64.49
LABORERS	12/1/2026	\$38.53	\$10.90	\$9.75	\$6.60	\$0.00	\$65.78
LABORERS - ZONE 3 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
AUTOMATIC GRADER-EXCAVATOR (RECLAIMER)	12/1/2023	\$39.56	\$13.78	\$12.15	\$3.00	\$0.00	\$68.49
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BACKHOE/FRONT-END LOADER OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	\$39.56	\$13.78	\$12.15	\$3.00	\$0.00	\$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
BARCO-TYPE JUMPING TAMPER LABORERS	6/1/2026	\$37.25	\$10.90	\$9.75	\$8.62	\$0.00	\$66.52
LABORERS - ZONE 3 (BUILDING & SITE)	12/7/2026	\$38.55	\$10.90	\$9.75	\$8.62	\$0.00	\$67.82
	6/7/2027	\$39.95	\$10.90	\$9.75	\$8.62	\$0.00	\$69.22
	12/6/2027	\$41.35	\$10.90	\$9.75	\$8.62	\$0.00	\$70.62
	6/5/2028	\$42.85	\$10.90	\$9.75	\$8.62	\$0.00	\$72.12
	12/4/2028	\$44.35	\$10.90	\$9.75	\$8.62	\$0.00	\$73.62
For apprentice rates see "Apprentice- LABORER"							
BATCH/CEMENT PLANT - ON SITE OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	\$39.03	\$13.78	\$12.15	\$3.00	\$0.00	\$67.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
BLOCK PAVER, RAMMER / CURB SETTER LABORERS	6/1/2026	\$37.75	\$10.90	\$9.75	\$8.62	\$0.00	\$67.02
LABORERS - ZONE 3 (BUILDING & SITE)	12/7/2026	\$39.05	\$10.90	\$9.75	\$8.62	\$0.00	\$68.32
	6/7/2027	\$40.45	\$10.90	\$9.75	\$8.62	\$0.00	\$69.72
	12/6/2027	\$41.85	\$10.90	\$9.75	\$8.62	\$0.00	\$71.12
	6/5/2028	\$43.35	\$10.90	\$9.75	\$8.62	\$0.00	\$72.62
	12/4/2028	\$44.85	\$10.90	\$9.75	\$8.62	\$0.00	\$74.12
For apprentice rates see "Apprentice- LABORER"							
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY) LABORERS	6/1/2026	\$37.74	\$10.90	\$9.75	\$6.60	\$0.00	\$64.99
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	12/1/2026	\$39.03	\$10.90	\$9.75	\$6.60	\$0.00	\$66.28
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
BOILER MAKER BOILERMAKERS LOCAL 29 BOILERMAKERS LOCAL 29	1/1/2024	\$48.12	\$7.07	\$14.60	\$6.00	\$0.00	\$75.79

Apprentice: BOILER MAKER							
Effective Date: 1/1/2024							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	65.00	\$31.28	\$7.07	\$9.32	\$3.90	\$0.00	\$51.57
2	65.00	\$31.28	\$7.07	\$9.32	\$3.90	\$0.00	\$51.57
3	70.00	\$33.68	\$7.07	\$10.03	\$4.20	\$0.00	\$54.98
4	75.00	\$36.09	\$7.07	\$10.74	\$4.50	\$0.00	\$58.40
5	80.00	\$38.50	\$7.07	\$11.45	\$4.80	\$0.00	\$61.82
6	85.00	\$40.90	\$7.07	\$12.18	\$5.10	\$0.00	\$65.25
7	90.00	\$43.31	\$7.07	\$12.88	\$5.40	\$0.00	\$68.66
8	95.00	\$45.71	\$7.07	\$13.62	\$5.70	\$0.00	\$72.10

Apprentice to Journeyworker Ratio: 1:4

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)	8/1/2026	\$58.56	\$12.84	\$15.57	\$5.89	\$0.00	\$92.86
BRICKLAYERS LOCAL 3	2/1/2027	\$59.96	\$12.84	\$15.57	\$5.89	\$0.00	\$94.26
BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)							

Apprentice: BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)**Effective Date: 8/1/2026**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$29.28	\$12.84	\$15.57	\$5.89	\$0.00	\$63.58
2	60.00	\$35.14	\$12.84	\$15.57	\$5.89	\$0.00	\$69.44
3	70.00	\$40.99	\$12.84	\$15.57	\$5.89	\$0.00	\$75.29
4	80.00	\$46.85	\$12.84	\$15.57	\$5.89	\$0.00	\$81.15
5	90.00	\$52.70	\$12.84	\$15.57	\$5.89	\$0.00	\$87.00

Apprentice: BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)**Effective Date: 2/1/2027**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$29.98	\$12.84	\$15.57	\$5.89	\$0.00	\$64.28
2	60.00	\$35.98	\$12.84	\$15.57	\$5.89	\$0.00	\$70.28
3	70.00	\$41.97	\$12.84	\$15.57	\$5.89	\$0.00	\$76.27
4	80.00	\$47.97	\$12.84	\$15.57	\$5.89	\$0.00	\$82.27
5	90.00	\$53.96	\$12.84	\$15.57	\$0.00	\$0.00	\$82.37

Apprentice to Journeyworker Ratio: 1:5

BULLDOZER/POWER SHOVEL/TREE SHREDDER /CLAM SHELL	12/1/2023	\$39.56	\$13.78	\$12.15	\$3.00	\$0.00	\$68.49
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							

CAISSON & UNDERPINNING BOTTOM MAN LABORERS	6/1/2026	\$50.40	\$10.90	\$9.75	\$9.80	\$0.00	\$80.85
LABORERS - FOUNDATION AND MARINE	12/1/2026	\$51.90	\$10.90	\$9.75	\$9.80	\$0.00	\$82.35
For apprentice rates see "Apprentice- LABORER"							

CAISSON & UNDERPINNING LABORER LABORERS	6/1/2026	\$49.25	\$10.90	\$9.75	\$9.80	\$0.00	\$79.70
LABORERS - FOUNDATION AND MARINE	12/1/2026	\$50.75	\$10.90	\$9.75	\$9.80	\$0.00	\$81.20
For apprentice rates see "Apprentice- LABORER"							

CAISSON & UNDERPINNING TOP MAN LABORERS	6/1/2026	\$49.58	\$10.90	\$9.75	\$9.80	\$0.00	\$80.03
LABORERS - FOUNDATION AND MARINE	12/1/2026	\$51.08	\$10.90	\$9.75	\$9.80	\$0.00	\$81.53
For apprentice rates see "Apprentice- LABORER"							

CARBIDE CORE DRILL OPERATOR LABORERS	6/1/2026	\$37.25	\$10.90	\$9.75	\$8.62	\$0.00	\$66.52
LABORERS - ZONE 3 (BUILDING & SITE)	12/7/2026	\$38.55	\$10.90	\$9.75	\$8.62	\$0.00	\$67.82
	6/7/2027	\$39.95	\$10.90	\$9.75	\$8.62	\$0.00	\$69.22

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	12/6/2027	\$41.35	\$10.90	\$9.75	\$8.62	\$0.00	\$70.62
	6/5/2028	\$42.85	\$10.90	\$9.75	\$8.62	\$0.00	\$72.12
	12/4/2028	\$44.35	\$10.90	\$9.75	\$8.62	\$0.00	\$73.62

For apprentice rates see "Apprentice- LABORER"

CARPENTER	3/1/2026	\$43.81	\$9.19	\$11.25	\$6.90	\$0.00	\$71.15
CARPENTERS	9/1/2026	\$44.76	\$9.19	\$11.25	\$6.90	\$0.00	\$72.10
CARPENTERS LOCAL 336 - HAMPDEN HAMPSHIRE FRANKLIN	3/1/2027	\$45.66	\$9.19	\$11.25	\$6.90	\$0.00	\$73.00

Apprentice: CARPENTER**Effective Date: 3/1/2026**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$19.71	\$9.19	\$0.00	\$1.38	\$0.00	\$30.28
2	45.00	\$19.71	\$1.28	\$0.00	\$1.38	\$0.00	\$22.37
3	55.00	\$24.10	\$9.19	\$0.00	\$2.76	\$0.00	\$36.05
4	55.00	\$24.10	\$9.19	\$0.00	\$2.76	\$0.00	\$36.05
5	70.00	\$30.67	\$9.19	\$11.25	\$4.14	\$0.00	\$55.25
6	70.00	\$30.67	\$9.19	\$11.25	\$4.14	\$0.00	\$55.25
7	80.00	\$35.05	\$9.19	\$11.25	\$5.52	\$0.00	\$61.01
8	80.00	\$35.05	\$9.19	\$11.25	\$5.52	\$0.00	\$61.01

Apprentice: CARPENTER**Effective Date: 9/1/2026**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$20.14	\$9.19	\$0.00	\$1.38	\$0.00	\$30.71
2	45.00	\$20.14	\$9.19	\$0.00	\$1.38	\$0.00	\$30.71
3	55.00	\$24.62	\$9.19	\$0.00	\$2.76	\$0.00	\$36.57
4	55.00	\$24.62	\$9.19	\$0.00	\$2.76	\$0.00	\$36.57
5	70.00	\$31.33	\$9.19	\$11.25	\$4.14	\$0.00	\$55.91
6	70.00	\$31.33	\$9.19	\$11.25	\$4.14	\$0.00	\$55.91
7	80.00	\$35.81	\$9.19	\$11.25	\$5.52	\$0.00	\$61.77
8	80.00	\$35.81	\$9.19	\$11.25	\$5.52	\$0.00	\$61.77

Apprentice to Journeyworker Ratio: 1:5

CARPENTER WOOD FRAME	10/1/2025	\$27.37	\$7.38	\$4.47	\$1.00	\$0.00	\$40.22
CARPENTERS	10/1/2026	\$28.47	\$7.38	\$4.47	\$1.00	\$0.00	\$41.32

All Aspects of New Wood Frame Work

Apprentice: CARPENTER WOOD FRAME**Effective Date: 10/1/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$16.42	\$7.38	\$0.00	\$0.00	\$0.00	\$23.80

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: CARPENTER WOOD FRAME							
Effective Date: 10/1/2025							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
2	60.00	\$16.42	\$7.38	\$0.00	\$0.00	\$0.00	\$23.80
3	65.00	\$17.79	\$7.38	\$0.00	\$1.00	\$0.00	\$26.17
4	70.00	\$19.16	\$7.38	\$0.00	\$1.00	\$0.00	\$27.54
5	75.00	\$20.53	\$7.38	\$3.80	\$1.00	\$0.00	\$32.71
6	80.00	\$21.90	\$7.38	\$3.80	\$1.00	\$0.00	\$34.08
7	85.00	\$23.26	\$7.38	\$3.80	\$1.00	\$0.00	\$35.44
8	90.00	\$24.63	\$7.38	\$3.80	\$1.00	\$0.00	\$36.81

Apprentice: CARPENTER WOOD FRAME							
Effective Date: 10/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$17.08	\$7.38	\$0.00	\$0.00	\$0.00	\$24.46
2	60.00	\$17.08	\$7.38	\$0.00	\$0.00	\$0.00	\$24.46
3	65.00	\$18.51	\$7.38	\$0.00	\$1.00	\$0.00	\$26.89
4	70.00	\$19.93	\$7.38	\$0.00	\$1.00	\$0.00	\$28.31
5	75.00	\$21.35	\$7.38	\$3.80	\$1.00	\$0.00	\$33.53
6	80.00	\$22.78	\$7.38	\$3.80	\$1.00	\$0.00	\$34.96
7	85.00	\$24.20	\$7.38	\$3.80	\$1.00	\$0.00	\$36.38
8	90.00	\$25.62	\$7.38	\$3.80	\$1.00	\$0.00	\$37.80

Apprentice to Journeyworker Ratio: 1:5

CEMENT MASONRY/PLASTERING	7/1/2026	\$49.32	\$13.20	\$16.30	\$2.93	\$1.69	\$83.44
PLASTERERS AND CEMENT MASONS LOCAL 534	1/1/2027	\$50.51	\$13.20	\$16.30	\$2.93	\$1.69	\$84.63
Plasterers and Cement Masons - Zone 2	7/1/2027	\$51.70	\$13.20	\$16.30	\$2.93	\$1.69	\$85.82
	1/1/2028	\$52.89	\$13.20	\$16.30	\$2.93	\$1.69	\$87.01

Apprentice: CEMENT MASONRY/PLASTERING							
Effective Date: 7/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$24.66	\$13.20	\$16.30	\$0.00	\$0.00	\$54.16
2	60.00	\$29.59	\$13.20	\$16.30	\$2.93	\$1.69	\$63.71
3	65.00	\$32.06	\$13.20	\$16.30	\$2.93	\$1.69	\$66.18
4	70.00	\$34.52	\$13.20	\$16.30	\$2.93	\$1.69	\$68.64
5	75.00	\$36.99	\$13.20	\$16.30	\$2.93	\$1.69	\$71.11
6	80.00	\$39.46	\$13.20	\$16.30	\$2.93	\$1.69	\$73.58
7	90.00	\$44.39	\$13.20	\$16.30	\$2.93	\$0.00	\$76.82

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: CEMENT MASONRY/PLASTERING							
Effective Date: 1/1/2027							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$25.26	\$16.30	\$16.30	\$0.00	\$0.00	\$57.86
2	60.00	\$30.31	\$16.30	\$16.30	\$2.93	\$1.69	\$67.53
3	65.00	\$32.83	\$16.30	\$16.30	\$2.93	\$1.69	\$70.05
4	70.00	\$35.36	\$16.30	\$16.30	\$2.93	\$1.69	\$72.58
5	75.00	\$37.88	\$16.30	\$16.30	\$2.93	\$1.69	\$75.10
6	80.00	\$40.41	\$16.30	\$16.30	\$2.93	\$1.69	\$77.63
7	90.00	\$45.46	\$16.30	\$16.30	\$2.93	\$0.00	\$80.99

Apprentice to Journeyworker Ratio: 1:5

CHAIN SAW OPERATOR	6/1/2026	\$37.25	\$10.90	\$9.75	\$8.62	\$0.00	\$66.52
LABORERS	12/7/2026	\$38.55	\$10.90	\$9.75	\$8.62	\$0.00	\$67.82
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$39.95	\$10.90	\$9.75	\$8.62	\$0.00	\$69.22
	12/6/2027	\$41.35	\$10.90	\$9.75	\$8.62	\$0.00	\$70.62
	6/5/2028	\$42.85	\$10.90	\$9.75	\$8.62	\$0.00	\$72.12
	12/4/2028	\$44.35	\$10.90	\$9.75	\$8.62	\$0.00	\$73.62

For apprentice rates see "Apprentice- LABORER"

COMPRESSOR OPERATOR	12/1/2023	\$39.03	\$13.78	\$12.15	\$3.00	\$0.00	\$67.96
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

CRANE OPERATOR	12/1/2023	\$43.06	\$13.78	\$12.15	\$3.00	\$0.00	\$71.99
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

DELEADER (BRIDGE)	1/1/2026	\$59.56	\$10.35	\$12.00	\$12.60	\$0.00	\$94.51
PAINTERS LOCAL 35							
PAINTERS LOCAL 35 - ZONE 3							

Apprentice: DELEADER (BRIDGE)							
Effective Date: 1/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$29.78	\$10.35	\$0.00	\$0.00	\$0.00	\$40.13
2	55.00	\$32.76	\$10.35	\$0.00	\$6.93	\$0.00	\$50.04
3	60.00	\$35.74	\$10.35	\$0.00	\$7.56	\$0.00	\$53.65
4	65.00	\$38.71	\$10.35	\$0.00	\$8.19	\$0.00	\$57.25
5	70.00	\$41.69	\$10.35	\$12.00	\$8.82	\$0.00	\$72.86
6	75.00	\$44.67	\$10.35	\$12.00	\$9.45	\$0.00	\$76.47
7	80.00	\$47.65	\$10.35	\$12.00	\$10.08	\$0.00	\$80.08
8	90.00	\$53.60	\$10.35	\$12.00	\$11.34	\$0.00	\$87.29

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice to Journeyworker Ratio: 1:1							
DEMO: ADZEMAN	6/1/2026	\$49.30	\$10.90	\$9.75	\$9.65	\$0.00	\$79.60
LABORERS	12/7/2026	\$50.80	\$10.90	\$9.75	\$9.65	\$0.00	\$81.10
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$52.40	\$10.90	\$9.75	\$9.65	\$0.00	\$82.70
	12/6/2027	\$54.00	\$10.90	\$9.75	\$9.65	\$0.00	\$84.30
	6/5/2028	\$55.68	\$10.90	\$9.75	\$9.65	\$0.00	\$85.98
	12/4/2028	\$57.35	\$10.90	\$9.75	\$9.65	\$0.00	\$87.65
For apprentice rates see "Apprentice- LABORER"							
DEMO: BACKHOE/LOADER/HAMMER OPERATOR	6/1/2026	\$50.30	\$10.90	\$9.75	\$9.65	\$0.00	\$80.60
LABORERS	12/7/2026	\$51.80	\$10.90	\$9.75	\$9.65	\$0.00	\$82.10
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$53.40	\$10.90	\$9.75	\$9.65	\$0.00	\$83.70
	12/6/2027	\$55.00	\$10.90	\$9.75	\$9.65	\$0.00	\$85.30
	6/5/2028	\$56.68	\$10.90	\$9.75	\$9.65	\$0.00	\$86.98
	12/4/2028	\$58.35	\$10.90	\$9.75	\$9.65	\$0.00	\$88.65
For apprentice rates see "Apprentice- LABORER"							
DEMO: BURNERS	6/1/2026	\$50.05	\$10.90	\$9.75	\$9.65	\$0.00	\$80.35
LABORERS	12/7/2026	\$51.55	\$10.90	\$9.75	\$9.65	\$0.00	\$81.85
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$53.15	\$10.90	\$9.75	\$9.65	\$0.00	\$83.45
	12/6/2027	\$54.75	\$10.90	\$9.75	\$9.65	\$0.00	\$85.05
	6/5/2028	\$56.43	\$10.90	\$9.75	\$9.65	\$0.00	\$86.73
	12/4/2028	\$58.10	\$10.90	\$9.75	\$9.65	\$0.00	\$88.40
For apprentice rates see "Apprentice- LABORER"							
DEMO: CONCRETE CUTTER/SAWYER	6/1/2026	\$50.30	\$10.90	\$9.75	\$9.65	\$0.00	\$80.60
LABORERS	12/7/2026	\$51.80	\$10.90	\$9.75	\$9.65	\$0.00	\$82.10
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$53.40	\$10.90	\$9.75	\$9.65	\$0.00	\$83.70
	12/6/2027	\$55.00	\$10.90	\$9.75	\$9.65	\$0.00	\$85.30
	6/5/2028	\$56.68	\$10.90	\$9.75	\$9.65	\$0.00	\$86.98
	12/4/2028	\$58.35	\$10.90	\$9.75	\$9.65	\$0.00	\$88.65
For apprentice rates see "Apprentice- LABORER"							
DEMO: JACKHAMMER OPERATOR	6/1/2026	\$50.05	\$10.90	\$9.75	\$9.65	\$0.00	\$80.35
LABORERS	12/7/2026	\$51.55	\$10.90	\$9.75	\$9.65	\$0.00	\$81.85
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$53.15	\$10.90	\$9.75	\$9.65	\$0.00	\$83.45
	12/6/2027	\$54.75	\$10.90	\$9.75	\$9.65	\$0.00	\$85.05
	6/5/2028	\$56.43	\$10.90	\$9.75	\$9.65	\$0.00	\$86.73
	12/4/2028	\$58.10	\$10.90	\$9.75	\$9.65	\$0.00	\$88.40
For apprentice rates see "Apprentice- LABORER"							
DEMO: WRECKING LABORER	6/1/2026	\$49.30	\$10.90	\$9.75	\$9.65	\$0.00	\$79.60
LABORERS	12/7/2026	\$50.80	\$10.90	\$9.75	\$9.65	\$0.00	\$81.10
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$52.40	\$10.90	\$9.75	\$9.65	\$0.00	\$82.70
	12/6/2027	\$54.00	\$10.90	\$9.75	\$9.65	\$0.00	\$84.30
	6/5/2028	\$55.68	\$10.90	\$9.75	\$9.65	\$0.00	\$85.98
	12/4/2028	\$57.35	\$10.90	\$9.75	\$9.65	\$0.00	\$87.65
For apprentice rates see "Apprentice- LABORER"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
DIVER	8/1/2024	\$78.11	\$10.08	\$11.62	\$12.67	\$0.00	\$112.48
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
as of 8-1-24, Apprentices with diving licenses begin at second year. % of Diver wage 70/80/90 2A \$69.83, 3A \$91.79,4A \$102.14 Total Rate							
DIVER TENDER	8/1/2024	\$49.19	\$10.08	\$11.62	\$12.67	\$0.00	\$83.56
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
as of 8-1-24, Apprentices with diving licenses begin at second year. % of Piledriver wage 70/80/90 2A \$54.20, 3A \$73.93,4A \$82.05 Total Rate							
DIVER TENDER (EFFLUENT)	8/1/2024	\$83.69	\$10.08	\$11.62	\$12.67	\$0.00	\$118.06
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
For apprentice rates see "Apprentice- PILE DRIVER"							
DIVER/SLURRY (EFFLUENT)	8/1/2024	\$117.16	\$10.08	\$11.62	\$12.67	\$0.00	\$151.53
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
For apprentice rates see "Apprentice- PILE DRIVER"							
DRAWBRIDGE OPERATOR (Construction)	7/1/2020	\$26.77	\$6.67	\$3.93	\$0.00	\$0.16	\$37.53
DRAWBRIDGE - SEIU LOCAL 888							
DRAWBRIDGE - SEIU LOCAL 888							
ELECTRICIAN (Including Core Drilling)	6/28/2026	\$54.41	\$14.00	\$8.43	\$7.03	\$0.00	\$83.87
ELECTRICIANS LOCAL 7	1/3/2027	\$55.56	\$14.25	\$8.47	\$7.09	\$0.00	\$85.37
ELECTRICIANS LOCAL 7							

Apprentice: ELECTRICIAN (Including Core Drilling)							
Effective Date: 6/28/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	\$21.76	\$7.80	\$0.63	\$0.00	\$0.00	\$30.19
2	45.00	\$24.48	\$7.80	\$0.70	\$0.00	\$0.00	\$32.98
3	50.00	\$27.21	\$14.00	\$7.53	\$0.00	\$0.00	\$48.74
4	55.00	\$29.93	\$14.00	\$7.61	\$0.00	\$0.00	\$51.54
5	65.00	\$35.37	\$14.00	\$9.84	\$0.00	\$0.00	\$59.21
6	70.00	\$38.09	\$14.00	\$11.30	\$0.00	\$0.00	\$63.39

Apprentice: ELECTRICIAN (Including Core Drilling)							
Effective Date: 1/3/2027							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	\$22.22	\$7.95	\$0.63	\$0.00	\$0.00	\$30.80
2	45.00	\$25.00	\$7.95	\$0.70	\$0.00	\$0.00	\$33.65
3	50.00	\$27.78	\$14.25	\$7.53	\$0.00	\$0.00	\$49.56
4	55.00	\$30.56	\$14.25	\$7.61	\$0.00	\$0.00	\$52.42
5	65.00	\$36.11	\$14.25	\$9.84	\$0.00	\$0.00	\$60.20
6	70.00	\$38.89	\$14.25	\$11.30	\$0.00	\$0.00	\$64.44

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice to Journeyworker Ratio: 2:3							
ELEVATOR CONSTRUCTOR	1/1/2026	\$69.23	\$16.38	\$11.06	\$10.70	\$0.00	\$107.37
ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2027	\$72.23	\$16.48	\$11.16	\$11.00	\$0.00	\$110.87
ELEVATOR CONSTRUCTORS LOCAL 41							

Apprentice: ELEVATOR CONSTRUCTOR**Effective Date: 1/1/2026**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$34.62	\$16.38	\$0.00	\$0.00	\$0.00	\$51.00
2	55.00	\$38.08	\$16.38	\$11.06	\$10.70	\$0.00	\$76.22
3	65.00	\$45.00	\$16.38	\$11.06	\$10.70	\$0.00	\$83.14
4	70.00	\$48.46	\$16.38	\$11.06	\$10.70	\$0.00	\$86.60
5	80.00	\$55.38	\$16.38	\$11.06	\$10.70	\$0.00	\$93.52

Apprentice: ELEVATOR CONSTRUCTOR**Effective Date: 1/1/2027**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$36.12	\$16.48	\$0.00	\$0.00	\$0.00	\$52.60
2	55.00	\$39.73	\$16.48	\$11.16	\$11.00	\$0.00	\$78.37
3	65.00	\$46.95	\$16.48	\$11.16	\$11.00	\$0.00	\$85.59
4	70.00	\$50.56	\$16.48	\$11.16	\$11.00	\$0.00	\$89.20
5	80.00	\$57.78	\$16.48	\$11.16	\$11.00	\$0.00	\$96.42

Apprentice to Journeyworker Ratio: 1:1

ELEVATOR CONSTRUCTOR HELPER	1/1/2026	\$48.46	\$16.38	\$11.06	\$10.70	\$0.00	\$86.60
ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2027	\$50.56	\$16.48	\$11.16	\$11.00	\$0.00	\$89.20
ELEVATOR CONSTRUCTORS LOCAL 41							

For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"

FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY)	6/1/2026	\$37.24	\$10.90	\$9.75	\$6.60	\$0.00	\$64.49
LABORERS	12/1/2026	\$38.53	\$10.90	\$9.75	\$6.60	\$0.00	\$65.78
LABORERS - ZONE 3 (HEAVY & HIGHWAY)							

For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"

FIELD ENG.INST/ROD-BLDG,SITE,HVY/HWY	6/1/1999	\$18.84	\$4.80	\$4.10	\$0.00	\$0.00	\$27.74
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							

FIELD ENG.PARTY CHIEF:BLDG,SITE,HVY/HWY	6/1/1999	\$21.33	\$4.80	\$4.10	\$0.00	\$0.00	\$30.23
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							

FIELD ENG.SURVEY CHIEF-BLDG,SITE,HVY/HWY	6/1/1999	\$22.33	\$4.80	\$4.10	\$0.00	\$0.00	\$31.23
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
FIRE ALARM INSTALLER	6/28/2026	\$54.41	\$14.00	\$8.43	\$7.03	\$0.00	\$83.87
ELECTRICIANS LOCAL 7	1/3/2027	\$55.56	\$14.25	\$8.47	\$7.09	\$0.00	\$85.37
ELECTRICIANS LOCAL 7							

For apprentice rates see "Apprentice- ELECTRICIAN"

FIRE ALARM REPAIR / MAINTENANCE	6/28/2026	\$54.41	\$14.00	\$8.43	\$7.03	\$0.00	\$83.87
/ COMMISSIONING	1/3/2027	\$55.56	\$14.25	\$8.47	\$7.09	\$0.00	\$85.37
ELECTRICIANS LOCAL 7							
ELECTRICIANS LOCAL 7							

For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"

FIREMAN	12/1/2023	\$39.03	\$13.78	\$12.15	\$3.00	\$0.00	\$67.96
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							

Apprentice: FIREMAN**Effective Date: 12/1/2023**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$23.42	\$13.78	\$12.15	\$3.00	\$0.00	\$52.35
2	70.00	\$27.32	\$13.78	\$12.15	\$3.00	\$0.00	\$56.25
3	80.00	\$31.22	\$13.78	\$12.15	\$3.00	\$0.00	\$60.15
4	90.00	\$35.13	\$13.78	\$12.15	\$3.00	\$0.00	\$64.06

Apprentice to Journeyworker Ratio: 1:6

FLAGGER & SIGNALER (HEAVY & HIGHWAY)	6/1/2026	\$29.21	\$10.90	\$9.75	\$6.60	\$0.00	\$56.46
LABORERS	12/1/2026	\$29.21	\$10.90	\$9.75	\$6.60	\$0.00	\$56.46
LABORERS - ZONE 3 (HEAVY & HIGHWAY)							

For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"

FLOORCOVERER	3/1/2026	\$44.34	\$8.56	\$11.25	\$6.90	\$0.00	\$71.05
FLOORCOVERERS LOCAL 2168	9/1/2026	\$45.29	\$8.56	\$11.25	\$6.90	\$0.00	\$72.00
FLOORCOVERERS LOCAL 2168 ZONE III	3/1/2027	\$46.19	\$8.56	\$11.25	\$6.90	\$0.00	\$72.90

Apprentice: FLOORCOVERER**Effective Date: 3/1/2026**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$19.95	\$8.56	\$0.00	\$1.38	\$0.00	\$29.89
2	45.00	\$19.95	\$8.56	\$0.00	\$1.38	\$0.00	\$29.89
3	55.00	\$24.39	\$8.56	\$0.00	\$2.76	\$0.00	\$35.71
4	55.00	\$24.39	\$8.56	\$0.00	\$2.76	\$0.00	\$35.71
5	70.00	\$31.04	\$8.56	\$11.25	\$4.14	\$0.00	\$54.99
6	70.00	\$31.04	\$8.56	\$11.25	\$4.14	\$0.00	\$54.99
7	80.00	\$35.47	\$8.56	\$11.25	\$5.52	\$0.00	\$60.80
8	80.00	\$35.47	\$8.56	\$11.25	\$5.52	\$0.00	\$60.80

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: FLOORCOVERER							
Effective Date: 9/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$20.38	\$8.56	\$0.00	\$1.38	\$0.00	\$30.32
2	45.00	\$20.38	\$8.56	\$0.00	\$1.38	\$0.00	\$30.32
3	55.00	\$24.91	\$8.56	\$0.00	\$2.76	\$0.00	\$36.23
4	55.00	\$24.91	\$8.56	\$0.00	\$2.76	\$0.00	\$36.23
5	70.00	\$31.70	\$8.56	\$11.25	\$4.14	\$0.00	\$55.65
6	70.00	\$31.70	\$8.56	\$11.25	\$4.14	\$0.00	\$55.65
7	80.00	\$36.23	\$8.56	\$11.25	\$5.52	\$0.00	\$61.56
8	80.00	\$36.23	\$8.56	\$11.25	\$5.52	\$0.00	\$61.56

Apprentice Notes

Steps are 750 hrs.

Apprentice to Journeyworker Ratio: 1:1

FORK LIFT OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	\$39.25	\$13.78	\$12.15	\$3.00	\$0.00	\$68.18
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For apprentice rates see "Apprentice- OPERATING ENGINEERS"

GENERATORS/LIGHTING PLANTS OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	\$35.80	\$13.78	\$12.15	\$3.00	\$0.00	\$64.73
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For apprentice rates see "Apprentice- OPERATING ENGINEERS"

GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)	6/1/2026	\$44.73	\$11.20	\$8.40	\$6.05	\$0.00	\$70.38
GLAZIERS LOCAL 1333	6/1/2027	\$46.73	\$11.60	\$8.55	\$6.60	\$0.00	\$73.48
GLAZIERS LOCAL 1333	6/1/2028	\$48.73	\$12.00	\$8.70	\$7.20	\$0.00	\$76.63

Apprentice: GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)							
Effective Date: 6/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$22.37	\$11.20	\$8.40	\$6.05	\$0.00	\$48.02
2	56.25	\$25.16	\$11.20	\$8.40	\$6.05	\$0.00	\$50.81
3	62.50	\$27.96	\$11.20	\$8.40	\$6.05	\$0.00	\$53.61
4	68.75	\$30.75	\$11.20	\$8.40	\$6.05	\$0.00	\$56.40
5	75.00	\$33.55	\$11.20	\$8.40	\$6.05	\$0.00	\$59.20
6	81.25	\$36.34	\$11.20	\$8.40	\$6.05	\$0.00	\$61.99
7	87.50	\$39.14	\$11.20	\$8.40	\$6.05	\$0.00	\$64.79
8	93.75	\$41.93	\$11.20	\$8.40	\$6.05	\$0.00	\$67.58

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS) Effective Date: 6/1/2027							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$23.37	\$11.60	\$8.55	\$6.60	\$0.00	\$50.12
2	56.25	\$26.29	\$11.60	\$8.55	\$6.60	\$0.00	\$53.04
3	62.50	\$29.21	\$11.60	\$8.55	\$6.60	\$0.00	\$55.96
4	68.75	\$32.13	\$11.60	\$8.55	\$6.60	\$0.00	\$58.88
5	75.00	\$35.05	\$11.60	\$8.55	\$6.60	\$0.00	\$61.80
6	81.25	\$37.97	\$11.60	\$8.55	\$6.60	\$0.00	\$64.72
7	87.50	\$40.89	\$11.60	\$8.55	\$6.60	\$0.00	\$67.64
8	93.75	\$43.81	\$11.60	\$8.55	\$6.60	\$0.00	\$70.56
Apprentice to Journeyworker Ratio: 3:1							
GRADER/TRENCHING MACHINE/DERRICK OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	\$39.56	\$13.78	\$12.15	\$3.00	\$0.00	\$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
HVAC (DUCTWORK) SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63	7/1/2026	\$43.48	\$13.24	\$11.01	\$9.92	\$2.13	\$79.78
	1/1/2027	\$43.48	\$13.54	\$11.01	\$11.12	\$2.13	\$81.28
	7/1/2027	\$44.98	\$13.54	\$11.01	\$11.12	\$2.13	\$82.78
	1/1/2028	\$46.48	\$13.54	\$11.01	\$11.12	\$2.13	\$84.28
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (ELECTRICAL CONTROLS) ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	\$54.41	\$14.00	\$8.43	\$7.03	\$0.00	\$83.87
	1/3/2027	\$55.56	\$14.25	\$8.47	\$7.09	\$0.00	\$85.37
For apprentice rates see "Apprentice- ELECTRICIAN"							
HVAC (TESTING AND BALANCING - AIR) SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63	7/1/2026	\$43.48	\$13.24	\$11.01	\$9.92	\$2.13	\$79.78
	1/1/2027	\$43.48	\$13.54	\$11.01	\$11.12	\$2.13	\$81.28
	7/1/2027	\$44.98	\$13.54	\$11.01	\$11.12	\$2.13	\$82.78
	1/1/2028	\$46.48	\$13.54	\$11.01	\$11.12	\$2.13	\$84.28
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (TESTING AND BALANCING -WATER) PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	\$52.76	\$13.50	\$10.85	\$7.10	\$0.00	\$84.21
	9/17/2026	\$54.76	\$13.50	\$10.85	\$7.10	\$0.00	\$86.21
	3/17/2027	\$58.26	\$12.00	\$10.85	\$7.10	\$0.00	\$88.21
	9/17/2027	\$60.26	\$12.00	\$10.85	\$7.10	\$0.00	\$90.21
	3/17/2028	\$62.26	\$12.00	\$10.85	\$7.10	\$0.00	\$92.21
	9/17/2028	\$64.26	\$12.00	\$10.85	\$7.10	\$0.00	\$94.21
	3/17/2029	\$66.26	\$12.00	\$10.85	\$7.10	\$0.00	\$96.21
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
HVAC MECHANIC PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	\$52.76	\$13.50	\$10.85	\$7.10	\$0.00	\$84.21
	9/17/2026	\$54.76	\$13.50	\$10.85	\$7.10	\$0.00	\$86.21
	3/17/2027	\$58.26	\$12.00	\$10.85	\$7.10	\$0.00	\$88.21

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	9/17/2027	\$60.26	\$12.00	\$10.85	\$7.10	\$0.00	\$90.21
	3/17/2028	\$62.26	\$12.00	\$10.85	\$7.10	\$0.00	\$92.21
	9/17/2028	\$64.26	\$12.00	\$10.85	\$7.10	\$0.00	\$94.21
	3/17/2029	\$66.26	\$12.00	\$10.85	\$7.10	\$0.00	\$96.21

For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"

HYDRAULIC DRILLS (HEAVY & HIGHWAY) LABORERS	6/1/2026	\$37.74	\$10.90	\$9.75	\$6.60	\$0.00	\$64.99
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	12/1/2026	\$39.03	\$10.90	\$9.75	\$6.60	\$0.00	\$66.28

For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"

INSULATOR (PIPES & TANKS)	9/1/2025	\$48.27	\$14.75	\$9.52	\$10.09	\$0.00	\$82.63
HEAT & FROST INSULATORS LOCAL 6	9/1/2026	\$51.01	\$14.75	\$9.52	\$10.09	\$0.00	\$85.37
HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)							

Apprentice: INSULATOR (PIPES & TANKS)**Effective Date: 9/1/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$24.14	\$14.75	\$9.27	\$5.05	\$0.00	\$53.21
2	60.00	\$28.96	\$14.75	\$9.32	\$6.05	\$0.00	\$59.08
3	70.00	\$33.79	\$14.75	\$9.37	\$7.06	\$0.00	\$64.97
4	80.00	\$38.62	\$14.75	\$9.42	\$8.07	\$0.00	\$70.86

Apprentice: INSULATOR (PIPES & TANKS)**Effective Date: 9/1/2026**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$25.51	\$14.75	\$9.27	\$5.05	\$0.00	\$54.58
2	60.00	\$30.61	\$14.75	\$9.32	\$6.05	\$0.00	\$60.73
3	70.00	\$35.71	\$14.75	\$9.37	\$7.06	\$0.00	\$66.89
4	80.00	\$40.81	\$14.75	\$9.42	\$8.07	\$0.00	\$73.05

Apprentice to Journeyworker Ratio: 1:4

IRONWORKER/WELDER IRONWORKERS LOCAL 7 IRONWORKERS LOCAL 7 (SPRINGFIELD AREA)	3/16/2026	\$42.46	\$9.25	\$12.75	\$11.25	\$0.00	\$75.71
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Apprentice: IRONWORKER/WELDER**Effective Date: 3/16/2026**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	70.00	\$29.72	\$9.25	\$12.75	\$1.25	\$0.00	\$52.97
2	80.00	\$33.97	\$9.25	\$12.75	\$1.25	\$0.00	\$57.22
3	90.00	\$38.21	\$9.25	\$12.75	\$1.25	\$0.00	\$61.46
4	0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: IRONWORKER/WELDER Effective Date: 3/16/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
6	0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Apprentice to Journeyworker Ratio: 1:4							
JACKHAMMER & PAVING BREAKER OPERATOR	6/1/2026	\$37.25	\$10.90	\$9.75	\$8.62	\$0.00	\$66.52
LABORERS	12/7/2026	\$38.55	\$10.90	\$9.75	\$8.62	\$0.00	\$67.82
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$39.95	\$10.90	\$9.75	\$8.62	\$0.00	\$69.22
	12/6/2027	\$41.35	\$10.90	\$9.75	\$8.62	\$0.00	\$70.62
	6/5/2028	\$42.85	\$10.90	\$9.75	\$8.62	\$0.00	\$72.12
	12/4/2028	\$44.35	\$10.90	\$9.75	\$8.62	\$0.00	\$73.62
For apprentice rates see "Apprentice- LABORER"							
LABORER	6/1/2026	\$37.00	\$10.90	\$9.75	\$8.62	\$0.00	\$66.27
LABORERS	12/7/2026	\$38.30	\$10.90	\$9.75	\$8.62	\$0.00	\$67.57
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$39.70	\$10.90	\$9.75	\$8.62	\$0.00	\$68.97
	12/6/2027	\$41.10	\$10.90	\$9.75	\$8.62	\$0.00	\$70.37
	6/5/2028	\$42.60	\$10.90	\$9.75	\$8.62	\$0.00	\$71.87
	12/4/2028	\$44.10	\$10.90	\$9.75	\$8.62	\$0.00	\$73.37
Apprentice: LABORER Effective Date: 6/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$22.20	\$10.90	\$9.75	\$8.62	\$0.00	\$51.47
2	70.00	\$25.90	\$10.90	\$9.75	\$8.62	\$0.00	\$55.17
3	80.00	\$29.60	\$10.90	\$9.75	\$8.62	\$0.00	\$58.87
4	90.00	\$33.30	\$10.90	\$9.75	\$8.62	\$0.00	\$62.57
Apprentice: LABORER Effective Date: 12/7/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$22.98	\$10.90	\$9.75	\$8.62	\$0.00	\$52.25
2	70.00	\$26.81	\$10.90	\$9.75	\$8.62	\$0.00	\$56.08
3	80.00	\$30.64	\$10.90	\$9.75	\$8.62	\$0.00	\$59.91
4	90.00	\$34.47	\$10.90	\$9.75	\$8.62	\$0.00	\$63.74
Apprentice to Journeyworker Ratio: 1:5							
LABORER (HEAVY & HIGHWAY)	6/1/2026	\$36.99	\$10.90	\$9.75	\$6.60	\$0.00	\$64.24
LABORERS	12/1/2026	\$38.28	\$10.90	\$9.75	\$6.60	\$0.00	\$65.53
LABORERS - ZONE 3 (HEAVY & HIGHWAY)							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: LABORER (HEAVY & HIGHWAY) Effective Date: 6/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$22.19	\$10.90	\$9.75	\$6.60	\$0.00	\$49.44
2	70.00	\$25.89	\$10.90	\$9.75	\$6.60	\$0.00	\$53.14
3	80.00	\$29.59	\$10.90	\$9.75	\$6.60	\$0.00	\$56.84
4	90.00	\$33.29	\$10.90	\$9.75	\$6.60	\$0.00	\$60.54
Apprentice: LABORER (HEAVY & HIGHWAY) Effective Date: 12/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$22.97	\$10.90	\$9.75	\$6.60	\$0.00	\$50.22
2	70.00	\$26.80	\$10.90	\$9.75	\$6.60	\$0.00	\$54.05
3	80.00	\$30.62	\$10.90	\$9.75	\$6.60	\$0.00	\$57.87
4	90.00	\$34.45	\$10.90	\$9.75	\$6.60	\$0.00	\$61.70
Apprentice to Journeyworker Ratio: 1:5							
LABORER: CARPENTER TENDER	6/1/2026	\$37.00	\$10.90	\$9.75	\$8.62	\$0.00	\$66.27
LABORERS	12/7/2026	\$38.30	\$10.90	\$9.75	\$8.62	\$0.00	\$67.57
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$39.70	\$10.90	\$9.75	\$8.62	\$0.00	\$68.97
	12/6/2027	\$41.10	\$10.90	\$9.75	\$8.62	\$0.00	\$70.37
	6/5/2028	\$42.60	\$10.90	\$9.75	\$8.62	\$0.00	\$71.87
	12/4/2028	\$44.10	\$10.90	\$9.75	\$8.62	\$0.00	\$73.37
For apprentice rates see "Apprentice- LABORER"							
LABORER: CEMENT FINISHER TENDER	6/1/2026	\$37.00	\$10.90	\$9.75	\$8.62	\$0.00	\$66.27
LABORERS	12/7/2026	\$38.30	\$10.90	\$9.75	\$8.62	\$0.00	\$67.57
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$39.70	\$10.90	\$9.75	\$8.62	\$0.00	\$68.97
	12/6/2027	\$41.10	\$10.90	\$9.75	\$8.62	\$0.00	\$70.37
	6/5/2028	\$42.60	\$10.90	\$9.75	\$8.62	\$0.00	\$71.87
	12/4/2028	\$44.10	\$10.90	\$9.75	\$8.62	\$0.00	\$73.37
For apprentice rates see "Apprentice- LABORER"							
LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER	6/1/2026	\$36.92	\$10.90	\$9.75	\$8.75	\$0.00	\$66.32
LABORERS	12/7/2026	\$38.22	\$10.90	\$9.75	\$8.75	\$0.00	\$67.62
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$39.62	\$10.90	\$9.75	\$8.75	\$0.00	\$69.02
	12/6/2027	\$41.02	\$10.90	\$9.75	\$8.75	\$0.00	\$70.42
	6/5/2028	\$42.52	\$10.90	\$9.75	\$8.75	\$0.00	\$71.92
	12/4/2028	\$44.02	\$10.90	\$9.75	\$8.75	\$0.00	\$73.42
For apprentice rates see "Apprentice- LABORER"							
LABORER: MASON TENDER	6/1/2026	\$40.00	\$10.90	\$9.75	\$8.62	\$0.00	\$69.27
LABORERS	12/7/2026	\$41.30	\$10.90	\$9.75	\$8.62	\$0.00	\$70.57
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$42.70	\$10.90	\$9.75	\$8.62	\$0.00	\$71.97

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	12/6/2027	\$44.10	\$10.90	\$9.75	\$8.62	\$0.00	\$73.37
	6/5/2028	\$45.60	\$10.90	\$9.75	\$8.62	\$0.00	\$74.87
	12/4/2028	\$47.10	\$10.90	\$9.75	\$8.62	\$0.00	\$76.37

For apprentice rates see "Apprentice- LABORER"

LABORER: MASON TENDER (HEAVY & HIGHWAY)	6/1/2026	\$37.24	\$10.90	\$9.75	\$6.60	\$0.00	\$64.49
LABORERS							
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	12/1/2026	\$38.53	\$10.90	\$9.75	\$6.60	\$0.00	\$65.78

For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"

LABORER: MULTI-TRADE TENDER	6/1/2026	\$37.00	\$10.90	\$9.75	\$8.62	\$0.00	\$66.27
LABORERS							
LABORERS - ZONE 3 (BUILDING & SITE)	12/7/2026	\$38.30	\$10.90	\$9.75	\$8.62	\$0.00	\$67.57
	6/7/2027	\$39.70	\$10.90	\$9.75	\$8.62	\$0.00	\$68.97
	12/6/2027	\$41.10	\$10.90	\$9.75	\$8.62	\$0.00	\$70.37
	6/5/2028	\$42.60	\$10.90	\$9.75	\$8.62	\$0.00	\$71.87
	12/4/2028	\$44.10	\$10.90	\$9.75	\$8.62	\$0.00	\$73.37

For apprentice rates see "Apprentice- LABORER"

LABORER: TREE REMOVER	6/1/2026	\$37.00	\$10.90	\$9.75	\$8.62	\$0.00	\$66.27
LABORERS							
LABORERS - ZONE 3 (BUILDING & SITE)	12/7/2026	\$38.30	\$10.90	\$9.75	\$8.62	\$0.00	\$67.57
	6/7/2027	\$39.70	\$10.90	\$9.75	\$8.62	\$0.00	\$68.97
	12/6/2027	\$41.10	\$10.90	\$9.75	\$8.62	\$0.00	\$70.37
	6/5/2028	\$42.60	\$10.90	\$9.75	\$8.62	\$0.00	\$71.87
	12/4/2028	\$44.10	\$10.90	\$9.75	\$8.62	\$0.00	\$73.37

This classification applies to the removal of standing trees, and the trimming and removal of branches and limbs when related to public works construction or site clearance incidental to construction . For apprentice rates see "Apprentice- LABORER"

LASER BEAM OPERATOR	6/1/2026	\$37.25	\$10.90	\$9.75	\$8.62	\$0.00	\$66.52
LABORERS							
LABORERS - ZONE 3 (BUILDING & SITE)	12/7/2026	\$38.55	\$10.90	\$9.75	\$8.62	\$0.00	\$67.82
	6/7/2027	\$39.95	\$10.90	\$9.75	\$8.62	\$0.00	\$69.22
	12/6/2027	\$41.35	\$10.90	\$9.75	\$8.62	\$0.00	\$70.62
	6/5/2028	\$42.85	\$10.90	\$9.75	\$8.62	\$0.00	\$72.12
	12/4/2028	\$44.35	\$10.90	\$9.75	\$8.62	\$0.00	\$73.62

For apprentice rates see "Apprentice- LABORER"

LASER BEAM OPERATOR (HEAVY & HIGHWAY)	6/1/2026	\$37.24	\$10.90	\$9.75	\$6.60	\$0.00	\$64.49
LABORERS							
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	12/1/2026	\$38.53	\$10.90	\$9.75	\$6.60	\$0.00	\$65.78

For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"

MARBLE & TILE FINISHERS	8/1/2026	\$47.32	\$12.84	\$15.10	\$5.41	\$0.00	\$80.67
BRICKLAYERS LOCAL 3							
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	2/1/2027	\$48.44	\$12.84	\$15.10	\$5.41	\$0.00	\$81.79

Apprentice: MARBLE & TILE FINISHERS							
Effective Date: 8/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$23.66	\$12.84	\$15.10	\$5.41	\$0.00	\$57.01
2	60.00	\$28.39	\$12.84	\$15.10	\$5.41	\$0.00	\$61.74

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: MARBLE & TILE FINISHERS Effective Date: 8/1/2026							
		Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
3	70.00	\$33.12	\$12.84	\$15.10	\$5.41	\$0.00	\$66.47
4	80.00	\$37.86	\$12.84	\$15.10	\$5.41	\$0.00	\$71.21
5	90.00	\$42.59	\$12.84	\$15.10	\$5.41	\$0.00	\$75.94
Apprentice to Journeyworker Ratio: 1:5							
MECH. SWEEPER OPERATOR (ON CONST. SITES)	12/1/2023	\$39.56	\$13.78	\$12.15	\$3.00	\$0.00	\$68.49
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
MECHANIC/WELDER/BOOM TRUCK	12/1/2023	\$39.03	\$13.78	\$12.15	\$3.00	\$0.00	\$67.96
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
MILLWRIGHT (Zone 3)	1/5/2026	\$45.20	\$10.58	\$11.47	\$9.75	\$0.00	\$77.00
MILLWRIGHTS LOCAL 1121							
MILLWRIGHTS LOCAL 1121 - Zone 3							
Apprentice: MILLWRIGHT (Zone 3) Effective Date: 1/5/2026							
		Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	55.00	\$24.86	\$10.58	\$0.00	\$5.36	\$0.00	\$40.80
2	65.00	\$29.38	\$10.58	\$0.00	\$6.34	\$0.00	\$46.30
3	75.00	\$33.90	\$10.58	\$11.47	\$7.31	\$0.00	\$63.26
4	85.00	\$38.42	\$10.58	\$11.47	\$8.29	\$0.00	\$68.76
Apprentice Notes Step 1&2 Appr. indentured after 1/6/2020 receive no pension,							
Apprentice to Journeyworker Ratio: 1:4							
MORTAR MIXER	6/1/2026	\$37.25	\$10.90	\$9.75	\$8.62	\$0.00	\$66.52
LABORERS	12/7/2026	\$38.55	\$10.90	\$9.75	\$8.62	\$0.00	\$67.82
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$39.95	\$10.90	\$9.75	\$8.62	\$0.00	\$69.22
	12/6/2027	\$41.35	\$10.90	\$9.75	\$8.62	\$0.00	\$70.62
	6/5/2028	\$42.85	\$10.90	\$9.75	\$8.62	\$0.00	\$72.12
	12/4/2028	\$44.35	\$10.90	\$9.75	\$8.62	\$0.00	\$73.62
For apprentice rates see "Apprentice- LABORER"							
OILER	12/1/2023	\$35.02	\$13.78	\$12.15	\$3.00	\$0.00	\$63.95
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
OTHER POWER DRIVEN EQUIPMENT - CLASS VI OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	\$32.74	\$13.78	\$12.15	\$3.00	\$0.00	\$61.67

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

PAINTER (BRIDGES/TANKS) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	\$59.56	\$10.35	\$12.00	\$12.60	\$0.00	\$94.51
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Apprentice: PAINTER (BRIDGES/TANKS)							
Effective Date: 1/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$29.78	\$10.35	\$0.00	\$0.00	\$0.00	\$40.13
2	55.00	\$32.76	\$10.35	\$0.00	\$6.93	\$0.00	\$50.04
3	60.00	\$35.74	\$10.35	\$0.00	\$7.56	\$0.00	\$53.65
4	65.00	\$38.71	\$10.35	\$0.00	\$8.19	\$0.00	\$57.25
5	70.00	\$41.69	\$10.35	\$12.00	\$8.82	\$0.00	\$72.86
6	75.00	\$44.67	\$10.35	\$12.00	\$9.45	\$0.00	\$76.47
7	80.00	\$47.65	\$10.35	\$12.00	\$10.08	\$0.00	\$80.08
8	90.00	\$53.60	\$10.35	\$12.00	\$11.34	\$0.00	\$87.29

Apprentice to Journeyworker Ratio: 1:1

PAINTER (SPRAY OR SANDBLAST, NEW) *	1/1/2026	\$42.03	\$10.35	\$12.00	\$8.35	\$0.00	\$72.73
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* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used.

PAINTERS LOCAL 35
PAINTERS LOCAL 35 - ZONE 3

Apprentice: PAINTER (SPRAY OR SANDBLAST, NEW) *							
Effective Date: 1/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$21.02	\$10.35	\$0.00	\$0.00	\$0.00	\$31.37
2	55.00	\$23.12	\$10.35	\$0.00	\$4.59	\$0.00	\$38.06
3	60.00	\$25.22	\$10.35	\$0.00	\$5.01	\$0.00	\$40.58
4	65.00	\$27.32	\$10.35	\$0.00	\$5.43	\$0.00	\$43.10
5	70.00	\$29.42	\$10.35	\$12.00	\$5.85	\$0.00	\$57.62
6	75.00	\$31.52	\$10.35	\$12.00	\$6.26	\$0.00	\$60.13
7	80.00	\$33.62	\$10.35	\$12.00	\$6.68	\$0.00	\$62.65
8	90.00	\$37.83	\$10.35	\$12.00	\$7.52	\$0.00	\$67.70

Apprentice to Journeyworker Ratio: 1:1

PAINTER (SPRAY OR SANDBLAST, REPAINT) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	\$39.35	\$10.35	\$12.00	\$8.35	\$0.00	\$70.05
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Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: PAINTER (SPRAY OR SANDBLAST, REPAINT)							
Effective Date: 1/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$19.68	\$10.35	\$0.00	\$0.00	\$0.00	\$30.03
2	55.00	\$21.64	\$10.35	\$0.00	\$4.59	\$0.00	\$36.58
3	60.00	\$23.61	\$10.35	\$0.00	\$5.01	\$0.00	\$38.97
4	65.00	\$25.58	\$10.35	\$0.00	\$5.43	\$0.00	\$41.36
5	70.00	\$27.55	\$10.35	\$12.00	\$5.85	\$0.00	\$55.75
6	75.00	\$29.51	\$10.35	\$12.00	\$6.26	\$0.00	\$58.12
7	80.00	\$31.48	\$10.35	\$12.00	\$6.68	\$0.00	\$60.51
8	90.00	\$35.42	\$10.35	\$12.00	\$7.52	\$0.00	\$65.29

Apprentice to Journeyworker Ratio: 1:1

PAINTER / TAPER (BRUSH, NEW) *	1/1/2026	\$40.63	\$10.35	\$12.00	\$8.35	\$0.00	\$71.33
* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used.							
PAINTERS LOCAL 35							
PAINTERS LOCAL 35 - ZONE 3							

Apprentice: PAINTER / TAPER (BRUSH, NEW) *							
Effective Date: 1/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$20.32	\$10.35	\$0.00	\$0.00	\$0.00	\$30.67
2	55.00	\$22.35	\$10.35	\$0.00	\$4.59	\$0.00	\$37.29
3	60.00	\$24.38	\$10.35	\$0.00	\$5.01	\$0.00	\$39.74
4	65.00	\$26.41	\$10.35	\$0.00	\$5.43	\$0.00	\$42.19
5	70.00	\$28.44	\$10.35	\$12.00	\$5.85	\$0.00	\$56.64
6	75.00	\$30.47	\$10.35	\$12.00	\$6.26	\$0.00	\$59.08
7	80.00	\$32.50	\$10.35	\$12.00	\$6.68	\$0.00	\$61.53
8	90.00	\$36.57	\$10.35	\$12.00	\$7.52	\$0.00	\$66.44

Apprentice to Journeyworker Ratio: 1:1

PAINTER / TAPER (BRUSH, REPAINT)	1/1/2026	\$37.95	\$10.35	\$12.00	\$8.35	\$0.00	\$68.65
PAINTERS LOCAL 35							
PAINTERS LOCAL 35 - ZONE 3							

Apprentice: PAINTER / TAPER (BRUSH, REPAINT)							
Effective Date: 1/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$18.98	\$10.35	\$0.00	\$0.00	\$0.00	\$29.33
2	55.00	\$20.87	\$10.35	\$0.00	\$4.59	\$0.00	\$35.81
3	60.00	\$22.77	\$10.35	\$0.00	\$5.01	\$0.00	\$38.13

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: PAINTER / TAPER (BRUSH, REPAINT) Effective Date: 1/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
4	65.00	\$24.67	\$10.35	\$0.00	\$5.43	\$0.00	\$40.45
5	70.00	\$26.57	\$10.35	\$12.00	\$5.85	\$0.00	\$54.77
6	75.00	\$28.46	\$10.35	\$12.00	\$6.26	\$0.00	\$57.07
7	80.00	\$30.36	\$10.35	\$12.00	\$6.68	\$0.00	\$59.39
8	90.00	\$34.16	\$10.35	\$12.00	\$7.52	\$0.00	\$64.03
Apprentice to Journeyworker Ratio: 1:1							
PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY)	6/1/2026	\$36.99	\$10.90	\$9.75	\$6.60	\$0.00	\$64.24
LABORERS	12/1/2026	\$38.28	\$10.90	\$9.75	\$6.60	\$0.00	\$65.53
LABORERS - ZONE 3 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
PANEL & PICKUP TRUCKS DRIVER	6/1/2026	\$41.78	\$16.17	\$21.78	\$0.00	\$0.00	\$79.73
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	\$41.78	\$16.17	\$23.52	\$0.00	\$0.00	\$81.47
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	\$41.78	\$16.77	\$23.52	\$0.00	\$0.00	\$82.07
PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK)	8/1/2024	\$49.19	\$10.08	\$11.62	\$12.67	\$0.00	\$83.56
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
For apprentice rates see "Apprentice- PILE DRIVER"							
PILE DRIVER	8/1/2024	\$49.19	\$10.08	\$11.62	\$12.67	\$0.00	\$83.56
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
Apprentice: PILE DRIVER Effective Date: 8/1/2024							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$22.14	\$10.08	\$0.00	\$2.53	\$0.00	\$34.75
2	55.00	\$27.05	\$10.08	\$0.00	\$5.07	\$0.00	\$42.20
3	70.00	\$34.43	\$10.08	\$11.62	\$7.60	\$0.00	\$63.73
4	80.00	\$39.35	\$10.08	\$11.62	\$10.14	\$0.00	\$71.19
Apprentice to Journeyworker Ratio: 1:5							
PIPELAYER	6/1/2026	\$37.25	\$10.90	\$9.75	\$8.62	\$0.00	\$66.52
LABORERS	12/7/2026	\$38.55	\$10.90	\$9.75	\$8.62	\$0.00	\$67.82
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$39.95	\$10.90	\$9.75	\$8.62	\$0.00	\$69.22
	12/6/2027	\$41.35	\$10.90	\$9.75	\$8.62	\$0.00	\$70.62
	6/5/2028	\$42.85	\$10.90	\$9.75	\$8.62	\$0.00	\$72.12
	12/4/2028	\$44.35	\$10.90	\$9.75	\$8.62	\$0.00	\$73.62
For apprentice rates see "Apprentice- LABORER"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
PIPELAYER (HEAVY & HIGHWAY)	6/1/2026	\$37.24	\$10.90	\$9.75	\$6.60	\$0.00	\$64.49
LABORERS	12/1/2026	\$38.53	\$10.90	\$9.75	\$6.60	\$0.00	\$65.78
LABORERS - ZONE 3 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							

PLUMBER & PIPEFITTER	3/17/2026	\$52.76	\$13.50	\$10.85	\$7.10	\$0.00	\$84.21
PLUMBERS & PIPEFITTERS LOCAL 104	9/17/2026	\$54.76	\$13.50	\$10.85	\$7.10	\$0.00	\$86.21
PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2027	\$58.26	\$12.00	\$10.85	\$7.10	\$0.00	\$88.21
	9/17/2027	\$60.26	\$12.00	\$10.85	\$7.10	\$0.00	\$90.21
	3/17/2028	\$62.26	\$12.00	\$10.85	\$7.10	\$0.00	\$92.21
	9/17/2028	\$64.26	\$12.00	\$10.85	\$7.10	\$0.00	\$94.21
	3/17/2029	\$66.26	\$12.00	\$10.85	\$7.10	\$0.00	\$96.21

Apprentice: PLUMBER & PIPEFITTER**Effective Date: 3/17/2026**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$23.74	\$13.50	\$10.85	\$0.00	\$0.00	\$48.09
2	50.00	\$26.38	\$13.50	\$10.85	\$0.00	\$0.00	\$50.73
3	55.00	\$29.02	\$13.50	\$10.85	\$0.00	\$0.00	\$53.37
4	60.00	\$31.66	\$13.50	\$10.85	\$0.00	\$0.00	\$56.01
5	65.00	\$34.29	\$13.50	\$10.85	\$0.00	\$0.00	\$58.64
6	70.00	\$36.93	\$13.50	\$10.85	\$0.00	\$0.00	\$61.28
7	75.00	\$39.57	\$13.50	\$10.85	\$0.00	\$0.00	\$63.92
8	80.00	\$42.21	\$13.50	\$10.85	\$0.00	\$0.00	\$66.56
9	85.00	\$44.85	\$13.50	\$10.85	\$7.10	\$0.00	\$76.30
10	85.00	\$44.85	\$13.50	\$10.85	\$7.10	\$0.00	\$76.30

Apprentice: PLUMBER & PIPEFITTER**Effective Date: 9/17/2026**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$24.64	\$13.50	\$10.85	\$0.00	\$0.00	\$48.99
2	50.00	\$27.38	\$13.50	\$10.85	\$0.00	\$0.00	\$51.73
3	55.00	\$30.12	\$13.50	\$10.85	\$0.00	\$0.00	\$54.47
4	60.00	\$32.86	\$13.50	\$10.85	\$0.00	\$0.00	\$57.21
5	65.00	\$35.59	\$13.50	\$10.85	\$0.00	\$0.00	\$59.94
6	70.00	\$38.33	\$13.50	\$10.85	\$0.00	\$0.00	\$62.68
7	75.00	\$41.07	\$13.50	\$10.85	\$0.00	\$0.00	\$65.42
8	80.00	\$43.81	\$13.50	\$10.85	\$0.00	\$0.00	\$68.16
9	85.00	\$46.55	\$13.50	\$10.85	\$7.10	\$0.00	\$78.00
10	85.00	\$46.55	\$13.50	\$10.85	\$7.10	\$0.00	\$78.00

Apprentice Notes****1:1,2:5,3:9,4:12****Apprentice to Journeyworker Ratio: 1:1**

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
PNEUMATIC CONTROLS (TEMP.)	3/17/2026	\$52.76	\$13.50	\$10.85	\$7.10	\$0.00	\$84.21
PLUMBERS & PIPEFITTERS LOCAL 104	9/17/2026	\$54.76	\$13.50	\$10.85	\$7.10	\$0.00	\$86.21
PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2027	\$58.26	\$12.00	\$10.85	\$7.10	\$0.00	\$88.21
	9/17/2027	\$60.26	\$12.00	\$10.85	\$7.10	\$0.00	\$90.21
	3/17/2028	\$62.26	\$12.00	\$10.85	\$7.10	\$0.00	\$92.21
	9/17/2028	\$64.26	\$12.00	\$10.85	\$7.10	\$0.00	\$94.21
	3/17/2029	\$66.26	\$12.00	\$10.85	\$7.10	\$0.00	\$96.21
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY)	6/1/2026	\$37.24	\$10.90	\$9.75	\$6.60	\$0.00	\$64.49
LABORERS	12/1/2026	\$38.53	\$10.90	\$9.75	\$6.60	\$0.00	\$65.78
LABORERS - ZONE 3 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
POWDERMAN & BLASTER	6/1/2026	\$38.00	\$10.90	\$9.75	\$8.62	\$0.00	\$67.27
LABORERS	12/7/2026	\$39.30	\$10.90	\$9.75	\$8.62	\$0.00	\$68.57
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$40.70	\$10.90	\$9.75	\$8.62	\$0.00	\$69.97
	12/6/2027	\$42.10	\$10.90	\$9.75	\$8.62	\$0.00	\$71.37
	6/5/2028	\$43.60	\$10.90	\$9.75	\$8.62	\$0.00	\$72.87
	12/4/2028	\$45.10	\$10.90	\$9.75	\$8.62	\$0.00	\$74.37
For apprentice rates see "Apprentice- LABORER"							
POWDERMAN & BLASTER (HEAVY & HIGHWAY)	6/1/2026	\$37.99	\$10.90	\$9.75	\$6.60	\$0.00	\$65.24
LABORERS	12/1/2026	\$39.28	\$10.90	\$9.75	\$6.60	\$0.00	\$66.53
LABORERS - ZONE 3 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
PUMP OPERATOR (CONCRETE)	12/1/2023	\$39.56	\$13.78	\$12.15	\$3.00	\$0.00	\$68.49
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
PUMP OPERATOR (DEWATERING, OTHER)	12/1/2023	\$39.03	\$13.78	\$12.15	\$3.00	\$0.00	\$67.96
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
READY-MIX CONCRETE DRIVER	5/1/2024	\$26.14	\$11.82	\$7.25	\$0.00	\$0.00	\$45.21
TEAMSTERS 404 - Construction Service (Northampton)							
TEAMSTERS 404 - Construction Service (Northampton)							
RIDE-ON MOTORIZED BUGGY OPERATOR	6/1/2026	\$37.25	\$10.90	\$9.75	\$8.62	\$0.00	\$66.52
LABORERS	12/7/2026	\$38.55	\$10.90	\$9.75	\$8.62	\$0.00	\$67.82
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$39.95	\$10.90	\$9.75	\$8.62	\$0.00	\$69.22
	12/6/2027	\$41.35	\$10.90	\$9.75	\$8.62	\$0.00	\$70.62
	6/5/2028	\$42.85	\$10.90	\$9.75	\$8.62	\$0.00	\$72.12
	12/4/2028	\$44.35	\$10.90	\$9.75	\$8.62	\$0.00	\$73.62
For apprentice rates see "Apprentice- LABORER"							
ROLLER OPERATOR	12/1/2023	\$38.42	\$13.78	\$12.15	\$3.00	\$0.00	\$67.35
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
ROOFER (Coal tar pitch) ROOFERS LOCAL 248 ROOFERS LOCAL 248	7/16/2026	\$46.73	\$10.60	\$8.70	\$10.00	\$0.00	\$76.03
For apprentice rates see "Apprentice- ROOFER"							
ROOFER (Inc.Roofers Waterproofing &Roofers Dampproofg) ROOFERS LOCAL 248 ROOFERS LOCAL 248	7/16/2026	\$46.23	\$10.60	\$8.70	\$10.00	\$0.00	\$75.53
ROOFER SLATE / TILE / PRECAST CONCRETE ROOFERS LOCAL 248 ROOFERS LOCAL 248	7/16/2026	\$46.73	\$10.60	\$8.70	\$10.00	\$0.00	\$76.03
For apprentice rates see "Apprentice- ROOFER"							
SCRAPER OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	\$39.03	\$13.78	\$12.15	\$3.00	\$0.00	\$67.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
SELF-POWERED ROLLERS AND COMPACTORS (TAMPERS) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	\$38.42	\$13.78	\$12.15	\$3.00	\$0.00	\$67.35
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
SELF-PROPELLED POWER BROOM OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	\$35.80	\$13.78	\$12.15	\$3.00	\$0.00	\$64.73
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
SHEETMETAL WORKER SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63	7/1/2026	\$43.48	\$13.24	\$11.01	\$9.92	\$2.13	\$79.78
	1/1/2027	\$43.48	\$13.54	\$11.01	\$11.12	\$2.13	\$81.28
	7/1/2027	\$44.98	\$13.54	\$11.01	\$11.12	\$2.13	\$82.78
	1/1/2028	\$46.48	\$13.54	\$11.01	\$11.12	\$2.13	\$84.28

Apprentice: SHEETMETAL WORKER							
Effective Date: 7/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$19.57	\$5.96	\$4.95	\$0.00	\$0.85	\$31.33
2	50.00	\$21.74	\$6.62	\$5.51	\$0.00	\$0.94	\$34.81
3	55.00	\$23.91	\$7.28	\$9.91	\$0.00	\$1.15	\$42.25
4	60.00	\$26.09	\$7.94	\$9.91	\$0.00	\$1.23	\$45.17
5	65.00	\$28.26	\$8.60	\$9.91	\$0.00	\$1.31	\$48.08
6	70.00	\$30.44	\$9.27	\$9.91	\$0.00	\$1.39	\$51.01
7	75.00	\$32.61	\$9.93	\$9.91	\$0.00	\$1.47	\$53.92
8	80.00	\$34.78	\$10.59	\$9.91	\$9.92	\$1.78	\$66.98
9	85.00	\$36.96	\$11.25	\$9.91	\$9.92	\$1.86	\$69.90
10	90.00	\$39.13	\$11.92	\$9.91	\$9.92	\$1.94	\$72.82

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: SHEETMETAL WORKER							
Effective Date: 1/1/2027							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$19.57	\$6.09	\$4.95	\$0.00	\$0.85	\$31.46
2	50.00	\$21.74	\$6.77	\$5.51	\$0.00	\$0.94	\$34.96
3	55.00	\$23.91	\$7.45	\$9.91	\$0.00	\$1.15	\$42.42
4	60.00	\$26.09	\$8.36	\$9.91	\$0.00	\$1.23	\$45.59
5	65.00	\$28.26	\$8.86	\$9.91	\$0.00	\$1.31	\$48.34
6	70.00	\$30.44	\$9.48	\$9.91	\$0.00	\$1.39	\$51.22
7	75.00	\$32.61	\$10.15	\$9.91	\$0.00	\$1.47	\$54.14
8	80.00	\$34.78	\$10.83	\$9.91	\$11.12	\$1.78	\$68.42
9	85.00	\$36.96	\$11.51	\$9.91	\$11.12	\$1.86	\$71.36
10	90.00	\$39.13	\$12.18	\$9.91	\$11.12	\$1.94	\$74.28

Apprentice to Journeyworker Ratio: 1:3

SPECIALIZED EARTH MOVING EQUIP < 35 TONS	6/1/2026	\$42.24	\$16.17	\$21.78	\$0.00	\$0.00	\$80.19
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	\$42.24	\$16.17	\$23.52	\$0.00	\$0.00	\$81.93
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	\$42.24	\$16.77	\$23.52	\$0.00	\$0.00	\$82.53
SPECIALIZED EARTH MOVING EQUIP > 35 TONS	6/1/2026	\$42.53	\$16.17	\$21.78	\$0.00	\$0.00	\$80.48
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	\$42.53	\$16.17	\$23.52	\$0.00	\$0.00	\$82.22
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	\$42.53	\$16.77	\$23.52	\$0.00	\$0.00	\$82.82
SPRINKLER FITTER	7/1/2026	\$56.54	\$13.60	\$7.45	\$9.41	\$0.00	\$87.00
SPRINKLER FITTERS LOCAL 669	10/1/2026	\$56.54	\$13.60	\$7.45	\$9.41	\$0.00	\$87.00
SPRINKLER FITTERS LOCAL 669	1/1/2027	\$56.54	\$14.55	\$7.50	\$9.41	\$0.00	\$88.00
	4/1/2027	\$59.83	\$14.55	\$7.50	\$9.41	\$0.00	\$91.29
	7/1/2027	\$59.83	\$14.55	\$7.50	\$9.41	\$0.00	\$91.29
	10/1/2027	\$59.83	\$14.55	\$7.50	\$9.41	\$0.00	\$91.29
	1/1/2028	\$59.83	\$15.50	\$7.55	\$9.41	\$0.00	\$92.29

Apprentice: SPRINKLER FITTER							
Effective Date: 7/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	43.00	\$28.36	\$9.64	\$0.00	\$0.00	\$0.00	\$38.00
2	48.00	\$31.66	\$9.64	\$0.00	\$0.00	\$0.00	\$41.30
3	52.00	\$34.29	\$13.60	\$7.45	\$1.15	\$0.00	\$56.49
4	56.00	\$36.93	\$13.60	\$7.45	\$1.15	\$0.00	\$59.13
5	59.00	\$38.91	\$13.60	\$7.45	\$1.40	\$0.00	\$61.36
6	64.00	\$42.21	\$13.60	\$7.45	\$1.40	\$0.00	\$64.66
7	68.00	\$44.85	\$13.60	\$7.45	\$1.40	\$0.00	\$67.30
8	72.00	\$47.48	\$13.60	\$7.45	\$1.40	\$0.00	\$69.93
9	76.00	\$50.12	\$13.60	\$7.45	\$1.40	\$0.00	\$72.57
10	80.00	\$52.76	\$13.60	\$7.45	\$1.40	\$0.00	\$75.21

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: SPRINKLER FITTER							
Effective Date: 10/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	43.00	\$28.36	\$0.00	\$0.00	\$0.00	\$0.00	\$28.36
2	48.00	\$31.66	\$0.00	\$0.00	\$0.00	\$0.00	\$31.66
3	52.00	\$34.29	\$0.00	\$0.00	\$1.15	\$0.00	\$35.44
4	56.00	\$36.93	\$0.00	\$0.00	\$1.15	\$0.00	\$38.08
5	59.00	\$38.91	\$0.00	\$0.00	\$1.40	\$0.00	\$40.31
6	64.00	\$42.21	\$0.00	\$0.00	\$1.40	\$0.00	\$43.61
7	68.00	\$44.85	\$0.00	\$0.00	\$1.40	\$0.00	\$46.25
8	72.00	\$47.48	\$0.00	\$0.00	\$1.40	\$0.00	\$48.88
9	76.00	\$50.12	\$0.00	\$0.00	\$1.40	\$0.00	\$51.52
10	80.00	\$52.76	\$0.00	\$0.00	\$1.40	\$0.00	\$54.16

Apprentice to Journeyworker Ratio: 1:1

TELECOMMUNICATION TECHNICIAN	6/28/2026	\$54.41	\$14.00	\$8.43	\$7.03	\$0.00	\$83.87
TELECOMMUNICATION TECHNICIAN	1/3/2027	\$55.56	\$14.25	\$8.47	\$7.09	\$0.00	\$85.37
ELECTRICIANS LOCAL 7							
ELECTRICIANS LOCAL 7							

For apprentice rates and ratios see "Apprentice- ELECTRICIAN"

Apprentice: TELECOMMUNICATION TECHNICIAN							
Effective Date: 6/28/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	\$21.76	\$7.80	\$0.63	\$0.00	\$0.00	\$30.19
2	45.00	\$24.48	\$7.80	\$0.70	\$0.00	\$0.00	\$32.98
3	50.00	\$27.21	\$14.00	\$7.53	\$0.00	\$0.00	\$48.74
4	55.00	\$29.93	\$14.00	\$7.61	\$0.00	\$0.00	\$51.54
5	65.00	\$35.37	\$14.00	\$9.84	\$0.00	\$0.00	\$59.21
6	70.00	\$38.09	\$14.00	\$11.30	\$0.00	\$0.00	\$63.39

Apprentice: TELECOMMUNICATION TECHNICIAN							
Effective Date: 1/3/2027							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	\$22.22	\$7.95	\$0.63	\$0.00	\$0.00	\$30.80
2	45.00	\$25.00	\$7.95	\$0.70	\$0.00	\$0.00	\$33.65
3	50.00	\$27.78	\$14.25	\$7.53	\$0.00	\$0.00	\$49.56
4	55.00	\$30.56	\$14.25	\$7.61	\$0.00	\$0.00	\$52.42
5	65.00	\$36.11	\$14.25	\$9.84	\$0.00	\$0.00	\$60.20
6	70.00	\$38.89	\$14.25	\$11.30	\$0.00	\$0.00	\$64.44

Apprentice to Journeyworker Ratio: 1:1

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
TERRAZZO FINISHERS	8/1/2026	\$69.09	\$12.84	\$15.57	\$8.02	\$0.00	\$105.52
BRICKLAYERS LOCAL 3	2/1/2027	\$70.49	\$12.84	\$15.57	\$8.02	\$0.00	\$106.92
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE							

Apprentice: TERRAZZO FINISHERS**Effective Date: 8/1/2026**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$34.55	\$12.84	\$15.57	\$8.02	\$0.00	\$70.98
2	60.00	\$41.45	\$12.84	\$15.57	\$8.02	\$0.00	\$77.88
3	70.00	\$48.36	\$12.84	\$15.57	\$8.02	\$0.00	\$84.79
4	80.00	\$55.27	\$12.84	\$15.57	\$8.02	\$0.00	\$91.70
5	90.00	\$62.18	\$12.84	\$15.57	\$8.02	\$0.00	\$98.61

Apprentice: TERRAZZO FINISHERS**Effective Date: 2/1/2027**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$35.25	\$12.84	\$15.57	\$8.02	\$0.00	\$71.68
2	60.00	\$42.29	\$12.84	\$15.57	\$8.02	\$0.00	\$78.72
3	70.00	\$49.34	\$12.84	\$15.57	\$8.02	\$0.00	\$85.77
4	80.00	\$56.39	\$12.84	\$15.57	\$8.02	\$0.00	\$92.82
5	90.00	\$63.44	\$12.84	\$15.57	\$8.02	\$0.00	\$99.87

Apprentice to Journeyworker Ratio: 1:5

TERRAZZO MECHANIC	8/1/2026	\$70.17	\$12.84	\$15.57	\$7.99	\$0.00	\$106.57
BRICKLAYERS LOCAL 3	2/1/2027	\$71.57	\$12.84	\$15.57	\$7.99	\$0.00	\$107.97
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE							

Apprentice: TERRAZZO MECHANIC**Effective Date: 8/1/2026**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$35.09	\$12.84	\$15.57	\$7.99	\$0.00	\$71.49
2	60.00	\$42.10	\$12.84	\$15.57	\$7.99	\$0.00	\$78.50
3	70.00	\$49.12	\$12.84	\$15.57	\$7.99	\$0.00	\$85.52
4	80.00	\$56.14	\$12.84	\$15.57	\$7.99	\$0.00	\$92.54
5	90.00	\$63.15	\$12.84	\$15.57	\$7.99	\$0.00	\$99.55

Apprentice: TERRAZZO MECHANIC**Effective Date: 2/1/2027**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$35.79	\$12.84	\$15.57	\$7.99	\$0.00	\$72.19
2	60.00	\$42.94	\$12.84	\$15.57	\$7.99	\$0.00	\$79.34

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate																																
Apprentice: TERRAZZO MECHANIC Effective Date: 2/1/2027 <table><thead><tr><th>Step</th><th>Percent</th><th>Apprentice Base Wage</th><th>Health</th><th>Pension</th><th>Annuity</th><th>Supplemental Unemployment</th><th>Total Rate</th></tr></thead><tbody><tr><td>3</td><td>70.00</td><td>\$50.10</td><td>\$12.84</td><td>\$15.57</td><td>\$7.99</td><td>\$0.00</td><td>\$86.50</td></tr><tr><td>4</td><td>80.00</td><td>\$57.26</td><td>\$12.84</td><td>\$15.57</td><td>\$7.99</td><td>\$0.00</td><td>\$93.66</td></tr><tr><td>5</td><td>90.00</td><td>\$64.41</td><td>\$12.84</td><td>\$15.57</td><td>\$7.99</td><td>\$0.00</td><td>\$100.81</td></tr></tbody></table>								Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate	3	70.00	\$50.10	\$12.84	\$15.57	\$7.99	\$0.00	\$86.50	4	80.00	\$57.26	\$12.84	\$15.57	\$7.99	\$0.00	\$93.66	5	90.00	\$64.41	\$12.84	\$15.57	\$7.99	\$0.00	\$100.81
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate																																
3	70.00	\$50.10	\$12.84	\$15.57	\$7.99	\$0.00	\$86.50																																
4	80.00	\$57.26	\$12.84	\$15.57	\$7.99	\$0.00	\$93.66																																
5	90.00	\$64.41	\$12.84	\$15.57	\$7.99	\$0.00	\$100.81																																
Apprentice to Journeyworker Ratio: 1:5																																							
TEST BORING DRILLER	6/1/2026	\$53.25	\$10.90	\$9.75	\$9.80	\$0.00	\$83.70																																
LABORERS	12/1/2026	\$54.75	\$10.90	\$9.75	\$9.80	\$0.00	\$85.20																																
LABORERS - FOUNDATION AND MARINE																																							
For apprentice rates see "Apprentice- LABORER"																																							
TEST BORING DRILLER HELPER	6/1/2026	\$49.37	\$10.90	\$9.75	\$9.80	\$0.00	\$79.82																																
LABORERS	12/1/2026	\$50.87	\$10.90	\$9.75	\$9.80	\$0.00	\$81.32																																
LABORERS - FOUNDATION AND MARINE																																							
For apprentice rates see "Apprentice- LABORER"																																							
TEST BORING LABORER	6/1/2026	\$49.25	\$10.90	\$9.75	\$9.80	\$0.00	\$79.70																																
LABORERS	12/1/2026	\$50.75	\$10.90	\$9.75	\$9.80	\$0.00	\$81.20																																
LABORERS - FOUNDATION AND MARINE																																							
For apprentice rates see "Apprentice- LABORER"																																							
TRACTORS	12/1/2023	\$38.42	\$13.78	\$12.15	\$3.00	\$0.00	\$67.35																																
OPERATING ENGINEERS LOCAL 98																																							
OPERATING ENGINEERS LOCAL 98																																							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"																																							
TRAILERS FOR EARTH MOVING EQUIPMENT	6/1/2026	\$42.82	\$16.17	\$21.78	\$0.00	\$0.00	\$80.77																																
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	\$42.82	\$16.17	\$23.52	\$0.00	\$0.00	\$82.51																																
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	\$42.82	\$16.77	\$23.52	\$0.00	\$0.00	\$83.11																																
TUNNEL WORK - COMPRESSED AIR	6/1/2026	\$61.48	\$10.90	\$9.75	\$10.25	\$0.00	\$92.38																																
LABORERS	12/1/2026	\$62.98	\$10.90	\$9.75	\$10.25	\$0.00	\$93.88																																
LABORERS (COMPRESSED AIR)																																							
For apprentice rates see "Apprentice- LABORER"																																							
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE)	6/1/2026	\$63.48	\$10.90	\$9.75	\$10.25	\$0.00	\$94.38																																
LABORERS	12/1/2026	\$64.98	\$10.90	\$9.75	\$10.25	\$0.00	\$95.88																																
LABORERS (COMPRESSED AIR)																																							
For apprentice rates see "Apprentice- LABORER"																																							
TUNNEL WORK - FREE AIR	6/1/2026	\$53.55	\$10.90	\$9.75	\$10.25	\$0.00	\$84.45																																
LABORERS	12/1/2026	\$55.05	\$10.90	\$9.75	\$10.25	\$0.00	\$85.95																																
LABORERS (FREE AIR TUNNEL)																																							
For apprentice rates see "Apprentice- LABORER"																																							
TUNNEL WORK - FREE AIR (HAZ. WASTE)	6/1/2026	\$55.55	\$10.90	\$9.75	\$10.25	\$0.00	\$86.45																																
LABORERS	12/1/2026	\$57.05	\$10.90	\$9.75	\$10.25	\$0.00	\$87.95																																
LABORERS (FREE AIR TUNNEL)																																							
For apprentice rates see "Apprentice- LABORER"																																							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
VAC-HAUL	6/1/2026	\$42.24	\$16.17	\$21.78	\$0.00	\$0.00	\$80.19
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	\$42.24	\$16.17	\$23.52	\$0.00	\$0.00	\$81.93
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	\$42.24	\$16.77	\$23.52	\$0.00	\$0.00	\$82.53
WAGON DRILL OPERATOR	6/1/2026	\$37.25	\$10.90	\$9.75	\$8.62	\$0.00	\$66.52
LABORERS	12/7/2026	\$38.55	\$10.90	\$9.75	\$8.62	\$0.00	\$67.82
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$39.95	\$10.90	\$9.75	\$8.62	\$0.00	\$69.22
	12/6/2027	\$41.35	\$10.90	\$9.75	\$8.62	\$0.00	\$70.62
	6/5/2028	\$42.85	\$10.90	\$9.75	\$8.62	\$0.00	\$72.12
	12/4/2028	\$44.35	\$10.90	\$9.75	\$8.62	\$0.00	\$73.62
For apprentice rates see "Apprentice- LABORER"							
WAGON DRILL OPERATOR (HEAVY & HIGHWAY)	6/1/2026	\$37.24	\$10.90	\$9.75	\$6.60	\$0.00	\$64.49
LABORERS	12/1/2026	\$38.53	\$10.90	\$9.75	\$6.60	\$0.00	\$65.78
LABORERS - ZONE 3 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
WATER METER INSTALLER	3/17/2026	\$52.76	\$13.50	\$10.85	\$7.10	\$0.00	\$84.21
PLUMBERS & PIPEFITTERS LOCAL 104	9/17/2026	\$56.26	\$12.00	\$10.85	\$7.10	\$0.00	\$86.21
PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2027	\$58.26	\$12.00	\$10.85	\$7.10	\$0.00	\$88.21
	9/17/2027	\$60.26	\$12.00	\$10.85	\$7.10	\$0.00	\$90.21
	3/17/2028	\$62.26	\$12.00	\$10.85	\$7.10	\$0.00	\$92.21
	9/17/2028	\$64.26	\$12.00	\$10.85	\$7.10	\$0.00	\$94.21
	3/17/2029	\$66.26	\$12.00	\$10.85	\$7.10	\$0.00	\$96.21
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"							

Marine Drilling

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BLASTER MARINE DRILLING MARINE DRILLING	1/1/2018	\$41.82	\$7.63	\$2.35	\$1.25	\$0.00	\$53.05
BOAT CAPTAIN MARINE DRILLING MARINE DRILLING	1/1/2018	\$33.87	\$7.63	\$2.35	\$0.95	\$0.00	\$44.80
BOAT CAPTAIN / Over 1,000 hp MARINE DRILLING MARINE DRILLING	1/1/2018	\$38.06	\$7.63	\$2.35	\$1.25	\$0.00	\$49.29
CORE DRILLER MARINE DRILLING MARINE DRILLING	1/1/2018	\$31.43	\$7.63	\$2.25	\$0.65	\$0.00	\$41.96
CORE DRILLER HELPER MARINE DRILLING MARINE DRILLING	1/1/2018	\$28.47	\$7.63	\$2.35	\$0.65	\$0.00	\$39.10
DRILLER MARINE DRILLING MARINE DRILLING	1/1/2018	\$39.70	\$7.63	\$2.35	\$1.25	\$0.00	\$50.93
ENGINEER MARINE DRILLING MARINE DRILLING	1/1/2018	\$39.69	\$7.63	\$2.25	\$1.25	\$0.00	\$50.82
HELPER MARINE DRILLING MARINE DRILLING	1/1/2018	\$34.24	\$7.63	\$2.35	\$0.65	\$0.00	\$44.87
MACHINIST MARINE DRILLING MARINE DRILLING	1/1/2018	\$38.88	\$7.63	\$2.35	\$0.95	\$0.00	\$49.81
OILER - MARINE DRILLING MARINE DRILLING MARINE DRILLING	1/1/2018	\$34.24	\$7.63	\$2.35	\$0.65	\$0.00	\$44.87
TUG DECKHAND MARINE DRILLING MARINE DRILLING	1/1/2018	\$27.61	\$7.63	\$2.35	\$0.65	\$0.00	\$38.24
WELDER MARINE DRILLING MARINE DRILLING	1/1/2018	\$38.88	\$7.63	\$2.35	\$0.95	\$0.00	\$49.81

Op Eng Marine (Dredging Work)

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BOAT OPERATOR OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	\$29.26	\$7.63	\$2.35	\$0.95	\$0.00	\$40.19
CERTIFIED WELDER OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	\$31.09	\$7.63	\$2.35	\$1.25	\$0.00	\$42.32
CHIEF WELDER/ CHIEF MATE OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	\$33.02	\$7.63	\$2.35	\$1.25	\$0.00	\$44.25
DERRICK / SPIDER / SPILLBARGE OPERATOR OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	\$33.02	\$7.63	\$2.35	\$1.25	\$0.00	\$44.25
DRAG BARGE OPERATOR / WELDER / MATE OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	\$30.24	\$7.63	\$2.35	\$0.95	\$0.00	\$41.17
ENGINEER / ELECTRICIAN OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	\$33.02	\$7.63	\$2.35	\$1.25	\$0.00	\$44.25
LICENSED BOAT OPERATOR OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	\$33.02	\$7.63	\$2.35	\$1.25	\$0.00	\$44.25
LICENSED TUG OPERATOR OVER 1000HP OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	\$38.18	\$7.63	\$2.35	\$1.25	\$0.00	\$49.41
MAINTENANCE ENGINEER OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	\$33.03	\$7.63	\$2.35	\$1.25	\$0.00	\$44.26
OILER - MARINE DIVISION OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	\$24.30	\$7.63	\$2.35	\$0.65	\$0.00	\$34.93
OPERATOR / LEVERMAN OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	\$38.18	\$7.63	\$2.35	\$1.25	\$0.00	\$49.41
RODMAN / SCOWMAN OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	\$24.30	\$7.63	\$2.35	\$0.65	\$0.00	\$34.93
SHOREMAN / DECKHAND OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	\$24.30	\$7.63	\$2.35	\$0.65	\$0.00	\$34.93

Additional Apprentice Information

All apprentices must be registered with the Division of Apprenticeship Training(DAS) in accordance with M.G.L.c. 23, §§ 11E-11L. Minimum wage rates for apprentices employed on public works projects are listed above as a percentage of the hourly prevailing wage rate established by the Commissioner under the provisions of M.G.L.c. 149, §§ 26-27D.

Apprentice ratios are established by DAS pursuant to M.G.L.c. 23, §§ 11E-11L. Ratios are expressed as the allowable number of apprentices to journeymen or fraction thereof, unless otherwise specified. The ratios listed herein have been taken from relevant private collective bargaining agreements(CBAs) and are provided for illustrative purposes only. They have not been independently verified as being accurate or continuing to be accurate.

Parties having questions regarding what ratio to use should contact DAS.



**THE COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF LABOR AND WORKFORCE DEVELOPMENT
DEPARTMENT OF LABOR STANDARDS
Prevailing Wage Rates**

MAURA HEALEY
Governor

KIM DRISCOLL
Lt. Governor

As determined by the Director under the provisions of the
Massachusetts General Laws, Chapter 149, Sections 26 to 27H

LAUREN JONES
Secretary
MICHAEL FLANAGAN
Director

Awarding Authority:	Massachusetts Highway	City/Town:	WEST SPRINGFIELD
Wage Request No:	20260821104115-S2	Job Location:	on I-91
Description of Work:	HOLYOKE-WEST SPRINGFIELD – FAP No. NHP(IM)-0912(004)X Interstate Pavement Preservation and Related Work on I-91		
Contract Number:	136483		

§§ 26-27D Construction Project

This Prevailing Wage Schedule establishes the minimum wage rates that employees on this public works construction project must be paid. The project's Wage Request Number is listed above and on all pages of this Schedule. This schedule applies **only** to this specific project.

Awarding Authority Responsibilities

- You must include this Prevailing Wage Schedule (PWS) or an appropriate reference to it in all advertisements and calls for bids.
- The PWS must be incorporated in its entirety into all contracts for this project (G.L. c. 149, § 27).
- The wage rates on this PWS will remain in effect for the duration of the project. **Exception:** You must request an updated schedule for any multi-year construction project no later than 2 weeks before the project's yearly anniversary date.
 - For CM AT RISK projects, the anniversary date is the earlier of the signing date of: (a) the GMP Amendment; or (b) the first amendment to permit procurement of construction services.
 - For all other construction projects, the anniversary date is the date the contract was signed by the Awarding Authority and the General Contractor.
- You must also request an updated PWS if you have not opened bids or selected a contractor within 90 days of the date of issuance on this PWS.
 - For CM AT RISK projects, the earlier of (a) the signing date of the GMP Amendment; or (b) the bid for the first construction scope of work must be within 90 days of the date of issuance on this Schedule.
- You must provide any updated PWS to all contractors working on the project, including general and sub-contractors.
- You must keep the contractors' weekly certified payroll records and Statements of Compliance on file for **3 years**.
- Awarding authorities have other prevailing wage responsibilities not listed above. Learn more at: [\[Prevailing wage: for awarding authorities | Mass.gov\]](#) and G.L. c. 149, §§ 26-27D.

Contractor Responsibilities

- You must pay all employees who perform construction work on this project at least the wage rate listed on this PWS. **Warning!** If you do not follow this requirement, you can face civil fines, criminal charges, or private lawsuits.
- You must post this PWS at the worksite where it can be easily seen. (G.L. c. 149, § 27)
- You must file weekly payroll reports and a Statement of Compliance with the awarding authority (**not** DLS). You can file payroll reports by mail or email and must keep them on file for 3 years. Each weekly payroll report must include each employee's name, address, occupational classification(s), hours worked, and wages paid. Find a sample report at: mass.gov/dols/pw.
- You cannot pay any employees at the apprentice rates listed on this PWS unless they are registered with the Massachusetts Division of Apprentice Standards (DAS). Qualifying apprentices must be paid at the applicable step rate and must carry their apprentice ID card during all work hours on the project. Apprentices **not** registered with DAS must be paid at the listed journeyworker's rate, even if they are registered with a different federal/state public agency or private entity. For every week in which apprentice rates are paid, a copy of each apprentice's apprentice ID card issued by DAS shall be attached to the certified payroll records.
- If you don't know what classification or rate applies to the work being performed, you must ask DLS; paying the wrong rate subjects you to enforcement.
- Please contact DLS if you have any questions about the Prevailing Wage Schedule: (617) 626-6953 or DLS.Feedback@mass.gov

Employees who are **not** paid the wage listed on the Prevailing Wage Schedule (PWS) may file a complaint with the Attorney General's Fair Labor Division: www.mass.gov/ago/flid; (617) 727-3465.

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
(2 AXLE) DRIVER - EQUIPMENT	6/1/2026	\$41.95	\$16.17	\$21.78	\$0.00	\$0.00	\$79.90
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	\$41.95	\$16.17	\$23.52	\$0.00	\$0.00	\$81.64
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	\$41.95	\$16.77	\$23.52	\$0.00	\$0.00	\$82.24
(3 AXLE) DRIVER - EQUIPMENT	6/1/2026	\$42.02	\$16.17	\$21.78	\$0.00	\$0.00	\$79.97
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	\$42.02	\$16.17	\$23.52	\$0.00	\$0.00	\$81.71
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	\$42.02	\$16.77	\$23.52	\$0.00	\$0.00	\$82.31
(4 & 5 AXLE) DRIVER - EQUIPMENT	6/1/2026	\$42.14	\$16.17	\$21.78	\$0.00	\$0.00	\$80.09
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	\$42.14	\$16.17	\$23.52	\$0.00	\$0.00	\$81.83
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	\$42.14	\$16.77	\$23.52	\$0.00	\$0.00	\$82.43
ADS/SUBMERSIBLE PILOT	8/1/2024	\$117.16	\$10.08	\$11.62	\$12.67	\$0.00	\$151.53
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
For apprentice rates see "Apprentice- PILE DRIVER"							
AIR TRACK OPERATOR	6/1/2026	\$37.75	\$10.90	\$9.75	\$8.62	\$0.00	\$67.02
LABORERS	12/7/2026	\$39.05	\$10.90	\$9.75	\$8.62	\$0.00	\$68.32
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$40.45	\$10.90	\$9.75	\$8.62	\$0.00	\$69.72
	12/6/2027	\$41.85	\$10.90	\$9.75	\$8.62	\$0.00	\$71.12
	6/5/2028	\$43.35	\$10.90	\$9.75	\$8.62	\$0.00	\$72.62
	12/4/2028	\$44.85	\$10.90	\$9.75	\$8.62	\$0.00	\$74.12
For apprentice rates see "Apprentice- LABORER"							
AIR TRACK OPERATOR (HEAVY & HIGHWAY)	6/1/2026	\$37.74	\$10.90	\$9.75	\$6.60	\$0.00	\$64.99
LABORERS	12/1/2026	\$39.03	\$10.90	\$9.75	\$6.60	\$0.00	\$66.28
LABORERS - ZONE 3 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
ASBESTOS WORKER (PIPES & TANKS)	12/1/2025	\$40.32	\$14.50	\$4.30	\$6.25	\$0.00	\$65.37
HEAT & FROST INSULATORS LOCAL 6							
HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)							
ASPHALT RAKER	6/1/2026	\$37.25	\$10.90	\$9.75	\$8.62	\$0.00	\$66.52
LABORERS	12/7/2026	\$38.55	\$10.90	\$9.75	\$8.62	\$0.00	\$67.82
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$39.95	\$10.90	\$9.75	\$8.62	\$0.00	\$69.22
	12/6/2027	\$41.35	\$10.90	\$9.75	\$8.62	\$0.00	\$70.62
	6/5/2028	\$42.85	\$10.90	\$9.75	\$8.62	\$0.00	\$72.12
	12/4/2028	\$44.35	\$10.90	\$9.75	\$8.62	\$0.00	\$73.62
For apprentice rates see "Apprentice- LABORER"							
ASPHALT RAKER (HEAVY & HIGHWAY)	6/1/2026	\$37.24	\$10.90	\$9.75	\$6.60	\$0.00	\$64.49
LABORERS	12/1/2026	\$38.53	\$10.90	\$9.75	\$6.60	\$0.00	\$65.78
LABORERS - ZONE 3 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
AUTOMATIC GRADER-EXCAVATOR (RECLAIMER)	12/1/2023	\$39.56	\$13.78	\$12.15	\$3.00	\$0.00	\$68.49
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BACKHOE/FRONT-END LOADER OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	\$39.56	\$13.78	\$12.15	\$3.00	\$0.00	\$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
BARCO-TYPE JUMPING TAMPER LABORERS	6/1/2026	\$37.25	\$10.90	\$9.75	\$8.62	\$0.00	\$66.52
LABORERS - ZONE 3 (BUILDING & SITE)	12/7/2026	\$38.55	\$10.90	\$9.75	\$8.62	\$0.00	\$67.82
	6/7/2027	\$39.95	\$10.90	\$9.75	\$8.62	\$0.00	\$69.22
	12/6/2027	\$41.35	\$10.90	\$9.75	\$8.62	\$0.00	\$70.62
	6/5/2028	\$42.85	\$10.90	\$9.75	\$8.62	\$0.00	\$72.12
	12/4/2028	\$44.35	\$10.90	\$9.75	\$8.62	\$0.00	\$73.62
For apprentice rates see "Apprentice- LABORER"							
BATCH/CEMENT PLANT - ON SITE OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	\$39.03	\$13.78	\$12.15	\$3.00	\$0.00	\$67.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
BLOCK PAVER, RAMMER / CURB SETTER LABORERS	6/1/2026	\$37.75	\$10.90	\$9.75	\$8.62	\$0.00	\$67.02
LABORERS - ZONE 3 (BUILDING & SITE)	12/7/2026	\$39.05	\$10.90	\$9.75	\$8.62	\$0.00	\$68.32
	6/7/2027	\$40.45	\$10.90	\$9.75	\$8.62	\$0.00	\$69.72
	12/6/2027	\$41.85	\$10.90	\$9.75	\$8.62	\$0.00	\$71.12
	6/5/2028	\$43.35	\$10.90	\$9.75	\$8.62	\$0.00	\$72.62
	12/4/2028	\$44.85	\$10.90	\$9.75	\$8.62	\$0.00	\$74.12
For apprentice rates see "Apprentice- LABORER"							
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY) LABORERS	6/1/2026	\$37.74	\$10.90	\$9.75	\$6.60	\$0.00	\$64.99
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	12/1/2026	\$39.03	\$10.90	\$9.75	\$6.60	\$0.00	\$66.28
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
BOILER MAKER BOILERMAKERS LOCAL 29 BOILERMAKERS LOCAL 29	1/1/2024	\$48.12	\$7.07	\$14.60	\$6.00	\$0.00	\$75.79

Apprentice: BOILER MAKER							
Effective Date: 1/1/2024							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	65.00	\$31.28	\$7.07	\$9.32	\$3.90	\$0.00	\$51.57
2	65.00	\$31.28	\$7.07	\$9.32	\$3.90	\$0.00	\$51.57
3	70.00	\$33.68	\$7.07	\$10.03	\$4.20	\$0.00	\$54.98
4	75.00	\$36.09	\$7.07	\$10.74	\$4.50	\$0.00	\$58.40
5	80.00	\$38.50	\$7.07	\$11.45	\$4.80	\$0.00	\$61.82
6	85.00	\$40.90	\$7.07	\$12.18	\$5.10	\$0.00	\$65.25
7	90.00	\$43.31	\$7.07	\$12.88	\$5.40	\$0.00	\$68.66
8	95.00	\$45.71	\$7.07	\$13.62	\$5.70	\$0.00	\$72.10

Apprentice to Journeyworker Ratio: 1:4

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)	8/1/2026	\$58.56	\$12.84	\$15.57	\$5.89	\$0.00	\$92.86
BRICKLAYERS LOCAL 3	2/1/2027	\$59.96	\$12.84	\$15.57	\$5.89	\$0.00	\$94.26
BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)							

Apprentice: BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)**Effective Date: 8/1/2026**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$29.28	\$12.84	\$15.57	\$5.89	\$0.00	\$63.58
2	60.00	\$35.14	\$12.84	\$15.57	\$5.89	\$0.00	\$69.44
3	70.00	\$40.99	\$12.84	\$15.57	\$5.89	\$0.00	\$75.29
4	80.00	\$46.85	\$12.84	\$15.57	\$5.89	\$0.00	\$81.15
5	90.00	\$52.70	\$12.84	\$15.57	\$5.89	\$0.00	\$87.00

Apprentice: BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)**Effective Date: 2/1/2027**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$29.98	\$12.84	\$15.57	\$5.89	\$0.00	\$64.28
2	60.00	\$35.98	\$12.84	\$15.57	\$5.89	\$0.00	\$70.28
3	70.00	\$41.97	\$12.84	\$15.57	\$5.89	\$0.00	\$76.27
4	80.00	\$47.97	\$12.84	\$15.57	\$5.89	\$0.00	\$82.27
5	90.00	\$53.96	\$12.84	\$15.57	\$0.00	\$0.00	\$82.37

Apprentice to Journeyworker Ratio: 1:5

BULLDOZER/POWER SHOVEL/TREE SHREDDER /CLAM SHELL	12/1/2023	\$39.56	\$13.78	\$12.15	\$3.00	\$0.00	\$68.49
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							

CAISSON & UNDERPINNING BOTTOM MAN	6/1/2026	\$50.40	\$10.90	\$9.75	\$9.80	\$0.00	\$80.85
LABORERS	12/1/2026	\$51.90	\$10.90	\$9.75	\$9.80	\$0.00	\$82.35
LABORERS - FOUNDATION AND MARINE							
For apprentice rates see "Apprentice- LABORER"							

CAISSON & UNDERPINNING LABORER	6/1/2026	\$49.25	\$10.90	\$9.75	\$9.80	\$0.00	\$79.70
LABORERS	12/1/2026	\$50.75	\$10.90	\$9.75	\$9.80	\$0.00	\$81.20
LABORERS - FOUNDATION AND MARINE							
For apprentice rates see "Apprentice- LABORER"							

CAISSON & UNDERPINNING TOP MAN	6/1/2026	\$49.58	\$10.90	\$9.75	\$9.80	\$0.00	\$80.03
LABORERS	12/1/2026	\$51.08	\$10.90	\$9.75	\$9.80	\$0.00	\$81.53
LABORERS - FOUNDATION AND MARINE							
For apprentice rates see "Apprentice- LABORER"							

CARBIDE CORE DRILL OPERATOR	6/1/2026	\$37.25	\$10.90	\$9.75	\$8.62	\$0.00	\$66.52
LABORERS	12/7/2026	\$38.55	\$10.90	\$9.75	\$8.62	\$0.00	\$67.82
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$39.95	\$10.90	\$9.75	\$8.62	\$0.00	\$69.22

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	12/6/2027	\$41.35	\$10.90	\$9.75	\$8.62	\$0.00	\$70.62
	6/5/2028	\$42.85	\$10.90	\$9.75	\$8.62	\$0.00	\$72.12
	12/4/2028	\$44.35	\$10.90	\$9.75	\$8.62	\$0.00	\$73.62

For apprentice rates see "Apprentice- LABORER"

CARPENTER	3/1/2026	\$43.81	\$9.19	\$11.25	\$6.90	\$0.00	\$71.15
CARPENTERS	9/1/2026	\$44.76	\$9.19	\$11.25	\$6.90	\$0.00	\$72.10
CARPENTERS LOCAL 336 - HAMPDEN HAMPSHIRE FRANKLIN	3/1/2027	\$45.66	\$9.19	\$11.25	\$6.90	\$0.00	\$73.00

Apprentice: CARPENTER**Effective Date: 3/1/2026**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$19.71	\$9.19	\$0.00	\$1.38	\$0.00	\$30.28
2	45.00	\$19.71	\$1.28	\$0.00	\$1.38	\$0.00	\$22.37
3	55.00	\$24.10	\$9.19	\$0.00	\$2.76	\$0.00	\$36.05
4	55.00	\$24.10	\$9.19	\$0.00	\$2.76	\$0.00	\$36.05
5	70.00	\$30.67	\$9.19	\$11.25	\$4.14	\$0.00	\$55.25
6	70.00	\$30.67	\$9.19	\$11.25	\$4.14	\$0.00	\$55.25
7	80.00	\$35.05	\$9.19	\$11.25	\$5.52	\$0.00	\$61.01
8	80.00	\$35.05	\$9.19	\$11.25	\$5.52	\$0.00	\$61.01

Apprentice: CARPENTER**Effective Date: 9/1/2026**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$20.14	\$9.19	\$0.00	\$1.38	\$0.00	\$30.71
2	45.00	\$20.14	\$9.19	\$0.00	\$1.38	\$0.00	\$30.71
3	55.00	\$24.62	\$9.19	\$0.00	\$2.76	\$0.00	\$36.57
4	55.00	\$24.62	\$9.19	\$0.00	\$2.76	\$0.00	\$36.57
5	70.00	\$31.33	\$9.19	\$11.25	\$4.14	\$0.00	\$55.91
6	70.00	\$31.33	\$9.19	\$11.25	\$4.14	\$0.00	\$55.91
7	80.00	\$35.81	\$9.19	\$11.25	\$5.52	\$0.00	\$61.77
8	80.00	\$35.81	\$9.19	\$11.25	\$5.52	\$0.00	\$61.77

Apprentice to Journeyworker Ratio: 1:5

CARPENTER WOOD FRAME	10/1/2025	\$27.37	\$7.38	\$4.47	\$1.00	\$0.00	\$40.22
CARPENTERS	10/1/2026	\$28.47	\$7.38	\$4.47	\$1.00	\$0.00	\$41.32

All Aspects of New Wood Frame Work

Apprentice: CARPENTER WOOD FRAME**Effective Date: 10/1/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$16.42	\$7.38	\$0.00	\$0.00	\$0.00	\$23.80

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: CARPENTER WOOD FRAME							
Effective Date: 10/1/2025							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
2	60.00	\$16.42	\$7.38	\$0.00	\$0.00	\$0.00	\$23.80
3	65.00	\$17.79	\$7.38	\$0.00	\$1.00	\$0.00	\$26.17
4	70.00	\$19.16	\$7.38	\$0.00	\$1.00	\$0.00	\$27.54
5	75.00	\$20.53	\$7.38	\$3.80	\$1.00	\$0.00	\$32.71
6	80.00	\$21.90	\$7.38	\$3.80	\$1.00	\$0.00	\$34.08
7	85.00	\$23.26	\$7.38	\$3.80	\$1.00	\$0.00	\$35.44
8	90.00	\$24.63	\$7.38	\$3.80	\$1.00	\$0.00	\$36.81

Apprentice: CARPENTER WOOD FRAME							
Effective Date: 10/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$17.08	\$7.38	\$0.00	\$0.00	\$0.00	\$24.46
2	60.00	\$17.08	\$7.38	\$0.00	\$0.00	\$0.00	\$24.46
3	65.00	\$18.51	\$7.38	\$0.00	\$1.00	\$0.00	\$26.89
4	70.00	\$19.93	\$7.38	\$0.00	\$1.00	\$0.00	\$28.31
5	75.00	\$21.35	\$7.38	\$3.80	\$1.00	\$0.00	\$33.53
6	80.00	\$22.78	\$7.38	\$3.80	\$1.00	\$0.00	\$34.96
7	85.00	\$24.20	\$7.38	\$3.80	\$1.00	\$0.00	\$36.38
8	90.00	\$25.62	\$7.38	\$3.80	\$1.00	\$0.00	\$37.80

Apprentice to Journeyworker Ratio: 1:5

CEMENT MASONRY/PLASTERING	7/1/2026	\$49.32	\$13.20	\$16.30	\$2.93	\$1.69	\$83.44
PLASTERERS AND CEMENT MASONS LOCAL 534	1/1/2027	\$50.51	\$13.20	\$16.30	\$2.93	\$1.69	\$84.63
Plasterers and Cement Masons - Zone 2	7/1/2027	\$51.70	\$13.20	\$16.30	\$2.93	\$1.69	\$85.82
	1/1/2028	\$52.89	\$13.20	\$16.30	\$2.93	\$1.69	\$87.01

Apprentice: CEMENT MASONRY/PLASTERING							
Effective Date: 7/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$24.66	\$13.20	\$16.30	\$0.00	\$0.00	\$54.16
2	60.00	\$29.59	\$13.20	\$16.30	\$2.93	\$1.69	\$63.71
3	65.00	\$32.06	\$13.20	\$16.30	\$2.93	\$1.69	\$66.18
4	70.00	\$34.52	\$13.20	\$16.30	\$2.93	\$1.69	\$68.64
5	75.00	\$36.99	\$13.20	\$16.30	\$2.93	\$1.69	\$71.11
6	80.00	\$39.46	\$13.20	\$16.30	\$2.93	\$1.69	\$73.58
7	90.00	\$44.39	\$13.20	\$16.30	\$2.93	\$0.00	\$76.82

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: CEMENT MASONRY/PLASTERING							
Effective Date: 1/1/2027							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$25.26	\$16.30	\$16.30	\$0.00	\$0.00	\$57.86
2	60.00	\$30.31	\$16.30	\$16.30	\$2.93	\$1.69	\$67.53
3	65.00	\$32.83	\$16.30	\$16.30	\$2.93	\$1.69	\$70.05
4	70.00	\$35.36	\$16.30	\$16.30	\$2.93	\$1.69	\$72.58
5	75.00	\$37.88	\$16.30	\$16.30	\$2.93	\$1.69	\$75.10
6	80.00	\$40.41	\$16.30	\$16.30	\$2.93	\$1.69	\$77.63
7	90.00	\$45.46	\$16.30	\$16.30	\$2.93	\$0.00	\$80.99

Apprentice to Journeyworker Ratio: 1:5

CHAIN SAW OPERATOR	6/1/2026	\$37.25	\$10.90	\$9.75	\$8.62	\$0.00	\$66.52
LABORERS	12/7/2026	\$38.55	\$10.90	\$9.75	\$8.62	\$0.00	\$67.82
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$39.95	\$10.90	\$9.75	\$8.62	\$0.00	\$69.22
	12/6/2027	\$41.35	\$10.90	\$9.75	\$8.62	\$0.00	\$70.62
	6/5/2028	\$42.85	\$10.90	\$9.75	\$8.62	\$0.00	\$72.12
	12/4/2028	\$44.35	\$10.90	\$9.75	\$8.62	\$0.00	\$73.62

For apprentice rates see "Apprentice- LABORER"

COMPRESSOR OPERATOR	12/1/2023	\$39.03	\$13.78	\$12.15	\$3.00	\$0.00	\$67.96
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

CRANE OPERATOR	12/1/2023	\$43.06	\$13.78	\$12.15	\$3.00	\$0.00	\$71.99
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

DELEADER (BRIDGE)	1/1/2026	\$59.56	\$10.35	\$12.00	\$12.60	\$0.00	\$94.51
PAINTERS LOCAL 35							
PAINTERS LOCAL 35 - ZONE 3							

Apprentice: DELEADER (BRIDGE)							
Effective Date: 1/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$29.78	\$10.35	\$0.00	\$0.00	\$0.00	\$40.13
2	55.00	\$32.76	\$10.35	\$0.00	\$6.93	\$0.00	\$50.04
3	60.00	\$35.74	\$10.35	\$0.00	\$7.56	\$0.00	\$53.65
4	65.00	\$38.71	\$10.35	\$0.00	\$8.19	\$0.00	\$57.25
5	70.00	\$41.69	\$10.35	\$12.00	\$8.82	\$0.00	\$72.86
6	75.00	\$44.67	\$10.35	\$12.00	\$9.45	\$0.00	\$76.47
7	80.00	\$47.65	\$10.35	\$12.00	\$10.08	\$0.00	\$80.08
8	90.00	\$53.60	\$10.35	\$12.00	\$11.34	\$0.00	\$87.29

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice to Journeyworker Ratio: 1:1							
DEMO: ADZEMAN	6/1/2026	\$49.30	\$10.90	\$9.75	\$9.65	\$0.00	\$79.60
LABORERS	12/7/2026	\$50.80	\$10.90	\$9.75	\$9.65	\$0.00	\$81.10
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$52.40	\$10.90	\$9.75	\$9.65	\$0.00	\$82.70
	12/6/2027	\$54.00	\$10.90	\$9.75	\$9.65	\$0.00	\$84.30
	6/5/2028	\$55.68	\$10.90	\$9.75	\$9.65	\$0.00	\$85.98
	12/4/2028	\$57.35	\$10.90	\$9.75	\$9.65	\$0.00	\$87.65
For apprentice rates see "Apprentice- LABORER"							
DEMO: BACKHOE/LOADER/HAMMER OPERATOR	6/1/2026	\$50.30	\$10.90	\$9.75	\$9.65	\$0.00	\$80.60
LABORERS	12/7/2026	\$51.80	\$10.90	\$9.75	\$9.65	\$0.00	\$82.10
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$53.40	\$10.90	\$9.75	\$9.65	\$0.00	\$83.70
	12/6/2027	\$55.00	\$10.90	\$9.75	\$9.65	\$0.00	\$85.30
	6/5/2028	\$56.68	\$10.90	\$9.75	\$9.65	\$0.00	\$86.98
	12/4/2028	\$58.35	\$10.90	\$9.75	\$9.65	\$0.00	\$88.65
For apprentice rates see "Apprentice- LABORER"							
DEMO: BURNERS	6/1/2026	\$50.05	\$10.90	\$9.75	\$9.65	\$0.00	\$80.35
LABORERS	12/7/2026	\$51.55	\$10.90	\$9.75	\$9.65	\$0.00	\$81.85
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$53.15	\$10.90	\$9.75	\$9.65	\$0.00	\$83.45
	12/6/2027	\$54.75	\$10.90	\$9.75	\$9.65	\$0.00	\$85.05
	6/5/2028	\$56.43	\$10.90	\$9.75	\$9.65	\$0.00	\$86.73
	12/4/2028	\$58.10	\$10.90	\$9.75	\$9.65	\$0.00	\$88.40
For apprentice rates see "Apprentice- LABORER"							
DEMO: CONCRETE CUTTER/SAWYER	6/1/2026	\$50.30	\$10.90	\$9.75	\$9.65	\$0.00	\$80.60
LABORERS	12/7/2026	\$51.80	\$10.90	\$9.75	\$9.65	\$0.00	\$82.10
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$53.40	\$10.90	\$9.75	\$9.65	\$0.00	\$83.70
	12/6/2027	\$55.00	\$10.90	\$9.75	\$9.65	\$0.00	\$85.30
	6/5/2028	\$56.68	\$10.90	\$9.75	\$9.65	\$0.00	\$86.98
	12/4/2028	\$58.35	\$10.90	\$9.75	\$9.65	\$0.00	\$88.65
For apprentice rates see "Apprentice- LABORER"							
DEMO: JACKHAMMER OPERATOR	6/1/2026	\$50.05	\$10.90	\$9.75	\$9.65	\$0.00	\$80.35
LABORERS	12/7/2026	\$51.55	\$10.90	\$9.75	\$9.65	\$0.00	\$81.85
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$53.15	\$10.90	\$9.75	\$9.65	\$0.00	\$83.45
	12/6/2027	\$54.75	\$10.90	\$9.75	\$9.65	\$0.00	\$85.05
	6/5/2028	\$56.43	\$10.90	\$9.75	\$9.65	\$0.00	\$86.73
	12/4/2028	\$58.10	\$10.90	\$9.75	\$9.65	\$0.00	\$88.40
For apprentice rates see "Apprentice- LABORER"							
DEMO: WRECKING LABORER	6/1/2026	\$49.30	\$10.90	\$9.75	\$9.65	\$0.00	\$79.60
LABORERS	12/7/2026	\$50.80	\$10.90	\$9.75	\$9.65	\$0.00	\$81.10
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$52.40	\$10.90	\$9.75	\$9.65	\$0.00	\$82.70
	12/6/2027	\$54.00	\$10.90	\$9.75	\$9.65	\$0.00	\$84.30
	6/5/2028	\$55.68	\$10.90	\$9.75	\$9.65	\$0.00	\$85.98
	12/4/2028	\$57.35	\$10.90	\$9.75	\$9.65	\$0.00	\$87.65
For apprentice rates see "Apprentice- LABORER"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
DIVER	8/1/2024	\$78.11	\$10.08	\$11.62	\$12.67	\$0.00	\$112.48
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
as of 8-1-24, Apprentices with diving licenses begin at second year. % of Diver wage 70/80/90 2A \$69.83, 3A \$91.79,4A \$102.14 Total Rate							
DIVER TENDER	8/1/2024	\$49.19	\$10.08	\$11.62	\$12.67	\$0.00	\$83.56
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
as of 8-1-24, Apprentices with diving licenses begin at second year. % of Piledriver wage 70/80/90 2A \$54.20, 3A \$73.93,4A \$82.05 Total Rate							
DIVER TENDER (EFFLUENT)	8/1/2024	\$83.69	\$10.08	\$11.62	\$12.67	\$0.00	\$118.06
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
For apprentice rates see "Apprentice- PILE DRIVER"							
DIVER/SLURRY (EFFLUENT)	8/1/2024	\$117.16	\$10.08	\$11.62	\$12.67	\$0.00	\$151.53
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
For apprentice rates see "Apprentice- PILE DRIVER"							
DRAWBRIDGE OPERATOR (Construction)	7/1/2020	\$26.77	\$6.67	\$3.93	\$0.00	\$0.16	\$37.53
DRAWBRIDGE - SEIU LOCAL 888							
DRAWBRIDGE - SEIU LOCAL 888							
ELECTRICIAN (Including Core Drilling)	6/28/2026	\$54.41	\$14.00	\$8.43	\$7.03	\$0.00	\$83.87
ELECTRICIANS LOCAL 7	1/3/2027	\$55.56	\$14.25	\$8.47	\$7.09	\$0.00	\$85.37
ELECTRICIANS LOCAL 7							

Apprentice: ELECTRICIAN (Including Core Drilling)							
Effective Date: 6/28/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	\$21.76	\$7.80	\$0.63	\$0.00	\$0.00	\$30.19
2	45.00	\$24.48	\$7.80	\$0.70	\$0.00	\$0.00	\$32.98
3	50.00	\$27.21	\$14.00	\$7.53	\$0.00	\$0.00	\$48.74
4	55.00	\$29.93	\$14.00	\$7.61	\$0.00	\$0.00	\$51.54
5	65.00	\$35.37	\$14.00	\$9.84	\$0.00	\$0.00	\$59.21
6	70.00	\$38.09	\$14.00	\$11.30	\$0.00	\$0.00	\$63.39

Apprentice: ELECTRICIAN (Including Core Drilling)							
Effective Date: 1/3/2027							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	\$22.22	\$7.95	\$0.63	\$0.00	\$0.00	\$30.80
2	45.00	\$25.00	\$7.95	\$0.70	\$0.00	\$0.00	\$33.65
3	50.00	\$27.78	\$14.25	\$7.53	\$0.00	\$0.00	\$49.56
4	55.00	\$30.56	\$14.25	\$7.61	\$0.00	\$0.00	\$52.42
5	65.00	\$36.11	\$14.25	\$9.84	\$0.00	\$0.00	\$60.20
6	70.00	\$38.89	\$14.25	\$11.30	\$0.00	\$0.00	\$64.44

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice to Journeyworker Ratio: 2:3							
ELEVATOR CONSTRUCTOR	1/1/2026	\$69.23	\$16.38	\$11.06	\$10.70	\$0.00	\$107.37
ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2027	\$72.23	\$16.48	\$11.16	\$11.00	\$0.00	\$110.87
ELEVATOR CONSTRUCTORS LOCAL 41							

Apprentice: ELEVATOR CONSTRUCTOR**Effective Date: 1/1/2026**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$34.62	\$16.38	\$0.00	\$0.00	\$0.00	\$51.00
2	55.00	\$38.08	\$16.38	\$11.06	\$10.70	\$0.00	\$76.22
3	65.00	\$45.00	\$16.38	\$11.06	\$10.70	\$0.00	\$83.14
4	70.00	\$48.46	\$16.38	\$11.06	\$10.70	\$0.00	\$86.60
5	80.00	\$55.38	\$16.38	\$11.06	\$10.70	\$0.00	\$93.52

Apprentice: ELEVATOR CONSTRUCTOR**Effective Date: 1/1/2027**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$36.12	\$16.48	\$0.00	\$0.00	\$0.00	\$52.60
2	55.00	\$39.73	\$16.48	\$11.16	\$11.00	\$0.00	\$78.37
3	65.00	\$46.95	\$16.48	\$11.16	\$11.00	\$0.00	\$85.59
4	70.00	\$50.56	\$16.48	\$11.16	\$11.00	\$0.00	\$89.20
5	80.00	\$57.78	\$16.48	\$11.16	\$11.00	\$0.00	\$96.42

Apprentice to Journeyworker Ratio: 1:1

ELEVATOR CONSTRUCTOR HELPER	1/1/2026	\$48.46	\$16.38	\$11.06	\$10.70	\$0.00	\$86.60
ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2027	\$50.56	\$16.48	\$11.16	\$11.00	\$0.00	\$89.20
ELEVATOR CONSTRUCTORS LOCAL 41							

For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"

FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY)	6/1/2026	\$37.24	\$10.90	\$9.75	\$6.60	\$0.00	\$64.49
LABORERS	12/1/2026	\$38.53	\$10.90	\$9.75	\$6.60	\$0.00	\$65.78
LABORERS - ZONE 3 (HEAVY & HIGHWAY)							

For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"

FIELD ENG.INST/ROD-BLDG,SITE,HVY/HWY	6/1/1999	\$18.84	\$4.80	\$4.10	\$0.00	\$0.00	\$27.74
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							

FIELD ENG.PARTY CHIEF:BLDG,SITE,HVY/HWY	6/1/1999	\$21.33	\$4.80	\$4.10	\$0.00	\$0.00	\$30.23
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							

FIELD ENG.SURVEY CHIEF-BLDG,SITE,HVY/HWY	6/1/1999	\$22.33	\$4.80	\$4.10	\$0.00	\$0.00	\$31.23
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
FIRE ALARM INSTALLER	6/28/2026	\$54.41	\$14.00	\$8.43	\$7.03	\$0.00	\$83.87
ELECTRICIANS LOCAL 7	1/3/2027	\$55.56	\$14.25	\$8.47	\$7.09	\$0.00	\$85.37
ELECTRICIANS LOCAL 7							

For apprentice rates see "Apprentice- ELECTRICIAN"

FIRE ALARM REPAIR / MAINTENANCE	6/28/2026	\$54.41	\$14.00	\$8.43	\$7.03	\$0.00	\$83.87
/ COMMISSIONING	1/3/2027	\$55.56	\$14.25	\$8.47	\$7.09	\$0.00	\$85.37
ELECTRICIANS LOCAL 7							
ELECTRICIANS LOCAL 7							

For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"

FIREMAN	12/1/2023	\$39.03	\$13.78	\$12.15	\$3.00	\$0.00	\$67.96
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							

Apprentice: FIREMAN

Effective Date: 12/1/2023

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$23.42	\$13.78	\$12.15	\$3.00	\$0.00	\$52.35
2	70.00	\$27.32	\$13.78	\$12.15	\$3.00	\$0.00	\$56.25
3	80.00	\$31.22	\$13.78	\$12.15	\$3.00	\$0.00	\$60.15
4	90.00	\$35.13	\$13.78	\$12.15	\$3.00	\$0.00	\$64.06

Apprentice to Journeyworker Ratio: 1:6

FLAGGER & SIGNALER (HEAVY & HIGHWAY)	6/1/2026	\$29.21	\$10.90	\$9.75	\$6.60	\$0.00	\$56.46
LABORERS	12/1/2026	\$29.21	\$10.90	\$9.75	\$6.60	\$0.00	\$56.46
LABORERS - ZONE 3 (HEAVY & HIGHWAY)							

For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"

FLOORCOVERER	3/1/2026	\$44.34	\$8.56	\$11.25	\$6.90	\$0.00	\$71.05
FLOORCOVERERS LOCAL 2168	9/1/2026	\$45.29	\$8.56	\$11.25	\$6.90	\$0.00	\$72.00
FLOORCOVERERS LOCAL 2168 ZONE III	3/1/2027	\$46.19	\$8.56	\$11.25	\$6.90	\$0.00	\$72.90

Apprentice: FLOORCOVERER

Effective Date: 3/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$19.95	\$8.56	\$0.00	\$1.38	\$0.00	\$29.89
2	45.00	\$19.95	\$8.56	\$0.00	\$1.38	\$0.00	\$29.89
3	55.00	\$24.39	\$8.56	\$0.00	\$2.76	\$0.00	\$35.71
4	55.00	\$24.39	\$8.56	\$0.00	\$2.76	\$0.00	\$35.71
5	70.00	\$31.04	\$8.56	\$11.25	\$4.14	\$0.00	\$54.99
6	70.00	\$31.04	\$8.56	\$11.25	\$4.14	\$0.00	\$54.99
7	80.00	\$35.47	\$8.56	\$11.25	\$5.52	\$0.00	\$60.80
8	80.00	\$35.47	\$8.56	\$11.25	\$5.52	\$0.00	\$60.80

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: FLOORCOVERER							
Effective Date: 9/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$20.38	\$8.56	\$0.00	\$1.38	\$0.00	\$30.32
2	45.00	\$20.38	\$8.56	\$0.00	\$1.38	\$0.00	\$30.32
3	55.00	\$24.91	\$8.56	\$0.00	\$2.76	\$0.00	\$36.23
4	55.00	\$24.91	\$8.56	\$0.00	\$2.76	\$0.00	\$36.23
5	70.00	\$31.70	\$8.56	\$11.25	\$4.14	\$0.00	\$55.65
6	70.00	\$31.70	\$8.56	\$11.25	\$4.14	\$0.00	\$55.65
7	80.00	\$36.23	\$8.56	\$11.25	\$5.52	\$0.00	\$61.56
8	80.00	\$36.23	\$8.56	\$11.25	\$5.52	\$0.00	\$61.56

Apprentice Notes

Steps are 750 hrs.

Apprentice to Journeyworker Ratio: 1:1

FORK LIFT OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	\$39.25	\$13.78	\$12.15	\$3.00	\$0.00	\$68.18
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For apprentice rates see "Apprentice- OPERATING ENGINEERS"

GENERATORS/LIGHTING PLANTS OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	\$35.80	\$13.78	\$12.15	\$3.00	\$0.00	\$64.73
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For apprentice rates see "Apprentice- OPERATING ENGINEERS"

GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)	6/1/2026	\$44.73	\$11.20	\$8.40	\$6.05	\$0.00	\$70.38
GLAZIERS LOCAL 1333	6/1/2027	\$46.73	\$11.60	\$8.55	\$6.60	\$0.00	\$73.48
GLAZIERS LOCAL 1333	6/1/2028	\$48.73	\$12.00	\$8.70	\$7.20	\$0.00	\$76.63

Apprentice: GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)							
Effective Date: 6/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$22.37	\$11.20	\$8.40	\$6.05	\$0.00	\$48.02
2	56.25	\$25.16	\$11.20	\$8.40	\$6.05	\$0.00	\$50.81
3	62.50	\$27.96	\$11.20	\$8.40	\$6.05	\$0.00	\$53.61
4	68.75	\$30.75	\$11.20	\$8.40	\$6.05	\$0.00	\$56.40
5	75.00	\$33.55	\$11.20	\$8.40	\$6.05	\$0.00	\$59.20
6	81.25	\$36.34	\$11.20	\$8.40	\$6.05	\$0.00	\$61.99
7	87.50	\$39.14	\$11.20	\$8.40	\$6.05	\$0.00	\$64.79
8	93.75	\$41.93	\$11.20	\$8.40	\$6.05	\$0.00	\$67.58

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS) Effective Date: 6/1/2027							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$23.37	\$11.60	\$8.55	\$6.60	\$0.00	\$50.12
2	56.25	\$26.29	\$11.60	\$8.55	\$6.60	\$0.00	\$53.04
3	62.50	\$29.21	\$11.60	\$8.55	\$6.60	\$0.00	\$55.96
4	68.75	\$32.13	\$11.60	\$8.55	\$6.60	\$0.00	\$58.88
5	75.00	\$35.05	\$11.60	\$8.55	\$6.60	\$0.00	\$61.80
6	81.25	\$37.97	\$11.60	\$8.55	\$6.60	\$0.00	\$64.72
7	87.50	\$40.89	\$11.60	\$8.55	\$6.60	\$0.00	\$67.64
8	93.75	\$43.81	\$11.60	\$8.55	\$6.60	\$0.00	\$70.56
Apprentice to Journeyworker Ratio: 3:1							
GRADER/TRENCHING MACHINE/DERRICK OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	\$39.56	\$13.78	\$12.15	\$3.00	\$0.00	\$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
HVAC (DUCTWORK) SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63	7/1/2026	\$43.48	\$13.24	\$11.01	\$9.92	\$2.13	\$79.78
	1/1/2027	\$43.48	\$13.54	\$11.01	\$11.12	\$2.13	\$81.28
	7/1/2027	\$44.98	\$13.54	\$11.01	\$11.12	\$2.13	\$82.78
	1/1/2028	\$46.48	\$13.54	\$11.01	\$11.12	\$2.13	\$84.28
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (ELECTRICAL CONTROLS) ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	\$54.41	\$14.00	\$8.43	\$7.03	\$0.00	\$83.87
	1/3/2027	\$55.56	\$14.25	\$8.47	\$7.09	\$0.00	\$85.37
For apprentice rates see "Apprentice- ELECTRICIAN"							
HVAC (TESTING AND BALANCING - AIR) SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63	7/1/2026	\$43.48	\$13.24	\$11.01	\$9.92	\$2.13	\$79.78
	1/1/2027	\$43.48	\$13.54	\$11.01	\$11.12	\$2.13	\$81.28
	7/1/2027	\$44.98	\$13.54	\$11.01	\$11.12	\$2.13	\$82.78
	1/1/2028	\$46.48	\$13.54	\$11.01	\$11.12	\$2.13	\$84.28
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (TESTING AND BALANCING -WATER) PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	\$52.76	\$13.50	\$10.85	\$7.10	\$0.00	\$84.21
	9/17/2026	\$54.76	\$13.50	\$10.85	\$7.10	\$0.00	\$86.21
	3/17/2027	\$58.26	\$12.00	\$10.85	\$7.10	\$0.00	\$88.21
	9/17/2027	\$60.26	\$12.00	\$10.85	\$7.10	\$0.00	\$90.21
	3/17/2028	\$62.26	\$12.00	\$10.85	\$7.10	\$0.00	\$92.21
	9/17/2028	\$64.26	\$12.00	\$10.85	\$7.10	\$0.00	\$94.21
	3/17/2029	\$66.26	\$12.00	\$10.85	\$7.10	\$0.00	\$96.21
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
HVAC MECHANIC PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	\$52.76	\$13.50	\$10.85	\$7.10	\$0.00	\$84.21
	9/17/2026	\$54.76	\$13.50	\$10.85	\$7.10	\$0.00	\$86.21
	3/17/2027	\$58.26	\$12.00	\$10.85	\$7.10	\$0.00	\$88.21

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	9/17/2027	\$60.26	\$12.00	\$10.85	\$7.10	\$0.00	\$90.21
	3/17/2028	\$62.26	\$12.00	\$10.85	\$7.10	\$0.00	\$92.21
	9/17/2028	\$64.26	\$12.00	\$10.85	\$7.10	\$0.00	\$94.21
	3/17/2029	\$66.26	\$12.00	\$10.85	\$7.10	\$0.00	\$96.21

For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"

HYDRAULIC DRILLS (HEAVY & HIGHWAY)	6/1/2026	\$37.74	\$10.90	\$9.75	\$6.60	\$0.00	\$64.99
LABORERS	12/1/2026	\$39.03	\$10.90	\$9.75	\$6.60	\$0.00	\$66.28
LABORERS - ZONE 3 (HEAVY & HIGHWAY)							

For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"

INSULATOR (PIPES & TANKS)	9/1/2025	\$48.27	\$14.75	\$9.52	\$10.09	\$0.00	\$82.63
HEAT & FROST INSULATORS LOCAL 6	9/1/2026	\$51.01	\$14.75	\$9.52	\$10.09	\$0.00	\$85.37
HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)							

Apprentice: INSULATOR (PIPES & TANKS)

Effective Date: 9/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$24.14	\$14.75	\$9.27	\$5.05	\$0.00	\$53.21
2	60.00	\$28.96	\$14.75	\$9.32	\$6.05	\$0.00	\$59.08
3	70.00	\$33.79	\$14.75	\$9.37	\$7.06	\$0.00	\$64.97
4	80.00	\$38.62	\$14.75	\$9.42	\$8.07	\$0.00	\$70.86

Apprentice: INSULATOR (PIPES & TANKS)

Effective Date: 9/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$25.51	\$14.75	\$9.27	\$5.05	\$0.00	\$54.58
2	60.00	\$30.61	\$14.75	\$9.32	\$6.05	\$0.00	\$60.73
3	70.00	\$35.71	\$14.75	\$9.37	\$7.06	\$0.00	\$66.89
4	80.00	\$40.81	\$14.75	\$9.42	\$8.07	\$0.00	\$73.05

Apprentice to Journeyworker Ratio: 1:4

IRONWORKER/WELDER	3/16/2026	\$42.46	\$9.25	\$12.75	\$11.25	\$0.00	\$75.71
IRONWORKERS LOCAL 7							
IRONWORKERS LOCAL 7 (SPRINGFIELD AREA)							

Apprentice: IRONWORKER/WELDER

Effective Date: 3/16/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	70.00	\$29.72	\$9.25	\$12.75	\$1.25	\$0.00	\$52.97
2	80.00	\$33.97	\$9.25	\$12.75	\$1.25	\$0.00	\$57.22
3	90.00	\$38.21	\$9.25	\$12.75	\$1.25	\$0.00	\$61.46
4	0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
5	0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: IRONWORKER/WELDER Effective Date: 3/16/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
6	0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Apprentice to Journeyworker Ratio: 1:4							
JACKHAMMER & PAVING BREAKER OPERATOR	6/1/2026	\$37.25	\$10.90	\$9.75	\$8.62	\$0.00	\$66.52
LABORERS	12/7/2026	\$38.55	\$10.90	\$9.75	\$8.62	\$0.00	\$67.82
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$39.95	\$10.90	\$9.75	\$8.62	\$0.00	\$69.22
	12/6/2027	\$41.35	\$10.90	\$9.75	\$8.62	\$0.00	\$70.62
	6/5/2028	\$42.85	\$10.90	\$9.75	\$8.62	\$0.00	\$72.12
	12/4/2028	\$44.35	\$10.90	\$9.75	\$8.62	\$0.00	\$73.62
For apprentice rates see "Apprentice- LABORER"							
LABORER	6/1/2026	\$37.00	\$10.90	\$9.75	\$8.62	\$0.00	\$66.27
LABORERS	12/7/2026	\$38.30	\$10.90	\$9.75	\$8.62	\$0.00	\$67.57
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$39.70	\$10.90	\$9.75	\$8.62	\$0.00	\$68.97
	12/6/2027	\$41.10	\$10.90	\$9.75	\$8.62	\$0.00	\$70.37
	6/5/2028	\$42.60	\$10.90	\$9.75	\$8.62	\$0.00	\$71.87
	12/4/2028	\$44.10	\$10.90	\$9.75	\$8.62	\$0.00	\$73.37
Apprentice: LABORER Effective Date: 6/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$22.20	\$10.90	\$9.75	\$8.62	\$0.00	\$51.47
2	70.00	\$25.90	\$10.90	\$9.75	\$8.62	\$0.00	\$55.17
3	80.00	\$29.60	\$10.90	\$9.75	\$8.62	\$0.00	\$58.87
4	90.00	\$33.30	\$10.90	\$9.75	\$8.62	\$0.00	\$62.57
Apprentice: LABORER Effective Date: 12/7/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$22.98	\$10.90	\$9.75	\$8.62	\$0.00	\$52.25
2	70.00	\$26.81	\$10.90	\$9.75	\$8.62	\$0.00	\$56.08
3	80.00	\$30.64	\$10.90	\$9.75	\$8.62	\$0.00	\$59.91
4	90.00	\$34.47	\$10.90	\$9.75	\$8.62	\$0.00	\$63.74
Apprentice to Journeyworker Ratio: 1:5							
LABORER (HEAVY & HIGHWAY)	6/1/2026	\$36.99	\$10.90	\$9.75	\$6.60	\$0.00	\$64.24
LABORERS	12/1/2026	\$38.28	\$10.90	\$9.75	\$6.60	\$0.00	\$65.53
LABORERS - ZONE 3 (HEAVY & HIGHWAY)							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: LABORER (HEAVY & HIGHWAY) Effective Date: 6/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$22.19	\$10.90	\$9.75	\$6.60	\$0.00	\$49.44
2	70.00	\$25.89	\$10.90	\$9.75	\$6.60	\$0.00	\$53.14
3	80.00	\$29.59	\$10.90	\$9.75	\$6.60	\$0.00	\$56.84
4	90.00	\$33.29	\$10.90	\$9.75	\$6.60	\$0.00	\$60.54
Apprentice: LABORER (HEAVY & HIGHWAY) Effective Date: 12/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$22.97	\$10.90	\$9.75	\$6.60	\$0.00	\$50.22
2	70.00	\$26.80	\$10.90	\$9.75	\$6.60	\$0.00	\$54.05
3	80.00	\$30.62	\$10.90	\$9.75	\$6.60	\$0.00	\$57.87
4	90.00	\$34.45	\$10.90	\$9.75	\$6.60	\$0.00	\$61.70
Apprentice to Journeyworker Ratio: 1:5							
LABORER: CARPENTER TENDER	6/1/2026	\$37.00	\$10.90	\$9.75	\$8.62	\$0.00	\$66.27
LABORERS	12/7/2026	\$38.30	\$10.90	\$9.75	\$8.62	\$0.00	\$67.57
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$39.70	\$10.90	\$9.75	\$8.62	\$0.00	\$68.97
	12/6/2027	\$41.10	\$10.90	\$9.75	\$8.62	\$0.00	\$70.37
	6/5/2028	\$42.60	\$10.90	\$9.75	\$8.62	\$0.00	\$71.87
	12/4/2028	\$44.10	\$10.90	\$9.75	\$8.62	\$0.00	\$73.37
For apprentice rates see "Apprentice- LABORER"							
LABORER: CEMENT FINISHER TENDER	6/1/2026	\$37.00	\$10.90	\$9.75	\$8.62	\$0.00	\$66.27
LABORERS	12/7/2026	\$38.30	\$10.90	\$9.75	\$8.62	\$0.00	\$67.57
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$39.70	\$10.90	\$9.75	\$8.62	\$0.00	\$68.97
	12/6/2027	\$41.10	\$10.90	\$9.75	\$8.62	\$0.00	\$70.37
	6/5/2028	\$42.60	\$10.90	\$9.75	\$8.62	\$0.00	\$71.87
	12/4/2028	\$44.10	\$10.90	\$9.75	\$8.62	\$0.00	\$73.37
For apprentice rates see "Apprentice- LABORER"							
LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER	6/1/2026	\$36.92	\$10.90	\$9.75	\$8.75	\$0.00	\$66.32
LABORERS	12/7/2026	\$38.22	\$10.90	\$9.75	\$8.75	\$0.00	\$67.62
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$39.62	\$10.90	\$9.75	\$8.75	\$0.00	\$69.02
	12/6/2027	\$41.02	\$10.90	\$9.75	\$8.75	\$0.00	\$70.42
	6/5/2028	\$42.52	\$10.90	\$9.75	\$8.75	\$0.00	\$71.92
	12/4/2028	\$44.02	\$10.90	\$9.75	\$8.75	\$0.00	\$73.42
For apprentice rates see "Apprentice- LABORER"							
LABORER: MASON TENDER	6/1/2026	\$40.00	\$10.90	\$9.75	\$8.62	\$0.00	\$69.27
LABORERS	12/7/2026	\$41.30	\$10.90	\$9.75	\$8.62	\$0.00	\$70.57
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$42.70	\$10.90	\$9.75	\$8.62	\$0.00	\$71.97

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	12/6/2027	\$44.10	\$10.90	\$9.75	\$8.62	\$0.00	\$73.37
	6/5/2028	\$45.60	\$10.90	\$9.75	\$8.62	\$0.00	\$74.87
	12/4/2028	\$47.10	\$10.90	\$9.75	\$8.62	\$0.00	\$76.37

For apprentice rates see "Apprentice- LABORER"

LABORER: MASON TENDER (HEAVY & HIGHWAY)	6/1/2026	\$37.24	\$10.90	\$9.75	\$6.60	\$0.00	\$64.49
LABORERS							
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	12/1/2026	\$38.53	\$10.90	\$9.75	\$6.60	\$0.00	\$65.78

For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"

LABORER: MULTI-TRADE TENDER	6/1/2026	\$37.00	\$10.90	\$9.75	\$8.62	\$0.00	\$66.27
LABORERS							
LABORERS - ZONE 3 (BUILDING & SITE)	12/7/2026	\$38.30	\$10.90	\$9.75	\$8.62	\$0.00	\$67.57
	6/7/2027	\$39.70	\$10.90	\$9.75	\$8.62	\$0.00	\$68.97
	12/6/2027	\$41.10	\$10.90	\$9.75	\$8.62	\$0.00	\$70.37
	6/5/2028	\$42.60	\$10.90	\$9.75	\$8.62	\$0.00	\$71.87
	12/4/2028	\$44.10	\$10.90	\$9.75	\$8.62	\$0.00	\$73.37

For apprentice rates see "Apprentice- LABORER"

LABORER: TREE REMOVER	6/1/2026	\$37.00	\$10.90	\$9.75	\$8.62	\$0.00	\$66.27
LABORERS							
LABORERS - ZONE 3 (BUILDING & SITE)	12/7/2026	\$38.30	\$10.90	\$9.75	\$8.62	\$0.00	\$67.57
	6/7/2027	\$39.70	\$10.90	\$9.75	\$8.62	\$0.00	\$68.97
	12/6/2027	\$41.10	\$10.90	\$9.75	\$8.62	\$0.00	\$70.37
	6/5/2028	\$42.60	\$10.90	\$9.75	\$8.62	\$0.00	\$71.87
	12/4/2028	\$44.10	\$10.90	\$9.75	\$8.62	\$0.00	\$73.37

This classification applies to the removal of standing trees, and the trimming and removal of branches and limbs when related to public works construction or site clearance incidental to construction . For apprentice rates see "Apprentice- LABORER"

LASER BEAM OPERATOR	6/1/2026	\$37.25	\$10.90	\$9.75	\$8.62	\$0.00	\$66.52
LABORERS							
LABORERS - ZONE 3 (BUILDING & SITE)	12/7/2026	\$38.55	\$10.90	\$9.75	\$8.62	\$0.00	\$67.82
	6/7/2027	\$39.95	\$10.90	\$9.75	\$8.62	\$0.00	\$69.22
	12/6/2027	\$41.35	\$10.90	\$9.75	\$8.62	\$0.00	\$70.62
	6/5/2028	\$42.85	\$10.90	\$9.75	\$8.62	\$0.00	\$72.12
	12/4/2028	\$44.35	\$10.90	\$9.75	\$8.62	\$0.00	\$73.62

For apprentice rates see "Apprentice- LABORER"

LASER BEAM OPERATOR (HEAVY & HIGHWAY)	6/1/2026	\$37.24	\$10.90	\$9.75	\$6.60	\$0.00	\$64.49
LABORERS							
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	12/1/2026	\$38.53	\$10.90	\$9.75	\$6.60	\$0.00	\$65.78

For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"

MARBLE & TILE FINISHERS	8/1/2026	\$47.32	\$12.84	\$15.10	\$5.41	\$0.00	\$80.67
BRICKLAYERS LOCAL 3							
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	2/1/2027	\$48.44	\$12.84	\$15.10	\$5.41	\$0.00	\$81.79

Apprentice: MARBLE & TILE FINISHERS							
Effective Date: 8/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$23.66	\$12.84	\$15.10	\$5.41	\$0.00	\$57.01
2	60.00	\$28.39	\$12.84	\$15.10	\$5.41	\$0.00	\$61.74

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: MARBLE & TILE FINISHERS Effective Date: 8/1/2026							
		Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
3	70.00	\$33.12	\$12.84	\$15.10	\$5.41	\$0.00	\$66.47
4	80.00	\$37.86	\$12.84	\$15.10	\$5.41	\$0.00	\$71.21
5	90.00	\$42.59	\$12.84	\$15.10	\$5.41	\$0.00	\$75.94
Apprentice to Journeyworker Ratio: 1:5							
MECH. SWEEPER OPERATOR (ON CONST. SITES)	12/1/2023	\$39.56	\$13.78	\$12.15	\$3.00	\$0.00	\$68.49
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
MECHANIC/WELDER/BOOM TRUCK	12/1/2023	\$39.03	\$13.78	\$12.15	\$3.00	\$0.00	\$67.96
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
MILLWRIGHT (Zone 3)	1/5/2026	\$45.20	\$10.58	\$11.47	\$9.75	\$0.00	\$77.00
MILLWRIGHTS LOCAL 1121							
MILLWRIGHTS LOCAL 1121 - Zone 3							
Apprentice: MILLWRIGHT (Zone 3) Effective Date: 1/5/2026							
		Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	55.00	\$24.86	\$10.58	\$0.00	\$5.36	\$0.00	\$40.80
2	65.00	\$29.38	\$10.58	\$0.00	\$6.34	\$0.00	\$46.30
3	75.00	\$33.90	\$10.58	\$11.47	\$7.31	\$0.00	\$63.26
4	85.00	\$38.42	\$10.58	\$11.47	\$8.29	\$0.00	\$68.76
Apprentice Notes Step 1&2 Appr. indentured after 1/6/2020 receive no pension,							
Apprentice to Journeyworker Ratio: 1:4							
MORTAR MIXER	6/1/2026	\$37.25	\$10.90	\$9.75	\$8.62	\$0.00	\$66.52
LABORERS	12/7/2026	\$38.55	\$10.90	\$9.75	\$8.62	\$0.00	\$67.82
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$39.95	\$10.90	\$9.75	\$8.62	\$0.00	\$69.22
	12/6/2027	\$41.35	\$10.90	\$9.75	\$8.62	\$0.00	\$70.62
	6/5/2028	\$42.85	\$10.90	\$9.75	\$8.62	\$0.00	\$72.12
	12/4/2028	\$44.35	\$10.90	\$9.75	\$8.62	\$0.00	\$73.62
For apprentice rates see "Apprentice- LABORER"							
OILER	12/1/2023	\$35.02	\$13.78	\$12.15	\$3.00	\$0.00	\$63.95
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
OTHER POWER DRIVEN EQUIPMENT - CLASS VI OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	\$32.74	\$13.78	\$12.15	\$3.00	\$0.00	\$61.67

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

PAINTER (BRIDGES/TANKS) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	\$59.56	\$10.35	\$12.00	\$12.60	\$0.00	\$94.51
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Apprentice: PAINTER (BRIDGES/TANKS)**Effective Date: 1/1/2026**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$29.78	\$10.35	\$0.00	\$0.00	\$0.00	\$40.13
2	55.00	\$32.76	\$10.35	\$0.00	\$6.93	\$0.00	\$50.04
3	60.00	\$35.74	\$10.35	\$0.00	\$7.56	\$0.00	\$53.65
4	65.00	\$38.71	\$10.35	\$0.00	\$8.19	\$0.00	\$57.25
5	70.00	\$41.69	\$10.35	\$12.00	\$8.82	\$0.00	\$72.86
6	75.00	\$44.67	\$10.35	\$12.00	\$9.45	\$0.00	\$76.47
7	80.00	\$47.65	\$10.35	\$12.00	\$10.08	\$0.00	\$80.08
8	90.00	\$53.60	\$10.35	\$12.00	\$11.34	\$0.00	\$87.29

Apprentice to Journeyworker Ratio: 1:1

PAINTER (SPRAY OR SANDBLAST, NEW) *	1/1/2026	\$42.03	\$10.35	\$12.00	\$8.35	\$0.00	\$72.73
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* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used.

PAINTERS LOCAL 35
PAINTERS LOCAL 35 - ZONE 3

Apprentice: PAINTER (SPRAY OR SANDBLAST, NEW) ***Effective Date: 1/1/2026**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$21.02	\$10.35	\$0.00	\$0.00	\$0.00	\$31.37
2	55.00	\$23.12	\$10.35	\$0.00	\$4.59	\$0.00	\$38.06
3	60.00	\$25.22	\$10.35	\$0.00	\$5.01	\$0.00	\$40.58
4	65.00	\$27.32	\$10.35	\$0.00	\$5.43	\$0.00	\$43.10
5	70.00	\$29.42	\$10.35	\$12.00	\$5.85	\$0.00	\$57.62
6	75.00	\$31.52	\$10.35	\$12.00	\$6.26	\$0.00	\$60.13
7	80.00	\$33.62	\$10.35	\$12.00	\$6.68	\$0.00	\$62.65
8	90.00	\$37.83	\$10.35	\$12.00	\$7.52	\$0.00	\$67.70

Apprentice to Journeyworker Ratio: 1:1

PAINTER (SPRAY OR SANDBLAST, REPAINT) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	\$39.35	\$10.35	\$12.00	\$8.35	\$0.00	\$70.05
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Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: PAINTER (SPRAY OR SANDBLAST, REPAINT)							
Effective Date: 1/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$19.68	\$10.35	\$0.00	\$0.00	\$0.00	\$30.03
2	55.00	\$21.64	\$10.35	\$0.00	\$4.59	\$0.00	\$36.58
3	60.00	\$23.61	\$10.35	\$0.00	\$5.01	\$0.00	\$38.97
4	65.00	\$25.58	\$10.35	\$0.00	\$5.43	\$0.00	\$41.36
5	70.00	\$27.55	\$10.35	\$12.00	\$5.85	\$0.00	\$55.75
6	75.00	\$29.51	\$10.35	\$12.00	\$6.26	\$0.00	\$58.12
7	80.00	\$31.48	\$10.35	\$12.00	\$6.68	\$0.00	\$60.51
8	90.00	\$35.42	\$10.35	\$12.00	\$7.52	\$0.00	\$65.29

Apprentice to Journeyworker Ratio: 1:1

PAINTER / TAPER (BRUSH, NEW) *	1/1/2026	\$40.63	\$10.35	\$12.00	\$8.35	\$0.00	\$71.33
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* If 30% or more of surfaces to be painted are new construction,

NEW paint rate shall be used.

PAINTERS LOCAL 35

PAINTERS LOCAL 35 - ZONE 3

Apprentice: PAINTER / TAPER (BRUSH, NEW) *							
Effective Date: 1/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$20.32	\$10.35	\$0.00	\$0.00	\$0.00	\$30.67
2	55.00	\$22.35	\$10.35	\$0.00	\$4.59	\$0.00	\$37.29
3	60.00	\$24.38	\$10.35	\$0.00	\$5.01	\$0.00	\$39.74
4	65.00	\$26.41	\$10.35	\$0.00	\$5.43	\$0.00	\$42.19
5	70.00	\$28.44	\$10.35	\$12.00	\$5.85	\$0.00	\$56.64
6	75.00	\$30.47	\$10.35	\$12.00	\$6.26	\$0.00	\$59.08
7	80.00	\$32.50	\$10.35	\$12.00	\$6.68	\$0.00	\$61.53
8	90.00	\$36.57	\$10.35	\$12.00	\$7.52	\$0.00	\$66.44

Apprentice to Journeyworker Ratio: 1:1

PAINTER / TAPER (BRUSH, REPAINT)	1/1/2026	\$37.95	\$10.35	\$12.00	\$8.35	\$0.00	\$68.65
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PAINTERS LOCAL 35

PAINTERS LOCAL 35 - ZONE 3

Apprentice: PAINTER / TAPER (BRUSH, REPAINT)							
Effective Date: 1/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$18.98	\$10.35	\$0.00	\$0.00	\$0.00	\$29.33
2	55.00	\$20.87	\$10.35	\$0.00	\$4.59	\$0.00	\$35.81
3	60.00	\$22.77	\$10.35	\$0.00	\$5.01	\$0.00	\$38.13

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: PAINTER / TAPER (BRUSH, REPAINT) Effective Date: 1/1/2026							
		Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
4	65.00	\$24.67	\$10.35	\$0.00	\$5.43	\$0.00	\$40.45
5	70.00	\$26.57	\$10.35	\$12.00	\$5.85	\$0.00	\$54.77
6	75.00	\$28.46	\$10.35	\$12.00	\$6.26	\$0.00	\$57.07
7	80.00	\$30.36	\$10.35	\$12.00	\$6.68	\$0.00	\$59.39
8	90.00	\$34.16	\$10.35	\$12.00	\$7.52	\$0.00	\$64.03
Apprentice to Journeyworker Ratio: 1:1							
PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY)	6/1/2026	\$36.99	\$10.90	\$9.75	\$6.60	\$0.00	\$64.24
LABORERS	12/1/2026	\$38.28	\$10.90	\$9.75	\$6.60	\$0.00	\$65.53
LABORERS - ZONE 3 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
PANEL & PICKUP TRUCKS DRIVER	6/1/2026	\$41.78	\$16.17	\$21.78	\$0.00	\$0.00	\$79.73
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	\$41.78	\$16.17	\$23.52	\$0.00	\$0.00	\$81.47
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	\$41.78	\$16.77	\$23.52	\$0.00	\$0.00	\$82.07
PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK)	8/1/2024	\$49.19	\$10.08	\$11.62	\$12.67	\$0.00	\$83.56
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
For apprentice rates see "Apprentice- PILE DRIVER"							
PILE DRIVER	8/1/2024	\$49.19	\$10.08	\$11.62	\$12.67	\$0.00	\$83.56
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
Apprentice: PILE DRIVER Effective Date: 8/1/2024							
		Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$22.14	\$10.08	\$0.00	\$2.53	\$0.00	\$34.75
2	55.00	\$27.05	\$10.08	\$0.00	\$5.07	\$0.00	\$42.20
3	70.00	\$34.43	\$10.08	\$11.62	\$7.60	\$0.00	\$63.73
4	80.00	\$39.35	\$10.08	\$11.62	\$10.14	\$0.00	\$71.19
Apprentice to Journeyworker Ratio: 1:5							
PIPELAYER	6/1/2026	\$37.25	\$10.90	\$9.75	\$8.62	\$0.00	\$66.52
LABORERS	12/7/2026	\$38.55	\$10.90	\$9.75	\$8.62	\$0.00	\$67.82
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$39.95	\$10.90	\$9.75	\$8.62	\$0.00	\$69.22
	12/6/2027	\$41.35	\$10.90	\$9.75	\$8.62	\$0.00	\$70.62
	6/5/2028	\$42.85	\$10.90	\$9.75	\$8.62	\$0.00	\$72.12
	12/4/2028	\$44.35	\$10.90	\$9.75	\$8.62	\$0.00	\$73.62
For apprentice rates see "Apprentice- LABORER"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
PIPELAYER (HEAVY & HIGHWAY)	6/1/2026	\$37.24	\$10.90	\$9.75	\$6.60	\$0.00	\$64.49
LABORERS	12/1/2026	\$38.53	\$10.90	\$9.75	\$6.60	\$0.00	\$65.78
LABORERS - ZONE 3 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							

PLUMBER & PIPEFITTER	3/17/2026	\$52.76	\$13.50	\$10.85	\$7.10	\$0.00	\$84.21
PLUMBERS & PIPEFITTERS LOCAL 104	9/17/2026	\$54.76	\$13.50	\$10.85	\$7.10	\$0.00	\$86.21
PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2027	\$58.26	\$12.00	\$10.85	\$7.10	\$0.00	\$88.21
	9/17/2027	\$60.26	\$12.00	\$10.85	\$7.10	\$0.00	\$90.21
	3/17/2028	\$62.26	\$12.00	\$10.85	\$7.10	\$0.00	\$92.21
	9/17/2028	\$64.26	\$12.00	\$10.85	\$7.10	\$0.00	\$94.21
	3/17/2029	\$66.26	\$12.00	\$10.85	\$7.10	\$0.00	\$96.21

Apprentice: PLUMBER & PIPEFITTER

Effective Date: 3/17/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$23.74	\$13.50	\$10.85	\$0.00	\$0.00	\$48.09
2	50.00	\$26.38	\$13.50	\$10.85	\$0.00	\$0.00	\$50.73
3	55.00	\$29.02	\$13.50	\$10.85	\$0.00	\$0.00	\$53.37
4	60.00	\$31.66	\$13.50	\$10.85	\$0.00	\$0.00	\$56.01
5	65.00	\$34.29	\$13.50	\$10.85	\$0.00	\$0.00	\$58.64
6	70.00	\$36.93	\$13.50	\$10.85	\$0.00	\$0.00	\$61.28
7	75.00	\$39.57	\$13.50	\$10.85	\$0.00	\$0.00	\$63.92
8	80.00	\$42.21	\$13.50	\$10.85	\$0.00	\$0.00	\$66.56
9	85.00	\$44.85	\$13.50	\$10.85	\$7.10	\$0.00	\$76.30
10	85.00	\$44.85	\$13.50	\$10.85	\$7.10	\$0.00	\$76.30

Apprentice: PLUMBER & PIPEFITTER

Effective Date: 9/17/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$24.64	\$13.50	\$10.85	\$0.00	\$0.00	\$48.99
2	50.00	\$27.38	\$13.50	\$10.85	\$0.00	\$0.00	\$51.73
3	55.00	\$30.12	\$13.50	\$10.85	\$0.00	\$0.00	\$54.47
4	60.00	\$32.86	\$13.50	\$10.85	\$0.00	\$0.00	\$57.21
5	65.00	\$35.59	\$13.50	\$10.85	\$0.00	\$0.00	\$59.94
6	70.00	\$38.33	\$13.50	\$10.85	\$0.00	\$0.00	\$62.68
7	75.00	\$41.07	\$13.50	\$10.85	\$0.00	\$0.00	\$65.42
8	80.00	\$43.81	\$13.50	\$10.85	\$0.00	\$0.00	\$68.16
9	85.00	\$46.55	\$13.50	\$10.85	\$7.10	\$0.00	\$78.00
10	85.00	\$46.55	\$13.50	\$10.85	\$7.10	\$0.00	\$78.00

Apprentice Notes

****1:1,2:5,3:9,4:12**

Apprentice to Journeyworker Ratio: 1:1

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
PNEUMATIC CONTROLS (TEMP.)	3/17/2026	\$52.76	\$13.50	\$10.85	\$7.10	\$0.00	\$84.21
PLUMBERS & PIPEFITTERS LOCAL 104	9/17/2026	\$54.76	\$13.50	\$10.85	\$7.10	\$0.00	\$86.21
PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2027	\$58.26	\$12.00	\$10.85	\$7.10	\$0.00	\$88.21
	9/17/2027	\$60.26	\$12.00	\$10.85	\$7.10	\$0.00	\$90.21
	3/17/2028	\$62.26	\$12.00	\$10.85	\$7.10	\$0.00	\$92.21
	9/17/2028	\$64.26	\$12.00	\$10.85	\$7.10	\$0.00	\$94.21
	3/17/2029	\$66.26	\$12.00	\$10.85	\$7.10	\$0.00	\$96.21
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY)	6/1/2026	\$37.24	\$10.90	\$9.75	\$6.60	\$0.00	\$64.49
LABORERS	12/1/2026	\$38.53	\$10.90	\$9.75	\$6.60	\$0.00	\$65.78
LABORERS - ZONE 3 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
POWDERMAN & BLASTER	6/1/2026	\$38.00	\$10.90	\$9.75	\$8.62	\$0.00	\$67.27
LABORERS	12/7/2026	\$39.30	\$10.90	\$9.75	\$8.62	\$0.00	\$68.57
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$40.70	\$10.90	\$9.75	\$8.62	\$0.00	\$69.97
	12/6/2027	\$42.10	\$10.90	\$9.75	\$8.62	\$0.00	\$71.37
	6/5/2028	\$43.60	\$10.90	\$9.75	\$8.62	\$0.00	\$72.87
	12/4/2028	\$45.10	\$10.90	\$9.75	\$8.62	\$0.00	\$74.37
For apprentice rates see "Apprentice- LABORER"							
POWDERMAN & BLASTER (HEAVY & HIGHWAY)	6/1/2026	\$37.99	\$10.90	\$9.75	\$6.60	\$0.00	\$65.24
LABORERS	12/1/2026	\$39.28	\$10.90	\$9.75	\$6.60	\$0.00	\$66.53
LABORERS - ZONE 3 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
PUMP OPERATOR (CONCRETE)	12/1/2023	\$39.56	\$13.78	\$12.15	\$3.00	\$0.00	\$68.49
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
PUMP OPERATOR (DEWATERING, OTHER)	12/1/2023	\$39.03	\$13.78	\$12.15	\$3.00	\$0.00	\$67.96
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
READY-MIX CONCRETE DRIVER	5/1/2024	\$26.14	\$11.82	\$7.25	\$0.00	\$0.00	\$45.21
TEAMSTERS 404 - Construction Service (Northampton)							
TEAMSTERS 404 - Construction Service (Northampton)							
RIDE-ON MOTORIZED BUGGY OPERATOR	6/1/2026	\$37.25	\$10.90	\$9.75	\$8.62	\$0.00	\$66.52
LABORERS	12/7/2026	\$38.55	\$10.90	\$9.75	\$8.62	\$0.00	\$67.82
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$39.95	\$10.90	\$9.75	\$8.62	\$0.00	\$69.22
	12/6/2027	\$41.35	\$10.90	\$9.75	\$8.62	\$0.00	\$70.62
	6/5/2028	\$42.85	\$10.90	\$9.75	\$8.62	\$0.00	\$72.12
	12/4/2028	\$44.35	\$10.90	\$9.75	\$8.62	\$0.00	\$73.62
For apprentice rates see "Apprentice- LABORER"							
ROLLER OPERATOR	12/1/2023	\$38.42	\$13.78	\$12.15	\$3.00	\$0.00	\$67.35
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
ROOFER (Coal tar pitch) ROOFERS LOCAL 248 ROOFERS LOCAL 248	7/16/2026	\$46.73	\$10.60	\$8.70	\$10.00	\$0.00	\$76.03
For apprentice rates see "Apprentice- ROOFER"							
ROOFER (Inc.Roofers Waterproofing &Roofers Dampproofg) ROOFERS LOCAL 248 ROOFERS LOCAL 248	7/16/2026	\$46.23	\$10.60	\$8.70	\$10.00	\$0.00	\$75.53
ROOFER SLATE / TILE / PRECAST CONCRETE ROOFERS LOCAL 248 ROOFERS LOCAL 248	7/16/2026	\$46.73	\$10.60	\$8.70	\$10.00	\$0.00	\$76.03
For apprentice rates see "Apprentice- ROOFER"							
SCRAPER OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	\$39.03	\$13.78	\$12.15	\$3.00	\$0.00	\$67.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
SELF-POWERED ROLLERS AND COMPACTORS (TAMPERS) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	\$38.42	\$13.78	\$12.15	\$3.00	\$0.00	\$67.35
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
SELF-PROPELLED POWER BROOM OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	\$35.80	\$13.78	\$12.15	\$3.00	\$0.00	\$64.73
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
SHEETMETAL WORKER SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63	7/1/2026	\$43.48	\$13.24	\$11.01	\$9.92	\$2.13	\$79.78
	1/1/2027	\$43.48	\$13.54	\$11.01	\$11.12	\$2.13	\$81.28
	7/1/2027	\$44.98	\$13.54	\$11.01	\$11.12	\$2.13	\$82.78
	1/1/2028	\$46.48	\$13.54	\$11.01	\$11.12	\$2.13	\$84.28

Apprentice: SHEETMETAL WORKER							
Effective Date: 7/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$19.57	\$5.96	\$4.95	\$0.00	\$0.85	\$31.33
2	50.00	\$21.74	\$6.62	\$5.51	\$0.00	\$0.94	\$34.81
3	55.00	\$23.91	\$7.28	\$9.91	\$0.00	\$1.15	\$42.25
4	60.00	\$26.09	\$7.94	\$9.91	\$0.00	\$1.23	\$45.17
5	65.00	\$28.26	\$8.60	\$9.91	\$0.00	\$1.31	\$48.08
6	70.00	\$30.44	\$9.27	\$9.91	\$0.00	\$1.39	\$51.01
7	75.00	\$32.61	\$9.93	\$9.91	\$0.00	\$1.47	\$53.92
8	80.00	\$34.78	\$10.59	\$9.91	\$9.92	\$1.78	\$66.98
9	85.00	\$36.96	\$11.25	\$9.91	\$9.92	\$1.86	\$69.90
10	90.00	\$39.13	\$11.92	\$9.91	\$9.92	\$1.94	\$72.82

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: SHEETMETAL WORKER							
Effective Date: 1/1/2027							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$19.57	\$6.09	\$4.95	\$0.00	\$0.85	\$31.46
2	50.00	\$21.74	\$6.77	\$5.51	\$0.00	\$0.94	\$34.96
3	55.00	\$23.91	\$7.45	\$9.91	\$0.00	\$1.15	\$42.42
4	60.00	\$26.09	\$8.36	\$9.91	\$0.00	\$1.23	\$45.59
5	65.00	\$28.26	\$8.86	\$9.91	\$0.00	\$1.31	\$48.34
6	70.00	\$30.44	\$9.48	\$9.91	\$0.00	\$1.39	\$51.22
7	75.00	\$32.61	\$10.15	\$9.91	\$0.00	\$1.47	\$54.14
8	80.00	\$34.78	\$10.83	\$9.91	\$11.12	\$1.78	\$68.42
9	85.00	\$36.96	\$11.51	\$9.91	\$11.12	\$1.86	\$71.36
10	90.00	\$39.13	\$12.18	\$9.91	\$11.12	\$1.94	\$74.28

Apprentice to Journeyworker Ratio: 1:3

SPECIALIZED EARTH MOVING EQUIP < 35 TONS	6/1/2026	\$42.24	\$16.17	\$21.78	\$0.00	\$0.00	\$80.19
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	\$42.24	\$16.17	\$23.52	\$0.00	\$0.00	\$81.93
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	\$42.24	\$16.77	\$23.52	\$0.00	\$0.00	\$82.53
SPECIALIZED EARTH MOVING EQUIP > 35 TONS	6/1/2026	\$42.53	\$16.17	\$21.78	\$0.00	\$0.00	\$80.48
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	\$42.53	\$16.17	\$23.52	\$0.00	\$0.00	\$82.22
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	\$42.53	\$16.77	\$23.52	\$0.00	\$0.00	\$82.82
SPRINKLER FITTER	7/1/2026	\$56.54	\$13.60	\$7.45	\$9.41	\$0.00	\$87.00
SPRINKLER FITTERS LOCAL 669	10/1/2026	\$56.54	\$13.60	\$7.45	\$9.41	\$0.00	\$87.00
SPRINKLER FITTERS LOCAL 669	1/1/2027	\$56.54	\$14.55	\$7.50	\$9.41	\$0.00	\$88.00
	4/1/2027	\$59.83	\$14.55	\$7.50	\$9.41	\$0.00	\$91.29
	7/1/2027	\$59.83	\$14.55	\$7.50	\$9.41	\$0.00	\$91.29
	10/1/2027	\$59.83	\$14.55	\$7.50	\$9.41	\$0.00	\$91.29
	1/1/2028	\$59.83	\$15.50	\$7.55	\$9.41	\$0.00	\$92.29

Apprentice: SPRINKLER FITTER							
Effective Date: 7/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	43.00	\$28.36	\$9.64	\$0.00	\$0.00	\$0.00	\$38.00
2	48.00	\$31.66	\$9.64	\$0.00	\$0.00	\$0.00	\$41.30
3	52.00	\$34.29	\$13.60	\$7.45	\$1.15	\$0.00	\$56.49
4	56.00	\$36.93	\$13.60	\$7.45	\$1.15	\$0.00	\$59.13
5	59.00	\$38.91	\$13.60	\$7.45	\$1.40	\$0.00	\$61.36
6	64.00	\$42.21	\$13.60	\$7.45	\$1.40	\$0.00	\$64.66
7	68.00	\$44.85	\$13.60	\$7.45	\$1.40	\$0.00	\$67.30
8	72.00	\$47.48	\$13.60	\$7.45	\$1.40	\$0.00	\$69.93
9	76.00	\$50.12	\$13.60	\$7.45	\$1.40	\$0.00	\$72.57
10	80.00	\$52.76	\$13.60	\$7.45	\$1.40	\$0.00	\$75.21

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: SPRINKLER FITTER							
Effective Date: 10/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	43.00	\$28.36	\$0.00	\$0.00	\$0.00	\$0.00	\$28.36
2	48.00	\$31.66	\$0.00	\$0.00	\$0.00	\$0.00	\$31.66
3	52.00	\$34.29	\$0.00	\$0.00	\$1.15	\$0.00	\$35.44
4	56.00	\$36.93	\$0.00	\$0.00	\$1.15	\$0.00	\$38.08
5	59.00	\$38.91	\$0.00	\$0.00	\$1.40	\$0.00	\$40.31
6	64.00	\$42.21	\$0.00	\$0.00	\$1.40	\$0.00	\$43.61
7	68.00	\$44.85	\$0.00	\$0.00	\$1.40	\$0.00	\$46.25
8	72.00	\$47.48	\$0.00	\$0.00	\$1.40	\$0.00	\$48.88
9	76.00	\$50.12	\$0.00	\$0.00	\$1.40	\$0.00	\$51.52
10	80.00	\$52.76	\$0.00	\$0.00	\$1.40	\$0.00	\$54.16

Apprentice to Journeyworker Ratio: 1:1

TELECOMMUNICATION TECHNICIAN	6/28/2026	\$54.41	\$14.00	\$8.43	\$7.03	\$0.00	\$83.87
TELECOMMUNICATION TECHNICIAN	1/3/2027	\$55.56	\$14.25	\$8.47	\$7.09	\$0.00	\$85.37
ELECTRICIANS LOCAL 7							
ELECTRICIANS LOCAL 7							

For apprentice rates and ratios see "Apprentice- ELECTRICIAN"

Apprentice: TELECOMMUNICATION TECHNICIAN							
Effective Date: 6/28/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	\$21.76	\$7.80	\$0.63	\$0.00	\$0.00	\$30.19
2	45.00	\$24.48	\$7.80	\$0.70	\$0.00	\$0.00	\$32.98
3	50.00	\$27.21	\$14.00	\$7.53	\$0.00	\$0.00	\$48.74
4	55.00	\$29.93	\$14.00	\$7.61	\$0.00	\$0.00	\$51.54
5	65.00	\$35.37	\$14.00	\$9.84	\$0.00	\$0.00	\$59.21
6	70.00	\$38.09	\$14.00	\$11.30	\$0.00	\$0.00	\$63.39

Apprentice: TELECOMMUNICATION TECHNICIAN							
Effective Date: 1/3/2027							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	\$22.22	\$7.95	\$0.63	\$0.00	\$0.00	\$30.80
2	45.00	\$25.00	\$7.95	\$0.70	\$0.00	\$0.00	\$33.65
3	50.00	\$27.78	\$14.25	\$7.53	\$0.00	\$0.00	\$49.56
4	55.00	\$30.56	\$14.25	\$7.61	\$0.00	\$0.00	\$52.42
5	65.00	\$36.11	\$14.25	\$9.84	\$0.00	\$0.00	\$60.20
6	70.00	\$38.89	\$14.25	\$11.30	\$0.00	\$0.00	\$64.44

Apprentice to Journeyworker Ratio: 1:1

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
TERRAZZO FINISHERS	8/1/2026	\$69.09	\$12.84	\$15.57	\$8.02	\$0.00	\$105.52
BRICKLAYERS LOCAL 3	2/1/2027	\$70.49	\$12.84	\$15.57	\$8.02	\$0.00	\$106.92
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE							

Apprentice: TERRAZZO FINISHERS							
Effective Date: 8/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$34.55	\$12.84	\$15.57	\$8.02	\$0.00	\$70.98
2	60.00	\$41.45	\$12.84	\$15.57	\$8.02	\$0.00	\$77.88
3	70.00	\$48.36	\$12.84	\$15.57	\$8.02	\$0.00	\$84.79
4	80.00	\$55.27	\$12.84	\$15.57	\$8.02	\$0.00	\$91.70
5	90.00	\$62.18	\$12.84	\$15.57	\$8.02	\$0.00	\$98.61

Apprentice: TERRAZZO FINISHERS							
Effective Date: 2/1/2027							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$35.25	\$12.84	\$15.57	\$8.02	\$0.00	\$71.68
2	60.00	\$42.29	\$12.84	\$15.57	\$8.02	\$0.00	\$78.72
3	70.00	\$49.34	\$12.84	\$15.57	\$8.02	\$0.00	\$85.77
4	80.00	\$56.39	\$12.84	\$15.57	\$8.02	\$0.00	\$92.82
5	90.00	\$63.44	\$12.84	\$15.57	\$8.02	\$0.00	\$99.87

Apprentice to Journeyworker Ratio: 1:5

TERRAZZO MECHANIC	8/1/2026	\$70.17	\$12.84	\$15.57	\$7.99	\$0.00	\$106.57
BRICKLAYERS LOCAL 3	2/1/2027	\$71.57	\$12.84	\$15.57	\$7.99	\$0.00	\$107.97
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE							

Apprentice: TERRAZZO MECHANIC							
Effective Date: 8/1/2026							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$35.09	\$12.84	\$15.57	\$7.99	\$0.00	\$71.49
2	60.00	\$42.10	\$12.84	\$15.57	\$7.99	\$0.00	\$78.50
3	70.00	\$49.12	\$12.84	\$15.57	\$7.99	\$0.00	\$85.52
4	80.00	\$56.14	\$12.84	\$15.57	\$7.99	\$0.00	\$92.54
5	90.00	\$63.15	\$12.84	\$15.57	\$7.99	\$0.00	\$99.55

Apprentice: TERRAZZO MECHANIC							
Effective Date: 2/1/2027							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$35.79	\$12.84	\$15.57	\$7.99	\$0.00	\$72.19
2	60.00	\$42.94	\$12.84	\$15.57	\$7.99	\$0.00	\$79.34

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate																																
Apprentice: TERRAZZO MECHANIC Effective Date: 2/1/2027 <table><thead><tr><th>Step</th><th>Percent</th><th>Apprentice Base Wage</th><th>Health</th><th>Pension</th><th>Annuity</th><th>Supplemental Unemployment</th><th>Total Rate</th></tr></thead><tbody><tr><td>3</td><td>70.00</td><td>\$50.10</td><td>\$12.84</td><td>\$15.57</td><td>\$7.99</td><td>\$0.00</td><td>\$86.50</td></tr><tr><td>4</td><td>80.00</td><td>\$57.26</td><td>\$12.84</td><td>\$15.57</td><td>\$7.99</td><td>\$0.00</td><td>\$93.66</td></tr><tr><td>5</td><td>90.00</td><td>\$64.41</td><td>\$12.84</td><td>\$15.57</td><td>\$7.99</td><td>\$0.00</td><td>\$100.81</td></tr></tbody></table>								Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate	3	70.00	\$50.10	\$12.84	\$15.57	\$7.99	\$0.00	\$86.50	4	80.00	\$57.26	\$12.84	\$15.57	\$7.99	\$0.00	\$93.66	5	90.00	\$64.41	\$12.84	\$15.57	\$7.99	\$0.00	\$100.81
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate																																
3	70.00	\$50.10	\$12.84	\$15.57	\$7.99	\$0.00	\$86.50																																
4	80.00	\$57.26	\$12.84	\$15.57	\$7.99	\$0.00	\$93.66																																
5	90.00	\$64.41	\$12.84	\$15.57	\$7.99	\$0.00	\$100.81																																
Apprentice to Journeyworker Ratio: 1:5																																							
TEST BORING DRILLER	6/1/2026	\$53.25	\$10.90	\$9.75	\$9.80	\$0.00	\$83.70																																
LABORERS	12/1/2026	\$54.75	\$10.90	\$9.75	\$9.80	\$0.00	\$85.20																																
LABORERS - FOUNDATION AND MARINE																																							
For apprentice rates see "Apprentice- LABORER"																																							
TEST BORING DRILLER HELPER	6/1/2026	\$49.37	\$10.90	\$9.75	\$9.80	\$0.00	\$79.82																																
LABORERS	12/1/2026	\$50.87	\$10.90	\$9.75	\$9.80	\$0.00	\$81.32																																
LABORERS - FOUNDATION AND MARINE																																							
For apprentice rates see "Apprentice- LABORER"																																							
TEST BORING LABORER	6/1/2026	\$49.25	\$10.90	\$9.75	\$9.80	\$0.00	\$79.70																																
LABORERS	12/1/2026	\$50.75	\$10.90	\$9.75	\$9.80	\$0.00	\$81.20																																
LABORERS - FOUNDATION AND MARINE																																							
For apprentice rates see "Apprentice- LABORER"																																							
TRACTORS	12/1/2023	\$38.42	\$13.78	\$12.15	\$3.00	\$0.00	\$67.35																																
OPERATING ENGINEERS LOCAL 98																																							
OPERATING ENGINEERS LOCAL 98																																							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"																																							
TRAILERS FOR EARTH MOVING EQUIPMENT	6/1/2026	\$42.82	\$16.17	\$21.78	\$0.00	\$0.00	\$80.77																																
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	\$42.82	\$16.17	\$23.52	\$0.00	\$0.00	\$82.51																																
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	\$42.82	\$16.77	\$23.52	\$0.00	\$0.00	\$83.11																																
TUNNEL WORK - COMPRESSED AIR	6/1/2026	\$61.48	\$10.90	\$9.75	\$10.25	\$0.00	\$92.38																																
LABORERS	12/1/2026	\$62.98	\$10.90	\$9.75	\$10.25	\$0.00	\$93.88																																
LABORERS (COMPRESSED AIR)																																							
For apprentice rates see "Apprentice- LABORER"																																							
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE)	6/1/2026	\$63.48	\$10.90	\$9.75	\$10.25	\$0.00	\$94.38																																
LABORERS	12/1/2026	\$64.98	\$10.90	\$9.75	\$10.25	\$0.00	\$95.88																																
LABORERS (COMPRESSED AIR)																																							
For apprentice rates see "Apprentice- LABORER"																																							
TUNNEL WORK - FREE AIR	6/1/2026	\$53.55	\$10.90	\$9.75	\$10.25	\$0.00	\$84.45																																
LABORERS	12/1/2026	\$55.05	\$10.90	\$9.75	\$10.25	\$0.00	\$85.95																																
LABORERS (FREE AIR TUNNEL)																																							
For apprentice rates see "Apprentice- LABORER"																																							
TUNNEL WORK - FREE AIR (HAZ. WASTE)	6/1/2026	\$55.55	\$10.90	\$9.75	\$10.25	\$0.00	\$86.45																																
LABORERS	12/1/2026	\$57.05	\$10.90	\$9.75	\$10.25	\$0.00	\$87.95																																
LABORERS (FREE AIR TUNNEL)																																							
For apprentice rates see "Apprentice- LABORER"																																							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
VAC-HAUL	6/1/2026	\$42.24	\$16.17	\$21.78	\$0.00	\$0.00	\$80.19
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	\$42.24	\$16.17	\$23.52	\$0.00	\$0.00	\$81.93
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	\$42.24	\$16.77	\$23.52	\$0.00	\$0.00	\$82.53
WAGON DRILL OPERATOR	6/1/2026	\$37.25	\$10.90	\$9.75	\$8.62	\$0.00	\$66.52
LABORERS	12/7/2026	\$38.55	\$10.90	\$9.75	\$8.62	\$0.00	\$67.82
LABORERS - ZONE 3 (BUILDING & SITE)	6/7/2027	\$39.95	\$10.90	\$9.75	\$8.62	\$0.00	\$69.22
	12/6/2027	\$41.35	\$10.90	\$9.75	\$8.62	\$0.00	\$70.62
	6/5/2028	\$42.85	\$10.90	\$9.75	\$8.62	\$0.00	\$72.12
	12/4/2028	\$44.35	\$10.90	\$9.75	\$8.62	\$0.00	\$73.62
For apprentice rates see "Apprentice- LABORER"							
WAGON DRILL OPERATOR (HEAVY & HIGHWAY)	6/1/2026	\$37.24	\$10.90	\$9.75	\$6.60	\$0.00	\$64.49
LABORERS	12/1/2026	\$38.53	\$10.90	\$9.75	\$6.60	\$0.00	\$65.78
LABORERS - ZONE 3 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
WATER METER INSTALLER	3/17/2026	\$52.76	\$13.50	\$10.85	\$7.10	\$0.00	\$84.21
PLUMBERS & PIPEFITTERS LOCAL 104	9/17/2026	\$56.26	\$12.00	\$10.85	\$7.10	\$0.00	\$86.21
PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2027	\$58.26	\$12.00	\$10.85	\$7.10	\$0.00	\$88.21
	9/17/2027	\$60.26	\$12.00	\$10.85	\$7.10	\$0.00	\$90.21
	3/17/2028	\$62.26	\$12.00	\$10.85	\$7.10	\$0.00	\$92.21
	9/17/2028	\$64.26	\$12.00	\$10.85	\$7.10	\$0.00	\$94.21
	3/17/2029	\$66.26	\$12.00	\$10.85	\$7.10	\$0.00	\$96.21
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"							

Marine Drilling

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BLASTER MARINE DRILLING MARINE DRILLING	1/1/2018	\$41.82	\$7.63	\$2.35	\$1.25	\$0.00	\$53.05
BOAT CAPTAIN MARINE DRILLING MARINE DRILLING	1/1/2018	\$33.87	\$7.63	\$2.35	\$0.95	\$0.00	\$44.80
BOAT CAPTAIN / Over 1,000 hp MARINE DRILLING MARINE DRILLING	1/1/2018	\$38.06	\$7.63	\$2.35	\$1.25	\$0.00	\$49.29
CORE DRILLER MARINE DRILLING MARINE DRILLING	1/1/2018	\$31.43	\$7.63	\$2.25	\$0.65	\$0.00	\$41.96
CORE DRILLER HELPER MARINE DRILLING MARINE DRILLING	1/1/2018	\$28.47	\$7.63	\$2.35	\$0.65	\$0.00	\$39.10
DRILLER MARINE DRILLING MARINE DRILLING	1/1/2018	\$39.70	\$7.63	\$2.35	\$1.25	\$0.00	\$50.93
ENGINEER MARINE DRILLING MARINE DRILLING	1/1/2018	\$39.69	\$7.63	\$2.25	\$1.25	\$0.00	\$50.82
HELPER MARINE DRILLING MARINE DRILLING	1/1/2018	\$34.24	\$7.63	\$2.35	\$0.65	\$0.00	\$44.87
MACHINIST MARINE DRILLING MARINE DRILLING	1/1/2018	\$38.88	\$7.63	\$2.35	\$0.95	\$0.00	\$49.81
OILER - MARINE DRILLING MARINE DRILLING MARINE DRILLING	1/1/2018	\$34.24	\$7.63	\$2.35	\$0.65	\$0.00	\$44.87
TUG DECKHAND MARINE DRILLING MARINE DRILLING	1/1/2018	\$27.61	\$7.63	\$2.35	\$0.65	\$0.00	\$38.24
WELDER MARINE DRILLING MARINE DRILLING	1/1/2018	\$38.88	\$7.63	\$2.35	\$0.95	\$0.00	\$49.81

Op Eng Marine (Dredging Work)

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BOAT OPERATOR OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	\$29.26	\$7.63	\$2.35	\$0.95	\$0.00	\$40.19
CERTIFIED WELDER OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	\$31.09	\$7.63	\$2.35	\$1.25	\$0.00	\$42.32
CHIEF WELDER/ CHIEF MATE OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	\$33.02	\$7.63	\$2.35	\$1.25	\$0.00	\$44.25
DERRICK / SPIDER / SPILLBARGE OPERATOR OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	\$33.02	\$7.63	\$2.35	\$1.25	\$0.00	\$44.25
DRAG BARGE OPERATOR / WELDER / MATE OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	\$30.24	\$7.63	\$2.35	\$0.95	\$0.00	\$41.17
ENGINEER / ELECTRICIAN OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	\$33.02	\$7.63	\$2.35	\$1.25	\$0.00	\$44.25
LICENSED BOAT OPERATOR OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	\$33.02	\$7.63	\$2.35	\$1.25	\$0.00	\$44.25
LICENSED TUG OPERATOR OVER 1000HP OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	\$38.18	\$7.63	\$2.35	\$1.25	\$0.00	\$49.41
MAINTENANCE ENGINEER OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	\$33.03	\$7.63	\$2.35	\$1.25	\$0.00	\$44.26
OILER - MARINE DIVISION OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	\$24.30	\$7.63	\$2.35	\$0.65	\$0.00	\$34.93
OPERATOR / LEVERMAN OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	\$38.18	\$7.63	\$2.35	\$1.25	\$0.00	\$49.41
RODMAN / SCOWMAN OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	\$24.30	\$7.63	\$2.35	\$0.65	\$0.00	\$34.93
SHOREMAN / DECKHAND OPERATING ENGINEERS LOCAL 4 OPERATING ENGINEERS - MARINE DIVISION	10/1/2017	\$24.30	\$7.63	\$2.35	\$0.65	\$0.00	\$34.93

Additional Apprentice Information

All apprentices must be registered with the Division of Apprenticeship Training(DAS) in accordance with M.G.L.c. 23, §§ 11E-11L. Minimum wage rates for apprentices employed on public works projects are listed above as a percentage of the hourly prevailing wage rate established by the Commissioner under the provisions of M.G.L.c. 149, §§ 26-27D.

Apprentice ratios are established by DAS pursuant to M.G.L.c. 23, §§ 11E-11L. Ratios are expressed as the allowable number of apprentices to journeymen or fraction thereof, unless otherwise specified. The ratios listed herein have been taken from relevant private collective bargaining agreements(CBAs) and are provided for illustrative purposes only. They have not been independently verified as being accurate or continuing to be accurate.

Parties having questions regarding what ratio to use should contact DAS.

DOCUMENT 00870

STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY CONSTRUCTION CONTRACT
SPECIFICATIONS

(EXECUTIVE ORDER 11246)

Revised April 9, 2019

1. As used in these specifications:
 - a. "Covered area" means the geographical area described in the solicitation from which this contract resulted:
 - b. "Director" means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority.
 - c. "Employer identification number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.
 - d. "Minority" includes:
 - (i) Black (all persons having origins in any of the black African racial groups not of Hispanic origin);
 - (ii) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless of race);
 - (iii) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and
 - (iv) American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).
2. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$ 10,000 the provisions of the specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.
3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or Subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the plan in each trade in which it has employees. The overall good faith performance by other Contractors or Subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or Subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.
4. The Contractor shall implement the specific affirmative action standards provided in Paragraphs 7a through p of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. The Contractor is expected to make substantially uniform progress toward its goals in each craft during the period specified.
5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.

6. In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.
7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:
 - a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.
 - b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
 - c. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the Contractor may have taken.
 - d. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
 - e. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7b above.
 - f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
 - g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with on-site supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
 - h. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.

- i. Direct its recruitment efforts both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
 - j. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.
 - k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
 - l. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
 - m. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
 - n. Ensure that all facilities and company activities are nonsegregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
 - o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
 - p. Conduct a review, at least annually, of all supervisor's adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7a through p). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 7a through p of these Specifications provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female work force participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.
 9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).
 10. The Contractor shall not use the goals and timetables of affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.
 11. The Contractor shall not enter into any Subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.

12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.
14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as many be required by the Government and keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.
15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

APPENDIX A

The following goals and timetables for female utilization shall be included in all Federal and federally assisted construction contracts and subcontracts in excess of \$ 10,000. The goals are applicable to the Contractor's aggregate on-site construction workforce whether or not part of that workforce is performing work on a Federal or federally-assisted construction contract or subcontract.

Area covered: Goal for Women apply nationwide

Goals and TimetablesTimetableGoals (percent)

From Apr. 1, 1980 until further notice

6.9

APPENDIX B-80

Until further notice, the following goals for minority utilization in each construction craft and trade shall included in all Federal or federally assisted construction contracts and subcontracts in excess of \$ 10,000 to be performed in the respective geographical areas. The goals are applicable to each nonexempt contractor's total on- site construction workforce, regardless of whether or not part of that workforce is performing work on a Federal, federally assisted or nonfederally related project, contract or subcontract.

Construction contractors participating in an approved Hometown Plan (see 41 CFR 6-4.5) are required to comply with the goals of the Hometown Plan with regard to construction work they perform in the area covered by the Hometown Plan. With regard to all their other covered construction work, such contractors are required to comply with the applicable SMSA or EA goal contained in this Appendix B-80.

Economic Areas

<u>STATE:</u>	<u>Goals (percent)</u>
MASSACHUSETTS	
004 Boston MA:	
SMSA Counties:	
1123 Boston-Lowell-Brockton-Lawrence-Haverhill, MA-NH	4.0
MA Essex, MA Middlesex, MA Norfolk, MA Plymouth, MA Suffolk, NH Rockingham.	
5403 Fall River- New Bedford MA, Bristol	1.6
9243 Worcester-Fitchburg-Leominster, MA	1.6
6323 Springfield-Chicopee-Holyoke MA-CT	4.8
MA Hampden, MA Hampshire	
Non-SMSA Counties: MA Barnstable, MA Dukes, MA Nantucket	3.6
Non-SMSA Counties: MA Franklin	5.9

APPENDIX C

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the “contractor”) agrees as follows:

1. **Compliance with Regulations:** The contractor (hereinafter includes consultants) will comply with the Acts and Regulations relative to Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation, Federal Highway Administration (FHWA), as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.
2. **Non-discrimination:** The contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, national origin (including limited English proficiency), age, sex, disability, or low-income status in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.
3. **Solicitations for Subcontractors, including Procurements of Materials and Equipment:** In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor’s obligations under this contract and the Acts and the Regulations relative to nondiscrimination on the grounds of race, color, national origin (including limited English proficiency), age, sex, disability, or low-income status.
4. **Information and Reports:** The contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto, and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Massachusetts Department of Transportation (MassDOT) or FHWA to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish this information, the contractor will so certify to MassDOT or FHWA, as appropriate, and will set forth what efforts it has made to obtain the information.
5. **Sanctions for Noncompliance:** In the event of a contractor’s noncompliance with the Nondiscrimination provisions of this contract, MassDOT will impose such contract sanctions as it or FHWA may determine to be appropriate, including, but not limited to:
 - a. withholding payments to the contractor under the contract until the contractor complies; and/or
 - b. cancelling, terminating, or suspending a contract, in whole or in part.
6. **Incorporation of Provisions:** The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations, and directives issued pursuant thereto. The contractor will take action with respect to any subcontract or procurement as MassDOT or FHWA may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the contractor may request MassDOT to enter into any litigation to protect the interests of MassDOT. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.

APPENDIX D

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the “contractor,” which includes consultants) agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

PERTINENT NON-DISCRIMINATION AUTHORITIES:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 stat. 252) (prohibits discrimination on the basis of race, color, national origin); and 49 CFR Part 21
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (42 U.S.C. § 4601) (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-Aid programs and projects)
- Federal-Aid Highway Act of 1973 (23 U.S.C. § 324 *et seq.*) (prohibits discrimination on the basis of sex)
- Section 504 of the Rehabilitation Act of 1973 (29 U.S.C. § 794 *et seq.*), as amended (prohibits discrimination on the basis of disability) and 49 CFR Part 27
- The Age Discrimination Act of 1975, as amended (42 U.S.C. § 6101 *et seq.*) (prohibits discrimination on the basis of age)
- Airport and Airway Improvement Act of 1982 (49 U.S.C. § 471, Section 47123), as amended (prohibits discrimination based on race, creed, color, national origin, or sex)
- The Civil Rights Restoration Act of 1987 (PL 100-209) (broadened the scope, coverage, and applicability of Title VI of the Civil Rights Act of 1964, the Age Discrimination Act of 1975, and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms “programs or activities” to include all of the programs or activities of Federal-Aid recipients, sub-recipients, and contractors, whether such programs or activities are Federally funded or not)
- Titles II and III of the Americans with Disabilities Act (42 U.S.C. §§ 12131-12189), as implemented by Department of Transportation regulations at 49 CFR parts 37 and 38 (prohibits discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities)
- The Federal Aviation Administration’s Non-Discrimination Statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex)
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations (ensures discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations)
- Executive Order 13166, Improving Access to Services for People with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100)
- Title IX of the Education Amendments Act of 1972, as amended (20 U.S.C. 1681 *et seq.*) (prohibits discrimination on the basis of sex in education programs or activities)

*** END OF DOCUMENT ***

DOCUMENT 00875
TRAINEE SPECIAL PROVISIONS
Revised October, 2016

THE REQUIRED NUMBER OF TRAINEES TO BE TRAINED UNDER THIS CONTRACT WILL BE **5**

The contractor shall provide on-the job training aimed at developing full journeyworkers in the type of trade of job classification involved.

In the event that a contractor subcontracts a portion of the contract work, the General Contractor shall determine how many, if any, of the trainees are to be trained by the subcontractor, provided, however, that the contractor shall retain the primary responsibility for meeting the training requirements imposed by this special provision. The contractor shall also insure that this training special provision is made applicable to such subcontract. Where feasible, 25 percent of apprentices or trainees in each occupation shall be in their first year of apprenticeship or training.

The number of trainees shall be distributed among the work classifications on the basis of the contractor's needs and the availability of journeyworkers in the various classifications within a reasonable area of recruitment. Prior to commencing construction, the contractor shall submit to the Massachusetts Department Of Transportation (MassDOT) for approval the number of trainees to be trained in each selected classification and training program to be used. Furthermore, the contractor shall specify the starting time for training in each of the classifications. The contractor will be credited for each trainee employed on the contract work who is currently enrolled or becomes enrolled in an approved program and will be reimbursed for such trainees as provided hereinafter.

Training and upgrading of minorities and women toward journeyworker status is a primary objective of the Training Special Provision. Accordingly, the contractor shall make every effort to enroll minority and women trainees (e.g., by conducting systematic and direct recruitment through public and private sources likely to yield minority and women trainees) to the extent that such persons are available within a reasonable area of recruitment. The contractor will be responsible for demonstrating the steps that have been taken in pursuance thereof, prior to a determination as to whether the contractor is in compliance with this Training Special Provision. This training commitment is not intended, and shall not be used, to discriminate against any applicant for training.

No employee shall be trained under this Special Provision in any classification in which he or she has successfully completed a training course leading to journeyworker status or in which he or she has been employed as a journeyworker. The contractor should satisfy this requirement by including appropriate questions in the employee application or by other suitable means. Regardless of the method used the contractor's records should document the finding in each case.

The minimum length and type of training for each classification will be as established in the training program selected by the contractor and approved by the Massachusetts Department Of Transportation and the Federal Highway Administration. The Massachusetts Department Of Transportation and the Federal Highway Administration shall approve a program if it is reasonably calculated to meet the equal employment opportunity obligations of the contractor and to qualify the average trainee for journeyworker status in the classification concerned by the end of the training period. Furthermore, apprenticeship programs registered with the U.S. Department of Labor, Bureau of Apprenticeship and Training, or with a State apprenticeship agency recognized by the Bureau and training programs approved but not necessarily sponsored by the U.S. Department of Labor, Manpower Administration, Bureau of Apprenticeship and Training shall also be considered acceptable provided it is being administered in a manner consistent with the equal employment obligations of Federal-aid highway construction contracts. Approval or acceptance of a training program shall be obtained from the State prior to commencing work on the classification covered by the program. It is the intention of these provisions that training is to be provided in the construction crafts rather than clerk-typist or secretarial-type positions. Training is permissible in lower level management positions such as office engineers, estimators, timekeepers, etc. where the training is oriented toward construction applications. Training in the laborer classification may be permitted provided that significant and meaningful training is provided and approved by the Federal Highway Administration division office. Some offsite training is permissible as long as the training is an integral part of an approved training program and does not comprise a significant part of the overall training.

Reimbursement

Under these Training Special Provisions, reimbursement will be as follows:

The Contractor will only be reimbursed 80 cents for each hour of on the job training as specified in the approved Training Program.

The Contractor is advised and encouraged that it may train additional persons in excess of the number specified and will be reimbursed as stated above. Reimbursement will be made even though the contractor receives additional training program funds from other sources, provided such other source does not specifically prohibit the contractor from receiving other reimbursement.

If less than full training specified in the approved training programs is provided, payment to the contractor will be made at a rate of 80 cents for each hour of training completed under this contract. However, no payment shall be made to the contractor if either the failure to provide the required training, or the failure to hire the trainee as a journeyworker, is caused by the contractor and evidences a lack of good faith on the part of the contractor in meeting the requirements of this Training Special Provision.

Payment

Trainees will be paid:

1. Percentage (%) of the journeyworker's rate as provided in the existing programs approved by the Department of Labor or Transportation as of September 15, 1970.
2. For journeyworker programs submitted by the Contractor and approved by Massachusetts Department Of Transportation and the Federal Highway Administration at least 60 percent of the appropriate minimum journeyworker's rate specified in the contract for the first half of the training period, 75 percent for the third quarter if the training period, and 90 percent for the last quarter of the training period.
3. For skilled laborer programs, the minimum starting wage rate of unskilled laborer. At the conclusion of training, he or she will be paid the minimum wage rate of the Classification for programs submitted by the Contractor and approved by the Massachusetts Department Of Transportation and the Federal Highway Administration.
4. For the purposes of meeting the legal requirements of State Prevailing Wage Law, please be advised that no person may be paid the Apprentice wage rate as listed on a MA Prevailing Wage Rates schedule, unless that person and program is registered with the Department of Labor Standards/Division of Apprentice Standards (DLS/DAS). Any person or program not registered with DLS/DAS, regardless of whether or not they are registered with any other federal, state, local, or private entity must be paid the journeyworker's rate for the trade.

The contractor shall provide each trainee with a certification showing the type and length of training satisfactorily complete.

The contractor will provide for the maintenance of records and furnish periodic reports documenting his performance under this Training Special Provision.

Form FHWA-1409, Federal-aid Highway Construction Contracting Semi Annual Training Report, shall be submitted as per instructions on the Form.

*** END OF DOCUMENT ***

DOCUMENT 00880

Revised January 12, 2022



DEPARTMENT OF LABOR

Employment Standards Administration

MINIMUM WAGES FOR FEDERAL AND FEDERALLY ASSISTED CONTRACTS

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"General Decision Number: MA20260019 05/18/2026

State: Massachusetts

Construction Types: Highway

Counties: Massachusetts Counties of
Hampden

Modification Number	Publication Date
0	01/02/2026
1	05/18/2026

ENGI0004-019 06/01/2025

Rates

Fringes

POWER EQUIPMENT OPERATOR GROUP 2 MILLING MACHINE;
PAVER (ASPHALT, AGGREGATE, AND CONCRETE) FOOTNOTE
FOR POWER EQUIPMENT OPERATORS: A. PAID HOLIDAYS:
NEW YEAR'S DAY, WASHINGTON'S BIRTHDAY, LABOR DAY,
MEMORIAL DAY, INDEPENDENCE DAY, PATRIOT'S DAY,
COLUMBUS DAY, VETERAN'S DAY, THANKSGIVING DAY,
CHRISTMAS DAY.....\$ 57.83
33.70

POWER EQUIPMENT OPERATOR GROUP 2 BULLDOZER;
GRADER/BLADE FOOTNOTE FOR POWER EQUIPMENT
OPERATORS: A. PAID HOLIDAYS: NEW YEAR'S DAY,
WASHINGTON'S BIRTHDAY, LABOR DAY, MEMORIAL DAY,
INDEPENDENCE DAY, PATRIOT'S DAY, COLUMBUS DAY,
VETERAN'S DAY, THANKSGIVING DAY, CHRISTMAS DAY.....\$ 57.83
33.70

POWER EQUIPMENT OPERATOR GROUP 1 BROOM/SWEEPER;
CRANE; GRADALL; POST DRIVER (GUARDRAIL/FENCES)
FOOTNOTE FOR POWER EQUIPMENT OPERATORS: A. PAID
HOLIDAYS: NEW YEAR'S DAY, WASHINGTON'S BIRTHDAY,
LABOR DAY, MEMORIAL DAY, INDEPENDENCE DAY,
PATRIOT'S DAY, COLUMBUS DAY, VETERAN'S DAY,
THANKSGIVING DAY, CHRISTMAS DAY.....\$ 57.18
33.70

POWER EQUIPMENT OPERATOR GROUP 1
BACKHOE/EXCAVATOR/TRACKHOE; BOBCAT/SKID STEER/SKID
LOADER; LOADER FOOTNOTE FOR POWER EQUIPMENT
OPERATORS: A. PAID HOLIDAYS: NEW YEAR'S DAY,
WASHINGTON'S BIRTHDAY, LABOR DAY, MEMORIAL DAY,
INDEPENDENCE DAY, PATRIOT'S DAY, COLUMBUS DAY,
VETERAN'S DAY, THANKSGIVING DAY, CHRISTMAS DAY.....\$ 57.18
33.70

ENGI0098-010 12/01/2024

Rates

Fringes
POWER EQUIPMENT OPERATOR GROUP 4 ROLLER FOOTNOTE
FOR POWER EQUIPMENT OPERATORS: A. PAID HOLIDAYS:
NEW YEAR'S DAY, WASHINGTON'S BIRTHDAY, LABOR DAY,
MEMORIAL DAY, INDEPENDENCE DAY, PATRIOT'S DAY,
COLUMBUS DAY, VETERAN'S DAY, THANKSGIVING DAY,
CHRISTMAS DAY.....\$ 39.12
31.04

IRON0007-027 09/16/2025

Rates

Fringes
IRONWORKER: ORNAMENTAL AND STRUCTURAL.....\$ 41.89
33.90

LABO0596-006 06/01/2025

Rates

Fringes
LABORER (TRAFFIC CONTROL: FLAGGER).....\$ 35.00
26.91

LABO0999-002 06/01/2025

Rates

Fringes
LABORER (COMMON OR GENERAL).....\$ 35.00
26.91

PAIN0035-023 07/01/2024

Rates

Fringes

PAINTER: STEEL.....\$ 56.76
36.00

SUMA2014-009 01/11/2017

Rates

Fringes

TRUCK DRIVER: FLATBED TRUCK.....\$ 48.53
0.00
TRUCK DRIVER: DUMP TRUCK.....\$ 43.81
5.39
TRUCK DRIVER: CONCRETE TRUCK.....\$ 33.69
15.79
TRAFFIC CONTROL: LABORER-CONES/
BARRICADES/BARRELS - SETTER/MOVER/SWEEPER.....\$ 43.73
15.06
PAINTER: SPRAY (LINESTRIPING).....\$ 38.30
17.43
OPERATOR: PILEDRIVER.....\$ 43.87
18.04
OPERATOR: MECHANIC.....\$ 48.14
17.02
OPERATOR: FORKLIFT.....\$ 51.63
0.00
LABORER: LANDSCAPE.....\$ 44.11
18.85
LABORER: CONCRETE SAW (HAND HELD/WALK BEHIND).....\$ 44.43
14.18
LABORER: ASPHALT, INCLUDES RAKER, SHOVELER,
SPREADER AND DISTRIBUTOR.....\$ 33.10
18.09
IRONWORKER, REINFORCING.....\$ 46.21
21.27
ELECTRICIAN.....\$ 47.13
13.41
CEMENT MASON/CONCRETE FINISHER.....\$ 52.13
20.89
CARPENTER, INCLUDES FORM WORK.....\$ 33.03
20.02

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.
=====

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year.

Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at

<https://www.dol.gov/agencies/whd/government-contracts>.

Note: Executive Order 13658 generally applies to contracts subject

to the Davis-Bacon Act that were awarded on or between January 1,

2015 and January 29, 2022, and that have not been renewed or extended on or after January 30, 2022. Executive Order 13658 does

not apply to contracts subject only to the Davis-Bacon Related Acts

regardless of when they were awarded. If a contract is subject to

Executive Order 13658, the contractor must pay all covered workers

at least \$13.65 per hour (or the applicable wage rate listed on this

wage determination, if it is higher) for all hours spent performing on

the contract from May 11, 2026, through December 31, 2026. The applicable Executive Order minimum wage rate will be adjusted annually.

Additional information on contractor requirements and worker protections under Executive Order 13658 is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

Union Rate Identifiers

A four-letter identifier beginning with characters other than **SU**, **JAVG**, **SA**, or **SC** denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE: UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

Survey Rate Identifiers

The **SU** identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

SU wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

State Adopted Rate Identifiers

The **SA** identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the **SA** identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

1) Has there been an initial decision in the matter? This can be:

- a) a survey underlying a wage determination
- b) an existing published wage determination
- c) an initial WHD letter setting forth a position on a wage determination matter
- d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to davisbaconinfo@dol.gov or by mail to:

Branch of Wage Surveys
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210.

=====

END OF GENERAL DECISION

"

"General Decision Number: MA20260010 05/18/2026

State: Massachusetts

Construction Types: Heavy

Counties: Massachusetts Counties of
Berkshire, Franklin, Hampden and
Hampshire

Heavy and Marine Construction Projects

Modification Number	Publication Date
0	01/02/2026
1	05/18/2026

BOIL0029-001 01/01/2025

Rates

Fringes
BOILERMAKER.....\$ 50.62
28.82

BRMA0001-005 08/01/2023

Rates

Fringes
BRICKLAYERS; CEMENT MASONS; PLASTERERS; STONE
MASONS; MARBLE, TILE & TERRAZZO WORKERS
(SPRINGFIELD CHAPTER).....\$ 50.81
32.27

BRMA0001-007 08/01/2023

Rates

Fringes
BRICKLAYER: BRICKLAYERS; CEMENT MASONS; PLASTERERS;
STONE MASONS; MARBLE, TILE & TERRAZZO WORKERS
(SPRINGFIELD/PITTSFIELD CHAPTER BERKSHIRE COUNTY)..\$ 50.81
32.27

CARP0056-004 08/01/2024

Rates

Fringes

DIVER TENDER.....\$ 61.70

35.47

DIVER.....\$ 78.11

35.47

CARP0056-009 08/01/2024

Rates

Fringes

PILEDRIVERMAN.....\$ 51.97

35.47

CARP0336-005 09/01/2025

Rates

Fringes

CARPENTER (FRANKLIN COUNTY (ERVING, ORANGE, NORTH
ORANGE, AND WARWICK)).....\$ 43.33

27.82

CARP0336-010 09/01/2025

Rates

Fringes

CARPENTER (BERKSHIRE).....\$ 43.33

27.82

CARP0336-012 09/01/2025

Rates

Fringes

CARPENTER (HAMPDEN; HAMPSHIRE; AND FRANKLIN
(REMAINDER OF COUNTY)).....\$ 43.33

27.82

CARP1121-004 04/21/2025

Rates

Fringes

MILLWRIGHT.....\$ 43.42

33.00

ELEC0007-002 06/29/2025

Rates

Fringes

ELECTRICIAN (HAMPDEN (EXCEPT CHESTER & HOLYOKE);
HAMPSHIRE (BELCHERTOWN, WARE)).....\$ 52.16
29.56

ELEC0007-003 06/29/2025

Rates

Fringes

ELECTRICIAN (BERKSHIRE; FRANKLIN; HAMPDEN (CHESTER,
HOLYOKE); HAMPSHIRE (EXCEPT BELCHERTOWN, WARE)).....\$ 52.16
29.56

ENGI0098-007 12/01/2024

Rates

Fringes

POWER EQUIPMENT OPERATORS: GROUP 15 BOOM LENGTHS
OVER 350 FEET INCLUDING JIB HAZARDOUS WASTE
PREMIUM \$2.00 FOOTNOTE FOR POWER EQUIPMENT
OPERATORS: A. PAID HOLIDAYS: NEW YEAR'S DAY,
WASHINGTON'S BIRTHDAY, MEMORIAL DAY, INDEPENDENCE
DAY, LABOR DAY, COLUMBUS DAY, VETERANS DAY,
THANKSGIVING DAY AND CHRISTMAS DAY.....\$ 52.38
31.04

POWER EQUIPMENT OPERATORS: GROUP 14 BOOM LENGTHS
OVER 300 FEET INCLUDING JIB HAZARDOUS WASTE
PREMIUM \$2.00 FOOTNOTE FOR POWER EQUIPMENT
OPERATORS: A. PAID HOLIDAYS: NEW YEAR'S DAY,
WASHINGTON'S BIRTHDAY, MEMORIAL DAY, INDEPENDENCE
DAY, LABOR DAY, COLUMBUS DAY, VETERANS DAY,
THANKSGIVING DAY AND CHRISTMAS DAY.....\$ 50.88
31.04

POWER EQUIPMENT OPERATORS: GROUP 13 BOOM LENGTHS
OVER 250 FEET INCLUDING JIB HAZARDOUS WASTE
PREMIUM \$2.00 FOOTNOTE FOR POWER EQUIPMENT
OPERATORS: A. PAID HOLIDAYS: NEW YEAR'S DAY,
WASHINGTON'S BIRTHDAY, MEMORIAL DAY, INDEPENDENCE
DAY, LABOR DAY, COLUMBUS DAY, VETERANS DAY,
THANKSGIVING DAY AND CHRISTMAS DAY.....\$ 49.88
31.04

POWER EQUIPMENT OPERATORS: GROUP 12 BOOM LENGTHS
OVER 200 FEET INCLUDING JIB HAZARDOUS WASTE
PREMIUM \$2.00 FOOTNOTE FOR POWER EQUIPMENT

OPERATORS: A. PAID HOLIDAYS: NEW YEAR'S DAY,
WASHINGTON'S BIRTHDAY, MEMORIAL DAY, INDEPENDENCE
DAY, LABOR DAY, COLUMBUS DAY, VETERANS DAY,
THANKSGIVING DAY AND CHRISTMAS DAY.....\$ 48.88

31.04

POWER EQUIPMENT OPERATORS: GROUP 11 BOOM LENGTHS
OVER 150 FEET INCLUDING JIB HAZARDOUS WASTE
PREMIUM \$2.00 FOOTNOTE FOR POWER EQUIPMENT

OPERATORS: A. PAID HOLIDAYS: NEW YEAR'S DAY,
WASHINGTON'S BIRTHDAY, MEMORIAL DAY, INDEPENDENCE
DAY, LABOR DAY, COLUMBUS DAY, VETERANS DAY,
THANKSGIVING DAY AND CHRISTMAS DAY.....\$ 47.38

31.04

POWER EQUIPMENT OPERATORS: GROUP 10 MASTER MECHANIC
HAZARDOUS WASTE PREMIUM \$2.00 FOOTNOTE FOR POWER

EQUIPMENT OPERATORS: A. PAID HOLIDAYS: NEW
YEAR'S DAY, WASHINGTON'S BIRTHDAY, MEMORIAL DAY,
INDEPENDENCE DAY, LABOR DAY, COLUMBUS DAY, VETERANS
DAY, THANKSGIVING DAY AND CHRISTMAS DAY.....\$ 46.38

31.04

POWER EQUIPMENT OPERATORS: GROUP 9 OILER
HAZARDOUS WASTE PREMIUM \$2.00 FOOTNOTE FOR POWER

EQUIPMENT OPERATORS: A. PAID HOLIDAYS: NEW
YEAR'S DAY, WASHINGTON'S BIRTHDAY, MEMORIAL DAY,
INDEPENDENCE DAY, LABOR DAY, COLUMBUS DAY, VETERANS
DAY, THANKSGIVING DAY AND CHRISTMAS DAY.....\$ 44.37

31.04

POWER EQUIPMENT OPERATORS: GROUP 8 TRUCK CRANE
CREWS HAZARDOUS WASTE PREMIUM \$2.00 FOOTNOTE FOR

POWER EQUIPMENT OPERATORS: A. PAID HOLIDAYS:
NEW YEAR'S DAY, WASHINGTON'S BIRTHDAY, MEMORIAL
DAY, INDEPENDENCE DAY, LABOR DAY, COLUMBUS DAY,
VETERANS DAY, THANKSGIVING DAY AND CHRISTMAS DAY....\$ 44.06

31.04

POWER EQUIPMENT OPERATORS: GROUP 7 COMPRESSORS UP
TO 315 CU FT; SMALL MIXERS WITH SKIP; PUMPS UP TO 4
INCHES; POWER HEATERS; OILER; A-FRAME TRUCKS;

FORKLIFTS-UP TO 7 FT. LIFT AND UP TO 3 TON
CAPACITY; HYDRO BROOM; STUD WELDER. HAZARDOUS
WASTE PREMIUM \$2.00 FOOTNOTE FOR POWER EQUIPMENT
OPERATORS: A. PAID HOLIDAYS: NEW YEAR'S DAY,
WASHINGTON'S BIRTHDAY, MEMORIAL DAY, INDEPENDENCE
DAY, LABOR DAY, COLUMBUS DAY, VETERANS DAY,
THANKSGIVING DAY AND CHRISTMAS DAY.....\$ 54.38

31.04

POWER EQUIPMENT OPERATORS: GROUP 6 COMPRESSOR (ONE OR TWO) 315 CU FT TO 900 CU FT; PUMPS 4 INCHES TO 16 INCHES (TOTAL DISCHARGE). HAZARDOUS WASTE PREMIUM \$2.00 FOOTNOTE FOR POWER EQUIPMENT OPERATORS: A. PAID HOLIDAYS: NEW YEAR'S DAY, WASHINGTON'S BIRTHDAY, MEMORIAL DAY, INDEPENDENCE DAY, LABOR DAY, COLUMBUS DAY, VETERANS DAY, THANKSGIVING DAY AND CHRISTMAS DAY.....\$ 36.06
31.04

POWER EQUIPMENT OPERATORS: GROUP 5 HOISTS; CONVEYORS; POWER PAVEMENT BREAKERS; SELF-POWERED CONCRETE PAVEMENT FINISHING MACHINES; TWO BAG MIXERS WITH SKIP; MCCARTHY AND SIMILAR DRILLS; BATCH PLANTS (NOT SELF LOADING); BULK CEMENT PLANTS; SELF-PROPELLED MATERIAL SPREADERS; THREE OR MORE 10 KW LIGHT PLANTS; 30 KW OR MORE GENERATORS; POWER BROOM. HAZARDOUS WASTE PREMIUM \$2.00 FOOTNOTE FOR POWER EQUIPMENT OPERATORS: A. PAID HOLIDAYS: NEW YEAR'S DAY, WASHINGTON'S BIRTHDAY, MEMORIAL DAY, INDEPENDENCE DAY, LABOR DAY, COLUMBUS DAY, VETERANS DAY, THANKSGIVING DAY AND CHRISTMAS DAY.....\$ 38.00
31.04

POWER EQUIPMENT OPERATORS: GROUP 4 ASPHALT ROLLERS; SELF-POWERED ROLLERS AND COMPACTORS; TRACTOR WITHOUT BLADE DRAWING SHEEPSFOOT ROLLER; RUBBER TIRE ROLLER; VIBRATORY ROLLER OR OTHER TYPE OF COMPACTORS INCLUDING MACHINES FOR PULVERIZING AND AERATING SOIL; YORK RAKE. HAZARDOUS WASTE PREMIUM \$2.00 FOOTNOTE FOR POWER EQUIPMENT OPERATORS: A. PAID HOLIDAYS: NEW YEAR'S DAY, WASHINGTON'S BIRTHDAY, MEMORIAL DAY, INDEPENDENCE DAY, LABOR DAY, COLUMBUS DAY, VETERANS DAY, THANKSGIVING DAY AND CHRISTMAS DAY.....\$ 39.12
31.04

POWER EQUIPMENT OPERATORS: GROUP 3 COMBINATION BACKHOE/LOADER UP TO 3/4 CU YD; SCRAPERS UP TO 21 CU YD (STRUCK LOAD, SELF PROPELLED OR TRACTOR DRAWN); TIREMAN; FRONT END LOADERS UP TO 4 YDS; WELL DRILLERS; ENGINEER OR FIREMAN ON HIGH PRESSURE BOILER; SELF-LOADING BATCH PLANT; WELL POINT OPERATORS ELECTRIC PUMPS USED IN WELL POINT SYSTEM; PUMPS, 16 INCHES AND OVER (TOTAL DISCHARGE); COMPRESSOR, ONE OR TWO 900 CU FT AND OVER; POWERED GREASE TRUCK; TUNNEL LOCOMOTIVES AND DINGYS; GROUT PUMPS; HYDRAULIC JACKS; BOOM TRUCK; HYDRAULIC

CRANES- UP TO 10 TON. HAZARDOUS WASTE PREMIUM
\$2.00 FOOTNOTE FOR POWER EQUIPMENT OPERATORS:
A. PAID HOLIDAYS: NEW YEAR'S DAY, WASHINGTON'S
BIRTHDAY, MEMORIAL DAY, INDEPENDENCE DAY, LABOR
DAY, COLUMBUS DAY, VETERANS DAY, THANKSGIVING DAY
AND CHRISTMAS DAY.....\$ 42.35
31.04

POWER EQUIPMENT OPERATORS: GROUP 2 ROTARY DRILL
WITH MOUNTED COMPRESSOR; COMPRESSOR HOUSE (3 TO 6
COMPRESSORS); ROCK AND EARTH BORING MACHINES
(EXCLUDING MCCARTHY AND SIMILAR DRILLS); FRONT END
LOADERS 4 CU YDS TO 5 1/2 CU YDS); FORKLIFTS-7 FT
LIFT AND OVER 3 TON CAPACITY; SCRAPER 21 YDS AND
OVER (STRUCK LOAD); SONIC HAMMER CONSOLE;
RECLAIMERS ROAD PLANER/MILLING MACHINE; CAL TRACKS;
BALLAST REGULATORS; RAIL ANCHOR MACHINES; SWITCH
TAMPERS, ASPHALT PAVERS; MECHANIC; WELDER AND
TRANSFER MACHINE. HAZARDOUS WASTE PREMIUM \$2.00
FOOTNOTE FOR POWER EQUIPMENT OPERATORS: A. PAID
HOLIDAYS: NEW YEAR'S DAY, WASHINGTON'S BIRTHDAY,
MEMORIAL DAY, INDEPENDENCE DAY, LABOR DAY, COLUMBUS
DAY, VETERANS DAY, THANKSGIVING DAY AND CHRISTMAS
DAY.....\$ 42.57
31.04

POWER EQUIPMENT OPERATORS: GROUP 1 SHOVELS;
CRAWLERS AND TRUCK CRANES INCLUDING ALL TOWER;
SELF-PROPELLED HYDRAULIC CRANES 10 TONS AND OVER;
DRAGLINES; CLAM SHELLS; CABLEWAYS; SHAFT HOISTS;
MUCKING MACHINES DERRICKS; BACKHOES; BULLDOZERS;
GRADALLS; ELEVATING GRADERS; PILE DRIVERS; CONCRETE
PAVERS; TRENCHING MACHINES; FRONT END LOADERS- 5
1/2 CU YDS AND OVER; DUAL DRUM PAVER; AUTOMATIC
GRADER-EXCAVATOR(C.M.I. OR EQUAL); SCRAPERS TOWING
PAN OR WAGON; TANDEM DOZERS OR PUSH CATS(2 UNITS IN
TANDEM); SHOTCRETE MACHINE; TUNNEL BORING MACHINE;
COMBINATION BACKHOE/LOADER 3/4 CU YD HOE OR OVER;
JET ENGINE DRYER; TREE SHREDDER; POST HOLE DIGGER;
POST HOLE HAMMER; POST EXTRACTOR; TRUCK MOUNTED
CONCRETE PUMP WITH BOOM; ROTO-MILL; GRADER;
HORIZONTAL DRILLING MACHINE; JOHN HENRY ROCK DRILL
AND SIMILAR EQUIPMENT. HAZARDOUS WASTE PREMIUM
\$2.00 FOOTNOTE FOR POWER EQUIPMENT OPERATORS:
A. PAID HOLIDAYS: NEW YEAR'S DAY, WASHINGTON'S
BIRTHDAY, MEMORIAL DAY, INDEPENDENCE DAY, LABOR
DAY, COLUMBUS DAY, VETERANS DAY, THANKSGIVING DAY
AND CHRISTMAS DAY.....\$ 42.88
31.04

IRON0007-014 09/16/2025

Rates

Fringes

IRONWORKER (BERKSHIRE (BECKET, EAST OTIS, HINSDALE,
MONTEREY, NEW MARLBORO, NORTH OTIS, OTIS, PERU,
SANDISFIELD, SAVOY, SHEFFIELD, WASHINGTON,
WINDSOR); FRANKLIN; HAMPDEN; HAMPSHIRE).....\$ 41.89
33.90

IRON0012-003 07/01/2025

Rates

Fringes

IRONWORKER (BERKSHIRE (LEE)).....\$ 40.75
31.91

IRON0012-004 07/01/2025

Rates

Fringes

IRONWORKERS: STRUCTURAL, ORNAMENTAL, REINFORCING,
FENCE ERECTOR, MACHINERY MOVER, RIGGER, RODMAN,
STONE DERRICKMAN (BERKSHIRE (REMAINDER OF COUNTY))..\$ 40.75
31.91
IRONWORKERS: SHEETER (BERKSHIRE (REMAINDER OF
COUNTY)).....\$ 41.00
31.91

LABO0022-002 12/01/2024

Rates

Fringes

LABORERS: GROUP 6 ASBESTOS ABATEMENT, TOXIC AND
HAZARDOUS WASTE LABORERS (FRANKLIN (ORANGE,
WARWICK)).....\$ 40.95
29.70
LABORERS: GROUP 5 PRECAST FLOOR AND ROOF, PLANK
ERECTOR (FRANKLIN (ORANGE, WARWICK)).....\$ 39.70
29.70
LABORERS: GROUP 4 BLASTER; POWDERMAN (FRANKLIN
(ORANGE, WARWICK)).....\$ 39.95
29.70
LABORERS: GROUP 3 AIR TRACK OPERATOR; BLOCK PAVER;
RAMMER; CURB SETTER, HYDRAULIC AND SIMILAR
SELF-POWERED DRILLS (FRANKLIN (ORANGE, WARWICK))....\$ 39.70
29.70

LABORERS: GROUP 2 ASPHALT RAKER; FENCE AND GUARD
RAIL ERECTOR; LASER BEAM OPERATOR; MASON TENDERS;
PIPELAYER; PNEUMATIC DRILL OPERATOR; PNEUMATIC TOOL
OPERATOR; WAGON DRILL OPERATOR JACKHAMMER
OPERATOR, PAVEMENT BREAKER, CARBIDE CORE DRILLING
MACHINE, CHAIN SAW OPERATOR, BARCO TYPE JUMPING
TAMPERS, CONCRETE PUMP, MOTORIZED MORTAR MINER,
RIDE-ON MOTORIZED BUGGY (FRANKLIN (ORANGE,
WARWICK))\$ 39.20

29.70

LABORERS: GROUP 1 LABORERS; CARPENTER TENDERS;
CEMENT FINISHER TENDERS, PLASTERER TENDERS
(FRANKLIN (ORANGE, WARWICK))\$ 38.95

29.70

LABO0473-005 12/01/2024

Rates

Fringes

LABORERS: GROUP 6 ASBESTOS ABATEMENT, TOXIC AND
HAZARDOUS WASTE LABORERS (FRANKLIN (EXCEPT ORANGE
AND WARRICK); HAMPDEN AND HAMPSHIRE COUNTIES (WITH
THE EXCEPTION OF CHESTERFIELD, CUMMINGTON, GOSHEN,
MIDDLEFIELD, PLAINFIELD, AND WORTHINGTON))\$ 35.00

29.70

LABORERS: GROUP 5 FLAGGERS (FRANKLIN (EXCEPT
ORANGE AND WARRICK); HAMPDEN AND HAMPSHIRE COUNTIES
(WITH THE EXCEPTION OF CHESTERFIELD, CUMMINGTON,
GOSHEN, MIDDLEFIELD, PLAINFIELD, AND WORTHINGTON)) ..\$ 27.01

29.70

LABORERS: GROUP 4 BLASTERS, POWDERMEN (FRANKLIN
(EXCEPT ORANGE AND WARRICK); HAMPDEN AND HAMPSHIRE
COUNTIES (WITH THE EXCEPTION OF CHESTERFIELD,
CUMMINGTON, GOSHEN, MIDDLEFIELD, PLAINFIELD, AND
WORTHINGTON))\$ 35.00

29.70

LABORERS: GROUP 3 AIR TRACK OPERATOR, BLOCK PAVERS,
RAMMERS, CURB SETTERS (FRANKLIN (EXCEPT ORANGE AND
WARRICK); HAMPDEN AND HAMPSHIRE COUNTIES (WITH THE
EXCEPTION OF CHESTERFIELD, CUMMINGTON, GOSHEN,
MIDDLEFIELD, PLAINFIELD, AND WORTHINGTON))\$ 35.00

29.70

LABORERS: GROUP 2 ASPHALT RAKERS, FENCE AND GUARD
RAIL ERECTORS, LASER BEAM OPERATOR, MASON TENDER,
PIPELAYER, PNEUMATIC DRILL OPERATOR, PNEUMATIC TOOL
OPERATOR, WAGON DRILL OPERATOR (FRANKLIN (EXCEPT
ORANGE AND WARRICK); HAMPDEN AND HAMPSHIRE COUNTIES
(WITH THE EXCEPTION OF CHESTERFIELD, CUMMINGTON,
GOSHEN, MIDDLEFIELD, PLAINFIELD, AND WORTHINGTON)) ..\$ 35.00
29.70

LABORERS: GROUP 1 CARPENTER TENDERS, CEMENT
FINISHER TENDERS, LABORERS, WRECKING LABORERS
(FRANKLIN (EXCEPT ORANGE AND WARRICK); HAMPDEN AND
HAMPSHIRE COUNTIES (WITH THE EXCEPTION OF
CHESTERFIELD, CUMMINGTON, GOSHEN, MIDDLEFIELD,
PLAINFIELD, AND WORTHINGTON))\$ 35.00
29.70

LABO0473-006 12/01/2024

Rates

Fringes

LABORERS: GROUP 6 ASBESTOS ABATEMENT, TOXIC AND
HAZARDOUS WASTE LABORERS (BERKSHIRE; HAMPSHIRE
COUNTIES (THE TOWNS OF CHESTERFIELD, CUMMINGTON,
GOSHEN, MIDDLEFIELD, PLAINFIELD, AND WORTHINGTON
ONLY))\$ 33.99
26.65

LABORERS: GROUP 5 FLAGGERS (BERKSHIRE; HAMPSHIRE
COUNTIES (THE TOWNS OF CHESTERFIELD, CUMMINGTON,
GOSHEN, MIDDLEFIELD, PLAINFIELD, AND WORTHINGTON
ONLY))\$ 27.01
26.65

LABORERS: GROUP 4 BLASTERS, POWDERMEN (BERKSHIRE;
HAMPSHIRE COUNTIES (THE TOWNS OF CHESTERFIELD,
CUMMINGTON, GOSHEN, MIDDLEFIELD, PLAINFIELD, AND
WORTHINGTON ONLY))\$ 33.99
26.65

LABORERS: GROUP 3 AIR TRACK OPERATOR, BLOCK PAVERS,
RAMMERS, CURB SETTERS (BERKSHIRE; HAMPSHIRE
COUNTIES (THE TOWNS OF CHESTERFIELD, CUMMINGTON,
GOSHEN, MIDDLEFIELD, PLAINFIELD, AND WORTHINGTON
ONLY))\$ 33.99
26.65

LABORERS: GROUP 2 ASPHALT RAKERS, FENCE AND GUARD
RAIL ERECTORS, LASER BEAM OPERATOR, MASON TENDER,
PIPELAYER, PNEUMATIC DRILL OPERATOR, PNEUMATIC TOOL

OPERATOR, WAGON DRILL OPERATOR (BERKSHIRE;
HAMPSHIRE COUNTIES (THE TOWNS OF CHESTERFIELD,
CUMMINGTON, GOSHEN, MIDDLEFIELD, PLAINFIELD, AND
WORTHINGTON ONLY))\$ 33.99
26.65

LABORERS: GROUP 1 CARPENTER TENDERS, CEMENT
FINISHER TENDERS, LABORERS, WRECKING LABORERS
(BERKSHIRE; HAMPSHIRE COUNTIES (THE TOWNS OF
CHESTERFIELD, CUMMINGTON, GOSHEN, MIDDLEFIELD,
PLAINFIELD, AND WORTHINGTON ONLY))\$ 33.99
26.65

LABO1421-002 12/02/2024

Rates

Fringes

LABORERS: GROUP 6 ASBESTOS, LEAD PAINT, TOXIC AND
HAZARDOUS WASTE.....\$ 46.25
29.70

LABORERS: GROUP 5 YARDMAN, BURNERS, SAWYERS.....\$ 45.35
29.70

LABORERS: GROUP 4 YARDMAN (SALVAGE YARD ONLY).....\$ 42.25
29.70

LABORERS: GROUP 3 SMALL BACKHOES, LOADERS ON
TRACKS, BOBCAT TYPE LOADERS, HYDRAULIC "BROCK" TYPE
HAMMER OPERATORS, CONCRETE CUTTING SAWS.....\$ 47.25
29.70

LABORERS: GROUP 2 BURNERS, JACKHAMMERS.....\$ 47.00
29.70

LABORERS: GROUP 1 ADZEMAN, WRECKING LABORER.....\$ 46.25
29.70

PAIN0035-010 07/01/2024

Rates

Fringes

PAINTER: SPRAY, SANDBLAST (NEW CONSTRUCTION).....\$ 39.48
31.85

PAINTER: BRUSH, TAPER (NEW CONSTRUCTION).....\$ 38.78
31.85

PAINTER REPAINT: SPRAY, SANDBLAST.....\$ 36.80
31.85

PAINTER REPAINT: BRUSH, TAPER.....\$ 35.40
31.85

PAINTER REPAINT: BRIDGE.....\$ 56.76
31.85

PLUM0004-003 09/01/2025

Rates

Fringes

PLUMBER AND STEAMFITTER (FRANKLIN (ORANGE)).....\$ 55.00
31.57

PLUM0104-004 09/17/2025

Rates

Fringes

PLUMBERS AND PIPEFITTERS (BERKSHIRE (BECKET, OTIS,
SANDISFIELD); FRANKLIN (EXCEPT MONROE, ROWE, AND
THE WESTERN PART OF CHARLEMONT); HAMPDEN;
HAMPSHIRE).....\$ 52.26
31.05

PLUM0104-009 09/17/2025

Rates

Fringes

PLUMBER AND STEAMFITTER (BERKSHIRE (EXCEPT OTIS,
BECKET, SANDISFIELD); FRANKLIN (MONROE, ROWE AND
THE WESTERN PART OF CHARLEMONT)).....\$ 52.26
31.05

TEAM0379-001 06/01/2025

Rates

Fringes

TRUCK DRIVERS: GROUP 7 TRAILERS FOR EARTH MOVING
EQUIPMENT (DOUBLE HOOKUP) POWER TRUCKS \$.25
DIFFERENTIAL BY AXLE TUNNEL WORK (UNDERGROUND
ONLY) \$.40 DIFFERENTIAL BY AXLE HAZARDOUS
MATERIALS (IN HOT ZONE ONLY) \$2.00 PREMIUM
FOOTNOTES: A. PAID HOLIDAYS: NEW YEAR'S DAY,
WASHINGTON'S BIRTHDAY, MEMORIAL DAY, INDEPENDENCE
DAY, LABOR DAY, PATRIOT'S DAY, COLUMBUS DAY,
VETERAN'S DAY, THANKSGIVING DAY AND CHRISTMAS DAY
B. PAID VACATION: EMPLOYEES WITH 4 MONTHS TO 1
YEAR OF SERVICE RECEIVE 1/2 DAY'S PAY PER MONTH; 1
WEEK VACATION FOR 1 - 5 YEARS OF SERVICE; 2 WEEKS
VACATION FOR 5 - 10 YEARS OF SERVICE; AND 3 WEEKS
VACATION FOR MORE THAN 10 YEARS OF SERVICE.....\$ 41.82
37.35
TRUCK DRIVERS: GROUP 6 SPECIALIZED EARTH MOVING
EQUIPMENT OVER 35 TONS POWER TRUCKS \$.25
DIFFERENTIAL BY AXLE TUNNEL WORK (UNDERGROUND

ONLY) \$.40 DIFFERENTIAL BY AXLE HAZARDOUS
MATERIALS (IN HOT ZONE ONLY) \$2.00 PREMIUM

FOOTNOTES: A. PAID HOLIDAYS: NEW YEAR'S DAY,
WASHINGTON'S BIRTHDAY, MEMORIAL DAY, INDEPENDENCE
DAY, LABOR DAY, PATRIOT'S DAY, COLUMBUS DAY,
VETERAN'S DAY, THANKSGIVING DAY AND CHRISTMAS DAY
B. PAID VACATION: EMPLOYEES WITH 4 MONTHS TO 1
YEAR OF SERVICE RECEIVE 1/2 DAY'S PAY PER MONTH; 1
WEEK VACATION FOR 1 - 5 YEARS OF SERVICE; 2 WEEKS
VACATION FOR 5 - 10 YEARS OF SERVICE; AND 3 WEEKS
VACATION FOR MORE THAN 10 YEARS OF SERVICE.....\$ 41.53
37.35

TRUCK DRIVERS: GROUP 5 SPECIALIZED EARTH MOVING
EQUIPMENT UNDER 35 TONS OTHER THAN CONVENTIONAL
TYPE TRUCKS; LOW BED; VACHUAL; MECHANICS, PAVING
RESTORATION EQUIPMENT POWER TRUCKS \$.25

DIFFERENTIAL BY AXLE TUNNEL WORK (UNDERGROUND
ONLY) \$.40 DIFFERENTIAL BY AXLE HAZARDOUS
MATERIALS (IN HOT ZONE ONLY) \$2.00 PREMIUM
FOOTNOTES: A. PAID HOLIDAYS: NEW YEAR'S DAY,
WASHINGTON'S BIRTHDAY, MEMORIAL DAY, INDEPENDENCE
DAY, LABOR DAY, PATRIOT'S DAY, COLUMBUS DAY,
VETERAN'S DAY, THANKSGIVING DAY AND CHRISTMAS DAY
B. PAID VACATION: EMPLOYEES WITH 4 MONTHS TO 1
YEAR OF SERVICE RECEIVE 1/2 DAY'S PAY PER MONTH; 1
WEEK VACATION FOR 1 - 5 YEARS OF SERVICE; 2 WEEKS
VACATION FOR 5 - 10 YEARS OF SERVICE; AND 3 WEEKS
VACATION FOR MORE THAN 10 YEARS OF SERVICE.....\$ 41.24
37.35

TRUCK DRIVERS: GROUP 4 FOUR AND FIVE AXLE EQUIPMENT
POWER TRUCKS \$.25 DIFFERENTIAL BY AXLE TUNNEL
WORK (UNDERGROUND ONLY) \$.40 DIFFERENTIAL BY AXLE
HAZARDOUS MATERIALS (IN HOT ZONE ONLY) \$2.00

PREMIUM FOOTNOTES: A. PAID HOLIDAYS: NEW
YEAR'S DAY, WASHINGTON'S BIRTHDAY, MEMORIAL DAY,
INDEPENDENCE DAY, LABOR DAY, PATRIOT'S DAY,
COLUMBUS DAY, VETERAN'S DAY, THANKSGIVING DAY AND
CHRISTMAS DAY B. PAID VACATION: EMPLOYEES
WITH 4 MONTHS TO 1 YEAR OF SERVICE RECEIVE 1/2
DAY'S PAY PER MONTH; 1 WEEK VACATION FOR 1 - 5
YEARS OF SERVICE; 2 WEEKS VACATION FOR 5 - 10 YEARS
OF SERVICE; AND 3 WEEKS VACATION FOR MORE THAN 10
YEARS OF SERVICE.....\$ 41.14
37.35

TRUCK DRIVERS: GROUP 3 THREE AXLE EQUIPMENT AND
TIREMAN POWER TRUCKS \$.25 DIFFERENTIAL BY AXLE
TUNNEL WORK (UNDERGROUND ONLY) \$.40 DIFFERENTIAL BY
AXLE HAZARDOUS MATERIALS (IN HOT ZONE ONLY) \$2.00
PREMIUM FOOTNOTES: A. PAID HOLIDAYS: NEW
YEAR'S DAY, WASHINGTON'S BIRTHDAY, MEMORIAL DAY,
INDEPENDENCE DAY, LABOR DAY, PATRIOT'S DAY,
COLUMBUS DAY, VETERAN'S DAY, THANKSGIVING DAY AND
CHRISTMAS DAY B. PAID VACATION: EMPLOYEES
WITH 4 MONTHS TO 1 YEAR OF SERVICE RECEIVE 1/2
DAY'S PAY PER MONTH; 1 WEEK VACATION FOR 1 - 5
YEARS OF SERVICE; 2 WEEKS VACATION FOR 5 - 10 YEARS
OF SERVICE; AND 3 WEEKS VACATION FOR MORE THAN 10
YEARS OF SERVICE.....\$ 41.02
37.35

TRUCK DRIVERS: GROUP 2 TWO AXLE EQUIPMENT; &
FORKLIFT OPERATOR POWER TRUCKS \$.25 DIFFERENTIAL
BY AXLE TUNNEL WORK (UNDERGROUND ONLY) \$.40
DIFFERENTIAL BY AXLE HAZARDOUS MATERIALS (IN HOT
ZONE ONLY) \$2.00 PREMIUM FOOTNOTES: A.
PAID HOLIDAYS: NEW YEAR'S DAY, WASHINGTON'S
BIRTHDAY, MEMORIAL DAY, INDEPENDENCE DAY, LABOR
DAY, PATRIOT'S DAY, COLUMBUS DAY, VETERAN'S DAY,
THANKSGIVING DAY AND CHRISTMAS DAY B. PAID
VACATION: EMPLOYEES WITH 4 MONTHS TO 1 YEAR OF
SERVICE RECEIVE 1/2 DAY'S PAY PER MONTH; 1 WEEK
VACATION FOR 1 - 5 YEARS OF SERVICE; 2 WEEKS
VACATION FOR 5 - 10 YEARS OF SERVICE; AND 3 WEEKS
VACATION FOR MORE THAN 10 YEARS OF SERVICE.....\$ 40.95
37.35

TRUCK DRIVERS: GROUP 1 STATION WAGONS; PANEL
TRUCKS; AND PICKUP TRUCKS POWER TRUCKS \$.25
DIFFERENTIAL BY AXLE TUNNEL WORK (UNDERGROUND
ONLY) \$.40 DIFFERENTIAL BY AXLE HAZARDOUS
MATERIALS (IN HOT ZONE ONLY) \$2.00 PREMIUM
FOOTNOTES: A. PAID HOLIDAYS: NEW YEAR'S DAY,
WASHINGTON'S BIRTHDAY, MEMORIAL DAY, INDEPENDENCE
DAY, LABOR DAY, PATRIOT'S DAY, COLUMBUS DAY,
VETERAN'S DAY, THANKSGIVING DAY AND CHRISTMAS DAY
B. PAID VACATION: EMPLOYEES WITH 4 MONTHS TO 1
YEAR OF SERVICE RECEIVE 1/2 DAY'S PAY PER MONTH; 1
WEEK VACATION FOR 1 - 5 YEARS OF SERVICE; 2 WEEKS
VACATION FOR 5 - 10 YEARS OF SERVICE; AND 3 WEEKS
VACATION FOR MORE THAN 10 YEARS OF SERVICE.....\$ 40.78
37.35

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Note: Executive Order 13658 generally applies to contracts subject to the Davis-Bacon Act that were awarded on or between January 1, 2015 and January 29, 2022, and that have not been renewed or extended on or after January 30, 2022. Executive Order 13658 does not apply to contracts subject only to the Davis-Bacon Related Acts regardless of when they were awarded. If a contract is subject to Executive Order 13658, the contractor must pay all covered workers at least \$13.65 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract from May 11, 2026, through December 31, 2026. The applicable Executive Order minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under Executive Order 13658 is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

Union Rate Identifiers

A four-letter identifier beginning with characters other than **SU**, **JAVG**, **SA**, or **SC** denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE: UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

Survey Rate Identifiers

The **SU** identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

SU wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

State Adopted Rate Identifiers

The **SA** identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the **SA** identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

1) Has there been an initial decision in the matter? This can be:

- a) a survey underlying a wage determination
- b) an existing published wage determination
- c) an initial WHD letter setting forth a position on a wage determination matter
- d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to davisbaconinfo@dol.gov or by mail to:

Branch of Wage Surveys
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210.

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END OF GENERAL DECISION

"

"General Decision Number: MA20260006 05/18/2026

State: Massachusetts

Construction Types: Heavy

Counties: Massachusetts Counties of
Barnstable, Berkshire, Bristol, Dukes,
Essex, Franklin, Hampden, Hampshire,
Middlesex, Nantucket, Norfolk, Plymouth,
Suffolk and Worcester

Massachusetts All Dredging, except self-propelled hopper
dredges, on the Atlantic Coast & tributary waters emptying into
the Atlantic Ocean

Modification Number	Publication Date
1	01/30/2026
2	05/18/2026

ENGI0025-001 10/01/2025

Rates

Fringes

DREDGING: CLASS D: OILER, DECKHAND, SHOREMAN,
RODMAN, SCOWMAN, COOK, MESSMAN, PORTER/JANITOR.

INCENTIVE PAY: (ADD TO HOURLY RATE) OPERATOR
(NCCCO LICENSE/CERTIFICATION) \$1.80 LICENSED TUG
OPERATOR OVER 1000 HP (ASSIGNED AS MASTER) (USCG
LICENSED MASTER OF TOWING VESSELS (MOTV) \$1.80;
LICENSED BOAT OPERATOR (ASSIGNED AS LEAD BOAT
CAPTAIN) USCG LICENSED BOAT OPERATOR \$1.30;
ENGINEER (QMED AND TANKERMAN ENDORSEMENT OR
LICENSED ENGINEER (USCG) \$1.80 OILER (QMED AND
TANKERMAN ENDORSEMENT (USCG) \$1.80; ALL
CLASSIFICATIONS (TANKERMAN ENDORSEMENT ONLY) USCG
\$1.55; DECKHAND OR MATE (AB WITH LIFEBOATMAN
ENDORSEMENT (USCG) \$1.80; ALL CLASSIFICATIONS
(LIFEBOATMAN ENDORSEMENT ONLY (USCG) \$1.55; WELDER
(ABS CERTIFICATION) \$1.55 FOOTNOTES APPLICABLE

TO ABOVE CRAFTS: A. PAID HOLIDAYS: NEW YEAR'S DAY, MARTIN LUTHER KING, JR.'S BIRTHDAY, MEMORIAL DAY, GOOD FRIDAY, INDEPENDENCE DAY, LABOR DAY, VETERANS' DAY, THANKSGIVING DAY AND CHRISTMAS DAY
B. VACATION: EIGHT PERCENT (8%) OF THE STRAIGHT TIME RATE, MULTIPLIED BY THE TOTAL HOURS WORKED.....\$ 30.86
14.15

DREDGING: CLASS C2: BOAT OPERATOR. INCENTIVE
PAY: (ADD TO HOURLY RATE) OPERATOR (NCCCO LICENSE/CERTIFICATION) \$1.80 LICENSED TUG OPERATOR OVER 1000 HP (ASSIGNED AS MASTER) (USCG LICENSED MASTER OF TOWING VESSELS (MOTV) \$1.80; LICENSED BOAT OPERATOR (ASSIGNED AS LEAD BOAT CAPTAIN) USCG LICENSED BOAT OPERATOR \$1.30; ENGINEER (QMED AND TANKERMAN ENDORSEMENT OR LICENSED ENGINEER (USCG) \$1.80 OILER (QMED AND TANKERMAN ENDORSEMENT (USCG) \$1.80; ALL CLASSIFICATIONS (TANKERMAN ENDORSEMENT ONLY) USCG \$1.55; DECKHAND OR MATE (AB WITH LIFEBOATMAN ENDORSEMENT (USCG) \$1.80; ALL CLASSIFICATIONS (LIFEBOATMAN ENDORSEMENT ONLY (USCG) \$1.55; WELDER (ABS CERTIFICATION) \$1.55
FOOTNOTES APPLICABLE TO ABOVE CRAFTS: A. PAID HOLIDAYS: NEW YEAR'S DAY, MARTIN LUTHER KING, JR.'S BIRTHDAY, MEMORIAL DAY, GOOD FRIDAY, INDEPENDENCE DAY, LABOR DAY, VETERANS' DAY, THANKSGIVING DAY AND CHRISTMAS DAY B. VACATION: EIGHT PERCENT (8%) OF THE STRAIGHT TIME RATE, MULTIPLIED BY THE TOTAL HOURS WORKED.....\$ 37.15
14.57

DREDGING: CLASS C1: MATE, DRAG BARGE OPERATOR, ASSISTANT FILL PLACER, WELDER, STEWARD.
INCENTIVE PAY: (ADD TO HOURLY RATE) OPERATOR (NCCCO LICENSE/CERTIFICATION) \$1.80 LICENSED TUG OPERATOR OVER 1000 HP (ASSIGNED AS MASTER) (USCG LICENSED MASTER OF TOWING VESSELS (MOTV) \$1.80; LICENSED BOAT OPERATOR (ASSIGNED AS LEAD BOAT CAPTAIN) USCG LICENSED BOAT OPERATOR \$1.30; ENGINEER (QMED AND TANKERMAN ENDORSEMENT OR LICENSED ENGINEER (USCG) \$1.80 OILER (QMED AND TANKERMAN ENDORSEMENT (USCG) \$1.80; ALL CLASSIFICATIONS (TANKERMAN ENDORSEMENT ONLY) USCG \$1.55; DECKHAND OR MATE (AB WITH LIFEBOATMAN ENDORSEMENT (USCG) \$1.80; ALL CLASSIFICATIONS (LIFEBOATMAN ENDORSEMENT ONLY (USCG) \$1.55; WELDER (ABS CERTIFICATION) \$1.55
FOOTNOTES APPLICABLE TO ABOVE CRAFTS: A. PAID HOLIDAYS: NEW YEAR'S DAY, MARTIN LUTHER KING, JR.'S BIRTHDAY, MEMORIAL

DAY, GOOD FRIDAY, INDEPENDENCE DAY, LABOR DAY,
VETERANS' DAY, THANKSGIVING DAY AND CHRISTMAS DAY
B. VACATION: EIGHT PERCENT (8%) OF THE STRAIGHT
TIME RATE, MULTIPLIED BY THE TOTAL HOURS WORKED.....\$ 38.38
14.66

DREDGING: CLASS B2: CERTIFIED WELDER. INCENTIVE
PAY: (ADD TO HOURLY RATE) OPERATOR (NCCCO
LICENSE/CERTIFICATION) \$1.80 LICENSED TUG OPERATOR
OVER 1000 HP (ASSIGNED AS MASTER) (USCG LICENSED
MASTER OF TOWING VESSELS (MOTV) \$1.80; LICENSED
BOAT OPERATOR (ASSIGNED AS LEAD BOAT CAPTAIN) USCG
LICENSED BOAT OPERATOR \$1.30; ENGINEER (QMED AND
TANKERMAN ENDORSEMENT OR LICENSED ENGINEER (USCG)
\$1.80 OILER (QMED AND TANKERMAN ENDORSEMENT (USCG)
\$1.80; ALL CLASSIFICATIONS (TANKERMAN ENDORSEMENT
ONLY) USCG \$1.55; DECKHAND OR MATE (AB WITH
LIFEBOATMAN ENDORSEMENT (USCG) \$1.80; ALL
CLASSIFICATIONS (LIFEBOATMAN ENDORSEMENT ONLY
(USCG) \$1.55; WELDER (ABS CERTIFICATION) \$1.55
FOOTNOTES APPLICABLE TO ABOVE CRAFTS: A. PAID
HOLIDAYS: NEW YEAR'S DAY, MARTIN LUTHER KING,
JR.'S BIRTHDAY, MEMORIAL DAY, GOOD FRIDAY,
INDEPENDENCE DAY, LABOR DAY, VETERANS' DAY,
THANKSGIVING DAY AND CHRISTMAS DAY B. VACATION:
EIGHT PERCENT (8%) OF THE STRAIGHT TIME RATE,
MULTIPLIED BY THE TOTAL HOURS WORKED.....\$ 39.46
14.73

DREDGING: CLASS B1: DERRICK OPERATOR (180 SWING),
SPIDER/SPILL BARGE OPERATOR, ENGINEER, ELECTRICIAN,
CHIEF WELDER, CHIEF MATE, FILL PLACER, OPERATOR II,
MAINTENANCE ENGINEER, LICENSED BOAT OPERATOR,
LICENSED CREW BOAT OPERATOR. INCENTIVE PAY: (ADD
TO HOURLY RATE) OPERATOR (NCCCO
LICENSE/CERTIFICATION) \$1.80 LICENSED TUG OPERATOR
OVER 1000 HP (ASSIGNED AS MASTER) (USCG LICENSED
MASTER OF TOWING VESSELS (MOTV) \$1.80; LICENSED
BOAT OPERATOR (ASSIGNED AS LEAD BOAT CAPTAIN) USCG
LICENSED BOAT OPERATOR \$1.30; ENGINEER (QMED AND
TANKERMAN ENDORSEMENT OR LICENSED ENGINEER (USCG)
\$1.80 OILER (QMED AND TANKERMAN ENDORSEMENT (USCG)
\$1.80; ALL CLASSIFICATIONS (TANKERMAN ENDORSEMENT
ONLY) USCG \$1.55; DECKHAND OR MATE (AB WITH
LIFEBOATMAN ENDORSEMENT (USCG) \$1.80; ALL
CLASSIFICATIONS (LIFEBOATMAN ENDORSEMENT ONLY
(USCG) \$1.55; WELDER (ABS CERTIFICATION) \$1.55
FOOTNOTES APPLICABLE TO ABOVE CRAFTS: A. PAID
HOLIDAYS: NEW YEAR'S DAY, MARTIN LUTHER KING,

JR.'S BIRTHDAY, MEMORIAL DAY, GOOD FRIDAY,
INDEPENDENCE DAY, LABOR DAY, VETERANS' DAY,
THANKSGIVING DAY AND CHRISTMAS DAY B. VACATION:
EIGHT PERCENT (8%) OF THE STRAIGHT TIME RATE,
MULTIPLIED BY THE TOTAL HOURS WORKED.....\$ 41.93

14.90

DREDGING: CLASS A2: CRANE OPERATOR (360 SWING)
INCENTIVE PAY: (ADD TO HOURLY RATE) OPERATOR
(NCCCO LICENSE/CERTIFICATION) \$1.80 LICENSED TUG
OPERATOR OVER 1000 HP (ASSIGNED AS MASTER) (USCG
LICENSED MASTER OF TOWING VESSELS (MOTV) \$1.80;
LICENSED BOAT OPERATOR (ASSIGNED AS LEAD BOAT
CAPTAIN) USCG LICENSED BOAT OPERATOR \$1.30;
ENGINEER (QMED AND TANKERMAN ENDORSEMENT OR
LICENSED ENGINEER (USCG) \$1.80 OILER (QMED AND
TANKERMAN ENDORSEMENT (USCG) \$1.80; ALL
CLASSIFICATIONS (TANKERMAN ENDORSEMENT ONLY) USCG
\$1.55; DECKHAND OR MATE (AB WITH LIFEBOATMAN
ENDORSEMENT (USCG) \$1.80; ALL CLASSIFICATIONS
(LIFEBOATMAN ENDORSEMENT ONLY (USCG) \$1.55; WELDER
(ABS CERTIFICATION) \$1.55 FOOTNOTES APPLICABLE
TO ABOVE CRAFTS: A. PAID HOLIDAYS: NEW YEAR'S
DAY, MARTIN LUTHER KING, JR.'S BIRTHDAY, MEMORIAL
DAY, GOOD FRIDAY, INDEPENDENCE DAY, LABOR DAY,
VETERANS' DAY, THANKSGIVING DAY AND CHRISTMAS DAY
B. VACATION: EIGHT PERCENT (8%) OF THE STRAIGHT
TIME RATE, MULTIPLIED BY THE TOTAL HOURS WORKED.....\$ 43.20

14.99

DREDGING: CLASS A1: DECK CAPTAIN; MECHANICAL
DREDGE OPERATOR, LEVERMAN, LICENSED TUG OPERATOR
OVER 1000 HP. INCENTIVE PAY: (ADD TO HOURLY
RATE) OPERATOR (NCCCO LICENSE/CERTIFICATION) \$1.80
LICENSED TUG OPERATOR OVER 1000 HP (ASSIGNED AS
MASTER) (USCG LICENSED MASTER OF TOWING VESSELS
(MOTV) \$1.80; LICENSED BOAT OPERATOR (ASSIGNED AS
LEAD BOAT CAPTAIN) USCG LICENSED BOAT OPERATOR
\$1.30; ENGINEER (QMED AND TANKERMAN ENDORSEMENT OR
LICENSED ENGINEER (USCG) \$1.80 OILER (QMED AND
TANKERMAN ENDORSEMENT (USCG) \$1.80; ALL
CLASSIFICATIONS (TANKERMAN ENDORSEMENT ONLY) USCG
\$1.55; DECKHAND OR MATE (AB WITH LIFEBOATMAN
ENDORSEMENT (USCG) \$1.80; ALL CLASSIFICATIONS
(LIFEBOATMAN ENDORSEMENT ONLY (USCG) \$1.55; WELDER
(ABS CERTIFICATION) \$1.55 FOOTNOTES APPLICABLE
TO ABOVE CRAFTS: A. PAID HOLIDAYS: NEW YEAR'S
DAY, MARTIN LUTHER KING, JR.'S BIRTHDAY, MEMORIAL
DAY, GOOD FRIDAY, INDEPENDENCE DAY, LABOR DAY,

VETERANS' DAY, THANKSGIVING DAY AND CHRISTMAS DAY
B. VACATION: EIGHT PERCENT (8%) OF THE STRAIGHT
TIME RATE, MULTIPLIED BY THE TOTAL HOURS WORKED.....\$ 48.48
15.34

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.
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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Note: Executive Order 13658 generally applies to contracts subject to the Davis-Bacon Act that were awarded on or between January 1, 2015 and January 29, 2022, and that have not been renewed or extended on or after January 30, 2022. Executive Order 13658 does not apply to contracts subject only to the Davis-Bacon Related Acts regardless of when they were awarded. If a contract is subject to Executive Order 13658, the contractor must pay all covered workers at least \$13.65 per hour (or the applicable wage rate listed on this

wage determination, if it is higher) for all hours spent performing on the contract from May 11, 2026, through December 31, 2026. The applicable Executive Order minimum wage rate will be adjusted annually.

Additional information on contractor requirements and worker protections under Executive Order 13658 is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

Union Rate Identifiers

A four-letter identifier beginning with characters other than **JSU**, **JAVG**, **SA**, or **SC** denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE:

UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

Survey Rate Identifiers

The ~~2~~SU~~2~~ identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

~~2~~SU~~2~~ wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

State Adopted Rate Identifiers

The ~~2~~SA~~2~~ identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination.

The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the ~~6A~~ identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

1) Has there been an initial decision in the matter? This can be:

- a) a survey underlying a wage determination
- b) an existing published wage determination
- c) an initial WHD letter setting forth a position on a wage determination matter
- d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to davisbaconinfo@dol.gov or by mail to:

Branch of Wage Surveys
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210.

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END OF GENERAL DECISION

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DOCUMENT A00801

SPECIAL PROVISIONS**HOLYOKE- WEST SPRINGFIELD****Federal Aid Project No. NHP(IM)-0912(004)X****Interstate Pavement Preservation and Related Work on I-91**

Labor participation goals for this Project shall be 15.3% for minorities and 6.9% for women for each job category. The goals are applicable to both Contractor's and Subcontractor's on-site construction workforce. Refer to Document 00820 for details.

SCOPE OF WORK

All work under this Contract shall be done in conformance with the *2026 Standard Specifications for Highways and Bridges*, the *Supplemental Specifications* contained in this book, the *Construction Standard Details* in effect as of July 2026, the *1990 Standard Drawings for Signs and Supports*, the *2015 Overhead Signal Structure and Foundation Standard Drawings*, the *11th Edition of the Manual on Uniform Traffic Control Devices (MUTCD)* and the *January 2026 Massachusetts Amendments to the MUTCD*, the *1968 Standard Drawings for Traffic Signals and Highway Lighting*, the latest edition of *The American Standard for Nursery Stock*, the Plans and these Special Provisions.

The work under this contract consists of paving an ultra-thin bonded overlay on I-91 mainline, pavement fine milling, bridge pavement milling, bridge preservation, and pavement preservation on interchange ramps and scenic areas in the municipalities of West Springfield and Holyoke. The project begins in West Springfield at mile marker 10.54, extends north into Holyoke, and ends at mile marker 14.86 on the northbound side and at mile marker 14.96 on the southbound side. The length of the project is 4.32 miles in the northbound direction and 4.42 miles in the southbound direction.

The work also includes bridge deck repairs, bridge joint repairs/replacement, bridge resurfacing, clearing roadway side slopes, removal of build-up material on shoulders to restore country drainage, adjusting and/or rebuilding drainage structures, repairing guardrail, installing recessed pavement markings and slotted pavement markers, implementing temporary traffic controls, and other incidental items as set forth in the proposal and required to complete the work.

All proposed work is within the State Highway Layout. No rights to enter on, or occupy, private properties have been acquired for this project.

The Following Bridges are included in thsi Project:

W-21-038 (NB & SB)	H-21-047 (NB & SB)
W-21-040 (I-91 / I-90 Connector over Prospect Ave.)	H-21-048 (NB & SB)
W-21-042 (I-91 / I-90 Connector over I-90 Ramp)	H-21-049 (NB & SB)
H-21-046 (NB & SB)	H-21-051 (NB & SB)

CONTRACTOR QUESTIONS AND ADDENDUM ACKNOWLEDGEMENTS

Prospective bidders are required to submit all questions to the Construction Contracts Engineer by 3:00 P.M. on the Tuesday of the previous week before the scheduled bid opening date. Any questions received after this time will not be considered for review by the Department.

Contractors should email questions and addendum acknowledgements to the following email address massdotSpecifications@dot.state.ma.us The MassDOT proposal number and municipality is to be placed in the subject line.

NONCONFORMING COMPRESSIVE STRENGTH OF CEMENT CONCRETE

Concrete with compressive strength test results failing to attain the limits specified in Table 901.64-3 of 901.64.B: Acceptance Testing shall be evaluated for structural adequacy and serviceability at the Contractors' expense. The Department will review all production records, the concrete test records, petrographic analysis report, field notes, and the placement records for the concrete in question. If the Engineer determines the material is found to be adequate to remain in place, payment shall be adjusted in accordance with the following formula:

$$P = \frac{2(fc - f'c)(UP)(Q)}{f'c}$$

Where:

P = pay adjustment for substandard concrete

f'c = specified minimum compressive strength at 28 days

fc = substandard concrete cylinder compressive strength at 56 days

Q = quantity of concrete represented by the acceptance cylinders tested

UP = unit contract price or the lump sum breakdown price per cubic yard
for the class of concrete involved complete in place

WORK HOURS

All work that requires a lane closure shall be done at night on a 10-hour day, 4-day week, Monday evening through Friday morning between 7:00 PM and 5:30 AM.

Work activities that require only a shoulder closure or are performed behind barrier may be done on an 8-hour day, 5-day week, Monday through Friday. This work shall be scheduled during the day between the hours of 7:00 AM to 3:30 PM.

Temporary traffic control setups shall not begin prior to the start time of the specified work schedule. All work activities shall be completed by the end time of the specified work schedule (3:30 PM for day schedule or 5:30 AM for night schedule), including back rolling, removing all construction crew, equipment, and material from the roadway, and removing all temporary traffic control setups.

WORK HOURS (Continued)

Traffic management coordination:

The work under this contract will be performed concurrently with the adjacent I 91 resurfacing project (Contract 129070). When applicable, the contractor shall coordinate his temporary traffic control activities with the adjacent project to extend or supplement their temporary traffic control. Should a conflict in the temporary traffic control plan arise, Contract 129070 shall have priority.

The work under this contract will be performed concurrently with the adjacent bridge preservation project (Project 613219). When applicable, the contractor shall coordinate their temporary traffic control activities with the adjacent project. The contractor shall coordinate their construction sequencing with the adjacent project to avoid any interference.

TEMPORARY TRAFFIC CONTROL AND CONSTRUCTION SEQUENCE FOR BRIDGE WORK

1. All work on all bridges shall be done at night using short-term lane closures. It is noted that split phase construction is not permitted between November 1 and March 15.
2. All work shall be done between the hours of 7:00 pm and 5:30 am.
3. At least one lane of traffic must be always kept open during the work shift. All lanes must be open at the end of the work shift in their original configuration.
4. The contractor may remove only as much concrete as can be placed and cured in one work shift. Rapid setting concrete placements shall be completed no later than 2:00 am for night-time operations so that the required compressive strength of 2000 psi is attained before the area is opened to traffic.
5. Temporary HMA ramps shall be used at all transverse and longitudinal drop-offs to transition traffic to the bridge deck.
6. For the convenience of the traveling public the contractor is limited to working on no more than three bridge decks at a time. All bridge work, including final surface course paving, must be completed before any work can begin on additional bridges. For this purpose, a bridge deck is defined as a single bridge in a single direction, regardless of if the bridge number includes a deck in each direction of travel.
7. Waterproofing course shall not be applied before 14 days after repairs to ensure water is not trapped during the curing process. Bridge decks shall not be exposed to traffic without surface course pavement for longer than 30 days. Bridge work shall be staged lane by lane when necessary to meet 14 days minimum exposure and 30 days maximum exposure.
8. All bridge work shall be completed before mainline milling and paving.

EQUIVALENT SINGLE AXLE LOADS (ESALS)

The estimated traffic level to be used for SUPERPAVE HMA mixture designs for this contract, expressed in Equivalent Single Axle Loads (ESALs) for the design travel lane over a 20-year period, is 28,629,969 18-kip (80-kn) ESALs.

HOLIDAY WORK RESTRICTIONS

(Supplementing Subsection 7.09)

The District Highway Director (DHD) may authorize work to continue during these specified time periods if it is determined by the District that the work will not negatively impact the traveling public. DHD may allow work in those areas on a case by case basis and where work is behind barrier and will not impact traffic

Below are the holiday work restrictions:

New Years Day (Federal Holiday)

No work on major arterial roadways from 5:00 AM on the day before until the normal start of business on the next subsequent business day. No work on local roadways on the holiday without permission by the DHD and the local police chief.

Martin Luther King's Birthday (Federal Holiday)

No work restrictions due to traffic concerns, however work on local roadways requires permission by the DHD and local police chief.

President's Day (Federal Holiday)

No work restrictions due to traffic concerns, however work on local roadways requires permission by the DHD and local police chief.

Evacuation Day (Suffolk County State Holiday)

No work restrictions due to traffic concerns.

Patriot's Day (State Holiday)

Work restrictions will be in place for Districts 3 and 6 along the entire Boston Marathon route and any other locations that the DHD in those districts determine are warranted so as to not to impact the marathon. All other districts work restrictions will be as per DHD.

Mother's Day

No work on Western Turnpike and Metropolitan Highway System from 5:00 AM on the Friday before, until the normal start of business on the following day.

Memorial Day (Federal Holiday)

No work on major arterial roadways from 5:00 AM on the Friday before, until the normal start of business on the following day.

Bunker Hill Day (Suffolk County State Holiday)

No work restrictions due to traffic concerns.

Juneteenth

No work restrictions due to traffic concerns, however work on local roadways requires permission by the DHD and local police chief.

HOLIDAY WORK RESTRICTIONS (Continued)**Independence Day (Federal Holiday)**

No work on major arterial roadways from 5:00 AM on the day before until the normal start of business on the next subsequent business day. No work on local roadways on the holiday without permission by the DHD and the local police chief.

Labor Day (Federal Holiday)

No work on major arterial roadways from 5:00 AM on the Friday before, until the normal start of business on the following day.

Columbus Day (Federal Holiday)

No work on major arterials from 5:00 AM on the Friday before, until the normal start of business on the following day

Veterans' Day (Federal Holiday)

No work restrictions due to traffic concerns.

Thanksgiving Day (Federal Holiday)

No work on major arterials from 5:00 AM two days before until the normal start of business on the following Monday.

Christmas Day (Federal Holiday)

No work on major arterial roadways from 5:00 AM on the day before until the normal start of business on the next subsequent business day.

CONTAMINATED SOIL

Soil to be removed from the project area shall not be assumed to be uncontaminated and must be evaluated prior to off-site management for potential contamination with hazardous materials. No soil may be disposed of off-site without proper assessment by the contractor and approval from the Resident Engineer (RE), District Environmental Engineer (DEE), or the project designee.

EVERSOURCE EMERGENCY TELEPHONE NUMBERS**GAS:**

Outage/ Emergency: 800-592-2000

New Service: 866-678-2744

Customer Support: 800-592-2000

ELECTRIC:

Outage/ Emergency: 800-592-2000 or 844-726-7562

New Service: 1-888-633-3797 (1-888-need pwr)

Customer Support: 1-800-340-9822

SOIL STOCKPILING DIRECTIVE P-22-001

Any stockpiling of soil must be performed in compliance with Policy Directive P-22-001, Off-Site Stockpiling of Soil from MassDOT Construction Projects. This directive limits the allowable locations for off-site stockpiling of soil generated during MassDOT projects and includes various requirements that must be satisfied by the contractor prior to off-site stockpiling. The Contractor is responsible for identifying a suitable stockpile location.

SUBSECTION 8.02 SCHEDULE OF OPERATIONS

Replace this subsection with the following:

An integrated cost and schedule controls program shall be implemented by the Contractor to track and document the progress of the Work from Notice to Proceed (NTP) through the Contractor Field Completion (CFC) Milestone. The Contractor's schedules will be used by the Engineer to monitor project progress, plan the level-of-effort required by the Department's work force and consultants and as a critical decision-making tool. Accordingly, the Contractor shall ensure that it complies fully with the requirements specified herein and that its schedules are both accurate and updated as required by the specification throughout the life of the project. Detailed requirements are provided in Division II, Section 722 Construction Scheduling.

TRUCK SAFETY DEVICES

(Supplementing Subsection 7.04: Motor Vehicles)

All motor vehicles subject to Section 7 of Chapter 90 to be operated under this Contract shall be equipped with safety devices as provided therein and in 540 CMR 4.00.

The Contractor shall certify to the Registry of Motor Vehicles, in a manner prescribed by the Registrar, that all applicable vehicles are equipped with Lateral Protective Devices, Convex Mirrors, Cross Over Mirror(s) and Back Up Cameras in accordance with the requirements of 540 CMR 4.00.

The Contractor shall provide evidence satisfactory to the Department to demonstrate compliance with the above certification requirement for all applicable vehicles operated under this Contract by the Contractor and its subcontractors and vendors in a manner set forth by the Department. Thereafter, the Contractor shall have an affirmative obligation to continue to provide such evidence of compliance on an ongoing basis and no later than 7 days after certification with the Registry of Motor Vehicles of any additional vehicles operated under this Contract by the Contractor and its subcontractors and vendors.

Non-compliance with respect to a vehicle that is subject to 540 CMR 4.00 may subject the Contractor to statutory fines as established in M.G.L. c. 90, § 7 and/or contractual remedies up to and including termination of the Contract.

SUBSECTION 8.14 UTILITY COORDINATION, DOCUMENTATION, AND MONITORING RESPONSIBILITIES

A. GENERAL

In accordance with the provisions of Section 8.00 Prosecution and Progress, utility coordination is a critical aspect to this Contract. This section defines the responsibility of the Contractor and MassDOT, with regard to the initial utility relocation plan and changes that occur as the prosecution of the Work progresses. The Engineer, with assistance from the Contractor shall coordinate with Utility companies that are impacted by the Contractor's operations. To support this effort, the Contractor shall provide routine and accurate schedule updates, provide notification of delays, and provide documentation of the steps taken to resolve any conflicts for the temporary and/or permanent relocations of the impacted utilities. The Contractor shall provide copies to the Engineer of the Contractor communication with the Utility companies, including but not limited to:

- Providing advanced notice, for all utility-related meetings initiated by the Contractor.
- Providing meeting minutes for all utility-related meetings that the Contractor attends.
- Providing all test pit records.
- Request for Early Utility work requirements of this section (see below).
- Notification letters for any proposed changes to Utility start dates and/or sequencing.
- Written notification to the Engineer of all apparent utility delays within seven (7) Calendar Days after a recognized delay to actual work in the field – either caused by a Utility or the Contractor.
- Any communication, initiated by the Contractor, associated with additional Right-of-Way needs in support of utility work.
- Submission of completed Utility Completion Forms.

B. PROJECT UTILITY COORDINATION (PUC) FORM

The utility schedule and sequence information provided in the Project Utility Coordination Form (if applicable) is the best available information at the time of the bid and has been considered in setting the contract duration. The Contractor shall use all of this information in developing the bid price and the Baseline Schedule Submission, inclusive of the individual utility durations sequencing requirements, and any work that has been noted as potentially concurrent utility installations.

C. INITIATION OF UTILITY WORK

The Engineer will issue all initial notice-to-proceed dates to each Utility company based on either the:

- 1) Contractor's accepted Baseline Schedule
- 2) An approved Early Utility Request in the form of an Early Utility sub-net schedule (in accordance with the requirements of this Subsection)
- 3) An approved Proposal Schedule

C.1 - BASELINE SCHEDULE – UTILITY BASIS

The Contractor shall provide a Baseline Schedule submission in accordance with the requirements of Subsection 8.02 and inclusive of all of the information provided in the PUC Form that has been issued in the Contract documents. This is to include the utility durations, sequencing of work, allowable concurrent work, and all applicable considerations that have been depicted on the PUC Form.

SUBSECTION 8.14 (Continued)

C.2 – EARLY UTILITY REQUEST – (aka SUBNET SCHEDULE) PRIOR TO THE BASELINE
All early utility work is defined as any anticipated/required utility relocations that need to occur prior to the Baseline Schedule acceptance. In all cases of proposed early utility relocation, the Contractor shall present all known information at the pre-construction conference in the form of a ‘sub-net’ schedule showing when each early utility activity needs to be issued a notice-to-proceed. The Contractor shall provide advance notification of this intent to request early utility work in writing at or prior to the Pre-Construction meeting. Prior to officially requesting approval for early utility work, the Contractor shall also coordinate with MassDOT and all utility companies (private, state or municipal) which may be impacted by the Contract. If this request is acceptable to the Utilities and to MassDOT, the Engineer will issue a notice-to-proceed to the affected Utilities, based on these accepted dates.

C.3 – PROPOSAL SCHEDULE - CHANGES TO THE PUC FORM

If the Contractor intends to submit a schedule (in accordance with MassDOT Standard Specifications, Division I, Subsection 8.02) that contains durations or sequencing that vary from those provided in the Project Utility Coordination (PUC) Form, the Contractor must submit this as an intended change, in the form of a Proposal Schedule and in accordance with MassDOT Standard Specifications, Division I, Subsection 8.02. These proposed changes are subject to the approval of the Engineer and the impacted utilities, in the form of this Proposal Schedule and a proposed revision to the PUC form. The Contractor shall not proceed with any changes of this type without written authorization from the Engineer, that references the approved Proposal Schedule and PUC form changes. The submission of the Baseline Schedule should not include any of these types of proposed utility changes and should not delay the submission of the Baseline Schedule. As a prerequisite to the Proposal Schedule submission, and in advance of the utility notification(s) period, the Contractor shall coordinate the proposed utility changes with the Engineer and the utility companies, to develop a mutually agreed upon schedule, prior to the start of construction.

D. UTILITY DELAYS

The Contractor shall notify the Engineer upon becoming aware that a Utility owner is not advancing the work in accordance with the approved utility schedule. Such notice shall be provided to the Engineer no later than seven (7) calendar days after the occurrence of the event that the Contractor believes to be a utility delay. After such notice, the Engineer and the Contractor shall continue to diligently seek the Utility Owner’s cooperation in performing their scope of Work.

In order to demonstrate that a critical path delay has been caused by a third-party Utility, the Contractor must demonstrate, through the requirements of the monthly Progress Schedule submissions and the supporting contract records associated with Subsection 8.02, 8.10 and 8.14, that the delays were beyond the control of the Contractor.

SUBSECTION 8.14 (Continued)

All documentation provided in this section is subject to the review and verification of the Engineer and, if required, the Utility Owner. In accordance with MassDOT Specifications, Division I, Subsection 8.10, a Time Extension will be granted for a delay caused by a Utility, only if the actual duration of the utility work is in excess of that shown on the Project Utility Coordination Form, and only if;

- 1) proper Notification of Delay was provided to MassDOT in accordance with the time requirements that are specified in this Section
- 2) the utility delay is a critical path impact to the Baseline Schedule (or most recently approved Progress Schedule)

E. LOCATION OF UTILITIES

The locations of existing utilities are shown on the Contract drawings as an approximation only. The Contractor shall perform a pre-construction utility survey, including any required test pits, to determine the location of all known utilities no later than thirty (30) calendar days before commencing physical site work in the affected area.

F. POST UTILITY SURVEY – NOTIFICATION

Following completion of a utility survey of existing locations, the Contractor will be responsible to notify the Engineer of any known conflicts associated with the actual location of utilities prior to the start of the work. The Engineer and the Contractor will coordinate with any utility whose assets are to be affected by the Work of this Contract. A partial list of utility contact information is provided in the Project Utility Coordination Form.

G. MEETINGS AND COOPERATION WITH UTILITY OWNERS

The Contractor shall notify the Engineer in advance of any meeting they initiate with a Utility Owner's representative to allow MassDOT to participate in the meeting if needed.

Prior to the Pre-Construction Meeting, the Contractor should meet with all Utility Owners who will be required to perform utility relocations within the first 6 months of the project, to update the affected utilities of the Project Utility Coordination Form and all other applicable Contract requirements that impact the Utilities. The Contractor shall copy the Engineer on any correspondence between the Utility Owner and the Contractor.

H. FORCE ACCOUNT / UTILITY MONITORING REQUIREMENTS

The Engineer will be responsible for recording daily Utility work force reports. The start, suspension, re-start, and completion dates of each of the Utilities, within each phase of the utility relocation work, will be monitored and agreed to by the Engineer and the Contractor as the work progresses.

I. ACCESS AND INSPECTION

The Contractor shall be responsible for allowing Utility owners access to their own utilities to perform the relocations and/or inspections. The Contractor shall schedule their work accordingly so as not to delay or prevent each utility from maintaining their relocation schedule.

COMPLIANCE WITH THE NATIONAL DEFENSE AUTHORIZATION ACT
(Supplementing Subsection 7.01)

On all projects, the “Prohibition on Certain Telecommunications and Video Surveillance Services or Equipment” Regulation (2 CFR 200.216) prohibits the Contractor from using or furnishing the following telecommunications equipment or services:

- Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities).
- For the purpose of public safety, security of government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities).
- Telecommunications or video surveillance services provided by such entities or using such equipment.
- Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of the National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

This prohibition applies to all products manufactured by the aforementioned companies, including any individual components or parts.

By submitting a bid on a project, the Contractor certifies that all work will be in compliance with the terms of 2 CFR 200.216. The Contractor shall submit a COC indicating compliance with the above provisions for all telecommunications equipment or services included in the Contract.

Payment for the item in which the materials are incorporated may be withheld until these COCs are received. Any cost involved in furnishing the certificate(s) shall be borne by the Contractor.

BIDDERS LIST

Pursuant to the provisions of 49 CFR Part 26.11 all official bidders will be required to report the names, addresses and telephone numbers of all firms that submitted bids or quotes in connection with this project. Failure to comply with a written request for this information within 15 business days may result in a recommendation to the Prequalification Committee that prequalification status be suspended until the information is received.

The Department will survey all firms that have submitted bids or quotes during the previous year prior to setting the annual goal and shall request that each firm report its age and gross receipts for the year.

BUILD AMERICA BUY AMERICA PREFERENCE

On Federally-aid projects the Buy America (23.CFR § 635.410) and Build America, Buy America Act. requires the following,

- (1) all iron and steel used in the project are produced in the United States--this means all manufacturing processes, from the initial melting stage through the application of coatings, must occur in the United States. Foreign steel and iron can be used if the cost of the materials does not exceed 0.1% of the total Contract cost or \$2,500, whichever is greater. The action of applying a coating to a covered material (i.e., steel and iron) is deemed a manufacturing process subject to Buy America. Coating includes epoxy coating, galvanizing, painting and any other coating that protects or enhances the value of a material subject to requirements of Build America, Buy America. Steel used for temporary support of excavation, including H piles, soldier piles, and sheeting when the steel is required to be left in place is subject to requirements of Build America, Buy America. Temporary steel, shall remain in place when it falls within the influence zone of the soil supporting any structure or railroad tracks.
- (2) all manufactured products used in the project are produced in the United States—this means the manufactured product was manufactured in the United States and
- (3) all construction materials are manufactured in the United States—this means that all manufacturing processes for the construction material occurred in the United States. “Construction materials” includes an article, material, or supply—other than an item of primarily iron or steel; a manufactured product; cement and cementitious materials; aggregates such as stone, sand, or gravel; or aggregate binding agents or additives—that is or consists primarily of:
 - non-ferrous metals,
 - plastic and polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cables),
 - glass (including optic glass),
 - lumber; or
 - drywall.

The Buy America preference only applies to articles, materials, and supplies that are consumed in, incorporated into, or affixed to an infrastructure project. As such, it does not apply to tools, equipment, and supplies, such as temporary scaffolding, brought to the construction site and removed at or before the completion of the infrastructure project. Nor does a Buy America preference apply to equipment and furnishings, such as movable chairs, desks, and portable computer equipment, that are used at or within the finished infrastructure project but are not an integral part of the structure or permanently affixed to the infrastructure project.

All articles, materials, and supplies should be classified as an iron or steel product, a manufactured product, or another product as specified by law or in 2 CFR part 184 (such other products specified by law or in 2 CFR part 184 include “excluded materials” and “construction materials”); an article, material, or supply must not be considered to fall into multiple categories.

EMERALD ASH BORER ADVISORY

To the extent possible, all trees and brush shall be disposed on site, typically chipped and spread in place. When trees or brush must be removed, such as in urban, or otherwise populated areas, Contractor shall identify proposed location for disposal, and provide written notification to the Engineer for approval. Disposal shall be in city or town of project, or at minimum, within county, of construction operations.

GUARDRAIL END TREATMENTS

Upon completion of the installation, the Contractor shall email GPS Coordinates of all newly installed End Treatments to Eric (Jay) Ehle (Eric.Ehle@dot.state.ma.us) & Ken Crochiere (Kenneth.Crochiere@dot.state.ma.us). The payment for this work will be included in the contract unit bid prices under end treatment items and no specific compensation will be made.

PAVEMENT MARKINGS

The Engineer will not provide a line of reference for establishing the pavement markings. It is the responsibility of the Contractor to reference and record all existing pavement markings, their locations and dimensions for reproduction after final paving. The recording shall be done prior to any other work on the project and copies shall be given to the Engineer.

Upon completing the paving of the top course within any section of roadway the permanent pavement markings must be applied, the Contractor shall not wait until all of the paving has been completed prior to applying the permanent pavement markings.

Payment for this work will be included in the contract unit bid prices under the permanent pavement marking items on the project and no specific compensation will be made.

ENVIRONMENTAL PERMITTING

Negative Determinations of Applicability have been received from the West Springfield and Holyoke Conservation Commissions under the Wetlands Protection Act, M.G.L. c. 131, § 40 and are considered part of this contract. If field conditions and/or Contractor-proposed erection, demolition, storage, or other procedures not originally allowed by existing environmental permits require work to occur in or otherwise impact water or wetland resource areas, the Contractor is advised that no associated work can occur until all required environmental permits have been either amended or obtained allowing such work. The Contractor must notify the District 2 Highway Director and Resident Engineer in writing at least 60 days prior to desired commencement of the proposed activity. All environmental submittals, including any contact with Local, State, or Federal environmental agencies, must be coordinated with the District 2 Environmental Engineer. The Contractor is expected to fully cooperate with requests for information and provide same in a timely manner. The Contractor is further advised that the Department will not entertain a delay claim due to the time required to modify or obtain the environmental permits.

NORTHERN LONG-EARED BAT AND TRICOLORED BAT PROTECTION

The northern long-eared bat (*Myotis septentrionalis*; NLEB) and tricolored bat (*Perimyotis subflavus*; TCB) are listed as federally endangered or proposed endangered, respectfully, under the Endangered Species Act (ESA). The U.S. Fish and Wildlife Service (USFWS) developed this guidance to address ESA compliance and promote conservation of NLEB and TCB. This project has been consulted with the USFWS through the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), and Federal Transit Administration (FTA) Programmatic Biological Opinion/Conference Opinion for Transportation Projects in the Range of the Indiana bat, northern long-eared bat, and tricolored bat, dated December 13, 2024. and generated a May Affect, Not Likely to Adversely Affect (NLAA) determination (see **Document A00871 USFWS NLAA**). Subsequently, the project has completed Section 7 consultation under the ESA.

In advance of the uplisting of the TCB to endangered under the ESA, the following Avoidance and Minimization Measures (AMMs) must be strictly adhered to in order to protect NLEB and TCB and to be in compliance with the ESA. Contact MassDOT Environmental Services - Wildlife Unit Supervisor for questions about project limits, restrictions, or conservation measures.

General AMM

- The Contractor shall ensure all personnel working in on the project site are aware of all environmental commitments related to NLEB and TCB, including all applicable AMMs. NLEB and TCB information (<https://www.fws.gov/midwest/endangered/mammals/nleb/> and <https://www.fws.gov/species/tricolored-bat-perimyotis-subflavus>) shall be made available to all personnel.

Lighting AMMs

- Direct temporary lighting away from suitable habitat during the active season: **April 15 to October 31.**

Tree Removal AMMs

- *If additional cutting is proposed by the Contractor that is outside the scope of this contract, additional review is required by the MassDOT Highway Division's Environmental Services Section, and additional review and restrictions may be required by the USFWS.*
- Ensure tree removal is limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g., install bright colored flagging/fencing prior to any tree clearing to ensure contractors stay within clearing limits).
- No tree cutting, trimming, or removal of trees and/or woody vegetation >3-inch in diameter shall be conducted between **April 15 to October 31**
- The Contractor shall ensure all personnel working in on the project site are aware of all environmental commitments related to NLEB and/or TCB, including the **TOY** restriction. If this restriction needs to be waived at any location(s) the Resident Engineer shall send a locus map of the proposed work to MassDOT Highway Division's Environmental Services Section for review and a determination if the restriction can be waived.

VALUE ENGINEERING CHANGE PROPOSAL

This Subsection defines the conditions and requirements which apply to Value Engineering Change Proposals (“VECPs”). The purpose of this provision is to encourage the Contractor to propose changes in certain project requirements that will maintain the project’s functional requirements at a savings in contract time, contract price, or both. The net savings obtained by using a VECP that meets the conditions and requirements set forth here will be shared by the Contractor and MassDOT.

VECP’s under this provision are to be initiated, developed and submitted to MassDOT by the Contractor. The VECP must show the contemplated changes to the Drawings, Specifications and other requirements in the Contract. When a VECP submitted pursuant to this section is fully accepted by MassDOT, the VECP will be implemented by the Contractor and paid using the current cost and resource loaded schedule. Contractor shall demonstrate that the VECP is equal to, or better than, the original design or material; that there is an interest in public safety within the VECP; that there is a life-cycle cost benefit; and/or that end users will benefit from the shortened schedule. VECPs shall be consistent with the MassHighway/MassDOT Standard Specifications for Highways and Bridges and other applicable reference documents and directives. Any proposed deviation from these documents will need to be clearly identified in the VECP Proposal Documents, and must be approved by MassDOT’s Chief Engineer before accepting this VECP.

- A. In order to be considered for MassDOT review each VECP shall:
1. Be clearly labeled pursuant to this Subsection;
 2. Yield a net savings at least two hundred and fifty thousand (250,000.00) Dollars and/or a net saving of contract completion duration of at least three (3) months;
 3. The proposed changes to contract items must:
 - a. maintain the specified items’ required functions (service life, reliability);
 - b. meet applicable safety regulations and codes;
 - c. material substitutions must be in accordance with DOT prequalified/preapproved products and must be tested in accordance with standard material specs/testing methods (and considering all relevant environmental, load, and other relevant factors).
 - d. show economy of operation, ease of maintenance, ease of construction, and necessary standardized features and appearance; and
 4. Shall not require an extension of Contract Time or Contract Milestones, with the exception of cases when there are anticipated significant cost saving.

VALUE ENGINEERING CHANGE PROPOSAL (Continued)

The thresholds above are considered to be a general guideline. MassDOT will consider VECPs outside of these thresholds if a significant benefit is demonstrated. Additionally, notwithstanding this VECP process, MassDOT will consider minor revisions in the form of a Contract Modification.

Further, any VECP submitted shall be in sufficient detail to clearly define the proposed change. The Contractor's failure to provide information of the type, detail and in a format to facilitate the MassDOT's review, may be grounds for rejection of the VECP. Additionally, the Contractor will not be entitled to any equitable adjustment or increased Time, due to any aspect of any of the proposed VECP including permitting, right of way, utility coordination or delayed responses by MassDOT. If, after the progression of the work associated with the executed Contract Modification for the VECP, any additional costs are realized by the Contractor or any of the sub- consultants, sub-contractors, or suppliers, the Contractor shall be obligated to pay for any and all costs.

B. The following initial items shall be provided by the Contractor for MassDOT's review. *Items 1-6 need to be submitted prior to the start of MassDOT's review of the VECP and item 7 is an important consideration for the pricing of the VECP and the timeline of the proposed VECP schedule.*

1. ***VECP Description:*** A description of the difference between the existing and the proposed Contract requirements, and the comparative advantages and disadvantages of each;
2. ***VECP Change Listing:*** A listing of the Contract requirements that will need to be changed, modified, or reviewed as well as the proposed Contract document changes in the Instructions to Bidders, Contract, Standard Specifications, General Requirements and Special Provisions required by the VECP.
3. ***Construction Schedule Update:*** Any changes in the Contract Time(s) or Contract Milestone(s), that will result from acceptance of the VECP, shall be accompanied by a contemporaneous schedule analysis (*i.e., the Contractor's baseline schedule submission, all past/required monthly schedule updates, a detailed assessment of all past delays, and a resource loaded Critical Path Method schedule as specified in Section 8.0 / Subsection 8.02 of this Contract*) of the projected Work that remains including the proposed VECP related schedule changes (*inclusive of the timeline to review accept the VECP and the timeline for implementing the design changes*) in the remaining work. This shall be submitted in the form of a Proposal Schedule until the VECP has been formally accepted. Note: All of this information is to be updated, recertified, and formally accepted by MassDOT before final acceptance of this this VECP is issued.

VALUE ENGINEERING CHANGE PROPOSAL (Continued)

4. ***Date for MassDOT's Acceptance:*** A statement that clearly justifies the date by which the VECP must be accepted to obtain the maximum price reduction, noting any effect upon the Contract Time(s) and/or Contract Milestone(s). This statement must include a narrative that demonstrates the most recent construction schedule has been utilized to justify that proposed acceptance date (*e.g. "in order to start to fabricate critical materials, authorization must be provided to work on the shop drawings by no later than [date]"*). The Contractor should allow for at least sixty (60) to ninety (90) days for acceptance by MassDOT once all of the VECP documentation has been provided. Acceptance shall mean that MassDOT has received a finalized and executed contract modification. However, this is a proposed Contract change.

The Contractor is fully obligated to progress the Work of the original Contract and MassDOT is not liable for any delays or costs that may occur in the review phase of any VECP proposal.

5. ***Cost and Savings Estimates:*** A detailed estimate of the anticipated net savings, calculated as follows:
- a. ***Original Scope:*** Isolate the cost of performing the original contract construction activities, in accordance with the original Contract Documents, as originally bid by the Contractor, that are anticipated to be superseded by the VECP. *This cost is to include any original contract scope that is anticipated to be altered or eliminated by the VECP such as, shop drawing preparation, inspection work, testing, maintenance of traffic, or any other original contract costs, that have yet to have been performed at the time of this VECP submission.*
 - b. ***New VECP Scope:*** Calculate the cost of performing the comparable construction activities associated with the VECP.
 - c. ***Contractor's Engineer & Inspection:*** Calculate the cost of engineering, inspection, and design work by the Contractor's Engineer/Designer. This should be a realistic estimate of the costs of any required engineering, design and review work by the Contractor's Engineer.
 - d. ***MassDOT's Costs:*** MassDOT's estimate of costs to perform engineering/design reviews, cost estimate reviews, schedule reviews, and any other administrative costs to review and recommend implementation of the proposed VECP. (*including all anticipated increased costs to MassDOT on other Contracts and all anticipated follow-on increased costs to MassDOT, if any*) as provided by MassDOT. MassDOT's estimated costs must be included the VECP calculation and will be provided by MassDOT in support of the VECP evaluation process.
 - e. ***Other Costs:*** Estimated costs associated with any revisions to other project related costs, such as Environmental Permits or Right of Way acquisitions, including other agency or municipality costs, as provided by MassDOT.

VALUE ENGINEERING CHANGE PROPOSAL (Continued)**Net Savings:**

The net savings to be split between MassDOT and the Contractor shall be calculated using the items above as follows: $a - (b+c+d+e) = \text{net savings}$

6. The Contractor shall also provide:

- a. A proposed Change Order, which explains and justifies any required Equitable Adjustment in the Contract Price.
- b. The Contractor's actual costs expended for developing the VECP as of the date of the VECP submission;

7. Design Changes and Drawings: The costs that are outlined above should be inclusive of the following design and engineering responsibilities.

- a. Design changes shall be prepared and stamped by the Contractor's professional designer and/or engineer. In addition, in the development of the VECP; the Contractor is responsible for anticipating and managing all aspects associated with any VECP design work that must be performed by a licensed Engineer.
- b. The Contractor's engineer must analyze and stamp all components of any aspect of the project that has been redesigned, changed, or altered as a result of this VECP.
- c. The Contractor's engineer shall provide all calculations and supporting design/engineering documentation that was utilized to develop the changes and stamped drawings. These will be used by MassDOT's Designer-of-Record to review the VECP changes. The Contractor is limited to selecting only those engineer's that have been pre-qualified by MassDOT's A&E Board.
- d. MassDOT's Designer-of-Record will review and respond to all completed design submissions related to this VECP within thirty (30) calendar days, unless determined to be a non-critical path item.
- e. MassDOT will be responsible for estimating and managing MassDOT's Designer-of-Record during the VECP review and implementation. Should any significant conflicts arise, between the Contractor's Engineer and MassDOT's Designer-of-Record, the DOT and the Contractor will work expeditiously to resolve the conflict. Should this type of conflict continue for greater than five (5) days, the Contractor is to bear all financial and time related impacts of such delay and must seek to resolve the design conflict, in an acceptable manner to MassDOT. The resolution of this conflict will be funded at the Contractor's expense – exclusive of the net saving that was agreed to at the execution of the contract modification for this VECP.
- f. The Contractor's Engineer may also be required to inspect the construction work. The Contractor is to include such anticipated inspection costs in the initial VECP.

VALUE ENGINEERING CHANGE PROPOSAL (Continued)

- g. MassDOT's Designer of Record will remain the Designer-of-Record for the entire Project. Any costs incurred in the use of MassDOT's Designer-of-Record by MassDOT or Contractor associated with the review of a VECP are to be included in the calculated net savings.
- C. Approval of the VECP shall not occur until a Contract Modification, incorporating the VECP, is issued by MassDOT and properly executed by the Contractor. MassDOT may accept or reject part or all of any VECP at any time prior to an executed Contract Modification for the applicable VECP. The decision of MassDOT, concerning acceptance or rejection of any VECP, shall be final and shall not be subject to dispute resolution.

It is expected that several weeks may go by before the final VECP documentation has been executed with a Contract Modification. Therefore, MassDOT intends to make certain that the initial cost estimate information has not changed before entering into a Contract Modification. As the VECP evaluation process is finalized, and prior to the signed Contract Modification for the VECP, the Contractor and MassDOT must re-certify the current status of the originally proposed cost and/or schedule savings.

Until a contract modification is issued and schedule and cost/savings re-certification is complete and accepted by MassDOT, the Contractor shall remain obligated to perform the Work in accordance with the terms and conditions of the original Contract Documents.

Upon completion of the work associated with the VECP, MassDOT may require verification that the VECP savings has been achieved.

- D. VECPs will be processed (distributed, reviewed, commented upon, accepted or rejected) expeditiously (pursuant to M.G.L. c. 30, § 39R); however, as this is an elective modification to the contract, MassDOT shall not be liable for any delay or cost in the review and acceptance of the VECP. During the review of the VECP, the Contractor remains obligated to progress the original Contract scope, and schedule, as planned; until a Contract Modification, accepting the Contractor re-certified VECP, has been executed by MassDOT.

The Contractor has the right to withdraw part, or all of any VECP, prior to acceptance by MassDOT. Such withdrawal shall be made in writing to the Engineer. The Contractor shall state the period of time, from the date of the initial VECP submittal, that the VECP shall remain valid and feasible. Revision of this validity and feasibility period shall be allowed only by mutual agreement of the Contractor and the Engineer in writing.

If the Contractor desires to withdraw the proposal prior to the expiration of this period for non-technical reason, MassDOT reserves the right to recover all actual costs that have been incurred to MassDOT.

VALUE ENGINEERING CHANGE PROPOSAL (Continued)

If the Contractor withdraws the VEC Proposal, MassDOT reserves the right to proceed with the VECP or any portion of the VECP as a normal change and the Contractor waives any right it may have had to share in net savings thereunder.

For purposes of this provision, expiration of the time established by the Contractor for approval shall be considered as withdrawal by the Contractor if MassDOT requests an extension of that time and the Contractor does not provide a written extension.

- E. With regard to unknown conditions or sub-surface work, in general, the expectation is that the Contractor and MassDOT will strive to gain enough knowledge about the risks in order to provide a forward-priced Change Proposal. Therefore, any costs to fully evaluate the proposal, such as additional borings and/or test pits, must be considered in the cost evaluation of whether the VECP is worth pursuing. However, if it is impractical to gather conclusive exploratory information, before the VECP is executed, MassDOT may consider provisions in the VECP that clearly identifies the risk sharing (cost and time) related specifically to the unknown/sub-surface conditions. If these VECP provisions are acceptable to MassDOT they are to include supplemental language to provide a determination of the final savings/cost, and time impacts, no later than 45 days after the sub-surface work is completed. All other aspects of the VECP, unrelated to these Provisions, will be binding upon execution of the VECP.

PROPRIETARY PRODUCTS

A letter discussing Item 866.606 / preformed marking / Stamark 380AW or Stamark 380AW-5 (Contrast) by 3M as a proprietary specification pursuant to M.G.L. c. 30, sec. 39M(b) has been placed in the Project file. The preformed marking material shall be manufactured by Stamark 380AW or Stamark 380AW-5 (Contrast) by 3M or approved equal.

BRIDGE H-21-046 OVER THE RAILROAD

Bridge No. H-21-046 is located over the railroad (Pioneer Valley Railroad). The required proposed work in this Contract includes 1.5 inch bridge pavement milling, 1.5 inch resurfacing with Superpave Waterproofing Surface Course – 9.5 (SSC-W-9.5) and saw and seal joints at the bridge abutment joints. The Railroad insurance is not required for this work.

<u>ITEM 106.15</u>	<u>BLEEDER (BRIDGE DECK) PVC</u>	<u>EACH</u>
<u>ITEM 106.16</u>	<u>BRIDGE DECK DRAIN PVC PIPE EXTENSION</u>	<u>EACH</u>

The Work under Item 106.15 shall consist of furnishing and installing deck drain pipes cast into a concrete deck patch. This work includes removal and disposal of old deck bleeders, installing new deck weep drains, and galvanized screen.

The Work under Item 106.16 shall consist of extending existing deck drain pipes 12” below the bottom flange of the girder.

There are three separate weep drains included in the “per unit Each” Item at each location.

MATERIALS

The Polyvinyl Chloride (PVC) pipes for the deck drains and their fitting shall conform to ASTM D1785, Schedule 40. Solvent Cement Fittings shall conform to ASTM D2468, Schedule 40. All support straps and hardware shall be hot dip galvanized and be of the same type as used with steel pipe. Jointing of the pipes and couplers shall be done by solvent welding process and be in accordance with Manufacturer’s recommendations. All joints are to be set with P.V.C. primer and P.V.C. cement.

Galvanized screen shall be 23 gauge, 1/8” mesh.

Hot applied crack sealer shall be in accordance with M3.05.2.

The Contractor shall submit the cut sheets of the selected galvanized conduit clamp for the Engineer’s approval.

CONSTRUCTION METHODS

For existing deck drain pipes that do not extend below the bottom flange of the girder, the efflorescence and debris inside the existing deck drainpipes shall be removed by mechanical means and power washing. The clogged existing deck drainpipes shall be cleaned by the Contractor using a method approved by the Engineer. If the existing deck drainpipes are in good condition and approved for reuse by the Engineer, the Contractor shall extend the pipes twelve (12) inches beyond the beam bottom flange by installing couplings and new pipe sections. The lower end of all deck drainpipe extensions shall be adequately fastened and secured to the beam bottom flange with galvanized conduit clamps.

For existing deck drain pipes not suitable for reuse, an area of the deck shall be excavated full depth and new deck drains installed.

A full depth deck patch should be completed including the removal of the existing deck drain pipes. The minimum dimensions of the full depth patch shall be one (1) foot wide by three (3) feet long. All requirements of full depth deck repairs shall apply, including saw cutting pavement three (3) inch minimum beyond the limits of concrete excavation.

ITEMS 106.15 and 106.16 (Continued)

The Contractor shall create a template and install the new PVC weep drains. It is preferred to have all straight pipe sections for the new weep drains. No bends shall be allowed greater than 22-1/2 degrees and no more than 2 bends shall be allowed per weep drain. The new weep drains shall be tied to the existing steel reinforcement on both the upper and lower steel reinforcement mats. Additional steel reinforcement may be installed in order to facilitate this requirement and be paid for under Item 910.1.

Tar mastic shall be used to seal any edges of membrane waterproofing at the drain locations and to secure the galvanized screen in place. The concrete shall have cured and dried sufficiently prior to this work. After the installation of the wearing surface, hot applied crack sealer shall be placed along the gutter line for a minimum distance of five feet or as directed by the Resident Engineer, to seal along the curb line.

The bleeder pipe shall be cut to a length so that the bottom of the pipe, when installed, will be one (1) foot below the abutment bridge seats and/or the pier cap top.

METHOD OF MEASUREMENT

Item 106.15 will be measured for payment by the Each set of three deck drainpipes installed in bridge deck, completed in place.

Item 106.16 will be measured for payment by the Each set of three deck drainpipes cleaned and extended, complete in place.

BASIS OF PAYMENT

Item 106.15 will be paid for at the Contract unit price per Each set of three weep drains, which price shall include all labor, materials, equipment, tar mastic, galvanized mesh, and all incidental costs required to complete the work.

Item 106.16 will be paid for at the Contract Unit Price per Each set of three deck drainpipes, which price shall include all labor, materials, equipment, cleaning of existing deck drainpipes, connection, conduit clamps for securing of deck drainpipes, and all incidental costs required to complete the work.

Removal of the concrete deck and old weep drains will be paid under Item 127.4. Removal of existing pavement will be paid under 129.6.

Concrete required for installation of the weep drains shall be paid under Item 909.3.

Proposed wearing surface shall be paid under Item 457.2 and tack coat paid under Item 452.

Additional steel reinforcement will be paid for under Item 910.1.

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<u>ITEM 127.1</u>	<u>REINFORCED CONCRETE EXCAVATION</u>	<u>CUBIC YARD</u>
<u>ITEM 127.4</u>	<u>REINFORCED CONCRETE DECK EXCAVATION (FULL DEPTH)</u>	<u>SQUARE YARD</u>
<u>ITEM 127.41</u>	<u>REINFORCED CONCRETE DECK EXCAVATION (PARTIAL DEPTH)</u>	<u>CUBIC YARD</u>

The Work under these Items shall conform to the relevant provisions of Subsections 120 and 482 of the Standard Specifications and the following:

The work under Items 127.4 and 127.41 shall consist of full and/or partial depth removal and disposal of all disintegrated or otherwise unsatisfactory reinforced concrete from the bridge deck.

The work under Item 127.1 shall consist of excavation, removal and disposal of reinforced concrete on sidewalks, parapets, and when deck excavation is within 3 feet from joint centerline, and as required by the Engineer.

Prior to excavation, the Contractor shall cover all drainage structures that may be affected by the work. The structures shall remain covered until the new concrete has set and the area has been cleaned.

The Contractor shall take all precautions necessary not to damage that portion of the deck, including reinforcing steel, which is to remain. This includes determining the concrete cover to the steel bars at the edge of each patch prior to excavating concrete.

The edges of all areas where concrete is removed under Items 127.1, 127.4, and 127.41 shall be cut to neat lines by saw cutting or by methods approved by the Engineer, to a depth of 3/4 inch, and all costs in connection with such work shall be incidental to the pertinent item. Excavated areas shall be made rectangular in shape [as much as possible], with horizontal and vertical edges and square corners.

In case the reinforcing bars are exposed, the minimum depth of all cement concrete areas to be excavated shall be one (1) inch below the bottom of the top layer of longitudinal reinforcing steel throughout the entire excavated area.

Concrete removal equipment shall be of the following types:

Pneumatic and Power-Driven Chipping Hammers: In no event shall any pneumatic or power hammer weighing in excess of twenty-five (25) pounds be used for the removal of concrete. The Contractor will be restricted to fifteen (15) pound chipping hammers when work involves repairs to slabs of prestressed concrete adjacent deck or box beams.

Abrasive Blasting Equipment: Abrasive blasting equipment shall be capable of removing rust and old concrete from exposed reinforcing steel when required by the Engineer.

During the prosecution of this work, the Engineer may reject the use of any method or equipment which causes undue vibration or possible damage to the structure or any part thereof.

ITEMS 127.1, 127.4 and 127.41 (Continued)

Bobcats/Skid Steers will be allowed only to collect debris from the deck surface and will not be allowed to remove concrete from the patch area. All concrete debris shall be removed by hand or by using hand tools. The smaller pieces may be blown out using an oil free compressed air after first being wetted with water to control airborne particulates.

Also, included under these Items are all costs in connection with the cleaning, cutting, and bending of the existing reinforcing steel designated to be retained in the proposed construction. Any existing reinforcing steel damaged or otherwise made unsatisfactory for continued use as a result of the Contractor's operations shall be replaced at the Contractor's expense. All reinforcing steel with active rusting encountered in the excavation shall be thoroughly cleaned by abrasive blasting. Any reinforcing steel that is unsuitable for further use through no fault of the Contractor shall be replaced under Item 910.1. All reinforcing steel that is loose shall be tied tightly together using wire ties. Ties are required at every other intersection of transverse and longitudinal reinforcing.

Temporary Protective Shielding must be used on bridges over the roadway during full depth excavation and when, in the opinion of the Engineer, there is the possibility of dislodging concrete from the bottom of the deck.

The Contractor shall take all measures necessary to protect pedestrian, vehicular traffic, waterway, or railroad below from the construction operations. No debris, tools or incidental equipment of any kind will be permitted to fall into areas where vehicular or pedestrian traffic exists. Any material that accidentally falls into such areas shall be removed immediately.

METHOD OF MEASUREMENT

Items 127.1 and 127.41 will be measured for payment respectively by the Cubic Yard of reinforced concrete excavated and properly disposed of. Item 127.4 will be measured for payment by the Square Yard of reinforced concrete excavated and properly disposed of.

BASIS OF PAYMENT

Items 127.1 and 127.41 will be paid for at the respective Contract unit prices per Cubic Yard, which price shall include all labor, materials, equipment, sawcutting, removal of any hot mix asphalt, waterproof membrane, cleaning, cutting, and bending of the existing reinforcing steel designated to be retained, and all incidental costs required to complete the work.

Item 127.4 will be paid for at the Contract unit price per Square Yard, which price shall include all labor, materials, equipment, sawcutting, removal of any hot mix asphalt, waterproof membrane, cleaning, cutting, and bending of the existing reinforcing steel designated to be retained, and all incidental costs required to complete the work.

Item 127.1 will compensate the Contractor for excavation performed on sidewalks, parapets, and when deck excavation is within 3 feet from joint centerline.

Items 127.4 and 127.41 will compensate the contractor for excavation performed on the bridge deck (full depth or partial depth).

ITEMS 127.1, 127.4 and 127.41 (Continued)

This is intended for patchwork repairs. Bridges that will be fully stripped shall have this paid under Item 129.6. The cost for the removal of hot mix asphalt and any membrane waterproofing above the area of reinforced concrete excavation shall be incidental to respective Items 127.4 and 127.41.

The Contractor will be paid under either Item 127.1, 127.4 or 127.41 for excavated concrete. In no case the Contractor shall be paid under more than one Item for the same excavated material.

New reinforcing steel will be paid under Item 910.1

Temporary protective shielding will be paid under Items 994.1.

ITEM 129.6**BRIDGE PAVEMENT EXCAVATION****SQUARE YARD**

The work under this item shall conform to the relevant portions of Subsection 120 of the Standard Specifications and the following.

The work shall include excavating existing pavement (HMA wearing surface) from bridge decks and removing the membrane waterproofing.

CONSTRUCTION METHODS

The full depth of the bridge pavement shall be removed by mechanical means, using a method that shall not damage the bridge deck or structure. All remnants of the membrane waterproofing shall be removed from the bridge deck. All material removed shall become the property of the Contractor and shall be disposed of offsite. The Contractor shall be aware that the existing depth of pavement on the bridge may vary.

Excavation by milling machine or cold planer will not be allowed.

When using mechanical methods to remove existing pavement and membrane, variations in the surface profile shall not exceed $\frac{1}{4}$ inch (peak to valley). Surfaces shall be trimmed free of rough spots, projections or other defects which might puncture the membrane waterproofing.

The Contractor shall submit to the Engineer for approval the type of machine that will be used. Any bridge deck damaged by the Contractor's operations shall be repaired at the Contractor's own expense.

METHOD OF MEASUREMENT

Item 129.6 will be measured for payment by the Square Yard, measuring the full area of the excavated bridge deck. Bridge joints, scuppers, or other areas not excavated will not be included in the area measured. No adjustment will be made to the area measured for existing bridge pavement depths greater or less than originally estimated.

BASIS OF PAYMENT

Item 129.6 will be paid for at the Contract unit price per Square Yard, which price shall include all labor, materials, equipment, and incidental costs required to complete the work.

ITEM 180.01 ENVIRONMENTAL HEALTH AND SAFETY PROGRAM LUMP SUM

The work shall consist of ensuring the health and safety of the Contractor's employees and subcontracting personnel, the Engineer, their representatives, the environment, and public welfare from any on-site chemical contamination present in air, soil, water and sediment.

The Contractor shall prepare and implement a site-specific Environmental Health and Safety Plan (EHASP) which has been approved and stamped by a Certified Industrial Hygienist (CIH) and includes the preparer's name and work experience. The EHASP shall include appropriate components required by OSHA Standard 29 CFR 1910.120(b) and the Massachusetts Contingency plan (MCP) 310 CMR 40.0018 and must comply with all applicable state and federal laws, regulations, standards and guidelines, and provide a degree of protection and training appropriate for implementation on the project. The EHASP shall be a dynamic document with provision for change to reflect new information, new practices or procedures, changing site environmental conditions or other situations which may affect site workers and the public. The EHASP shall be developed and implemented independently from the standard construction HASP required to work on all MassDOT construction projects.

Health and safety procedures provided by the Contractor shall comply with all the appropriate regulations that address employee working conditions, including but not limited to standards established by OSHA and National Institute for Occupational Safety and Health (NIOSH). Equipment used for the purpose of health and safety shall be approved by and meet pertinent standards and specifications of the appropriate regulatory agencies.

A copy of the most up-to-date version of the EHASP shall be maintained on-site at all times by the Contractor. The on-site copy shall contain the signature of the Engineer and each on-site employee of the MassDOT, Contractor, and Subcontractors involved with on-site activities. The employee's signature on the EHASP shall be deemed prima facie evidence that the employee has read and understands the plan. Updated copies of signature sheets shall be submitted to the Engineer.

The EHASP shall specify a Contractor Site Safety and Health Officer responsible for implementation of the EHASP and to oversee all construction activities, including handling, storage, sampling and transport, which require contact with or exposure to potentially hazardous materials.

The level of protection, required to ensure the health and safety of on-site personnel will be stipulated in the EHASP. The Site Safety and Health Officer shall implement the EHASP based on changing site and weather conditions, type of operation or activity, chemical compounds identified on-site, concentration of the chemicals, air monitoring data, physical state of the hazardous materials, potential duration of exposure to hazardous materials, dexterity required to perform work, decontamination procedures, necessary personnel and type of equipment to be utilized.

ITEM 180.01 (Continued)

During implementation of the EHASP, a daily log shall be kept by the Site Safety and Health Officer and a copy shall be provided weekly to the Engineer. This log shall be used to record a description of the weather conditions, levels of personal protection being employed, screening data and any other information relevant to on-site environmental safety conditions. The Site Safety and Health Officer shall sign and date the daily log.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Preparation and implementation of the Environmental Health and Safety Program, including the monitoring, protection and storage of all contaminated materials, as well as subsequent modifications to the EHASP, will be measured and paid for at the Lump Sum Bid Price.

Payment of 50% of the Environmental Health and Safety Program contract price will be made upon the initial acceptance of the EHASP by the Engineer. Payment of the remaining 50% of the Environmental Health and Safety Program contract price will be made upon completion of the work. The bid price shall include preparation and implementation of the EHASP as well as the cost for its enforcement by the Site Safety and Health Officer along with any necessary revisions and updates. The work of implementing the Environmental Health and Safety Program includes work involving, but not limited to, the monitoring, protection, and storage of all contaminated materials.

ITEM 180.02**PERSONAL PROTECTION LEVEL C UPGRADE** **HOUR**

The work shall consist of providing appropriate personal protective equipment (PPE) for all personnel in an area either containing or suspected of containing a hazardous environment.

Contingencies for upgrading the level of protection for on-site workers will be identified in the EHASP and the Contractor shall have the capability to implement the personal protection upgrade in a timely manner. The protective equipment and its use shall be in compliance with the EHASP and all appropriate regulations and/or standards for employee working conditions.

Personal Protection Level C Upgrade will be measured and paid only upon upgrade to Level C and will be at the contract unit price, per hour, per worker, required in Level C personal protection. No payment will be made to the Contractor to provide Level D PPE.

ITEM 180.03**LICENSED SITE PROFESSIONAL SERVICES****HOUR**

Within limited areas of the project site, media (i.e. soils, sediments, surface water and/or groundwater) requiring evaluation and/or management under the Massachusetts Contingency Plan (MCP) may be encountered. A Licensed Site Professional (LSP) shall be required to provide the services necessary to comply with the requirements of the MCP. These services may include a site walk, field screening, sampling, analysis and characterization of potentially contaminated media, preparation and implementation of Immediate Response Action (IRA) Plans, Utility-Related Abatement Measure (URAM) and Release Abatement Measure (RAM) Plans, Imminent Hazard Evaluations, status reports, transmittal forms, release notification forms, risk assessments, completion statements, and related documents required pursuant to the MCP. LSP services shall also be necessary to temporarily move material generated on the project to an off-site storage location.

The name and qualifications of the LSP and all environmental technicians to be assigned to the project shall be submitted to the Engineer for approval at least four weeks prior to initial site activities. The LSP shall have a current, valid license issued by the Massachusetts Board of Registration of Hazardous Waste Site Cleanup Professionals. The LSP shall have significant experience in the oversight of MCP activities at active construction sites. Qualification packages for the LSP and each technician shall include a resume, all recent work assignments with responsibilities identified (previous 5 years), and applicable training and certifications. A list of all Notices of Noncompliance, Notice of Audit Findings and Enforcement Orders issued by the Massachusetts Department of Environmental Protection (DEP) shall be submitted for all work assignments listed for the LSP and environmental technicians. Upon approval of the LSP Qualifications, the LSP will be designated as the LSP of Record unless MassDOT designates in writing otherwise. The LSP of Record will serve as the primary point of contact for all hazardous material matters on the project.

The LSP shall evaluate soil and/or sediment with discoloration, odor, elevated field screening results, presence of petroleum liquid or sheen on the groundwater surface, or any abnormal gas or materials in the ground which are known or suspected to be oil or hazardous materials. Excavated soil and sediment which is suspected of petroleum contamination shall be field screened using the jar headspace procedures according to established DEP Guidance. All field screening equipment must be pre-approved by the Engineer. The LSP shall ensure proper on-site calibration of all field screening instrumentation.

The Engineer shall be contacted immediately when observations or any field screening results verify contamination requiring further analysis, and/or enhanced management of suspect media. Any enhanced management of contaminated soil to ensure proper stockpiling and storage is incidental to the LSP Services item. The LSP shall evaluate the need for confirmatory sampling prior to backfill in areas where contaminated material has been excavated and disposed off-site for compliance with applicable regulatory requirements. The Engineer shall approve the locations of the testing sites prior to the sampling.

ITEM 180.03 (Continued)

Contaminated media shall be handled in accordance with all applicable state and federal statutes, regulations, and policies. The LSP shall adequately evaluate contaminated media for compliance with the requirements of the MCP and Department Policies.

The Contractor and the LSP shall be aware of the reporting requirements for releases of oil and/or other hazardous material (OHM) as set forth in federal and state laws and regulations and both shall be held responsible for performing the work in accordance with all applicable Federal and State laws and regulations. The LSP shall maintain written records in a clear and concise tabular format which tracks the excavation, stockpiling, analysis and reuse/disposal of all known/suspect contaminated media. These records shall be up-to-date and submitted to the Engineer on a bi-weekly basis. The LSP shall review and summarize the laboratory data from any analyses performed on contaminated media in a tabular format and compare the results to applicable reporting thresholds. A report shall be delivered to the Engineer outlining the material sampling methods, laboratory analysis results, evaluation of applicable regulatory exemptions, reporting obligations, and proposed course of action. The laboratory report together with Chain of Custody forms for all analytical results shall be submitted to the Engineer within 14 days after completion of such analyses.

The LSP and Contractor shall be held responsible for the submission of all MCP-related documents to the Engineer at least 14 days in advance of any timeframe specified in the MCP and for the timely submission of data and tracking information as noted within this Item. All documents prepared under this Item must be reviewed and signed by the approved LSP. The Contractor and LSP shall be responsible for all fines, damages, and enforcement requirements imposed by applicable regulatory agencies for failure to meet regulatory and contract timeframes. No compensation will be provided for such fines, damages, and enforcement actions.

The Contractor and the LSP shall be aware of the reporting requirements for releases of oil and/or other hazardous material (OHM) as set forth in federal and state laws and regulations and shall both be held responsible for performing the work in accordance with all applicable Federal and State laws and regulations.

If the Contractor causes a release of OHM, the Contractor shall be responsible for assessing and remediating the release in accordance with all pertinent State and Federal regulations, including securing the services of a LSP, at his own expense.

The LSP shall coordinate all activities involving both MassDOT and the DEP through the Engineer. Any notification of release shall be approved by the Engineer before submittal to the DEP, except if an imminent hazard condition exists as defined in 309 CMR 4.03(4)(b).

ITEM 180.03 (Continued)**LABORATORY TESTING IN SUPPORT OF LSP SERVICES**

Laboratory testing provides for analytical testing in support of LSP services related to maintaining MCP compliance, such as delineating the extent and type of contamination present. Sampling and testing for disposal purposes are not included and are incidental to Items 181.11-181.14.

In order to maintain compliance with the MCP and Department Policies or other regulatory requirements, the LSP shall request approval from the Engineer to obtain samples from various locations and depths within the project area and to perform laboratory analyses on those samples. No sampling shall be conducted without prior approval from the Engineer. The samples shall be delivered to a DEP-certified laboratory using proper chain-of-custody documentation for analyses which, depending upon site conditions and suspected and/or identified contaminants of concern, may include, but are not limited to, metals, polychlorinated biphenyls (PCBs), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, polycyclic aromatic hydrocarbons (PAHs), extractable petroleum hydrocarbons (EPHs) and volatile petroleum hydrocarbons (VPHs). Subsequent testing, depending upon initial results, may be required for Toxicity Characteristic Leaching Procedure (TCLP) analyses (EPA Method 1311) for metals.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

LSP Services for work under this item will be measured per person, per hour of service provided by LSP, Environmental Technicians and other approved personnel. Travel time shall not be included in the billable hours.

The quantity and type of laboratory tests must be approved by the Engineer beforehand. The Contractor will be reimbursed upon satisfactory written evidence of payment. The Contractor may be required to obtain cost estimates from three DEP certified laboratories for the Engineer to choose the service provider.

LSP Services will be paid at the Contractor bid price for each hour, or fraction thereof, spent to perform the work as described above. The bid price shall be a blended rate that includes the cost of the LSP, environmental technicians and other personnel, the performance of all work tasks and field screening, including required equipment, materials and instrumentation, and production of all documentation described above. All requests for payment must be accompanied by the following information: the names of the personnel associated with the work charged under LSP Services, dates and hours worked, work conducted, including, where appropriate, locations as identified on the construction plans, and a copy of the field diary for the dates submitted.

Laboratory testing will be reimbursed upon receipt of paid invoices for testing approved by the Engineer.

This item is for LSP work for compliance with the MCP and Department Policies. LSP hours and any laboratory testing related to off-site disposal of excess soil and sediment is incidental to Items 181.11-181.14 (including, but not limited to, disposal characterization, disposal package preparation, landfill acceptance, shipment paperwork preparation, field screening, and tracking).

<u>ITEM 181.11</u>	<u>DISPOSAL OF UNREGULATED SOIL</u>	<u>TON</u>
<u>ITEM 181.12</u>	<u>DISPOSAL OF REGULATED SOIL-IN-STATE FACILITY</u>	<u>TON</u>
<u>ITEM 181.13</u>	<u>DISPOSAL OF REGULATED SOIL -OUT-OF-STATE FACILITY</u>	<u>TON</u>
<u>ITEM 181.14</u>	<u>DISPOSAL OF HAZARDOUS WASTE</u>	<u>TON</u>

The work under these Items shall include the transportation and disposal of contaminated material excavated, or excavated and stockpiled. It shall also include the cost of any additional laboratory analyses required by a particular disposal facility beyond the standard disposal test set.

Excavation of existing subsurface materials may include the excavation of contaminated soils. The Contractor shall be responsible for the proper coordination of characterization, transport and disposal, recycling or reuse of contaminated soils. Disposal, recycling or reuse will be referred to as “disposal” for the purposes of this specification. However, regardless of the use of the term herein, there will be no compensation under these items for reuse within the project limits. The Contractor will be responsible for coordinating the activities necessary for characterization, transport and disposal of contaminated soils. Such coordination will include the Engineer and his/her designee overseeing management of contaminated materials. Contaminated soils must be disposed of in a manner appropriate for the soil classification as described below and in accordance with the applicable laws of local, state and federal authorities. The Contractor shall be responsible for identifying disposal facility (ies) licensed to accept the class of contaminated soils to be managed and assure that the facility can accept the anticipated volume of soil contemplated by the project. The Contractor shall be responsible for hiring a Licensed Site Professional (LSP) and all ancillary professional services including laboratories as needed for this work. The Contractor will be responsible for obtaining all permits, approvals, manifests, waste profiles, Bills of Lading, etc. subject to the approval of the Engineer prior to the removal of the contaminated soil from the site. The Contractor and LSP shall prepare and submit to the Engineer for approval all documents required under the Massachusetts Contingency Plan (MCP) and related laws and environmental regulations to conduct characterization, transport, and disposal of contaminated materials.

CLASSES OF CONTAMINATED SOILS

The Contractor and its LSP shall determine if soil excavated or soil to be excavated is unregulated soil or contaminated soil as defined in this section. Such materials shall be given a designation for purposes of reuse or disposal based on the criteria of the MCP. Soils and sediments which are not suitable for reuse will be given a designation for purposes of off-site disposal based on the characterization data and disposal facility license requirements. The Classes of Contaminated Soils are defined as follows:

UNREGULATED SOIL consists of soil, fill and dredged material with measured levels of oil and hazardous material (OHM) contamination at concentrations below the applicable Reportable Concentrations (RCs) presented in the MCP. Unregulated soil consists of material which may be reused (or otherwise disposed) as fill within the Commonwealth of Massachusetts subject to the non-degradation criteria of the MCP (310 CMR 40.0032(3), in a restricted manner, such that they are sent to a location with equal or higher concentrations of similar contaminants. Disposal areas include licensed disposal facilities, approved industrial settings in areas which will be capped or covered with pavement or loamed and seeded, and for purposes of this project should be reused as fill within the project site construction corridor whenever possible. The material cannot be placed in residential and/or environmentally sensitive (e.g. wetlands) areas. Under no circumstances shall contaminated soils be placed in an uncontaminated or less contaminated area (including the area above the groundwater table if this area shows no sign of contamination).

ITEMS 181.11 through 181.14 (Continued)

The Contractor shall submit to MassDOT the proposed disposal location for unregulated soils for approval. If such a disposal location is not a licensed disposal facility, the Contractor shall submit to the Engineer analytical data to characterize the disposal area sufficiently to verify that the unregulated material generated within the MassDOT construction project limits is equal to or less than the contaminant levels at the disposal site and meets the non-degradation requirements of the MCP. In addition, the Contractor shall provide written confirmation from the owner of the proposed disposal location that they have been provided with the analytical data for both the materials to be disposed as well as the disposal site characterization and that s/he agrees to accept this material. A Material Shipping Record or Bill of Lading, as appropriate, shall be used to track the off-site disposal of unregulated soil and a copy, signed by the disposal facility or property owner, shall be provided to the Engineer in order to document legal disposal of the unregulated material.

The cost of on-site disposal of unregulated soil within the project area will be considered incidental to the item of work to which it pertains.

REGULATED SOIL consists of materials containing measurable levels of OHM that are equal to or exceed the applicable Reportable Concentrations for the site as defined by the MCP, 310 CMR 40.0000. Regulated soil which meets the MCP reuse criteria of the applicable soil/groundwater category for this project area may be reused on site provided that it meets the appropriate geotechnical criteria established by the Engineer. Regulated Soil may be reused (as daily or intermediate cover or pre-cap contouring material) or disposed (as buried waste) at lined landfills within the Commonwealth of Massachusetts or at an unlined landfill that is approved by the Massachusetts Department of Environmental Protection (DEP) for accepting such material, in accordance with DEP Policy #COMM-97-001, or at a similar out-of-state facility. It should be noted that soils which exceed the levels and criteria for disposal at in-state landfills, as outlined in COMM-97-001, may be shipped to an in-state landfill, but require approval from the DEP Division of Solid Waste Management and receiving facility. An additional management alternative for this material is recycling into asphalt. Regulated Soils may also be recycled at a DEP approved recycling facility possessing a Class A recycling permit subject to acceptance by the facility and compliance with DEP Policy #BWSC-94-400. Regulated Soil removed from the site for disposal or treatment must be removed via an LSP approved Bill of Lading, Manifest or applicable material tracking form. This type of facility shall be approved/permitted by the State in which it operates to accept the class of contaminated soil in accordance with all applicable local, state and federal regulations.

HAZARDOUS WASTE consists of materials which must be disposed of at a facility permitted and operated in full compliance with Federal Regulation 40 CFR 260-265, Massachusetts Regulation 310 CMR 30.000, Toxic Substances Control Act (TSCA) regulations, or the equivalent regulations of other states, and all other applicable local, state, and federal regulations. All excavated materials classified as hazardous waste shall be disposed of at an out-of-state permitted facility. This facility shall be a RCRA hazardous waste or TSCA facility, or RCRA hazardous waste incinerator. This type of facility shall be approved/permitted by the State in which it operates to accept hazardous waste in accordance with all applicable local, state and federal regulations and shall be permitted to accept all contamination which may be present in the soil excavate.

ITEMS 181.11 through 181.14 (Continued)

The Contractor shall ensure that, when needed, the facility can accept TSCA waste materials i.e. polychlorinated biphenyls (PCBs). Hazardous waste must be removed from the site for disposal or treatment via an LSP approved Manifest.

MONITORING/SAMPLING/TESTING REQUIREMENTS

The Contractor shall be responsible for monitoring, sampling and testing during and following excavation of contaminated soils to determine the specific class of contaminated material. Monitoring, sampling and testing frequency and techniques should be performed in accordance with Item 180.03 – LSP Services. Additional sampling and analysis may be necessary to meet the requirements of the disposal facility license. The cost of such additional sampling and analysis shall be included in the bid cost for the applicable disposal items. The Contractor shall obtain sufficient information to demonstrate that the contaminated soil meets the disposal criteria set by the receiving facility that will accept the material.

No excavated material will be permanently placed on-site or removed for off-site disposal until the results of chemical analyses have been received and the materials have been properly classified. The Contractor shall submit to the Engineer results of field and laboratory chemical analyses tests within seven days after their completion, accompanied by the classification of the material determined by the Contractor, and the intended disposition of the material. The Contractor shall submit to the Engineer for review all plans and documents relevant to LSP services, including but not limited to, all documents that must be submitted to the DEP.

WASTE TRACKING:

Copies of the fully executed Weight Slips/Bills of Lading/ Manifests/Material Shipping Records or other material tracking form received by the Contractor from each disposal facility and for each load disposed of at that facility, shall be submitted to Engineer and the Contractor's LSP within three days of receipt by the Contractor. The Contractor is responsible for preparing and submitting such documents for review and signature by the LSP or other appropriate person with signatory authority, three days in advance of transporting soil off-site. The Contractor shall furnish a form attached to each manifest or other material tracking form for all material removed off-site, certifying that the material was delivered to the site approved for the class of material. If the proposed disposition of the material is for reuse within the project construction corridor, the Contractor shall cooperate with MassDOT to obtain a suitable representative sample(s) of the material to establish its structural characteristics in order to meet the applicable structural requirements as fill for the project.

All material transported off-site shall be loaded by the Contractor into properly licensed and permitted vehicles and transported directly to the selected disposal or recycling facility and be accompanied by the applicable shipping paper. At a minimum, truck bodies must be structurally sound with sealed tail gates, and trucks shall be lined and loads covered with a liner, which shall be placed to form a continuous waterproof tarpaulin to protect the load from wind and rain.

ITEMS 181.11 through 181.14 (Continued)**DECONTAMINATION OF EQUIPMENT**

Tools and equipment which are to be taken from and reused off site shall be decontaminated in accordance with applicable local, state and federal regulations. This requirement shall include, but not be limited to, all tools, heavy machinery and excavating and hauling equipment used during excavation, stockpiling and handling of contaminated material. Decontamination of equipment is considered incidental to the applicable excavation item.

REGULATORY REQUIREMENTS

The Contractor shall be responsible for adhering to regulations, specifications and recognized standard practices related to contaminated material handling during excavation and disposal activities. MassDOT shall not be responsible at any time for the Contractor's violation of pertinent State or Federal regulations or endangerment of laborers and others. The Contractor shall comply with all rules, regulations, laws, permits and ordinances of all authorities having jurisdiction including, but not limited to, Massachusetts DEP, the U.S. Environmental Protection Agency (EPA), Federal Department of Transportation (DOT), Massachusetts Water Resources Authority (MWRA), the Commonwealth of Massachusetts and other applicable local, state and federal agencies governing the disposal of contaminated soils.

All labor, materials, equipment and services necessary to make the work comply with such regulations shall be provided by the Contractor without additional cost to MassDOT. Whenever there is a conflict or overlap within the regulations, the most stringent provisions shall apply. The Contractor shall reimburse MassDOT for all costs it incurs, including damages and/or fines, as a result of the Contractor's failure to adhere to the regulations, specifications, recognized standard practices, etc., that relate to contaminated material handling, transportation and disposal.

SUBMITTALS**I. Summary of Sampling Results, Classification of Material and Proposed Disposal Option.**

The following information, presented in tabular format, must be submitted to the Engineer for review and approval prior to any reuse on-site or disposal off-site. This requirement is on-going throughout the project duration. At least two weeks prior to the start of any excavation activity, the Contractor shall submit a tracking template to be used to present the information as stipulated below. Excavation will not begin until the format is acceptable to MassDOT.

Characterization Reports will be submitted for all soil, sediment, debris and groundwater characterized through the sampling and analysis program. Each report will include a site plan which identifies the sampling locations represented in the Report. The Construction Plan sheets may be used as a baseplan to record this information.

The Sampling Results will be presented in tabular format. Each sample will be identified by appropriate identification matching the sample identification shown on the Chain of Custody Record. The sample must also be identified by location (e.g. grid number or stockpile number). For each sample, the following information must be listed: the classification (unregulated, regulated, etc.), proposed disposal option for the stockpile or unit of material represented, and, all analytical results.

ITEMS 181.11 through 181.14 (Continued)

Each Characterization Report will include the laboratory analytical report and Chain of Custody Record for the samples included in the Report.

II. Stockpiling, Transport, and Disposal.

At least two weeks prior to the start of any excavation activity, the Contractor shall submit, in writing, the following for review and shall not begin excavation activity until the entire submittal is acceptable to MassDOT.

Excavation and Stockpiling Protocol:

Provide a written description of the management protocols for performing excavation and stockpiling and/or direct loading for transport, referencing the locations and methods of excavating and stockpiling excavated material.

Disposal and Recycling Facilities:

1. Provide the name, address, applicable licenses and approved waste profile for disposal and/or recycling location(s) where contaminated soil will be disposed. Present information substantiating the suitability of proposed sites to receive classifications of materials intended to be disposed there, including the ability of the facility to accept anticipated volumes of material.
2. Provide a summary of the history of compliance actions for each disposal/recycling facility proposed to be used by the Contractor. The compliance history shall include a comprehensive list of any state or federal citations, notices of non-compliance, consent decrees or violations relative to the management of waste (including remediation waste) at the facility. Material should not be sent to facilities which are actively considered by the DEP, USEPA or other responsible agency to be in violation of federal, state or local hazardous waste or hazardous material regulations. MassDOT reserves the right to reject any facility on the basis of poor compliance history.

Transportation:

The name, address, applicable license and insurance certificates of the licensed hauler(s) and equipment and handling methods to be used in excavation, segregation, transport, disposal or recycling.

III. Material Tracking and Analytical Documentation for Reuse/Disposal.

The following documents are required for all excavation, reuse and disposal operations and shall be in the format described. At least two weeks prior to the start of any excavation or demolition activity, the Contractor shall submit the tracking templates required to present the information as stipulated below. Excavation or demolition will not begin until the format is acceptable to MassDOT.

ITEMS 181.11 through 181.14 (Continued)

All soils, sediments and demolition debris must be tracked from the point of excavation to stockpiling to onsite treatment/processing operations to off-site disposal or onsite reuse as applicable.

Demolition Debris:

Demolition debris must be tracked if the debris is stockpiled at a location other than the point of origin or if treatment or material processing is conducted. Identification of locations will be based on the station-offset of the location. The tracking table will identify date and point of generation, any field screening such as PID or dust monitoring, visual observations/comments, quantity, and stockpile ID/processing operation location. For each unit of material tracked, the table will also track reuse of the material on-site, providing reuse date, location of reuse as defined by start and end station, width of reuse location by offset, the fill elevation range, quantity, and finish grade for said location. For demolition debris which is not reused on site, the table will also track disposal of the material as defined by disposal date, quantity and disposal facility. The table must provide a reference to any analytical data generated for the material.

Soil/Sediment:

Soil excavation will be identified based on the station-offset of the excavation location limits. The tracking table will identify date and point of generation, any field screening such as PID or dust monitoring, visual observations, quantity, and stockpile number/location. For each unit of material tracked, the table will also track reuse of the material on-site and disposal of the material off-site using the same categories identified for demolition debris above.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Disposal of contaminated soil shall be measured for payment by the Ton of actual and verified weight of contaminated materials removed and disposed of. The quantities will be determined only by weight slips issued by and signed by the disposal facility. The most cost-effective, legal disposal method shall be used. The work of the LSP for disposal under all of these items shall be incidental to the work with no additional compensation.

ITEM 181.11 Measurement for Disposal of Unregulated Soil shall be under the Contract Unit Price by the weight, in tons, of contaminated materials removed from the site and transported to and disposed of at an approved location or licensed facility, and includes any and all costs for approvals, permits, fees and taxes, additional testing/characterization required by the facility beyond the standard disposal test set, decontamination procedures, transportation and disposal.

ITEM 181.12 Measurement for Disposal of Regulated Soil – In-State Facility shall be under the Contract Unit Price by the weight in tons of contaminated materials removed from the site and transported to and disposed of at an approved in-state facility, and includes any and all costs for approvals, permits, fees and taxes, testing/characterization required by the facility beyond the standard disposal test set, decontamination procedures, transportation and disposal.

ITEMS 181.11 through 181.14 (Continued)

ITEM 181.13 Measurement for Disposal of Regulated Soil - Out-of-State Facility shall be under the Contract Unit Price by the weight in tons of contaminated materials removed from the site and transported to and disposed of at an approved out-of-state facility, and includes any and all costs for approvals, permits, fees and taxes, testing/characterization required by the facility beyond the standard disposal test set, decontamination procedures, transportation and disposal.

ITEM 181.14 Measurement for Disposal of Hazardous Waste shall be under the Contract Unit Price by the weight in tons of hazardous waste removed from the site and transported to and disposed of at the licensed hazardous waste facility, and includes any and all costs for approvals, permits, fees and taxes, testing/characterization required by the facility beyond the standard disposal test set, decontamination procedures, transportation and disposal.

<u>ITEM 220.01</u>	<u>2 FT X 4 FT DROP INLET ADJUSTED</u>	<u>EACH</u>
<u>ITEM 220.02</u>	<u>2 FT X 4 FT DROP INLET TOP REBUILT</u>	<u>EACH</u>

The work under these Items shall conform to the relevant provisions of Subsection 220 of the Standard Specifications and the following:

The work shall consist of adjusting and rebuilding drop inlets (2 ft x 4 ft) and cleaning and applying epoxy coatings to the interior of drop inlets as required.

All work involved in the modification and/or reconstruction of drop inlets shall be completed prior to any roadway resurfacing.

The Contractor shall, in the presence of the Engineer, remove the grates from all drop inlets in the scheduled work area for the purpose of inspection. The Engineer will note the condition of the grate at each inlet and determine whether they are suitable for re-use.

Each grate shall be replaced immediately after the inspection. The inspection shall be completed before any work begins on drop inlets in the particular work area.

During construction, the Contractor shall cover with a steel plate, pinned by a method acceptable to the Engineer, any inlet that will have its frame and grate off outside of the normal work shift.

Frames stored in the median or on the shoulder shall lie flat on the ground. One (1) reflectorized drum is required when work of frame setting and backfilling is completed.

Drop Inlets shall be adjusted, rebuilt, and repaired in accordance with the sketch plans included in this Contract.

CONSTRUCTION METHODS

Prior to performing any work, all sand, sediment, debris, and foreign material shall be cleaned from the bottom of the drop inlet and drainage pipes.

The Contractor will be responsible for the protection of the castings. Any frames damaged during the progress of the construction shall be replaced by the Contractor, at no additional cost to the Department.

DROP INLETS ADJUSTED

The work consists of removing and adjusting inlet frames and grates at locations determined by the Engineer and in the manner shown on the Plans.

The inlet frames and grates shall be thoroughly cleaned with chipping hammers, abrasive blasting, and other means as necessary so that all surfaces are free of rust, chunks of concrete or other foreign materials to the satisfaction of the Engineer. The castings shall then be stored and protected from damage until required for reuse.

After the grate and frame have been removed, all existing concrete shall be removed from the top of the drop inlet and disposed of. All deteriorated concrete shall be removed from the top of the drop inlet.

ITEMS 220.01 and 220.02 (Continued)

Any remaining smooth areas shall be thoroughly roughened with chipping hammers to provide a good bond. The newly exposed surfaces shall be moistened with water and coated with a neat grout composed of water and Portland Cement immediately prior to placing the new concrete. The forms shall be placed snugly against the surface of the old concrete and extend beyond the edges a minimum of three inches. They shall be held securely in place and shall not move under the placement of the fresh concrete. The top of the collars shall be set in accordance with details shown on the Plans and/or as required by the Engineer to the proposed grade. The forms shall remain in place a minimum of 72 hours after which the forms shall be carefully removed and fins, spillage and irregularities of new concrete removed as required.

After the forms have been removed and the new concrete has been allowed to cure for a minimum of 14 days, the inlet frame shall be firmly set in a bed of mortar to an elevation parallel to the plane of the finished grade and ½-inch below it. Care shall be taken in order to minimize the required depth of the mortar bed which shall be ½-inch maximum. The use of excessive depths of mortar will not be permitted.

After the frame has been set, the entire interior surface of the drop inlet shall be abrasive blasted to remove all film from form oil, laitance, and other foreign substances such that the entire area is chemically clean. The area to be abrasive blasted shall be shielded such that no blast residue will escape. All abrasive and blast residue shall be removed from the interior of the structure and legally disposed. All new and old interior surfaces shall be given two coats of epoxy in different colors, as specified herein and in the manner recommended by the manufacturer.

The area around the frame and beneath the roadway pavement shall be backfilled with 4,000 PSI, 1½", 565 cement concrete to an elevation equal to the bottom of the finish pavement unless otherwise shown on the Plans or directed by the Engineer. The minimum depth of the 4,000 PSI, 1½", 565 cement concrete backfill shall be 8 inches. Concrete shall be cured in accordance with Section 900.

DROP INLET TOP REBUILT

When the deterioration extends more than 10 inches below the bottom of the casting the repair will be paid under the corresponding Drop Inlet Top Rebuilt item, instead the Drop Inlet Adjusted item.

The existing castings shall be removed, cleaned, stored, and reset as specified above.

The structure shall be rebuilt as specified above.

After the frame has been set, the entire interior surface and bottom of the drop inlet shall be abrasive blasted to remove all form oil film, laitance and other foreign substances such that the entire area is chemically clean. The area to be abrasive blasted shall be shielded such that no blast residue will escape. All abrasive and blast residue shall be removed from the interior of the structure and legally disposed. All concrete surfaces, including the bottom and all sides shall be given two coats of epoxy (in different colors) and in the manner recommended by the manufacturer.

ITEMS 220.01 and 220.02 (Continued)**MATERIALS**

Mortar for drainage structures shall be composed of equal parts of Portland cement and sand with enough water to form a workable mixture. The mixture shall be a stiff workable mixture without having to be re-tempered.

Cement concrete shall be 4,000 PSI, 3/4", 610.

Reinforcement for cement concrete masonry shall be epoxy coated reinforcing steel bars conforming to Section 900.

The epoxy coating for drop inlets shall be a two (2) component, solvent-free, high-solids, moisture-insensitive modified epoxy coating. It shall produce a high-build, protective, dampproofing, and waterproofing vapor-barrier system. It shall meet the following performance criteria:

A. Properties of the mixed epoxy coating:

1. Pot Life at 72°F: 45 Minutes
2. Tack-Free Time to Touch: 1 Hour
3. Solid: Greater than 50% with high build films up to 30 mils without sag

B. Properties of the cured epoxy resin coating:

1. Dries hard in less than 5 hours; full cure in less than 5 days
2. Resists alkali in accordance with ASTM D-543
3. Meets flexibility requirements per ASTM D-822
4. Resists water and hydrostatic pressures in accordance with Federal Specifications TTC-001224 and TT-P-001411.

METHOD OF MEASUREMENT

Item 220.01 will be measured for payment by the Each 2 ft x 4 ft drop inlet adjusted, complete in place.

Item 220.02 will be measured by the Each 2 ft x 4 ft drop inlet top rebuilt, complete in place.

BASIS OF PAYMENT

Item 220.01 will be paid for at the Contract unit price per Each, which price shall include all labor; materials; equipment; removing, cleaning, storing, protecting and resetting of frame and grate; excavation; demolition; removal and disposal of material; construction of the reinforced 4,000 PSI, 1-1/2", 565 cement concrete collar; cleaning the drop inlet; furnishing and applying epoxy coating; furnishing and placing cement concrete backfill; and all incidental costs required to complete the work.

ITEMS 220.01 and 220.02 (Continued)

Item 220.02 will be paid for at the Contract unit price per Each, which price shall include all labor; materials; equipment; removing, cleaning, storing, protecting, and resetting of frame; excavation; demolition; removal and disposal of material; furnishing, placing, and curing 4,000 PSI, 1-1/2", 565 cement concrete and steel reinforcement; cleaning the drop inlet; furnishing and applying epoxy coating; furnishing and placing cement concrete backfill; and all incidental costs required to complete the work.

Initial removal of drainage structure and pipe sediment, as required by the Engineer, will be paid for separately under Item 227.3 and Item 227.31, respectively. Any additional cleaning made necessary as a result of the Contractors work or cleaning required for application of epoxy coating shall be done by the Contractor at no additional cost.

ITEM 221.1**FRAME AND COVER - SECURED****EACH**

The work under this Item shall conform to the relevant provisions of Subsections 201, 220 and the following:

The work to be done under this Item consists of the furnishing and delivering Frame and Cover – Secured to the site as shown on the Plans, and as directed by the Engineer.

Frame and Cover - Secured assemblies shall consist of covers and frames that conform to the nominal size, weight, material and load-carrying requirements in MassDOT Construction Standard Details Drawing Numbers 221.0.1, 221.0.2, and 221.0.3, and are on the relevant MassDOT Qualified Construction Materials list. Some dimensions of secured manhole covers and frames may vary slightly from those shown on the standard details to account for necessary fastening components. The Contractor shall submit shop drawings of all drainage castings for approval prior to ordering.

Covers and frames shall be held securely together by bolting to threaded holes in the frame or to nuts or tumbler devices secured by the frame, by use of hooks attached to the cover or by any other means approved by MassDOT, to prevent being dislodged under traffic loading. Gaskets and other sealing devices will not be allowed.

METHOD OF MEASUREMENT

Item 221.1 will be measured per EACH Frame and Cover – Secured furnished and delivered to the site.

BASIS OF PAYMENT

Item 221.1 will be paid for at the Contract unit price EACH Frame and Cover – Secured furnished and delivered.

ITEM 280.2**CLEANING PAVED WATERWAYS****SQUARE YARD**

The work under this item shall conform to the relevant provision of Subsection 120. of the Standard Specifications and the following:

The work to be done under this Item shall consist of cleaning all existing paved waterways and aprons within the project limits as directed by the Engineer.

All dirt and debris shall be removed from the waterway surface. Weeds, grass and other growth along the edges of the waterway or in cracks in the waterway shall be completely removed.

METHOD OF MEASUREMENT

Item 280.2 will be measured for payment by the Square Yard of Cleaning Paved Waterways, with the measurement made prior to cleaning, and including only that area of the waterway surface that is covered by existing debris. No additional allowance or adjustment of the area measured will be made for any variable depth of the material removed.

BASIS OF PAYMENT

Item 280.2 will be paid for at the Contract unit price per Square Yard, which price shall include all labor, materials, equipment, and incidental costs required to complete the work.

ITEM 402.14**PAVEMENT MILLING MULCH FOR SHOULDERS****TON**

The work to be done shall conform to the relevant provisions of Subsection 769 of the Standard Specifications and the following:

The work consists of placing pavement millings in low spots and grading and compacting the pavement millings to provide lateral support at the edge of pavement in country drainage areas without berm, edging, or curb. Low areas along the edge of pavement shall be filled with pavement millings to a level flush with and graded to the same cross slope as the adjacent HMA shoulder. The existing unpaved shoulder shall be prepared for pavement milling mulch as necessary as determined by the Engineer. Milling mulch shall be graded and compacted to a minimum width of 3 feet from the edge of the pavement or as directed by the Engineer. Geotextile fabric under pavement milling mulch for shoulders is not required.

METHOD OF MEASUREMENT

Item 402.14 will be measured for payment by the Ton of pavement milling mulch for shoulders installed, complete in place.

BASIS OF PAYMENT

Item 402.14 will be paid for at the Contract unit price per Ton, which price shall include all labor, materials, equipment, and incidental costs required to complete the work.

ITEM 415.5**PAVEMENT MILLING FOR INLAY****FOOT**

The work under this Item shall conform to the relevant provisions of Subsection 415 of the Standard Specifications and the following:

The work under this Item consists of pavement milling for inlay is to mill a minimum of 84 inches wide, tapering from $\frac{3}{4}$ " to 0", to pave the ultra thin bonded overlay flush with the shoulder pavement to remain.

METHOD OF MEASUREMENT

Item 415.5 will be measured for payment by the longitudinal foot from which the milling of existing HMA pavement has been completed and the work accepted. This measurement includes the minimum 84" tapered width of milling. No deductions will be made for minor unmilled areas such as catch basin inlets, manholes, utility boxes and any similar utility structures.

BASIS OF PAYMENT

Item 415.5 will be paid for at the contract unit price per Foot, which price shall include all equipment, tools, labor, materials, removal and disposal of existing HMA pavement , and all incidental costs required to complete the work.. No additional payments will be made for multiple passes with the milling machine to remove the existing HMA surface to the grade specified.

No separate payments will be made for: performing handwork removal of existing pavement and providing protection around catch basin inlets, manholes, utility valve boxes and any similar structures; repairing surface defects as a result of the Contractor's negligence; providing protection to underground utilities from the vibration of the milling operation; sawcutting milled limits; installing and removing any temporary transition; removing and disposing of millings; furnishing a sweeper and sweeping after milling but all costs in connection therewith shall be included in the unit price for these bid Item (415.5).

<u>ITEM 457.1</u>	<u>SUPERPAVE WATERPROOFING SURFACE</u>	<u>TON</u>
	<u>COURSE – 9.5 (SSC-W-9.5)</u>	
<u>ITEM 457.2</u>	<u>SUPERPAVE WATERPROOFING SURFACE</u>	<u>TON</u>
	<u>COURSE – 12.5 (SSC-W-12.5)</u>	

The under these Items shall conform to the relevant provisions of SUBSECTION 457 SUPERPAVE WATERPROOFING SURFACE COURSE contained herein Document 00714.

<u>ITEM 482.2</u>	<u>HOUT POURED JOINT SEALER</u>	<u>FOOT</u>
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The work under this Item is primarily at the interface between the cast-in-place concrete bridge backwall and the approach roadway pavement. This Item shall be between the curved radius of the concrete backwall and the hot mix asphalt of the approach roadway.

MATERIALS

Joint seal material shall be an asphalt rubber compound of the hot poured type conforming to subsection M3.05.2, & ASTM D6690 Type II with a minimum 15% ground reclaimed tire rubber. Preformed filler, if required, shall conform to Materials Specification M9.14.0 and shall be able to withstand the elevated temperatures of the hot poured joint sealer application. Payment for this filler will be included under this Item.

METHODS OF CONSTRUCTION

All existing areas where the joint sealer is to be placed shall be thoroughly cleaned and dried according to the manufacturer's requirements for steel and concrete. The compressed air used to clean the joints shall be free of oil, grease, and water. Masking tape shall be applied over filler or steel plate prior to applying joint sealant. Material in all joints shall be poured into the joint gap. Forming will be required at the faces of vertical curbs and slope edging to prevent escape of hot poured material.

The hot seal shall completely fill the joint such that after cooling, the level of the sealer will not be greater than 1/8 inch below the pavement surface. Any depression in the seal greater than 1/8 inch shall be brought up to the specified limit by the further addition of hot seal. Overfilling of the joints will not be allowed and spillage should be avoided.

The sealer shall be tack free prior to opening the location to traffic. Sand shall not be spread on the sealed joints to allow early opening to traffic. Boiler slag aggregate (black beauty) shall be used when deemed necessary by the Engineer.

No sealing materials shall be applied in wet joints or where frost or snow or ice is present nor where ambient temperature is below 40° F. Any given quantity of material shall never be heated at the pouring temperature for more than six (6) hours and shall never be reheated more than once.

ITEM 482.2(Continued)

All joints determined by the Engineer to be dried or rejuvenated shall be heated, prior to application of sealer, with a hot-air-lance that operates at 1100° F at 35 ft/min velocity. The lance shall have no exit flame that burns the asphalt.

All workmanship shall be of the highest quality. Excess or spilled sealer shall be removed from the pavement by approved methods and discarded. Any workmanship determined to be below the high standards of the particular craft involved will not be accepted and shall be corrected and replaced as required by the Engineer. Care shall be taken in the sealing of the joints so that the final appearance will present a neat fine line.

METHOD OF MEASUREMENT

Item 482.20 will be measured for payment by the FOOT of sealed joints at the bridge locations, complete in place.

BASIS OF PAYMENT

Item 482.20 will be paid for at the Contract unit price per FOOT of sealed joints at bridge locations, which price shall include all labor, equipment, materials, and incidental costs required to complete the work. Locating and referencing existing joints is considered incidental to this Item and shall be done without additional compensation.

TEM 482.31**SAWING AND SEALING JOINTS IN ASPHALT
PAVEMENT AT BRIDGES****FOOT**

The work to be done under this Item consists of making a sealed kerf across the full width of the finished asphalt pavement at bridge abutments where called for on the Plans. The shape, width, and depth of the kerf shall be as shown on the Plans.

Prior to the start of the asphalt pavement operation, the Contractor shall place a mark on each curb or barrier on either side of the paved roadway. These marks shall be aligned with the actual end of the bridge deck and shall be placed so that they will not be covered or otherwise obscured by the asphalt pavement.

After the completion of the paving operation, the Contractor shall snap a straight chalk line on the pavement between these two marks. The Contractor shall then saw cut the pavement along this line to the depth, width and shape as shown on the Plans. The equipment shall be approved by the Engineer prior to commencing work.

After completing the saw cutting, the Contractor shall clean the saw groove of any dust and debris with an oil free air blast. If the groove was wet sawn, the groove shall be cleaned with a water blast to remove any remaining slurry and debris, vacuumed with a Wet-or-Dry vacuum to remove any standing water, and then dried with an air blast from a Hot-Air-Lance.

Once the groove is clean and dry, the Contractor shall fill it completely with a hot-applied bituminous crack sealer meeting the requirements of M3.05.2 in accordance with the manufacturer's application instructions and restrictions regarding ambient and material temperatures. The crack sealer shall be thoroughly cured prior to opening the road to traffic. To reduce tackiness, only boiler slag aggregate (black beauty) shall be scattered over the sealer when required by the Engineer. Conventional sand shall not be used for this purpose.

METHOD OF MEASUREMENT

Item 482.31 will be measured for payment by the Foot, of the actual number of feet of kerf sawed and sealed in the asphalt pavement surface, complete in place.

BASIS OF PAYMENT

Item 482.31 will be paid for at the Contract unit price per Foot, which price shall include all labor, materials, equipment, and all incidental costs required to complete the work.

ITEM 490.51**SLOTTED PAVEMENT MARKER REMOVAL****EACH**

The work under this Item consists of removing slotted pavement markers and epoxy cement prior to application of any pavement preservation treatments.

CONSTRUCTION DETAILS

Furnish all equipment necessary for removal of slotted pavement markers and epoxy cement, and for cleaning existing slots of all debris. Use equipment meeting the description and/or performance requirements described herein and approved by the Engineer.

Slotted Pavement Markers to be removed shall be at the discretion and requirement of the Engineer.

METHOD OF MEASUREMENT

Item 490.51 will be measured for payment by the Each slotted pavement marker removed.

BASIS OF PAYMENT

Item 490.51 will be paid for at the Contract unit price per Each, which price shall include full compensation for each pavement marker removed and disposed of including all surface preparation, equipment, tools, labor, materials, and all incidental costs required to complete the work.

ITEM 492.103**FOG SEAL POLYMER****GALLON**

This work consists of a preparing existing pavement and spray applying an asphalt emulsion fog seal to existing asphalt concrete shoulders is as described and shown in the plans. The shoulders shall be covered with a light application of an approved boiler slag. All fog seal operations must be applied before permanent pavement markings are placed. Quality Control procedures for Fog Seal for Shoulders shall be addressed and implemented in conformance with the QC Plan for "Pavement Preservation Treatments" described under Section 450.

DEFINITIONS

Fog Seal: A light spray application of dilute asphalt emulsion used primarily to seal existing asphalt surfaces to reduce raveling and to enrich dry and weathered surfaces.

Emulsion Break: The initial separation of the water from the emulsion that can be detected by a marked color change from brown to black, and often by the release of fairly clear to straw-brown water. This break results in the deposition of the base asphalt on an aggregate or paved surface.

MATERIALS

Emulsified Fog Seal Treatments shall consist of the following fog seal materials.

The fog seal emulsion materials are as follows: Polymer (CRS-2Pd).

The Contractor shall submit certified test results for all materials to be supplied indicating conformance with the applicable ASTM standard. A certificate of compliance for each of the materials shall be provided indicating that the materials meet the requirement of ASTM standards for each of the materials. The Contractor's emulsion supplier shall provide all material specifications and exact dilutions for approval 30 days prior to scheduled start of work. The asphalt emulsion shall be diluted at the emulsion manufacturing facility and certified to meet the criteria in Table 1.

Test requirements for diluted material	Range
Sieve test %	0 – 0.10
Residue by distillation, %	35 - 50
Penetration	40 - 90

MATERIAL QUANTITIES

Blotter Cover Aggregate shall be clean, dry, durable and shall meet the physical requirements of fine or extra fine black boiler slag.

The quantity of asphalt emulsion to be used shall be in the range of 0.08 to 0.12 gallons per square yard and determined by the control strip. Blotter cover aggregate shall be spread in the range of 0.3 to 1.0 pounds per square yard.

ITEM 492.103 (Continued)**ASPHALT AND AGGREGATE APPLICATION**

The asphalt emulsion and cover aggregate shall be applied simultaneously. The asphalt emulsion shall be applied at 120 - 170°F. Application shall not commence when water or moisture is present on the pavement surface.

ASTM DOCUMENTS

- D140 Practice for Sampling Bituminous Materials
- D244 Test Methods for Emulsified Asphalts
- D977 Specification for Emulsified Asphalt
- D2397 Specification for Cationic Emulsified Asphalt
- D2995 Practice for Determining Application Rate of Bituminous Distributors

SAMPLING

Material samples shall be furnished by the contractor as directed by the engineer. Procedures for sampling shall be in accordance with ASTM D140, unless otherwise specified.

TESTING

The emulsion shall be tested in accordance with ASTM D244.

WATER

Water is normally used for diluting slow set emulsions for tack coat and fog seal. It should be clean, potable water, free from detectable solids or incompatible soluble salts. Test for dilution incompatibility, whenever in doubt, by diluting the emulsion in the severest conditions anticipated (e.g., high dilution, cold water, hard water, high shear pumps). No instability or coagulation should appear. The emulsion manufacturer is the one most familiar with the particular emulsion and must be consulted to determine specific method and materials for dilution.

DILUTING THE EMULSION

When the emulsion is to be diluted for spray application, the final product shall be a fluid, homogenous mixture. The use of hard or cold water or an improper emulsifier solution may chemically or thermally break the emulsion. Dilution may be improved by pre-warming the dilution liquid to 25 to 50° C (77 to 122° F). Never add emulsion to water, always add water or other diluent to emulsion. Normal dilution for tack coat is achieved by diluting 1 part water to 1 part emulsion. For fog seal, dilutions are often higher. To avoid possible problems with storage stability, it is recommended that dilution be done at the time of application. Diluted emulsions are normally not stored, unless weather or the like necessitates temporary storage. A diluted emulsion is more unstable than the original product.

ITEM 492.103 (Continued)**STORAGE AND HANDLING**

1. Suitable storage and handling facilities shall be provided for the emulsion, so as to:
2. Prevent contamination by water, oils or other liquids.
3. Prevent contamination by other incompatible emulsions.
4. Protect from freezing and boiling temperatures that break the emulsion and cause separation into asphalt and water.
5. Protect from local overheating caused by high temperature heating coils and surface heating pads. Use of hot water is recommended for heating emulsion. Where steam, hot oil or direct fire must be used, controls must keep coil surfaces below 85° C (185° F).
6. Use bottom loading wherever possible or employ full-length drop hose to eliminate foaming. Foaming may cause a volume gauge error.
7. Allow surface crust that may form on emulsion in storage to float without disturbance. Vertical tanks can help maintain constant and minimal surface area. Return lines into tanks should have outlets near the tank bottom and circulations should not free fall or disturb surface crust.
8. Reduce high shear that can break emulsions by enlarging clearances on new gear pumps by milling if necessary.
9. Prevent unnecessary circulation that can cause drop in emulsion viscosity and emulsion instability.
10. Do not agitate emulsion with forced air as it may cause the emulsion to break.

EMULSION DISTRIBUTOR AND HAND SPRAYER**Asphalt Distributor:**

The asphalt distributor shall contain suitable mechanical circulating and heating mechanisms to provide a uniform approved temperature of the entire mass of material. The distributor shall be equipped with a radar type sensor used to measure ground speed, and feed a Digital Volumetric Accumulator capable of measuring liters applied and distance traveled. It shall be capable of applying asphalt material in accurately measured quantities at any rate between 0.1 to 2.0 gallons per square yard, of roadway surface, at any length of spray bar up to 16 feet. The distributor shall be capable of maintaining a uniform rate of distribution of asphalt material regardless of change in grade, width or direction of the road. It shall be equipped with an electronic control for setting asphalt pump discharge rate and on/off switching of spray for nozzles in one (1) foot, increments which shall be located in the truck cab. The spray nozzles and pressure system shall provide a sufficient and uniform fan-shaped spray of asphalt material throughout the entire length of the spray bar at all times while operating. The spray shall completely cover the roadway surface receiving the treatment.

Aggregate Spreader:

The aggregate spreader shall be mounted on the asphalt distributor. It shall have a minimum capacity of 3000lbs. The hopper shall have vibratory agitation to facilitate material flow. The cover aggregate spinners shall be variable speed, capable of distributing cover aggregate consistently over variable roadway widths in a single pass. All controls shall be cab-mounted and capable of being operated during the application of the asphalt emulsion by the distributor operator.

ITEM 492.103 (Continued)**PREPARATION OF SURFACE**

All existing pavement markings shall be eradicated prior to fog seal application and all drainage structures shall be covered in the work area as directed by the Engineer. The solid white edge line will be removed with the pavement milling for inlay.

The existing surface shall be repaired as directed by the Engineer prior to further construction. The emulsion will flow into the small cracks and seal them, but it cannot be expected to take the place of adequate repair of major deterioration of the pavement.

The surface shall be free from dust, loose or foreign matter and any objectionable material that would hinder adhesion of the emulsion. If the dust layer is minimal and brooming is not deemed necessary, a very light 0.15 gal/yd² spray of clean water prior to application can significantly improve adhesion of the tack coat or penetration into the surface cracks by the fog seal.

Allow excess water to run off before applying emulsion. Remove or repair any areas with heavy oil drippings should be cleaned with detergent or by other methods prior to spraying with emulsions.

Cover manholes, valve covers, sensors, etc. to prevent adherence of the asphalt emulsion material. Suitable covering includes plywood disks, sand, wax paper, roofing felt or other approved methods. Remove the protective coverings prior to opening the road to traffic.

WEATHER

Spray application of emulsions should be avoided prior to probable rainfall and shall not be applied during rain. High humidity will slow the emulsion break. Pavement and air temperatures should be above 10° C (50° F). With extreme hot, dry conditions, it may be advantageous to lightly dampen the surface to be sprayed with 0.15 gal/yd² water to prevent premature break of the emulsion. The weather shall be forecast for no precipitation for a minimum of 48 hours from the end of operation.

SPRAYING

Emulsion applied by pressure distributor shall be applied at a uniform rate, without splattering or drilling from the spray bar, by using low pressure. Nozzle angle and spray bar height must be adjusted to insure correct spray pattern.

FOG SEAL AND BLOTTER

The objective for proper application of fog seal is to apply a uniform coverage of emulsion, sufficient to flow into and seal the pavement pores, small cracks, and voids against water and weathering. Ideally, the peaks of most aggregate particles should remain uncoated with asphalt to prevent reduction of skid resistance. Two or more successive applications of the respective proportion of the desired total application can aid in preventing excess over-application.

ITEM 492.103 (Continued)

The distributor should be operated in opposite directions on each pass to minimize inconsistencies in spray pattern. The fog seal shall be covered with cover aggregate. The fog seal should be allowed to completely cure before opening to traffic. The Department shall be responsible for providing the Contractor with an acceptable aggregate storage area near the job site.

TRAFFIC CONTROL

Traffic control during application shall be employed to protect the freshly sprayed emulsion until it is cured to a safe condition. Excessive pickup of the fresh emulsion by construction traffic shall be avoided especially with tack coat. Traffic volume should determine the type and extent of control needed, and safety is also a major factor, as the tack coat produces an extremely slippery film and fog seal, if over applied, reduces skid resistance and creates unsafe conditions. Suitable methods shall be used, such as signing, barricades, flagmen, pilot cars, etc. to protect the construction and the public.

CONTROL STRIP

Begin the rate of application for the fog seal based on those shown below at the lower limit of the material quantity application range. Construct a control strip 100 feet long to ensure the asphalt emulsion material application rate is adequate. The Contractor shall demonstrate that the application process is able to apply a uniform application of asphalt emulsion producing 100% coverage of the surface after cure. If the Contractor cannot demonstrate this requirement, then all operations will stop until adjustments can be made to meet the coverage requirements. The Engineer's decision on coverage is final. Apply the fog seal to minimize the amount of overspray.

Make adjustments as necessary and continue to make additional adjustments, as needed, during the project.

Apply the fog seal to cover the shoulder as shown on plans evenly distributed for uniform coverage. Do not allow traffic on the fog seal until it has cured.

Quality Control Inspection

The Contractor shall perform QC inspection of the Control Strip and all subsequent fog sealing operations. The minimum attributes to be inspected shall be as indicated in the table below.

ITEM 492.103 (Continued)**Minimum QC Inspection of Fog Seal for Shoulders**

Inspection Component	Attributes Inspected	Minimum Inspection Frequency	Point of Inspection	Inspection Method
Equipment	As specified in QC Plan	Per QC Plan	Per QC Plan	Per QC Plan
Environmental Conditions	Underlying Surface Cleanliness & Moisture	Per QC Plan	Underlying Surface	Visual Check
	Temperature of Air & Underlying Surface	1 per Day ⁽²⁾	At Paving Site	Check Measurement
Materials	Asphalt Emulsion (Correct Type)	Per QC Plan	Per QC Plan	Check Manufacturer COC
	Asphalt Emulsion Temperature	(See Note 1)	From Tack Distributor System	Check Measurement
Workmanship	Asphalt Emulsion Application Rate	(See Note 1)	From Tack Distributor System	Check Measurement

(1) The Asphalt Emulsion Temperature and Application Rate shall be checked as follows:

- Upon delivery of a new load of Asphalt Emulsion.
- After application of the first 1,000 lane-feet (300 lane-meters) of Asphalt Emulsion.
- After application of the next 1,500 lane-feet (450 lane-meters) of Asphalt Emulsion.
- After application of the next 2,500 lane-feet (750 lane-meters) of Asphalt Emulsion.
- Thereafter, a minimum of once per 5,000 lane-feet (1500 lane-meters) each day.

(2) As a minimum, the temperature measurements of the air and underlying surface shall be obtained prior to starting the Fog Seal application.

METHOD OF MEASUREMENT

Item 492.103 will be measured for payment by the Gallon of Fog seal applied.

BASIS OF PAYMENT

Item 492.103 will be paid for at the Contract unit price per Gallon, which price shall include all furnishing and applying the fog seal including all labor and equipment, cover aggregate blotter material, sampling and testing, control strip and all incidental costs required to complete the work.

ITEM 740. ENGINEERS FIELD OFFICE AND EQUIPMENT (TYPE A) MONTH

The work under this Item shall conform to the relevant provisions of Subsection 740 of the Standard Specifications and the following:

Three computer systems and printer systems meeting minimum requirements set forth below including installation, maintenance, power, paper, disks, and other supplies shall be provided at the Resident Engineer's Office:

All equipment shall be UL approved and Energy Star compliant.

The Computer System shall meet the following minimum criteria or better:

Processor:	Intel, 3.5 GHz
System Memory (RAM):	12 GB
Hard Drive:	500 GB
Optical Drive:	DVD-RW/DVD+RW/CD-RW/CD+RW
Graphics Card:	8 GB
Network Adapter:	10/100 Mbit/s
USB Ports:	6 USB 3.0 ports
Keyboard:	Generic
Mouse:	Optical mouse with scroll, MS-Mouse compliant
Video/Audio	the computer system shall be capable of allow video calling and recording:
Video camera	shall be High Definition 1080p widescreen capable video calling and recording with built in microphone. The microphone system shall capture natural audio while filtering out background noise.
Audio	shall be stereo multimedia speaker system delivering premium sound.
OS:	Latest Windows Professional with all security updates
Web Browser:	Latest Internet Explorer with all security updates
Applications:	Latest MS Office Professional with all security updates
	Latest Adobe Acrobat Professional with all security updates
	Latest Autodesk AutoCAD LT
	Antivirus software with all current security updates maintained through the life of the contract.
Monitors:	Two 27" LED with Full HD resolution. Max. resolution 1920 x 1080
Flash drives:	2 (two) - 128GB USB 3.0
Internet access:	High Speed (min. 24 mbps) internet access with wireless router.

ITEM 740. (Continued)

The Multifunction Printer System shall meet the following minimum criteria or better:

Color laser printer, fax, scanner, email and copier all in one with the following minimum capabilities:

- Estimated volume 8,000 pages per month
- LCD touch panel display
- 50 page reversing automatic document feeder
- Reduction/enlargement capability
- Ability to copy and print 11" x 17" paper size
- email and network pc connectivity
- Microsoft and Apple compatibility
- ability to overwrite latent images on hard drive
- 600 x 600 dpi capability
- 30 pages per minute print speed (color),
- 4 Paper Trays Standard (RADF) (not including the bypass tray)
- Automatic duplexing
- Finisher with staple functions
- Standard Ethernet. Print Controller
- Scan documents to PDF, PC and USB
- ability to print with authenticated access protection

The Contractor shall supply a maintenance contract for next day service, and all supplies (toner, staples, paper) necessary to meet estimated monthly usage.

The Engineer's Field Office and the equipment included herein including the computer system, and printer shall remain the property of the Contractor at the completion of the project. Disks, flash drives, and card readers with cards shall become the property of the Department.

Compensation for this work will be made at the contract unit price per month which price includes full compensation for all services and equipment, and incidentals necessary to provide equipment, maintenance, insurance as specified and as directed by the Engineer.

ITEM 767.121**SEDIMENT CONTROL BARRIER****FOOT**

The work under this item shall conform to the relevant provisions of Subsections 670, 751 and 767 of the Standard Specifications and shall include the furnishing and placement of a sediment control barrier. Sediment control barrier shall be installed prior to disturbing upslope soil.

The purpose of the sediment control barrier is to slow runoff velocity and filter suspended sediments from storm water flow. Sediment barrier may be used to contain stockpile sediments, to break slope length, and to slow or prevent upgradient water or water off road surfaces from flowing into a work zone. Contractor shall be responsible for ensuring that barriers fulfill the intent of adequately controlling siltation and runoff.

Twelve-inch diameter (after installation) compost filter tubes with biodegradable natural fabric (i.e., cotton, jute, burlap) are intended to be the primary sedimentation control barrier. Photo-biodegradable fabric shall not be used.

For small areas of disturbance with minimal slope and slope length, the Engineer may approve the following sediment control methods:

- 9-inch compost filter tubes
- Straw bales which shall be trenched

No straw wattles may be used. Additional compost filter tubes (adding depth or height) shall be used at specific locations of concentrated flow such as at gully points, steep slopes, or identified failure points in the sediment capture line.

When required by permits, additional sediment barrier shall be stored on-site for emergency use and replacement for the duration of the contract.

Where shown on the plans or when required by permits, sedimentation fence shall be used in addition to compost filter tubes and straw bales and shall be compensated under that item.

Sediment control barriers shall be installed in the approximate location as shown on the plans and as required so that no excavated or disturbed soil can enter mitigation areas or adjacent wetlands or waterways. If necessary to accommodate field conditions and to maximize effectiveness, barrier locations may be shifted with approval from the Engineer. Barriers shall be in place prior to excavation work. No work shall take place outside the barriers.

MATERIALS AND CONSTRUCTION

Prior to initial placement of barriers, the Contractor and the Engineer shall review locations specified on the plans and adjust placement to ensure that the placement will provide maximum effectiveness.

Barriers shall be staked, trenched, and/or wedged as specified herein and according to the Manufacturer's instructions. Barriers shall be securely in contact with existing soil such that there is no flow beneath the barrier.

ITEM 767.121 (Continued)**Compost Filter Tube**

Compost material inside the filter tube shall meet M1.06.0, except for the following: no peat, manure or bio-solids shall be used; no kiln-dried wood or construction debris shall be allowed; material shall pass through a 2-inch sieve; and the C:N ratio shall be disregarded.

Outer tube fabric shall be made of 100% biodegradable materials (i.e., cotton, hemp or jute) and shall have a knitted mesh with openings that allow for sufficient water flow and effective sediment capture.

Tubes shall be tamped, but not trenched, to ensure good contact with soil. When reinforcement is necessary, tubes shall be stacked as shown on the detail plans.

Straw Bales

Straw bales shall be used if shown on the plans or when specified by Orders of Condition or other permit requirements.

Bales should be placed in a single row, lengthwise on the contour, with ends of adjacent bales tightly abutting one another. All bales should be either wire-bound or string-tied. Straw bales should be installed so that bindings are oriented around the sides (rather than along the tops and bottoms) of the bales in order to prevent deterioration of the bindings.

The barrier should be entrenched and backfilled. A trench should be excavated the width of a bale and the length of the proposed barrier to a minimum depth of 4 inches. The trench must be deep enough to remove all grass and other material which might allow underflow. After the bales are staked and chinked (filled by wedging), the excavated soil should be backfilled against the barrier. Backfill soil should conform to the ground level on the downhill side and should be built up to 4 inches against the uphill side of the barrier.

Each bale should be securely anchored by at least 2 stakes or re-bars driven through the bale. The first stake in each bale should be driven toward the previously laid bale to force the bales together. Stakes or re-bars should be driven deep enough into the ground to securely anchor the bales. For safety reasons, stakes should not extend above the bales but should be driven in flush with the top of the bale.

The gaps between the bales should be chinked (filled by wedging) with straw to prevent water from escaping between the bales. Loose straw scattered over the area immediately uphill from a straw bale barrier tends to increase barrier efficiency. Wedging must be done carefully in order not to separate the bales.

When used in a swale, the barrier should be extended to such a length that the bottoms of the end bales are higher in elevation than the top of the lowest middle bale to assure that sediment-laden runoff will flow either through or over the barrier but not around it.

ITEM 767.121 (Continued)**Sedimentation Fence**

Materials and Installation shall be per Section 670.40 and 670.60 of the Standard Specifications and the following:

Sedimentation fence shall only be used if shown on the plans or when specified by Orders of Condition or other permit requirements.

When used with compost filter tubes, the tube shall be placed on a minimum of 8 inches of folded fabric on the upslope side of the fence. Fabric does not need to be trenched.

When used with straw bales, an 8-inch deep and 4-inch wide trench or V-trench shall be dug on the upslope side of the fence line. One foot of fabric shall be placed in the bottom of the trench followed by backfilling with compacted earth or gravel. Stakes shall be on the down slope side of the trench and shall be spaced such that the fence remains vertical and effective.

Width of fabric shall be sufficient to provide a 36-inch high barrier after fabric is folded or trenched. Sagging fabric will require additional staking or other anchoring.

MAINTENANCE

Maintenance of the sediment control barrier shall be per Section 670.60 of the Standard Specifications or per the Stormwater Pollution Prevention Plan (SWPPP), whichever is more restrictive.

The contractor shall inspect the sediment barrier in accordance with relevant permits. At a minimum, barriers shall be inspected at least once every 7 calendar days and after a rain event resulting in 0.25 inches or more of rainfall. Contractor shall be responsible for ensuring that an effective barrier is in place and working effectively for all phases of the Contract.

Barriers that decompose such that they no longer provide the function required shall be repaired or replaced as directed. If the resulting berm of compost within the fabric tube is sufficiently intact (despite fabric decay) and continues to provide effective water and sediment control, barrier does not necessarily require replacement.

DISMANTLING & REMOVING

Barriers shall be dismantled and/or removed, as required, when construction work is complete and upslope areas have been permanently stabilized and after receiving permission to do so from the Engineer.

Regardless of site context, nonbiodegradable material and components of the sediment barriers, including photo-biodegradable fabric, plastic netting, nylon twine, and sedimentation fence, shall be removed and disposed off-site by the Contractor.

ITEM 767.121 (Continued)

For naturalized areas, biodegradable, natural fabric and material may be left in place to decompose on-site. In urban, residential, or other locations where aesthetics is a concern, the following shall apply:

- Compost filter tube fabric shall be cut and removed, and compost shall be raked to blend evenly (as would be done with a soil amendment or mulch). No more than a 2-inch depth shall be left on soil substrate.
- Straw bales shall be removed and disposed off-site by the Contractor. Areas of trenching shall be raked smooth and disturbed soils stabilized with a seed mix matching adjacent seeding or existing grasses (i.e., lawn or native grass mix).
- Sedimentation fence, stakes, and other debris shall be removed and disposed off-site. Site shall be restored to a neat and clean condition.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Item 767.121 will be measured and paid for at the contract unit price per foot of sediment control barrier which price shall include all labor, equipment, materials, maintenance, dismantling, removal, restoration of soil, and all incidental costs required to complete the work.

Additional barrier, such as double or triple stacking of compost filter tubes, will be paid for per foot of tube installed.

Barriers that have been driven over or otherwise damaged by construction activities shall be repaired or replaced as directed by the Engineer at the Contractor's expense.

ITEM 769.1**PAVEMENT MILLING MULCH FOR
MAINTENANCE AREA****SQUARE YARD**

The work under this Item shall conform to the relevant provisions of Subsection 769 of the Standard Specifications and the following:

The work shall consist of placing a geotextile fabric and placing 4 in. of pavement millings on top of the fabric around the ITS Equipment sites as detailed in the plans to create an equipment maintenance area.

CONSTRUCTION METHODS

The mulched area will generally be located around the ITS Equipment cabinets and maintenance pads and typically begin at the edge of the Pavement Milling Mulch Under Guardrail (Item 769.) to make a continuous area of milling mulch from the edge of roadway around the equipment site as specified on the plans. Layers of geotextile fabric shall be overlapped a minimum of 12 inches. Pavement milling mulch shall not be placed overtop paved waterway or in drainage swales. Pavement milling mulch shall not be placed where it may impede stormwater runoff. The pavement millings shall be raked to a generally smooth surface level.

METHOD OF MEASUREMENT

Item 769.1 will be measured for payment by the Square Yard of milling mulch and geotextile fabric installed, complete in place.

BASIS OF PAYMENT

Item 769.1 will be paid for at the Contract unit price per Square Yard, which price shall include the geotextile fabric, pavement millings, and all related excavation, borrow, grading, labor, materials, equipment, maintenance, site clean-up and restoration, and all incidental costs required to complete the work.

ITEM 832. WARNING-REGULATORY AND ROUTE MARKER - SQUARE FOOT
ALUMINUM PANEL (TYPE A)

The work under this item shall conform to the relevant provisions of Section 828 of the Standard Specifications and the following:

CONSTRUCTION METHODS

The Contractor shall apply a 2” high intensity prismatic red retroreflective tape with pressure sensitive adhesive on all P5 posts with R5-1a signs attached. This strip shall conform to Materials Specification M9.30.0. The length shall be as shown on the plans.

METHOD OF MEASUREMENT

Item 832. Will be measured for payment by the Square Foot of sign panels installed, complete in place.

BASIS OF PAYMENT

Item 832. will be paid for at the Contract unit price per Square Foot, which price shall include fabricating, furnishing, erecting and attaching the completed sign panel, preparing all reflectorized materials. Backgrounds, legends, borders, arrows, shields, paints, hardware and all labor, materials, equipment, and all incidental costs required to complete the work.

The 2” red retroreflective strip applied to P5 posts shall be considered incidental to sign R5-1a.

ITEM 838.1**PERMANENT ITS CABINET FACE LABEL****EACH**

The Contractor shall furnish and install site specific labels for each ITS equipment site. Prior to label printing, the Contractor shall submit a specification sheet for the label material to the Engineer for approval.

DESIGN

- A. The color of the label shall be white and the color of the text shall be black. Colors shall be in accordance with [Subpart F of 23 CFR Part 655](#).
- B. Each label shall conform to the following dimensions:

Overall Label Height	• 16 inches if 1 device, • 19 inches if 2 devices, • 22 inches if 3 devices
Overall Label Width	16 inches

- C. All text and numerals on the label shall be conforming to the FHWA Standard Series D font, except the third line of text (“MassDOT Highway – ITS Programs”) which shall be Arial Narrow font.
- D. All lines and their contents shall be centered on their corresponding horizontal and vertical axes.
- E. Text and numerals on the sheet shall be sized according to the specific label requirements, with exact sizing specified in the chart below.
- F. Label specifications shall be in accordance with the following table:

Line Description	Spacing Above	Line Height	Text or Image Description
First Line Text	2 in. from top	3 in.	Highway identification (ex. ###XX where the first three characters are used to identify roadway name and the last two characters are used for roadway direction)
Second Line Text	1 in. from Line 1	3 in.	Mile marker (ex. ####.# which is the closest mile marker)
Third Line Text & QR Code	¾ in. from Line 2	½ in.	“MassDOT Highway – ITS Programs” & 1 in. tall QR code
Fourth Line Text & Icon	1.5 in. from Line 3	1.5 in.	First ITS device name (ex. CCTV) & corresponding 9 sq. in. icon
Fifth Line Text & Icon (as needed)	1.5 in. from Line 4	1.5 in.	Second ITS device name (ex. CCTV) & corresponding 9 sq. in. icon
Sixth Line Text & Icon (as needed)	1.5 in. from Line 5	1.5 in.	Third ITS device name (ex. CCTV) & corresponding 9 sq. in. icon

ITEM 838.1 (Continued)

- G. Additional information for the icon size, shape, and specifications are provided in the attached plans.

MATERIALS

- A. The label shall be fabricated from a white engineering grade reflective sheeting meeting the performance requirements of ASTM D4956 for Type I sheeting.
- B. The sheeting shall be protected by a transparent acrylic film with a pressure sensitive adhesive providing UV protection
- C. The sheeting shall be corrosion resistant, non-conductive, micro prismatic reflective sheeting.
- D. The sheeting shall have high scratch resistance and is flexible and durable.
- E. The sheeting shall be manufactured with an exterior rated adhesive suitable for installation on properly prepared aluminum, metal, wood, and plastic.
- F. The label material shall have a minimum outdoor life expectancy of three (3) years.
- G. Any material that does not adhere or bond to the applied surface, or fails to set up properly, shall be removed and replaced at the expense of the Contractor.

PLACEMENT

Permanent ITS Device Cabinet Labels shall be placed as follows on the cabinet face:

- A. Label shall be applied to the cabinet face in a manner specified by the label manufacturer.
- B. Labels shall be placed at pre-designated heights on the side of the cabinet with the handle used for opening the cabinet, also referred to as the cabinet door. The label shall be placed ½ inch from the top of the cabinet door and 1 inch from the right-hand side of the cabinet door.
- C. The labels shall be installed such that it does not overlap with any cabinet vents.
- D. The Labels shall be located on the downstream ITS Cabinet doors parallel to traffic flow such that they are not a potential distraction to passing traffic. Changing placement to satisfy this requirement, including but not limited to, placing the label on the side of the cabinet to maintain placement parallel to traffic flow, shall be approved by MassDOT and the Designer of Record. Exceptions shall be subject to approval by the Resident Engineer.

INSTALLATION INSTRUCTIONS

- A. The label shall be installed following the manufacturer's recommended application procedures including temperature, surface preparation, and application methods.
- B. Hand squeegee and/or a roll laminator shall be used to provide a uniform appearance free of irregularities, wrinkles, and air bubbles.

ITEM 838.1 (Continued)

- C. The area where the label is to be placed shall be cleaned with an appropriate cleaner per the manufacturer specifications that leaves no residue or streaks.
- D. Labels shall be applied directly to a clean, dust-free background.
- E. The label shall be installed plumb to vertical.
- F. If any damage to the equipment occurs due to incorrect adhesion of labels, the equipment shall be replaced or repaired by the Contractor with no additional cost to MassDOT.

METHOD OF MEASUREMENT

Item 838.1 will be measured for payment by Each label furnished and installed, complete in place.

BASIS OF PAYMENT

Item 838.1 will be paid for at the Contract unit price per Each, which price shall include all labor, materials, fabrication, furnishing and installed the completed label, and all incidental costs required to complete the work.

ITEM 838.2**PERMANENT ITS POLE LABEL****EACH**

The Contractor shall furnish and install site specific labels for each ITS equipment site. Prior to label printing, the Contractor shall submit a specification sheet for the label material to the Engineer for approval.

DESIGN

- A. The color of the label shall be white and the color of the text shall be black. Colors shall be in accordance with [Subpart F of 23 CFR Part 655](#).
- B. Each label shall conform to the following dimensions:

Overall Label Height	• 30 inches if 1 device, • 32 inches if 2 devices, • 34 inches if 3 devices
Overall Label Width	8 inches

- C. The first, second, third, and fourth lines of text on the label shall be conforming to the FHWA Standard Series B font. The sixth and seventh lines of text shall be Arial Narrow font. The eighth line of text, as well as any subsequent lines of text, shall be FHWA Standard Series D font.
- D. All lines and their contents shall be centered on their corresponding horizontal axis.
- E. Text and numerals on the sheet shall be sized according to the specific label requirements, with exact sizing specified in the chart below.
- F. Label specifications shall be in accordance with the following table:

Line Description	Spacing Above	Line Height	Text or Image Description
First Line Text	1.25 in. from top	3 in.	Highway identification number (ex. ### where the three characters are used to identify roadway name)
Second Line Text	1 in. from Line 1	3 in.	Highway direction (ex. XX where the two characters are used for roadway direction)
Third Line Text	3 in. from Line 2	3 in.	Mile marker digits prior to decimal place (ex. ###)
Fourth Line Text	1 in. from Line 3	3 in.	Mile marker digits after & including decimal place (ex. .#)
Fifth Line Text	3.5 in. from Line 4	1 in.	QR code
Sixth Line Text	½ in. from Line 5	½ in.	“MassDOT Highway”
Seventh Line Text	½ in. from Line 6	½ in.	“ITS Programs”
Eighth Line Text	1.5 in. from Line 7	1.5 in.	First ITS device name (ex. CCTV)
Ninth Line Text (as needed)	½ in. from Line 8	1.5 in.	Second ITS device name (ex. CCTV)
Tenth Line Text (as needed)	½ in. from Line 9	1.5 in.	Third ITS device name (ex. CCTV)

ITEM 838.2 (Continued)**MATERIALS**

- A. The label shall be fabricated from a white engineering grade reflective sheeting meeting the performance requirements of ASTM D4956 for Type I sheeting.
- B. The sheeting shall be protected by a transparent acrylic film with a pressure sensitive adhesive providing UV protection.
- C. The sheeting shall be corrosion resistant, non-conductive, micro prismatic reflective sheeting.
- D. The sheeting shall have high scratch resistance and is flexible and durable.
- E. The sheeting shall be manufactured with an exterior rated adhesive suitable for installation on properly prepared aluminum, metal, wood, and plastic.
- F. The label material shall have a minimum outdoor life expectancy of three (3) years.
- G. Any material that does not adhere or bond to the applied surface, or fails to set up properly, shall be removed and replaced at the expense of the Contractor.

PLACEMENT

Permanent ITS Device Pole Labels shall be placed as follows on the pole:

- A. Labels shall be applied to the camera pole in a manner specified by the label manufacturer.
- B. Pole labels shall be placed on the road facing side of the camera pole perpendicular to the roadway above the height of the cabinet mounting equipment to avoid obstruction of the label. The label placement shall be such that the label is not covered by the cabinet mounting equipment nor shall the label cover the said mounting equipment.
- C. Changing placement to satisfy this requirement, including but not limited to, placing the label on a different side of the pole to maintain placement parallel to traffic flow, shall be approved by MassDOT and the Designer of Record. Exceptions shall be subject to approval by the Engineer.
- D. Special Case: In case the site is located adjacent to an overpass/bridge, the label shall be located facing the primary highway. In cases where the primary highway is elevated above the base of the pole installation, the label shall be placed at least two feet above any barriers, railings etc. to be visible from the primary highway.

INSTALLATION INSTRUCTIONS

- A. The label shall be installed following the manufacturer's recommended application procedures including temperature, surface preparation, and application methods.
- B. Hand squeegee and/or a roll laminator shall be used to provide a uniform appearance free of irregularities, wrinkles, and air bubbles.
- C. The area where the label is to be placed shall be cleaned with an appropriate cleaner per the manufacturer specifications that leaves no residue or streaks.

ITEM 838.2 (Continued)

- D. Labels shall be applied directly to a clean, dust-free background.
- E. The label shall be installed plumb to vertical.
- F. If any damage to the equipment occurs due to incorrect adhesion of labels, the equipment shall be replaced or repaired by the Contractor with no additional cost to MassDOT.

METHOD OF MEASUREMENT

Item 838.2 will be measured for payment by Each label furnished and installed, complete in place.

BASIS OF PAYMENT

Item 838.2 will be paid for at the Contract unit price per Each, which price shall include all labor, materials, fabrication, furnishing and installed the completed label, and all incidental costs required to complete the work.

ITEM 838.3**PERMANENT ITS DEVICE CABINET TOP LABEL****EACH**

The Contractor shall furnish and install site specific labels for each ITS equipment site. Prior to label printing, the Contractor shall submit a specification sheet for the label material to the Engineer for approval.

DESIGN

- A. The color of the label should be white and the color of the text should be black. Colors shall be in accordance with [Subpart F of 23 CFR Part 655](#).
- B. Each label shall conform to the following dimensions:

Overall Label Height	12 inches
Overall Label Width	12 inches

- C. All text and numerals on the label shall be conforming to the FHWA Standard Series B font.
- D. All lines and their contents shall be centered on their corresponding horizontal and vertical axes.
- E. Text and numerals on the sheet shall be sized according to the specific label requirements, with exact sizing specified in the chart below.
- F. Label specifications shall be in accordance with the following table:

Line Description	Spacing Above	Line Height	Text or Image Description
First Line Text	2 in. from top	3 in.	Highway identification (ex. XXXWB)
Second Line Text	3 in. from Line 1	3 in.	Mile marker (ex. XXX.X)

MATERIALS

- A. The label shall be fabricated from a white engineering grade reflective sheeting meeting the performance requirements of ASTM D4956 for Type I sheeting.
- B. The sheeting shall be protected by a transparent acrylic film with a pressure sensitive adhesive providing UV protection.
- C. The sheeting shall be corrosion resistant, non-conductive, micro prismatic reflective sheeting.
- D. The sheeting shall have high scratch resistance and is flexible and durable.
- E. The sheeting shall be manufactured with an exterior rated adhesive suitable for installation on properly prepared aluminum, metal, wood, and plastic.
- F. The label material shall have a minimum outdoor life expectancy of three (3) years.
- G. Any material that does not adhere or bond to the applied surface, or fails to set up properly, shall be removed and replaced at the expense of the Contractor.

ITEM 838.3 (Continued)**PLACEMENT**

Permanent ITS Device Cabinet Top Labels shall be placed as follows on the cabinet top:

- A. The area where the label shall be placed shall be cleaned with an appropriate cleaner per manufacturer specifications that leaves no residue or streaks.
- B. Labels shall be applied directly to a clean, dust-free background.
- C. Labels shall be placed at pre-designated location on the top of the cabinet such that the arrow on the bottom of the label points directly at the pole and the label is in the center of the sunshield, or in the center of the cabinet top if no sunshield is present.

INSTALLATION INSTRUCTIONS

- A. The label shall be installed following the manufacturer's recommended application procedures including temperature, surface preparation, and application methods.
- B. Hand squeegee and/or a roll laminator shall be used to provide a uniform appearance free of irregularities, wrinkles, and air bubbles.
- C. The area where the label is to be placed shall be cleaned with an appropriate cleaner per the manufacturer specifications that leaves no residue or streaks.
- D. Labels shall be applied directly to a clean, dust-free background.
- E. The label shall be installed plumb to vertical.
- F. If any damage to the equipment occurs due to incorrect adhesion of labels, the equipment shall be replaced or repaired by the Contractor with no additional cost to MassDOT.

METHOD OF MEASUREMENT

Item 838.3 will be measured for payment by Each label furnished and installed, complete in place.

BASIS OF PAYMENT

Item 838.3 will be paid for at the Contract Unit Price per Each, which price shall include all labor, materials, fabrication, furnishing and installed the completed label, and all incidental costs required to complete the work.

ITEM 838.5**PERMANENT ITS ELECTRICAL LABEL****EACH**

The Contractor furnishes and installs site permanent ITS electrical label.

- A. Prior to label printing, the Contractor shall submit a specification sheet for the label material to the Engineer for approval.
- B. The Contractor shall install a label on each cabinet door (typically two doors for the Camera cabinet and 1 door for the RWIS cabinet when applicable).

DESIGN

- A. The color of the label shall be white, except for the top 1.333 inches which shall be red, and the color of the text shall be black, except for the first line of text and associated icon that shall be white. Colors shall be in accordance with [Subpart F of 23 CFR Part 655](#).
- B. Each label shall conform to the following dimensions:

Overall Label Height	7 inches
Overall Label Width	5 inches

- C. All text and numerals on the label shall be conforming to Calibri font.
- D. All lines and their contents shall be centered on their corresponding horizontal axis.
- E. Text and numerals on the sheet shall be sized according to the specific label requirements, with exact sizing specified in the chart below.
- F. Label specifications shall be in accordance with the following table:

Line Description	Spacing Above	Line Height	Text or Image Description
First Line Text & Icon	5/12 in. from top	½ in.	2/3 in. tall warning icon and “DANGER”
Second Line Icon	7/12 in. from Line 1	2.75 in.	Electrical wiring icon
Third Line Text	½ in. from Line 2	1/3 in.	“ELECTRICAL”
Fourth Line Text	1/6 in. from Line 3	1/3 in.	“HAZARD”
Fifth Line Text	1/3 in. from Line 4	½ in.	“KEEP OUT”

- G. Additional information for the icon size, shape, and specifications shall be provided in the attached plans.

ITEM 838.5 (Continued)**MATERIALS**

- A. The label shall be fabricated from a white engineering grade reflective sheeting meeting the performance requirements of ASTM D4956 for Type I sheeting.
- B. The sheeting shall be protected by a transparent acrylic film with a pressure sensitive adhesive providing UV protection.
- C. The sheeting shall be corrosion resistant, non-conductive, micro prismatic reflective sheeting.
- D. The sheeting shall have high scratch resistance and is flexible and durable.
- E. The sheeting shall be manufactured with an exterior rated adhesive suitable for installation on properly prepared aluminum, metal, wood, and plastic.
- F. The label material shall have a minimum outdoor life expectancy of three (3) years.
- G. Any material that does not adhere or bond to the applied surface, or fails to set up properly, shall be removed and replaced at the expense of the Contractor.

PLACEMENT

Permanent ITS Device Cabinet Labels shall be placed as follows on the cabinet face:

- A. Labels shall be applied to the cabinet face in a manner specified for the manufacture of labels by the label manufacturer.
- B. Labels shall be placed at pre-designated heights on the side of the cabinet with the handle used for opening the cabinet, also referred to as the cabinet door. The label shall be placed 5.5 inches from the top of the cabinet door and 1 inch from the left-hand side of the cabinet door.
- C. The labels shall be installed such that it does not overlap with any cabinet vents.
- D. Labels shall be located so they are not a potential distraction to passing traffic. Changing placement to satisfy this requirement, including but not limited to, placing the label on the side of the cabinet to maintain placement parallel to traffic flow, shall be approved by MassDOT and the Designer of Record. Exceptions shall be subject to approval by the Resident Engineer.

INSTALLATION INSTRUCTIONS

- A. The label shall be installed following the manufacturer's recommended application procedures including temperature, surface preparation, and application methods.
- B. Hand squeegee and/or a roll laminator shall be used to provide a uniform appearance free of irregularities, wrinkles, and air bubbles.

ITEM 838.5 (Continued)

- C. The area where the label is to be placed shall be cleaned with an appropriate cleaner per the manufacturer specifications that leaves no residue or streaks.
- D. Labels shall be applied directly to a clean, dust-free background.
- E. The label shall be installed plumb to vertical.
- F. If any damage to the equipment occurs due to incorrect adhesion of labels, the equipment shall be replaced or repaired by the Contractor with no additional cost to MassDOT.

METHOD OF MEASUREMENT

Item 838.5 will be measured for payment by Each label furnished and installed, complete in place.

BASIS OF PAYMENT

Item 838.5 will be paid for at the Contract unit price per Each, which price shall include all labor, materials, fabrication, furnishing and installed the completed label, and all incidental costs required to complete the work.

ITEM 853.8**TEMPORARY ILLUMINATION FOR WORK ZONE****DAY**

The work under this Item shall conform to the relevant provisions of Section 850 of the Standard Specification and the following:

The work under this Item shall include furnishing, deploying and maintaining in proper operating condition an LED balloon diffuser lighting system. These portable light towers shall be used throughout the project area for temporary work zone lighting. The use of unshielded high wattage flood lights shall not be permitted.

These towers shall be used, relocated and adjusted to meet the criteria in Section 850 of the Standard Specifications and the following:

The Contractor shall illuminate the following work zone areas:

- Change in direction (i.e., work zone entrances and exits, crossovers, etc.)
- Tapered areas
- Actual area where the construction is being performed

Light measurement shall be based on the illuminance method and the lighting levels shall be based on the classification of construction activity that is taking place. At no time shall the light level be below 5 fc and the uniformity shall not exceed 6:1. Task Classifications and recommended illumination levels is shown in Table 1.

Task Classifications	Illumination Level	Average Minimum Maintained Illuminance
All work operations areas, setup of lane or road closures, lane closure tapers, and flagging stations, such as: Excavation (all types), Embankment Fill and Compaction, Reworking Shoulders, Asphalt Pavement Rolling, Subgrade, Stabilization and Construction, Base Course Rolling, Sweeping, Cleaning and Landscaping.	Level I	5 foot-candles
Areas on or around construction equipment; asphalt paving, milling, and concrete placement and/or removal, such as, Milling, Removal of Pavement, Asphalt Paving and Resurfacing, Concrete Pavement, Waterproofing and Sealing, Sidewalk Construction, Base Course Grading and Shaping, Surface Treatment, Bridge Decks, Drainage Structures and Drainage Piping, Other Concrete Structures, Barrier Wall and Traffic Separators, Guardrails and Fencing, Striping and Pavement Markings, Repair of Concrete Pavement, Highway Signs, Hole Filling and Repair of Guardrails and Fencing.	Level II	10 foot-candles
Pavement or structural crack/ pothole filling; joint repair, pavement patching and/or repairs, installation of signal/electrical/mechanical equipment, such as, Traffic Signals, Highway Lighting Systems and Crack Filling	Level III	20 foot-candles

TABLE 1

ITEM 853.8 (Continued)

Prior to commencement of work the Contractor shall submit to MassDOT for approval a description of illumination equipment that is proposed to be used on this project, and shall include photometrics that detail the light levels that are to be provided for the particular operation for the type of equipment, level of luminance and height to be installed.

Any potential glare from the lighting system should be considered from each direction and on all approaching roadways and opposing lanes of traffic. Glare from the illumination system should be minimized as much as possible for both workers and motorists in adjacent active travel lanes. If necessary, the Contractor shall provide supplemental hardware, such as, visors, louvers, shields, glare screen and barrier to reduce glare in adjacent active travel lanes.

Equipment mounted lighting may be used to supplement light towers to achieve the required lighting levels for the activity involved per Table 1.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Item 853.8 will be measured and paid for at the contract unit price per DAY, according to Subsections 850.80 and 850.81 respectively. The cost shall include all labor, materials, equipment, tools and all incidentals required for the design and installation of the work zone lighting system. This shall include, but not be limited to lighting submission preparation, wiring connections, equipment relocations, and include all material and labor incidental for a complete, functional and operational work zone illumination system.

The price of this item shall include the material and labor necessary to install any supplemental hardware required to reduce glare on all adjacent active travel lanes.

The per day price shall be full compensation for all “Temporary Illumination for Work Zone” regardless of the number of concurrent work areas, amount of equipment concurrently in use or the durations of or changes of the work shifts per day.

Furnishing, Installing, resetting, modifying and removing equipment for work zone illumination shall be incidental to Item 853.8.

ITEM 854.6**TEMPORARY PORTABLE RUMBLE STRIP****DAY**

Work under this item consists of furnishing, deploying, maintaining in proper operating conditions, and removing temporary portable rumble strips (TPRS) for temporary lane closures of 24 hours or less.

MATERIALS

The TPRS shall be 10' to 11' wide, measured perpendicular to the path of travel, 12" to 16" long, measured parallel to the path of travel, and 0.5" to 0.75" tall. All edges shall be beveled. The surfaces shall be grooved to limit potential hydroplaning.

The TPRS shall lay flat on the road surface without the use of nails, anchors, or adhesives, and shall be flexible so as to conform to the surface profile.

The TPRS shall be able to withstand vehicle weights of up to 80,000 lbs. and operate in temperatures between 0° to 120° F.

The manufacturer shall certify the TPRS to be safe for use on roads with speed limits of at least 70 mph.

TPRS that appear damaged or functioning in an unsafe manner may be order removed by the Engineer and replaced at no additional cost.

CONSTRUCTION METHODS

The TPRS shall be installed per the plans or at the discretion of the Engineer.

The Contractor shall conform to the manufacturer's specifications for installation and the following:

- A. The road surface shall be cleared of all gravel, sand, and debris.
- B. If RoadQuake 2™ model is used, the modular pieces shall be assembled into 11-foot strips per the manufacturer's instructions in advance of deployment. The interconnected segments shall form a smooth and flat, continuous section.
- C. A Truck-Mounted Attenuator, conforming to Section 850, shall be used as shadow vehicle protection during the deployment and removal of TPRS on any roadway with speeds of 45 mph or greater.
- D. TPRS shall be deployed in conjunction with all other temporary traffic control devices. MA-W28-1 (Rumble Strips Ahead) sign(s) shall be installed per the Temporary Traffic Control Plan.

ITEM 854.6 (Continued)

E. TPRS deployment:

1. TPRS shall be placed perpendicular to the direction of travel, centered in the lane.
2. Three (3) individual strips are required for a single array.
3. Refer to the Temporary Traffic Control Plan for the location of the array respective to the lane closure.
4. The spacing of the individual strips within the array shall conform to the following table:

Speed Limit	Distance Between Rumble Strips (measured center-to-center)
>55 mph	20 feet
40 mph to 55 mph	15 feet
<40 mph	10 feet

5. The TPRS shall be placed without the use of nails, adhesives, or other methods of affixing them to the road surface.
- F. All TPRS shall be maintained in proper condition, alignment, spacing, and location throughout the duration of the lane closure, at no additional cost.
- G. The TPRS shall be removed prior to the removal of the traffic control devices used to close the travel lane.
- H. TPRS shall not be used during snow events.

METHOD OF MEASUREMENT

An array of three (3) temporary portable rumble strips is considered one (1) unit and will be measured by the day. Each period of up to 24 hours during which this unit is in use will be measured as one day regardless of the number of times the array is deployed, repositioned, or removed.

BASIS OF PAYMENT

Temporary Portable Rumble Strips will be paid for at the contract unit price per day, which shall include full compensation for furnishing, deploying, repositioning, and removing the array of three (3) individual strips as directed by the Engineer.

ITEM 859.1**REFLECTORIZED DRUMS WITH SEQUENTIAL
FLASHING WARNING LIGHTS****DAY**

The work under this Item shall conform the relevant provisions of Subsection 850 of the Standard Specifications and the following:

Work under this item consists of furnishing, installing, maintaining in proper operating conditions, and removing reflectorized drums, and any necessary ballast, equipped with sequential flashing warning lights.

MATERIALS

Reflectorized drums shall be listed on the MassDOT Qualified Traffic Control Equipment List. Reflective sheeting on drums shall meet or exceed ASTM D4956 Type VIII. All drums shall be maintained in a satisfactory manner including the removal of oils, dirt, and debris that may cause reduced retroreflectivity.

The Contractor shall use one of the following sequential flashing warning light systems unless otherwise approved by the Engineer:

1. Empco-Lite LWCS.
2. pi-Lit® Sequential Barricade-Style Lamp; or
3. Unipart Dorman SynchroGUIDE.

Sequential flashing warning lights shall be secured to reflectorized drums per the light manufacturer's specifications.

CONSTRUCTION METHODS

The first ten (10) drums in any merging or shifting taper as designated in the Temporary Traffic Control Plan shall be equipped with sequential flashing warning lights. These lights shall be operating, at a minimum, between dusk and dawn when the taper is deployed.

The successive flashing of the sequential warning lights shall occur from the upstream end of the merging or shifting taper to the downstream end of the taper in order to identify the desired vehicle path. Each warning light in the sequence shall be flashed at a rate of not less than 55, nor more than 75 times per minute.

Warning lights shall be powered off when drums are not deployed in a taper.

METHOD OF MEASUREMENT

A group of ten (10) reflectorized drums with sequential flashing warning lights is considered one (1) unit and will be measured by the day. Each period of up to 24 hours during which this unit is in use will be measured as one day regardless of the number of times that the drums are positioned, repositioned, removed, or returned to service.

BASIS OF PAYMENT

Reflectorized Drums with Sequential Flashing Warning Lights will be paid for at the contract unit price per day, which shall include full compensation for furnishing, positioning, repositioning, and removing the group of ten (10) drums as directed by the Engineer.

<u>ITEM 862.406</u>	<u>6 INCH RECESSED WHITE LINE (MC, UFD, WR)</u>	<u>FOOT</u>
<u>ITEM 862.412</u>	<u>12 INCH RECESSED WHITE LINE (MC, UFD, WR)</u>	<u>FOOT</u>
<u>ITEM 862.424</u>	<u>24 INCH RECESSED WHITE LINE (MC, UFD, WR)</u>	<u>FOOT</u>
<u>ITEM 863.406</u>	<u>6 INCH RECESSED YELLOW LINE (MC, UFD, WR)</u>	<u>FOOT</u>

The work under these items shall conform to the relevant provisions of Subsection 860 of the Standard Specifications and shall consist of furnishing and installing Recessed Multi-Component (MC), Wet Reflective (WR) Pavement Markings at the locations shown on the plans or as directed by the Engineer.

If the Multi-Component Pavement Marking material is applied over a different pavement marking material, the Contractor shall provide documentation that the Multi-Component Pavement Marking Material being used will adhere to the existing marking material.

MATERIALS

MC pavement markings shall consist of a two-component, 100% solids liquid binder, first drop beads or elements to provide wet and dry retroreflectivity, and second drop glass beads to improve the durability of the pavement marking, reduce track-free times, and provide supplementary retro-reflectivity. MC Pavement Marking binders are typically composed of, but not limited to, Epoxies, Polyureas, or Urethanes.

Classification of dry time is based upon the results of the test procedures found in ASTM D711 (73.5 ± 3.5°F at 50 ± 5% relative humidity) when applied with glass beads. MC Ultra-Fast Dry (MC, UFD) pavement markings shall have a no track time of 5 minutes or less. The Contractor shall provide a Certificate of Compliance verifying the product supplied meets the specified dry time requirements per ASTM D711 prior to installation.

The Contractor shall select a liquid binder and bead/element combination that meets these performance specifications.

Second drop beads shall be manufactured from glass of a composition that is highly resistant to traffic wear and to the effects of weathering. If coating is required to meet the performance requirements, the second drop beads shall be coated to ensure satisfactory embedment and adhesion. Second drop beads retained on a No. 40 U.S. Standard Mesh Sieve shall have a minimum crush strength of 30 lbs. when tested in accordance with ASTM D1213.

Second drop beads passing the No. 30 sieve shall have a minimum of 75 percent true spheres when tested in accordance with ASTM D1155. All second drop beads retained on the No. 20 and No. 30 sieves shall have a minimum of 80 percent true spheres as determined by ASTM D1155.

Second drop beads shall meet the following gradation requirements when tested in accordance with ASTM D1214:

U.S. Standard Sieve No.	Percent Retained
20	3-10
30	15-35
50	45-75
70	0-10
Pan	0-5

ITEMS 862.406, 862.412, 862.424, and 863.406 (Continued)**CONSTRUCTION METHODS**

The Contractor shall follow all installation instructions from the manufacturer, including allowable ranges of temperature and humidity for installation, unless otherwise approved by the Engineer.

The pavement surface shall be clean, dry and free of laitance, oil, dirt, grease, paint or other foreign contaminants prior to the installation of any new pavement markings. If an air lance is used to clean the surface, air compressors shall initially be blown out away from the application area to prevent compressor condensation build-up. A minimum of 24 hours of dry time following any rainfall is required prior to the placement of pavement markings.

Recessing of markings shall be per 860.65: Recessed Markings.

Application rate for binder and all glass beads shall consider final pavement surface composition and smoothness in advance of application to ensure proper wet film thickness and embedment of all beads. The Contractor shall provide the Engineer with documentation from the manufacturer with all recommended application rates in advance of any pavement marking installation.

The minimum uniform wet thickness for the MC binder shall be 20 mils but should be increased if recommended by the manufacturer. The line thickness shall be met across at least the middle $\frac{2}{3}$ of the pavement marking width. Wet mil thickness gauges shall be provided by the Contractor to the Engineer to assure that desired thickness is achieved.

The finished white color shall be free from tint, with good opacity and visibility under both daylight and artificial light. The finished yellow color shall be defined by Federal Test Standard 595 - Color Chip Number 13538, using Federal Test Standard 141 (Method 4252). The finished lines shall be uniform in color and have clean, well-defined edges.

Glass beads shall be applied in a manner that does not induce rolling or bouncing, to ensure that exposed portions of beads are free of binder material. Beads should be embedded in the binder to a depth of approximately 50% of their diameter.

Glass beads shall be applied as a reflective medium, using the double drop method, at a rate in accordance with the manufacturer's specification in order to meet the minimum retro-reflectivity levels.

Newly installed pavement markings shall be protected from tracking during the curing period per Subsection 860.63.

Once the installed pavement markings have been open for traffic for a minimum of 7 days, the Contractor shall perform retro-reflectance readings per the measurement and sampling procedures contained in ASTM D7585 (Standard Practice for Evaluating Retroreflective Pavement Markings Using Portable Hand-Operated Instruments) using the Referee Evaluation Protocol found in section 6.4, and the testing procedures shall follow ASTM E1710 (*Standard Test Method for Measurement of Retroreflective Pavement Marking Materials with CEN-Prescribed Geometry Using a Portable Retro-reflectometer*) and ASTM E2177 (*Standard Test Method for Measuring the Coefficient of Retroreflected Luminance (R_L) of Pavement Markings in a Standard Condition of Wetness*).

ITEMS 862.406, 862.412, 862.424, and 863.406 (Continued)

The average initial retro-reflectance readings shall exceed the following minimum values:

Test Method	*White Markings	*Yellow Markings
ASTM E1710 (Dry)	475 mcd/lux/m ²	375 mcd/lux/m ²
ASTM E2177 (Wet Recovery)	375 mcd/lux/m ²	300 mcd/lux/m ²

*Observation Angle = 1.05°, Entrance Angle = 88.8°

Pavement markings with measured average initial retro-reflectance readings that do not meet the specified minimum values using the procedures outlined in subsection 6.4.5 of ASTM D7585 shall be removed by a method approved by the Engineer and reapplied at no additional cost, unless otherwise approved by the Engineer.

METHOD OF MEASUREMENT

Items 862.406, 862.412, 862.424 and 863.406 will be measured for payment respectively by the FOOT of recessed MC pavement markings installed, complete in place.

BASIS OF PAYMENT

Items 862.406, 862.412, 862.424 and 863.406 will be paid at the respective contract unit prices per FOOT, which prices shall include all material, labor, equipment, and all incidental costs required to complete the work.

<u>ITEM 864.11</u>	<u>WORD LEGENDS (PF)</u>	<u>EACH</u>
<u>ITEM 864.12</u>	<u>SYMBOLS (PF)</u>	<u>EACH</u>
<u>ITEM 864.13</u>	<u>ARROWS (PF)</u>	<u>EACH</u>
<u>ITEM 864.14</u>	<u>OVERSIZED WORD LEGENDS, SYMBOLS, AND ARROWS (PF)</u>	<u>EACH</u>

The work under these items consists of furnishing and installing pavement marking arrows, symbols, and legends at the locations shown on the plans or as directed by the Engineer. All work shall conform to Subsection 860 and the following.

MATERIALS

Preformed Markings for Legends, Symbols, and Arrows are composed of preformed thermoplastic with pigments, glass spheres or other reflective materials, and other additives to control color, retroreflectivity, and skid resistance.

All pavement marking colors shall be white and conform to MUTCD standards, including the Daytime Color Specification Limits for Retroreflective Pavement Marking Material found in 23 CFR 655, Subpart F.

The dimensions of all pavement marking legends, symbols, and arrows shall conform to Figures 3B-16, 3B-23, 3B-24, 3C-2, 8B-7, 9C-3, 9C-7, and/or 9C-9 of the MUTCD, unless otherwise shown in the plans, and are generally categorized in the following table.

Item (Type)	Typical Applications
864.11 (Legends)	Legends, typically 8 ft tall, that fit laterally within a single lane (e.g. "ONLY," "BUS," "YIELD")
864.12 (Symbols)	Symbols that fit laterally within a single lane (e.g. Preferential Lane diamond; a unit of 4 to 6 triangles equally spaced to create a Yield Line)
864.13 (Arrows)	Lane Use Arrows; Lane Use Arrows for Roundabouts
864.14 (Legends, Oversized)	Wrong-Way Arrow; Lane Reduction Arrow; Grade Crossing Symbol with RR Legend; multi-lane legends (e.g. "SCHOOL")

Post-installation, the surfaces of all preformed markings shall provide a minimum skid resistance value of 35 British Pendulum Number (BPN) when tested in accordance with ASTM E303, with exception to Preformed Markings for Bicycle Facilities, which shall provide a minimum of 55 BPN.

The leading edge(s) of all preformed markings shall be tapered to minimize risk of plow damage. Retroreflective properties shall be verified by an independent laboratory prior to installation. The average initial retroreflectance readings shall exceed the following minimum values:

Test Method	*White Markings
ASTM E1710 (Dry)	300 mcd/lux/m ²

*Observation Angle = 1.05°, Entrance Angle = 88.8°

ITEMS 864.11, 864.12, 864.13 and 864.14 (Continued)

The Contractor shall provide a Certificate of Compliance verifying the product supplied will meet the color, friction, and retroreflectivity requirements prior to installation.

CONSTRUCTION METHODS

The Contractor shall supply Shop Drawings to the Engineer for approval a minimum of 30 days in advance of installation. Shop Drawings shall include the product manufacturer's instructions, material safety data sheets (MSDS) for all components including any primers and sealers, and all tools, equipment, and procedures to be used for the installation. No work shall commence until the Shop Drawings have been approved.

It shall be the responsibility of the Contractor to prepare the surface prior to the installation of any Preformed Markings for Legends, Symbols, and Arrows. Any joints or cracks in the pavement shall be pre-treated per the manufacturer's recommendation. At larger cracks or joints the material shall be laid over the gap and off-cut 1 in. on each side of the crack or joint prior to installation.

The surface shall be clean and dry prior to installation of the system. If additional surface preparation is recommended by the manufacturer, such as the installation of a primer or preheating, it shall be completed per the manufacturer's specifications. All surface preparation shall be considered incidental to the cost of the item.

All existing pavement markings that are to remain, castings, curbs, and rumble strips within the vicinity of the Preformed Markings for Legends, Symbols, and Arrows shall be protected by the Contractor. Existing pavement markings damaged during the installation shall be removed and replaced by the Contractor at no additional cost.

The Contractor shall follow all installation instructions from the manufacturer, including allowable ranges of temperature and humidity for installation, unless otherwise approved by the Engineer.

Upon completion of installation, a sealer shall be applied if recommended by the manufacturer. The sealer shall be installed per the manufacturer's specification. The application of a sealer shall be considered incidental to the cost of the item.

The Contractor shall maintain protection of the Preformed Markings installation from vehicle and foot traffic throughout the minimum cure time recommended by the manufacturer.

METHOD OF MEASUREMENT

Items 864.11, 864.12, 864.13 and 864.14 will be measured for payment respectively by EACH Preformed Markings for Legends, Symbols, and Arrows installed, complete in place.

BASIS OF PAYMENT

Items 864.11, 864.12, 864.13 and 864.14 will be paid for at the respective contract unit price per EACH, which prices shall include all material, labor, equipment, and all incidental costs required to complete the work.

<u>ITEM 864.31</u>	<u>SLOTTED PAVEMENT MARKER ONE-WAY WHITE</u>	<u>EACH</u>
<u>ITEM 864.33</u>	<u>SLOTTED PAVEMENT MARKER TWO-WAY WHITE/RED</u>	<u>EACH</u>
<u>ITEM 864.34</u>	<u>SLOTTED PAVEMENT MARKER TWO-WAY YELLOW/RED</u>	<u>EACH</u>

The work to be done under this item shall consist of furnishing and installing one-way white, two-way white/red, and two-way yellow/red slotted pavement markers in accordance with plan detail.

CONSTRUCTION METHODS

The work shall include cutting the tapered pavement slot to the dimensions shown on the typical details for the one-way or two-way markers, application of the manufacturer's recommended epoxy adhesive, and placing the reflectorized pavement marker in the proper position within the slot so that the reflective face is visible and perpendicular to oncoming traffic and so that the top of the marker is set 1/8± inch *below* the top of the adjacent pavement.

Surface preparation and installation shall be strictly in accordance with the manufacturer's instructions.

MATERIALS

Slotted pavement markers shall be taken from the MassDOT Qualified Construction Materials List (QCML).

METHOD OF MEASUREMENT

Items 864.31, 864.33 and 864.34 will be measured for payment by the unit Each, respective slotted pavement markers installed, complete in place.

BASIS OF PAYMENT

Items 864.31, 864.33 and 864.34 will be paid for at the respective Contract unit prices per Each, which price shall include all labor, materials, equipment, and all incidental costs required to complete the work.

ITEM 865.303**DYNAMIC WZ SPEED LIMIT ASSEMBLY****DAY****ITEM 865.304****WZ SPEED LIMIT ASSEMBLY
WITH SPEED FEEDBACK PLAQUE****DAY**

The Connected Work Zone Notification System (CWZNS) is a system of field devices that transmit real-time location-based data about work zones. CWZNS field device data is provided in a Work Zone Data Exchange (WZDx) Device Feed in accordance with the United States Department of Transportation (USDOT) WZDx Specification. The Device Feed is consumed by the MassDOT Work Zone Manager application.

This special provision is for the following CWZNS field devices:

1. **Dynamic Work Zone Speed Limit (WZSL) Assembly** – A Dynamic WZSL Assembly displays the speed limit on a Hybrid Speed Limit (R2-1) sign and transmits its current location and speed limit display status.
2. **Work Zone Speed Limit (WZSL) Assembly with Speed Feedback Plaque** – A WZSL Assembly with Speed Feedback Plaque displays the speed limit on a Hybrid Speed Limit (R2-1) sign and displays the speed of approaching vehicles on a Vehicle Speed Feedback plaque and transmits its current location and speed limit display status.

The following definitions are relevant to the Dynamic WZSL Assembly and WZSL Assembly with Speed Feedback Plaque:

1. **Existing Posted Speed Limit:** The speed limit on a highway, as determined by law or regulation and as displayed on Speed Limit signs, that existed prior to construction beginning, and that continues to be in effect during construction except during those times when it is superseded by a Work Zone Speed Limit.
2. **Work Zone Speed Limit (WZSL):** A speed limit on a highway, as determined by a regulation promulgated by the Department to pertain to a specific project, that is only signed and in effect during times or under conditions specified by such regulation.

Work under these items shall include providing, installing, repositioning, operating, maintaining, and removing these CWZNS field devices.

MATERIALS

The Contractor shall provide CWZNS field devices that meet the following general requirements:

1. CWZNS field devices shall have a 4G or better modem with global positioning system (GPS).
2. CWZNS field devices shall have a self-contained power source that is recharged without manual intervention. A CWZNS field device's power source shall enable uninterrupted operation of the CWZNS field device.
3. CWZNS field devices shall be able to operate at ambient temperatures from -40 °F to 122 °F. There shall be no degradation of operation due to rain, fog, snow, ice, darkness, dust, or road debris.

ITEMS 865.303 and 865.304 (Continued)

4. CWZNS field devices shall be physically and digitally secured to prevent unauthorized tampering.
5. CWZNS field devices shall be equipped with mounting and supporting hardware and wiring necessary to complete a working system.

CWZNS field devices shall also meet the following requirements specific to the type of field device:

Dynamic WZSL Assembly

The Dynamic WZSL Assembly shall consist of a static WORK ZONE (G20-5aP) plaque mounted above a Hybrid Speed Limit (R2-1) sign, mounted on a portable mounting unit (e.g., a trailer) with leveling devices to ensure the assembly is level and plumb when installed.

The mounting height of the assembly shall be at least 5 ft measured from the bottom of the Hybrid Speed Limit (R2-1) sign to the pavement (or to the near edge of pavement, if the assembly is installed off the pavement).

The WORK ZONE (G20-5aP) plaque shall contain the legend “WORK ZONE”. The plaque shall be in accordance with Table 1 of this special provision and the latest edition of the FHWA “Standard Highway Signs” publication.

The Hybrid Speed Limit (R2-1) sign shall consist of a static portion and a changeable portion. The static portion shall contain the legend “SPEED LIMIT” in two lines of text. The changeable portion shall be mounted within the border of the static portion and below the “SPEED LIMIT” legend. The changeable portion shall have a two-digit numerical legend, capable of displaying numbers that are multiples of 5 ranging from 20 to 65. The Hybrid Speed Limit (R2-1) sign shall be in accordance with Table 1 of this special provision and the latest edition of the FHWA “Standard Highway Signs” publication.

The changeable portion of the Hybrid Speed Limit (R2-1) sign shall have a steady display (i.e., the display shall not flash). The changeable portion shall be disabled from displaying flashing numerals, numerals in a color different from the color specified in Table 1, flashing lights or strobes, word messages, or pictograms (e.g., a smiling face). The changeable portion shall automatically adjust its brightness under varying light conditions to maintain legibility.

Signs shall be *MUTCD*-compliant. Sign sheeting materials for the WORK ZONE (G20-5aP) plaque and static portion of the Hybrid Speed Limit (R2-1) sign shall be in accordance with M9.30.0, “Retroreflective Sheeting,” of the *Standard Specifications*. Sign panels shall be Type A aluminum in accordance with Subsection 828.42, “Panels,” of the *Standard Specifications*.

ITEMS 865.303 and 865.304 (Continued)

A Speed Limit Sign Beacon may be used in conjunction with the Dynamic WZSL Assembly. If a Speed Limit Sign Beacon is used in conjunction with the Dynamic WZSL Assembly, the Speed Limit Sign Beacon shall be *MUTCD*-compliant. The Speed Limit Sign Beacon shall consist of one, two, or four signal sections. The Speed Limit Sign Beacon shall be capable of being switched on and off independently from the Hybrid Speed Limit (R2-1) sign.

WZSL Assembly with Speed Feedback Plaque

The WZSL Assembly with Speed Feedback Plaque shall consist of a static WORK ZONE (G20-5aP) plaque, a Hybrid Speed Limit (R2-1) sign, a Vehicle Speed Feedback plaque, and a radar device that measures the speed of approaching vehicles to display on the Vehicle Speed Feedback plaque, all mounted on a portable mounting unit (e.g., a trailer) with leveling devices to ensure the assembly is level and plumb when installed.

The mounting height of the assembly shall be at least 4 ft measured from the bottom of the Hybrid Speed Limit (R2-1) sign or Vehicle Speed Feedback plaque, whichever is lower, to the pavement (or to the near edge of pavement, if the assembly is installed off the pavement).

The WORK ZONE (G20-5aP) plaque shall contain the legend “WORK ZONE”. The plaque shall be in accordance with Table 1 of this special provision and the latest edition of the FHWA “Standard Highway Signs” publication.

If the plans do not include any WZSL, and the only speed limit the WZSL Assembly with Speed Feedback Plaque will display during the project will be the existing posted speed limit, then the WORK ZONE (G20-5aP) plaque shall be covered or removed from the assembly.

The Hybrid Speed Limit (R2-1) sign shall consist of a static portion and a changeable portion. The static portion shall contain the legend “SPEED LIMIT” in two lines of text. The changeable portion shall be mounted within the border of the static portion and below the “SPEED LIMIT” legend. The changeable portion shall have a two-digit numerical legend, capable of displaying numbers that are multiples of 5 ranging from 20 to 65. The Hybrid Speed Limit (R2-1) sign shall be in accordance with Table 1 of this special provision and the latest edition of the FHWA “Standard Highway Signs” publication.

The Vehicle Speed Feedback plaque shall consist of a static portion and a changeable portion. The static portion shall contain the legend “YOUR SPEED”. The changeable portion should be mounted within the border of the static portion and shall be mounted below the “YOUR SPEED” legend. The changeable portion shall have a two-digit numerical legend, capable of displaying the speed of approaching vehicles measured by the radar device, in accordance with the display logic in the Construction Methods section. The Vehicle Speed Feedback plaque shall be in accordance with Table 1 of this special provision.

ITEMS 865.303 and 865.304 (Continued)

The changeable portions of the Hybrid Speed Limit (R2-1) sign and the Vehicle Speed Feedback plaque shall both have a steady display (i.e., the display shall not flash). They shall be disabled from displaying flashing numerals, numerals in a color different from the color specified in Table 1, flashing lights or strobes, word messages, or pictograms (e.g., a smiling face). They shall automatically adjust their brightness under varying light conditions to maintain legibility.

Signs shall be *MUTCD*-compliant. Sign sheeting materials for the WORK ZONE (G20-5aP) plaque and the static portions of the Hybrid Speed Limit (R2-1) sign and Vehicle Speed Feedback plaque shall be in accordance with M9.30.0, “Retroreflective Sheeting,” of the *Standard Specifications*. Sign panels shall be Type A aluminum in accordance with 828.42, “Panels,” of the *Standard Specifications*.

A Speed Limit Sign Beacon may be used in conjunction with the WZSL Assembly with Speed Feedback Plaque. If a Speed Limit Sign Beacon is used in conjunction with the WZSL Assembly with Speed Feedback Plaque, the Speed Limit Sign Beacon shall be *MUTCD*-compliant. The Speed Limit Sign Beacon shall consist of one, two, or four signal sections. The Speed Limit Sign Beacon shall be capable of being switched on and off independently from the Hybrid Speed Limit (R2-1) sign.

Table 1
Dynamic WZSL Assembly and WZSL Assembly with Speed Feedback Plaque Component Specifications

Component	Dimensions (W × H)	Legend Height and Font	Color
WORK ZONE (G20-5aP) plaque	36 in × 24 in	6 in Series D	Black border and legend on fluorescent orange background
Hybrid Speed Limit (R2-1) sign static portion (SPEED LIMIT legend)	Two options: 36 in × 48 in or 48 in × 60 in	6 in Series E (smaller sign) or 8 in Series E (larger sign)	Black border and legend on white background
Hybrid Speed Limit (R2-1) sign changeable portion (two-digit numerical legend)	Embedded within the border of the static portion	14 in to 18 in	White LEDs on an opaque black background
Vehicle Speed Feedback plaque static portion (YOUR SPEED legend)^a	36 in × 30 in to 48 in	4 in to 6 in Series D or E	Black border and legend on fluorescent orange background
Vehicle Speed Feedback plaque changeable portion (two-digit numerical legend)^a	Embedded within the border of the static portion	14 in to 18 in	Amber LEDs on an opaque black background
^a Used only on WZSL Assembly with Speed Feedback Plaque.			

ITEMS 865.303 and 865.304 (Continued)**CONSTRUCTION METHODS**

No later than 30 days before the first day of work requiring the use of CWZNS field devices, the Contractor shall submit to the Engineer for review and approval cut sheets for each model of CWZNS field device to be used. The cut sheets shall document device specifications, including details of how the CWZNS field device will communicate. Work shall not begin until the submission has been approved.

The Contractor shall install CWZNS field devices as shown on the plans and described in this special provision.

While powered on, real-time data from CWZNS field devices shall be provided in a USDOT Work Zone Data Exchange (WZDx) Specification Device Feed using the latest version, 4.2. The Device Feed shall then be able to be consumed by the MassDOT Work Zone Manager (WZM) application. The Device Feed shall meet the following requirements:

1. Each manufacturer of CWZNS field devices and Smart Work Zone (SWZ) field devices shall provide a single statewide Device Feed (one URL) that consists of all of that manufacturer's field devices that are used by or under the direction of MassDOT.
2. The Device Feed shall be made available via an HTTP GET request. The response shall be the WZDx Device Feed JSON object without a wrapper or paging.
3. The Device Feed shall be public or use "Basic" HTTP Authentication.
4. The Device Feed shall be provided over HTTPS.
5. The Device Feed shall reflect changes in CWZNS field device status (e.g., display changed or device moved) no later than 60 seconds after they occur.
6. For each CWZNS field device, the "update_date" property shall be no older than 60 minutes, except when it has stopped communicating or is otherwise in error.
7. The "id" property of each CWZNS field device feature in the Device Feed shall stay the same for the duration of the project and shall be a Universally Unique Identifier (UUID) to guarantee uniqueness between feeds and over time.

CWZNS field devices shall also meet the following requirements specific to the type of field device:

Dynamic WZSL Assembly

The Contractor shall install the Dynamic WZSL Assembly as shown on the plans or as directed by the Engineer. The Contractor shall install the Dynamic WZSL Assembly such that it is sufficiently visible and legible to motorists, as determined by the Engineer.

The Dynamic WZSL Assembly is only intended for use where the plans indicate there is a WZSL. The plans indicate the locations where and the conditions under which the WZSL shall be in effect.

ITEMS 865.303 and 865.304 (Continued)

Where and when the WZSL is to be in effect, the Dynamic WZSL Assembly shall be used. The Contractor shall set the speed limit display on the Hybrid Speed Limit (R2-1) sign in accordance with the plans.

Where and when the WZSL is not to be in effect, the Dynamic WZSL Assembly may remain in use. If the Dynamic WZSL Assembly remains in use, the Contractor shall set the speed limit display on the Hybrid Speed Limit (R2-1) sign to be the existing posted speed limit.

When the Dynamic WZSL Assembly is not in use, the Contractor shall remove it, cover it, or turn it away from traffic, and shall switch the speed limit display on the Hybrid Speed Limit (R2-1) sign to dark mode. Before powering off the Dynamic WZSL Assembly, the Contractor shall first set the speed limit display on the Hybrid Speed Limit (R2-1) sign to dark mode (in the Device Feed, this confirms the Contractor intentionally stopped using the device).

The Contractor shall not allow the Dynamic WZSL Assembly to be visible to traffic while the Hybrid Speed Limit (R2-1) sign has a dark speed limit display.

The changeable portion of the Hybrid Speed Limit (R2-1) sign shall be programmed to have a steady display (i.e., the display shall not flash) of white numerals. It shall not display flashing numerals, numerals in a color other than the color specified, flashing lights or strobes, word messages, or pictograms (e.g., a smiling face). It shall automatically adjust its brightness under varying light conditions to maintain legibility.

If a Speed Limit Sign Beacon is used in conjunction with the Dynamic WZSL Assembly, the Speed Limit Sign Beacon shall be operated in a manner compliant with the *MUTCD*. The Speed Limit Sign Beacon shall operate while and only while the Hybrid Speed Limit (R2-1) sign is displaying the WZSL. The Speed Limit Sign Beacon shall not be operated while the Hybrid Speed Limit (R2-1) sign is being used to display the existing posted speed limit.

WZSL Assembly with Speed Feedback Plaque

The Contractor shall install the WZSL Assembly with Speed Feedback Plaque as shown on the plans or as directed by the Engineer. The Contractor shall install the WZSL Assembly with Speed Feedback Plaque such that it is sufficiently visible and legible to motorists, as determined by the Engineer. The Contractor shall set the radar device in accordance with the manufacturer's guidelines and recommendations to achieve the best level of accuracy.

The WZSL Assembly with Speed Feedback Plaque is only intended for use where the plans indicate there is a WZSL. The plans indicate the locations where and the conditions under which the WZSL shall be in effect.

Where and when the WZSL is to be in effect, the WZSL Assembly with Speed Feedback Plaque shall be used. The Contractor shall set the speed limit display on the Hybrid Speed Limit (R2-1) sign in accordance with the plans.

ITEMS 865.303 and 865.304 (Continued)

Where and when the WZSL is not to be in effect, the WZSL Assembly with Speed Feedback Plaque may remain in use if the plans indicate so. If the WZSL Assembly with Speed Feedback Plaque remains in use, the Contractor shall set the speed limit display on the Hybrid Speed Limit (R2-1) sign to be the existing posted speed limit.

When the WZSL Assembly with Speed Feedback Plaque is not in use, the Contractor shall remove it, cover it, or turn it away from traffic, and shall switch the speed limit display on the Hybrid Speed Limit (R2-1) sign to dark mode. Before powering off the WZSL Assembly with Speed Feedback Plaque, the Contractor shall first set the speed limit display on the Hybrid Speed Limit (R2-1) sign to dark mode (in the Device Feed, this confirms the Contractor intentionally stopped using the device).

The Contractor shall not allow the WZSL Assembly with Speed Feedback Plaque to be visible to traffic while the Hybrid Speed Limit (R2-1) sign has a dark speed limit display.

The changeable portion of the Hybrid Speed Limit (R2-1) sign shall be programmed to have a steady display (i.e., the display shall not flash) of white numerals. It shall not display flashing numerals, numerals in a color other than the color specified, flashing lights or strobes, word messages, or pictograms (e.g., a smiling face). It shall automatically adjust its brightness under varying light conditions to maintain legibility.

While the WZSL Assembly with Speed Feedback Plaque is in use, the radar device shall detect the speed and direction of approaching vehicles in at least two lanes simultaneously. The radar device shall measure speeds within an error of ± 1 mph.

While the radar device is measuring vehicle speeds, it should log and store timestamped vehicle speeds, for at least the previous 15 days. The timestamp shall represent the date and time when each speed measurement was logged.

While the WZSL Assembly with Speed Feedback Plaque is in use, the Vehicle Speed Feedback plaque:

1. Should be in display mode when workers are present and
2. Shall be in dark mode when workers are not present.

While switched to display mode, the Vehicle Speed Feedback plaque shall display the speed of approaching vehicles in accordance with the logic in Table 2 of this special provision. While switched to dark mode, the Vehicle Speed Feedback plaque display shall be dark, but timestamped vehicle speeds should continue to be logged.

ITEMS 865.303 and 865.304 (Continued)

Table 2
Display logic for Vehicle Speed Feedback plaque in DISPLAY mode

If SL is 40 mph or less	If SL is 45 mph or greater	Changeable Display
$MVS \leq SL - 10$	$MVS \leq SL - 20$	Dark display/no legend
$SL - 10 < MVS \leq SL + 15$ <i>Vehicle speed is from 10 mph below to 15 mph above the speed limit</i>	$SL - 20 < MVS \leq SL + 20$ <i>Vehicle speed is from 20 mph below to 20 mph above the speed limit</i>	Display MVS, in steady numerals
$MVS > SL + 15$	$MVS > SL + 20$	Dark display/no legend
SL = Speed limit displayed on Hybrid Speed Limit (R2-1) sign, mph MVS = Measured vehicle speed of approaching vehicle, mph If no vehicles are detected, the display shall be dark.		

The changeable portion of the Vehicle Speed Feedback plaque shall be programmed to have a steady display (i.e., the display shall not flash) of amber numerals. It shall not display flashing numerals, numerals in a color other than the color specified, flashing lights or strobes, word messages, or pictograms (e.g., a smiling face). It shall automatically adjust its brightness under varying light conditions to maintain legibility.

If a Speed Limit Sign Beacon is used in conjunction with the WZSL Assembly with Speed Feedback Plaque, the Speed Limit Sign Beacon shall be operated in a manner compliant with the *MUTCD*. The Speed Limit Sign Beacon shall operate while and only while the Hybrid Speed Limit (R2-1) sign is displaying the WZSL. The Speed Limit Sign Beacon shall not be operated while the Hybrid Speed Limit (R2-1) sign is being used to display the existing posted speed limit.

METHOD OF MEASUREMENT

Item 865.303, Dynamic Work Zone Speed Limit (WZSL) Assembly and Item 865.304, Work Zone Speed Limit (WZSL) Assembly with Speed Feedback Plaque will be measured for payment respectively by the Day. Each period of up to 24 hours during which a CWZNS field device unit is installed and operating shall be measured as 1 day, regardless if the unit is repositioned, removed, or returned to service during the same period.

BASIS OF PAYMENT

Item 865.303, Dynamic Work Zone Speed Limit (WZSL) Assembly and Item 865.304, Work Zone Speed Limit (WZSL) Assembly with Speed Feedback Plaque will be paid for at the respective Contract unit price per Day.

Payment under these items shall constitute full compensation for material, equipment, and labor required for the satisfactory completion of the work under these items, including providing, installing, repositioning, operating, maintaining, and removing the CWZNS field devices. The Device Feed for each CWZNS field device, licenses, fees, communication costs, power costs, and access to real-time and recorded data shall be incidental and included in the cost of each CWZNS field device item.

ITEMS 865.303 and 865.304 (Continued)

If a Speed Limit Sign Beacon is used in conjunction with the Dynamic WZSL Assembly, the Speed Limit Sign Beacon shall be incidental and included in the cost of the Dynamic WZSL Assembly.

If a Speed Limit Sign Beacon is used in conjunction with the WZSL Assembly with Speed Feedback Plaque, the Speed Limit Sign Beacon shall be incidental and included in the cost of the WZSL Assembly with Speed Feedback Plaque.

CWZNS field devices that are lost, stolen, vandalized, damaged, destroyed, or deemed unacceptable while their use is required on the project shall be replaced by the Contractor at no additional cost to the Department.

If it is necessary to use temporary traffic control devices in conjunction with work under CWZNS field device items, then those temporary traffic control devices shall be paid for under their respective pay items.

If a leveling pad or other site modification is needed to prepare a site for the installation of a CWZNS field device, then it shall be incidental and included in the cost of the CWZNS field device item.

The Department shall not pay for days when a CWZNS field device fails to operate as specified or when the Contractor fails to complete the work on that day.

When a CWZNS field device fails to operate as specified, the Contractor shall make the necessary corrections to restore the CWZNS field device to satisfactory operation in a timely manner.

The Department may order the Contractor to stop work on the project if the Department determines a CWZNS field device(s) provided by the Contractor repeatedly fails to operate as specified.

ITEM 866.606**6 INCH RECESSED WHITE LINE (PF, WR)****FOOT**

The work under these items consists of furnishing and installing preformed (PF) wet reflective (WR) pavement marking lines at the locations shown on the plans or as directed by the Engineer. All work shall conform to Subsection 860 and the following.

MATERIALS

The preformed marking material to be used shall be Stamark 380AW or Stamark 380AW-5 (Contrast) by 3M or approved equal.

Preformed Marking Lines are composed of preformed thermoplastics, tape, or other materials premixed with pigments, glass spheres or other reflective materials, and other additives to control color, retroreflectivity, and skid resistance.

All pavement marking colors shall conform to the MUTCD standards, including the Daytime Color Specification Limits for Retroreflective Pavement Marking Material found in 23 CFR 655, Subpart F.

Post-installation, the surfaces of all preformed markings shall provide a minimum skid resistance value of 35 British Pendulum Number (BPN) when tested in accordance with ASTM E303, with exception to crosswalks, stop lines, and markings that delineate bicycle facilities, which shall provide a minimum of 55 BPN.

Retroreflective properties shall be verified by an independent laboratory prior to installation. The average initial retroreflectance readings shall exceed the following minimum values:

Test Method	*White Markings	*Yellow Markings
ASTM E1710 (Dry)	500 mcd/lux/m ²	300 mcd/lux/m ²
ASTM E2177 (Wet Recovery)	300 mcd/lux/m ²	250 mcd/lux/m ²
ASTM E2832 (Continuous Wetting)	250 mcd/lux/m ²	200 mcd/lux/m ²

*Observation Angle = 1.05°, Entrance Angle = 88.8°

The black contrast shall be non-reflective and 1 to 2 in. wide, adding a total of 2 to 4 in. of nominal width to the line.

The leading edge(s) of all preformed markings shall be tapered to minimize risk of plow damage.

The Contractor shall provide a Certificate of Compliance verifying the product supplied will meet the color, friction, and retroreflectivity requirements prior to installation.

CONSTRUCTION METHODS

The Contractor shall supply Shop Drawings to the Engineer for approval a minimum of 30 days in advance of installation. Shop Drawings shall include the product manufacturer's instructions, material safety data sheets (MSDS) for all components including any primers and sealers, and all tools, equipment, and procedures to be used for the installation. No work shall commence until the Shop Drawings have been approved.

ITEM 866.606 (Continued)

Recessing of markings shall be per 860.65: Recessed Markings.

Lines shall not be placed adjacent to each other to increase line width unless lines greater than 12 in. wide are required and the manufacturer's specifications allow it.

All existing pavement markings that are to remain, castings, curbs, and rumble strips within the vicinity of the Preformed Markings shall be protected by the Contractor. Existing pavement markings damaged during the installation shall be removed and replaced by the Contractor at no additional cost.

The Contractor shall follow all installation instructions from the manufacturer, including allowable ranges of temperature and humidity for installation, unless otherwise approved by the Engineer.

Upon completion of installation, a sealer shall be applied if recommended by the manufacturer. The sealer shall be installed per the manufacturer's specification. The application of a sealer shall be considered incidental to the cost of the item.

The Contractor shall maintain protection of the Preformed Markings installation from vehicle and foot traffic throughout the minimum cure time recommended by the manufacturer.

METHOD OF MEASUREMENT

Item 866.606 will be measured for payment by the Foot of Preformed Marking Lines installed, complete in place, as specified under Subsection 860.80.

BASIS OF PAYMENT

Item 866.606 will be paid for at the Contract unit price per Foot, which price shall include all material, labor, equipment, and all incidental costs required to complete the work. The installation, inspection, and acceptance of the groove shall be considered incidental to the cost of this Item.

ITEM 874.2**TRAFFIC SIGN REMOVED AND RESET****EACH**

The work to be done under this Item shall conform to the requirements of Subsections 828 and 840 of the Standard Specifications and the following:

The work under this Item consists of removing and resetting warning, regulatory and route marker signs together with their posts. The signs and reusable posts shall be carefully removed and satisfactorily stored and protected until required for resetting. Signs and/or posts designated for reuse that are lost, damaged, or otherwise made unsuitable for reuse while being removed, transported, stored, or reset shall be replaced with new materials at the Contractor's expense. New posts, when required and not available on the project, will be paid for under Item 847.1 or 848.1 as appropriate.

The Contractor shall coordinate the removal of the signs and posts with the Engineer by notifying the Engineer prior to beginning the work. If practicable, existing signs shall remain in place until new sign posts are stable in their final location and the signs can be reset. During the execution of the work, if the absence of existing sign may cause hazardous conditions or excessive disruption to traffic, the Engineer may direct the Contractor to erect temporary signage until the signs are reset in their final locations. Temporary signage will be considered as incidental to this Item.

The Contractor shall backfill with compacted gravel all holes resulting from the removal of the existing signs and their foundations and restore the area to match existing conditions of adjacent areas.

METHOD OF MEASUREMENT

Item 874.2 will be measured for payment by the Each traffic sign removed and reset, complete in place. Multiple sign panels on one post assembly, single or double, such as a route marker and cardinal direction marker or a sign requiring a second graphic sign, shall be measured as a single unit

BASIS OF PAYMENT

Item 874.2 will be paid for at the Contract unit price per Each, which price shall include all labor, materials, equipment, excavation, foundation removal and disposal, backfill and area restoration, dismantling, loading, transporting, storing, and all incidental costs required to complete the work.

ITEM 874.41**TRAFFIC SIGN REMOVED AND DISCARDED****EACH**

The work under this Item consists of removing and discarding all signs together with their posts, regardless of size of posts and number of panels. All materials removed and discarded under this Item shall become the property of the Contractor, who shall properly dispose of the same away from the project site with no additional compensation.

Any existing foundation or support shall be excavated to at least two-feet (2') below existing grade. The resulting void shall be filled with suitable material. If directed by the Engineer, the Contractor shall apply loam and seed to the disturbed area immediately adjacent to the sign.

METHOD OF MEASUREMENT

Item 874.41 will be measured for payment by the Each traffic sign removed and discarded. Multiple signs on one post assembly (single or double, such as a route marker and cardinal direction marker or a sign requiring a second graphic sign) shall be considered as one unit.

BASIS OF PAYMENT

Item 874.41 will be paid for at the Contract unit price Each, which price shall include all labor, materials, equipment and all incidental costs required to complete the work.

No separate payments will be made for all excavation (including rock excavation), gravel backfill, compaction and restoration work but all costs in connection therewith shall be included in the Contract unit price bid.

ITEM 909.3 **RAPID HARDENING CONCRETE FOR REPAIRS** **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 the supplying, mixing, placing, and curing of a low permeability rapid hardening concrete for repairs. This item shall be used for patching after all deteriorated and/or unsound concrete is removed from the bridge deck.

MATERIALS

Materials shall meet the requirements specified in the following Subsections of Division III:

M4.03.0	Concrete Produced by Volumetric Mixers
M4.06.4	Rapid Hardening Concrete

The nominal maximum aggregate size shall be 3/8 inch.

Materials shall be delivered to jobsite in original, unopened, undamaged containers that clearly show the manufacturer's name, product name, and batch number. Material shall be stored in a dry area off the ground, protected from rain, snow, and other sources of moisture. Material shall be protected from temperature extremes. Bulk sand and coarse aggregate shall be stored in a well-drained area on a clean, solid surface and materials shall be covered to prevent contamination with foreign matter.

CONSTRUCTION METHODS

All cement concrete materials, concrete handling, placement, protection, curing, and finishing requirements of the *Subsection 901* shall apply.

PLACEMENT AND FINISHING

The Contractor's attention is directed towards the Repair Procedure as noted in Document A00803. Surfaces that are adjacent to the placement shall be protected with drop cloths, waterproof paper, or other means to maintain them free of material splashes, water, and debris.

All concrete surfaces to be patched shall be roughened, cleaned of all laitance, dirt, grease, oil, other contaminants, and all standing water. All reinforcing steel encountered in the excavation shall be thoroughly cleaned by abrasive blasting before being covered with new concrete.

In bonding new concrete to concrete already set, the surface of the concrete shall be thoroughly cleaned, roughened, wetted with clean water, and then flushed with a mortar composed of equal parts of the cement and sand specified for the new concrete, before new concrete is placed adjacent thereto. New concrete shall be placed before mortar has taken initial set. In lieu of the mortar, an epoxy adhesive suitable for bonding fresh concrete to hardened concrete for load bearing applications may be used. The epoxy adhesive shall conform to AASHTO M 235M/M 235 Type V and shall be applied in accordance with the manufacturer's recommendations.

ITEM 909.3 (Continued)

The deck repair concrete shall be placed immediately after mixing and shall be worked firmly into sides and bottom of repair area to achieve good bond. The concrete placement shall start at one edge of the excavation and shall continue full depth with temporary vertical bulkheads, if needed, to ensure that horizontal cold joints do not occur between successive concrete placements.

Curing method shall be in accordance with Subsection 901.38.D.1: Liquid membrane-Forming Compounds for Curing.

Final finishing shall be performed as soon as possible after placement as there will be little or no bleed water.

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.

Approval by the Engineer for all formwork shall be required prior to placement of any concrete. Formwork shall be maintained and remain in place a minimum of seventy-two (72) hours after placement.

Protective sealing compounds shall be applied to repair areas where required by the Engineer. Protective sealing compounds shall be in accordance with Subsection 901.41.

BRIDGE DECK VIBRATION

At the direction of the Engineer, in order to minimize the effects of vibrations from vehicular traffic passing in adjacent lanes next to each placement, traffic should be slowed along the adjacent travel lanes and the placement of concrete should be executed between the hours of lower traffic volumes.

OPEN TO TRAFFIC

Compressive strength of 2000 psi shall be attained prior to opening the area to traffic.

Rapid setting concrete placements shall be completed for nighttime operations so that the required compressive strength is attained before the area is opened to traffic.

DEPARTMENT ACCEPTANCE

Quality Control and Department Acceptance shall meet the requirements specified in the following Subsections of Division III:

- | | |
|---------|--------------------------|
| M4.03.2 | Producer Quality Control |
| M4.03.3 | Department Acceptance |

ITEM 909.3 (Continued)**METHOD OF MEASUREMENT**

Item 909.3 will be measured for payment by the Cubic Yard of Rapid Hardening Concrete for Repairs installed, complete in place.

BASIS OF PAYMENT

Item 909.3 will be paid for at the Contract unit price per Cubic Yard, which price shall include all labor, materials, equipment, surface preparation, and all incidental costs required to complete the work.

No separate payment will be made for the installation and subsequent removal of any formwork, coating/patching of the steel reinforcing, but all costs in connection therewith shall be included in the Contract unit price bid.

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

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 shall consist of drilling holes, furnishing, installing, and grouting of steel dowel reinforcement at the locations shown on the drawings or 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.

CONSTRUCTION METHODS

All dowel holes shall be air drilled provided that the minimum edge distance of 6 inches is observed. Should, in the Engineer's opinion, air drilling be inappropriate due to questionable strength of the existing concrete or insufficient edge distance, the dowel holes shall be diamond core drilled. The inner surfaces of the diamond core drilled dowel hole's inner surfaces shall be subject to the approval of the Engineer. The diameter of the drilled dowel holes shall be in accordance with the recommendations of the grout manufacturer. The holes shall be blown clear of any debris and shall have the approval of the Engineer prior to the placement of any grout material. The drilling operation shall be performed without damage to any portion of the existing structure that is to remain in place. Any damage to any portion of the existing structure that is to remain in place shall be repaired to a condition equal to or better than that existing prior to the beginning of the Contractor's operations and shall be repaired at the Contractor's expense.

The Contractor shall strictly follow the recommendations of the manufacturer for mixing and placing the grout material prior to the placement of the dowel. The Contractor shall adhere to the recommendations of the manufacturer regarding minimum and maximum temperatures while placing the grout. Any excessive grout around the hole after placement of the dowel shall be struck off smooth while the grout is still fresh.

The Contractor shall perform on site a minimum of two (2) tests of the dowels (one test for each side of stage construction) for capacity in tension in each location or component. The test shall be performed in the presence of and to the satisfaction of the Engineer. The testing, including the necessary material and equipment to perform the test, is incidental to the work under this Item. The pullout force shall correspond to 90% of the yield strength of the bar.

ITEM 912. (Continued)

If the test bar pulls out or if the concrete utilized in the test shows signs of fracture, the Contractor shall adjust the hole diameter, embedment length, and/or grout material to meet this requirement. The method of applying the tension load to the dowels shall conform to ASTM E488. Details of the test procedure, materials, and equipment shall be submitted to the Engineer for review and approval prior to commencement of the test. Dowels shall not be ordered until the embedment lengths have been approved by the Engineer.

The Contractor shall arrange with the material's manufacturer or distributor to have the services of a competent field representative at the work site prior to any drilling of the proposed dowel holes to instruct the work crews in proper dowel installation procedures. The field representative shall remain at the job site after work commences and continue to instruct until the representative, the Contractor, and Engineer are satisfied that the crew has mastered the technique of installing the dowels successfully. The representative shall make periodic visits to the project as the work progresses and shall confer on each visit with the Contractor, Inspector and/or Engineer. The manufacturer's field representative must be fully qualified to perform the work and shall be subject to the approval of the Engineer.

METHOD OF MEASUREMENT

Item 912. will be measured for payment by the Each dowel installed, complete in place.

BASIS OF PAYMENT

Item 912. will be paid for at the Contract unit price per Each, which price shall include all labor, materials, equipment, furnishing dowels, drilling holes, grouting the dowels regardless of the diameter or depth of the hole, and all incidental costs required to complete the work.

The Contractor shall be completely responsible for the expense of the service of the required field representative and the contract unit price shall be considered full compensation for all costs in connection therewith.

ITEM 964.7**EPOXY MORTAR FOR PATCHING****SQUARE FOOT**

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

The work shall include repairing deteriorated or spalled areas that are no more than one (1) inch in depth, by applying epoxy mortar for patching.

A two-component, polymer-modified, cementitious, fast-setting, non-sag structural repair mortar shall be used to patch the existing structures in those areas designated by the Engineer.

The procedure to be used to repair deteriorated or spalled concrete shall be as follows:

The Contractor shall remove existing concrete as described in the special provision for Item 127.1. The Contractor shall have the approval of the Engineer certifying that existing concrete has been removed to the required limits and that adequate surface preparation has been achieved before any mortar is placed.

The epoxy mortar shall meet all requirements of Section M4.04.0 and curing shall be in accordance with Section 901.65.B.

Products to be used for this Item shall be approved by the Engineer before the Contractor begins his operations and shall be on the Department's approved products list.

All exposed concrete surfaces on which mortar is to be placed shall be roughened, cleaned with a minimum air pressure of 100 psi to remove loosened particles and coated with an epoxy bonding compound.

Mortar shall be prepared and mixed in accordance with manufacturer's recommendations.

A stiff mix is required for vertical or overhead surfaces.

Mortar shall be worked into substrate filling all pores and voids. Material shall be forced into edge of the repair and worked towards the center. After filling, the material shall be consolidated and then screeded.

Maximum thickness in one pass shall be as specified by the Manufacturer but in no case greater than one (1) inch. If the Contractor chooses to place the mortar in two lifts each lift shall be of approximately equal thickness. Before the first pass has achieved an initial set, the surface shall be prepared for the second pass by scratching with a scratcher trowel/knife or scarifier to form a grid of deformation on the surface.

ITEM 964.7 (Continued)**METHOD OF MEASUREMENT**

Item 964.7 will be measured for payment by the Square Foot of the exposed area of the patch, complete in place.

BASIS OF PAYMENT

Item 964.7 will be paid for at the Contract unit price per Square Foot, which price shall include all labor, materials, equipment, and all incidental costs required to complete the work. The epoxy bonding compound shall be considered incidental to this Item.

ITEM 973.2**PRE-COMPRESSED JOINT SEAL****FOOT**

The work under this item shall conform to the relevant provisions of Subsections 971 and 972 of the Standard Specifications, and the following:

The work shall consist of furnishing and installing preformed, pre-compressed, self-expanding, sealant system with silicone pre-coated surface at locations as noted in these special provisions and specified by the Engineer.

The intent of this specification is to retain the components of the existing expansion joints to the maximum extent possible, and to replace only the existing seal or backer rod and sealant in the bridge deck or parapet.

The pre-compressed seal system shall be installed in parts- the bridge joint horizontal section, the curb unit section and the bridge parapet unit section.

All joint sealing material shall be capable of accommodating movements of +50%,-50% (100% Total) of nominal material size.

The preformed, pre-compressed, self-expanding, sealant system with silicone pre-coated surface shall be comprised of three components: 1) cellular polyurethane foam impregnated with hydrophobic 100% acrylic (to be certified in writing by independent laboratory tested FTIR and DSC analysis to be free in composition of any waxes or wax compounds), water based emulsion, factory coated with highway-grade, fuel resistant silicone; 2) field-applied epoxy adhesive primer; 3) field-injected silicone sealant bands. Impregnation agent is to have proven non-migratory characteristics. Silicone coating to be highway-grade, low-modulus, fuel resistant silicone applied to the impregnated foam sealant at a width greater than maximum allowable joint extension and which when cured and compressed will form a bellow. Size of the seal shall be as recommended by manufacturer for the specific location and may vary along the length of the joint. The foam seal shall be installed into manufacturer's standard field-applied epoxy adhesive. The seal system is to be recessed from the deck surface such that after the field applied injection band of silicone is installed between the substrates and the foam, the highest part of the pre-applied silicone facing will be below the deck surface as shown on the drawings.

The uncompressed joint material must have a width equal to the widest calculated opening of the joint. The joint size shall be adjusted for actual measurements and adjusted for temperatures. Using the actual opening at a given temperature, the needed uncompressed size of the joint material can be determined. The Contractor shall submit measurements at a given temperature for the District Bridge Engineer to confirm the seal size.

The pre-compressed seal joint system shall be approved by the District Bridge Engineer in writing.

All material for the pre-compressed joint seal system shall be stored indoors, in a dry area out of direct sunlight at room temperature

ITEM 973.2 (Continued)

Changes in plane and direction shall be executed using factory-fabricated or custom transition assemblies supplied by the same manufacturer of the preformed, pre-compressed, self-expanding, sealant system with silicone pre-coated surface. Transitions shall be warranted to be watertight at inside and outside corners through the full movement capabilities of the product.

PREPARATION OF AREA

When the pre-compressed joint system is used as the replacement seal for existing armored joint systems, the joint opening and surface of the existing armored joint steel angles shall be cleaned and abrasive blasted to meet the requirements of SSPC SP-10 "Near White Metal", inspected and approved by the Engineer. The preparation of the surface shall also include any required scraping to remove any delaminated steel areas prior to abrasive blasting. The Contractor shall install the new seal in accordance with the seal manufacturer's latest instructions and specifications.

CONSTRUCTION METHOD

Prior to installation of the joint system, the joint opening should be blown clean using compressed air. The compressed air shall be free of moisture and oil. To ensure cleanliness, the joint walls shall be wiped clean with an approved solvent dampened, lint free rags, to the depth of the bottom of the pre-compressed seal material plus 1" to remove any dust remaining. The joint gap shall be inspected for cleanliness by the Engineer. Should any contaminants remain, the joint must be re-cleaned.

The preformed, pre-compressed, self-expanding, sealant system with silicone pre-coated surface shall be continuous through parapets as appropriate to the conditions at hand. Continuity of seal shall be achieved through the use of factory-fabricated universal or custom transitions supplied by the preformed, pre-compressed, self-expanding, sealant system with silicone pre-coated surface joint seal manufacturer.

MANUFACTURER'S FIELD REPRESENTATIVE

1. The Contractor shall arrange with the preformed, pre-compressed, self-expanding, sealant system with silicone pre-coated surface joint's manufacturer or distributor to have the services of a competent field representative at the work site prior to any installation to instruct the work crews in the proper installation procedures. The field representative shall remain at the job site after work commences and continue to instruct until the representative and the Contractor, Inspector and/or Engineer are satisfied that the crew has mastered the technique of installing the system successfully. The representative shall make periodic visits to the project as the work progresses and shall confer on each visit with the Contractor, Inspector and/or Engineer.
2. The manufacturer's field representative must be fully qualified to perform the work and shall be subject to the approval of the Engineer.

ITEM 973.2 (Continued)

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

WATERTIGHT INTEGRITY TEST

A watertight integrity test shall be required at each joint, as specified in Section 972.67.

METHOD OF MEASUREMENT

Item 973.2 will be measured for payment by the Foot as the bridge joint horizontal section, the curb unit section and the bridge parapet unit section, with the measurement following the top surface of the seal, complete in place.

BASIS OF PAYMENT

Item 973.2 will be paid at the Contract unit price per Foot of preformed, pre-compressed, self-expanding, sealant system with silicone pre-coated surface bridge joint installed. The unit bid price shall include all costs for labor and materials required for removal and installation of the new seal to include; Removal and proper disposal of the old seal, cleaning and preparation of the joint area (abrasive blasting, scraping, grinding, air blasting, solvent cleaning), installation of the new seal, and watertight integrity testing, regardless of the dimensions of joints at each bridge location. The unit bid price shall include all costs associated with providing the manufacturer's representatives and Engineering Services by the joint manufacturer for proper sizing of the joint materials.

ITEM 994.1**TEMPORARY PROTECTIVE SHIELDING****SQUARE FOOT**

The work under this item consists of furnishing, installing, maintaining, removing and disposing of existing shielding systems on and under bridge(s), in locations required by the Engineer.

The work under this Item shall provide for the protection of traffic, persons, and facilities on the roadway beneath bridges from falling debris during the removal of the unsound concrete from bridge decks, parapets, and copings.

No portion of the bridge deck shall be removed until the protective shielding is in place and complete.

Note that some of the bridges, due to their height (vertical clearance), may require special lifting equipment in order to place shielding for the assigned bridge repair work. Any equipment necessary to erect forms will be considered incidental to these items.

Any existing formwork on the bridge shall also be removed and disposed by the Contractor away from the job area, at no additional expense.

Any existing shielding on the bridge may be retained for the uses outlined in this Item so long as requirements (1) through (3) listed below are met.

All shielding shall meet the following requirements:

1. Temporary Protective Shielding must be used on bridges over roadways, railroads, and waterways during full depth excavation and when, in the opinion of the Engineer, there is the possibility of dislodging concrete from the bottom of the deck, parapets or coping. In some cases, the Contractor may be able to utilize the bottom flanges of existing steel beams as supports for the protective shielding. However, the Contractor will not be permitted to weld onto, drill into, or cut any existing structural steel beams.
2. The Contractor shall submit drawings and calculations stamped by a Professional Engineer of the appropriate discipline registered in Massachusetts of the proposed temporary shielding to the Engineer for approval prior to its installation. The drawings shall include details of all connections, brackets, and fasteners. However, when the spacing between existing steel beams is 70 inches or less, the Contractor may utilize a wood plank shielding scheme.
3. Shielding shall be designed to safely withstand all loads that it will be subjected to. The allowable design stresses shall be in accordance with AASHTO Standard Specifications for Highway Bridges, 17th Edition. The design shall also include a description of the equipment and construction methods proposed for the deck, parapet, or coping excavation and the maximum size of the area being excavated. The shielding shall also be designed to withstand the maximum size of the excavated area should it fall during excavation or removal. No debris shall be swung over traffic, on or below the bridge.

ITEM 994.1 (Continued)

4. Shielding shall be designed such that impact on traffic during installation and removal shall be minimal. The Contractor shall submit the traffic plan to the Engineer for approval.
5. The shielding shall extend a sufficient distance above and beyond the deck overhang at the fascia where concrete excavation is required outside the fascia beams. The shielding shall extend the length of the damaged or distressed portion of the deck a length of sufficient distance to do the required deck demolition. Also, the width of shielding shall completely extend over the travel lanes and shoulders of the highway below and shall extend a minimum of one beam width in the transverse direction beyond the limits of the excavation.
6. The area for shielding shall be approved by the Engineer prior to any installation of any shielding. All spaces along the perimeter of the shielding and at the seams shall be sealed to prevent dust, water, and debris from escaping and falling onto traffic below the bridge.
7. The Engineer may request that the shielding be designed so that it may also serve as false work (forms) for all areas of full-depth concrete replacement/repair.
8. The shielding shall not decrease the minimum vertical bridge clearance to the roadway unless otherwise approved by the Engineer.
9. The shielding shall be maintained and remain in place until the strength of the concrete used to repair the deck has cured and reached the design strength requirement, except where shielding needs to be removed and reset to install formwork for the areas of full depth repair. The shielding shall remain the property of the Contractor and shall be removed by the Contractor from the site when no longer needed.

If the Contractor's operations damage any existing portions of the bridge that are to remain, such damage shall be repaired at the Contractor's own expense.

All materials used in the temporary shielding system shall become the property of the Contractor and shall be removed from the site upon the completion of the project.

METHOD OF MEASUREMENT

Item 994.1 will be measured for payment by the Square Foot of shielding installed, maintained, and removed upon completion of repair work as required by the Engineer.

BASIS OF PAYMENT

Item 994.1 will be paid for at the Contract unit price per Square Foot, which price shall include all labor, materials, equipment, removal and disposal all debris, shielding installation, maintenance, final removal upon completion of repair work, and all incidental costs required to complete the work.

ITEM 994.1 (Continued)

Payment of 60% of the Square Foot of this item will be made upon complete installation.
The remaining 40% of the Square Foot of this Item will be paid following complete removal.

Note: Temporary protective shielding has already been installed as a precautionary measure at several locations under the subject bridges. The existing shielding may be retained in lieu of installing new shielding under this Item so long as requirements one (1) through three (3) as listed previously in this Special Provision are met. No additional payment shall be made for reuse of existing protective shielding.

Engineering Services, when required, shall be incidental to this Item.

END OF DOCUMENT

DOCUMENT A00802

DETAIL SHEETS

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THE COMMONWEALTH OF MASSACHUSETTS
MassDOT - HIGHWAY DIVISION
TEN PARK PLAZA, BOSTON, MA

PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEETS

City/Town: Holyoke/West Springfield

Road: Interstate 91

Station: MM 10.5 to MM 14.9

Class: Interstate

Date: August 10, 2026

Earth Excavation	25	SY	Pavement Milling Mulch for Shoulders	135	TON
Gravel Borrow	5	CY			

PAVEMENT NOTES

**PROPOSED ULTRATHIN BONDED OVERLAY
(I-91 MAINLINE TRAVEL LANES)**

AREA = 184,200± SY

SURFACE: 0.75 INCHES ULTRATHIN BONDED OVERLAY – TYPE 2 - POLYMER

SHIM MILLING: 0 TO 0.75 INCHES PAVEMENT MILLING FOR INLAY WITHIN
7 FEET OF EDGE OF OUTSIDE LANES OVER

CRACK SEALING: PAVEMENT CRACK SEALING – HIGH PERFORMANCE CRACK
SEALER

FOR PAVEMENT TRANSITION AREAS:

FINE MILLING: 0 TO 0.75 INCHES PAVEMENT FINE MILLING OVER

CRACK SEALING PAVEMENT CRACK SEALING – HIGH PERFORMANCE CRACK
SEALER

**PROPOSED PAVEMENT FINE MILLING & PAVEMENT OVERLAY
(INTERCHANGE RAMPS AND I-91 / I-90 CONNECTOR)**

AREA = 71,996± SY

SURFACE: 2.0 INCHES SUPERPAVE SURFACE COURSE POLYMER – 12.5 (SSC –
12.5 – P)

FINE MILLING: 2.0 INCHES FINE MILLING

CRACK SEALING PAVEMENT CRACK SEALING – HIGH PERFORMANCE CRACK
SEALER

PAVEMENT NOTES (Continued)**PROPOSED FOG SEAL (I-91 MAINLINE SHOULDERS)****AREA = 51,369± SY**

SURFACE: 0.1 GAL/SY FOG SEAL POLYMER OVER

CRACK SEALING PAVEMENT CRACK SEALING – HIGH PERFORMANCE CRACK SEALER

ASPHALT EMULSION FOR TACK COAT IS NOT REQUIRED FOR FOG SEAL.

**BRIDGE PAVEMENT EXCAVATION AND PAVEMENT OVERLAY
(BRIDGES W-21-038, 040, 042, H-21-047, 048, 049, & 051)****AREA = 10,677± SY**SURFACE: 2.50 INCHES SUPERPAVE WATERPROOFING SURFACE
COURSE – 12.5 (SSC – W – 12.5)

FOR BRIDGE DECK:

BRIDGE PAVEMENT EXCAVATION: ALL HMA (APPROXIMATELY 2.50 INCHES) AND ALL
EXISTING BRIDGE MEMBRANE REMOVALASPHALT EMULSION FOR TACK COAT SHALL BE APPLIED AT 0.06 TO 0.08 GAL/SY OVER
ALL BRIDGE DECKS.REINFORCED CONCRETE DECK EXCAVATION: 10% FULL DEPTH REPAIR ON BRIDGES W-21-038 & H-21-047
15% FULL DEPTH REPAIR ON BRIDGES H-21-048, 049, & 051
5% FULL DEPTH REPAIR ON BRIDGES W-21-042 & 040
15% PARTIAL DEPTH REPAIR ON BRIDGES W-21-038,
H-21-047, 048, 049, 051
10% PARTIAL DEPTH REPAIR ON BRIDGE W-21-042 & 040

FOR PAVEMENT TRANSITION AREAS:

FINE MILLING: 2.50 INCHES PAVEMENT FINE MILLING

CRACK SEALING PAVEMENT CRACK SEALING – HIGH PERFORMANCE CRACK SEALER

NOTE: BRIDGE WATERPROOFING MEMBRANE SHALL NOT BE INSTALLED ON ANY
BRIDGE.

PAVEMENT NOTES (Continued)**BRIDGE PAVEMENT MILLING AND PAVEMENT OVERLAY**
(BRIDGE H-21-046)**AREA = 615± SY**

SURFACE: 1.50 INCHES SUPERPAVE WATERPROOFING SURFACE COURSE -
9.5 (SSC-W-9.5) OVER

FOR BRIDGE DECK:

BRIDGE MILLING: 1.50 INCHES BRIDGE PAVEMENT MILLING

FOR PAVEMENT TRANSITION AREAS:

FINE MILLING: 1.50 INCHES PAVEMENT FINE MILLING

CRACK SEALING PAVEMENT CRACK SEALING – HIGH PERFORMANCE CRACK
SEALER

ITEM 101.1 **CLEARING**

To clear vegetation from roadsides. See limits of clearing detail in the Construction Plans. On the I-90 Connector, no clearing within 100 feet of wetlands or within 200 feet of perennial streams, unless limited to within 6 feet from the back of guardrail/edge of pavement.

ITEM 102.1 **TREE TRIMMING**

To trim tree branches that are extending over the road. See tree trimming detail in the Construction Plans. On the I-90 Connector, no clearing within 100 feet of wetlands or within 200 feet of perennial streams, unless limited to within 6 feet from the back of guardrail/edge of pavement.

ITEM 106.15 **BLEEDER (BRIDGE DECK) PVC**

Contingency to replace damaged PVC bleeders.

ITEM 106.16 **BRIDGE DECK DRAIN PVC PIPE EXTENSION**

Contingency for PVC pipe extension.

ITEM 120. **EARTH EXCAVATION**

To remove built-up sediment along sides of the road to restore country drainage and contingency for full depth roadway excavation at proposed bridge saw and seal joints where roadway subbase is failing as determined by the Engineer.

ITEM 127.1 **REINFORCED CONCRETE EXCAVATION**

To excavate concrete for joint replacement per plan detail at the following locations:

- Bridge W-21-038 – Interstate 91 NB and SB over Prospect Avenue
- Bridge W-21-040 – Interstate 91 / Interstate 90 Connector over Prospect Avenue
- Bridge W-21-042 – Interstate 91 / Interstate 90 Connector over Interstate 90 Ramp
- Bridge H-21-047 – Interstate 91 NB and SB over Lower Westfield Road
- Bridge H-21-048 – Interstate 91 NB and SB over Westfield Road
- Bridge H-21-049 – Interstate 91 NB and SB over US Route 202 Cherry Street
- Bridge H-21-051 – Interstate 91 NB and SB over Scott Tower Road

ITEM 127.4 **REINFORCED CONCRETE DECK EXCAVATION (FULL DEPTH)**
ITEM 127.41 **REINFORCED CONCRETE DECK EXCAVATION (PARTIAL DEPTH)**

To be used to excavate concrete to install proposed bridge deck bleeders (contingency) and for full/partial depth bridge deck repairs at the following locations:

- Bridge W-21-038 – Interstate 91 NB and SB over Prospect Avenue
- Bridge W-21-040 – Interstate 91 / Interstate 90 Connector over Prospect Avenue
- Bridge W-21-042 – Interstate 91 / Interstate 90 Connector over Interstate 90 Ramp
- Bridge H-21-047 – Interstate 91 NB and SB over Lower Westfield Road
- Bridge H-21-048 – Interstate 91 NB and SB over Westfield Road
- Bridge H-21-049 – Interstate 91 NB and SB over US Route 202 Cherry Street
- Bridge H-21-051 – Interstate 91 NB and SB over Scott Tower Road

ITEM 129.6 **BRIDGE PAVEMENT EXCAVATION**

To excavate the HMA wearing surface and waterproofing membrane at the following bridges:

- Bridge W-21-038 – Interstate 91 NB and SB over Prospect Avenue
- Bridge W-21-040 – Interstate 91 / Interstate 90 Connector over Prospect Avenue
- Bridge W-21-042 – Interstate 91 / Interstate 90 Connector over Interstate 90 Ramp
- Bridge H-21-047 – Interstate 91 NB and SB over Lower Westfield Road
- Bridge H-21-048 – Interstate 91 NB and SB over Westfield Road
- Bridge H-21-049 – Interstate 91 NB and SB over US Route 202 Cherry Street
- Bridge H-21-051 – Interstate 91 NB and SB over Scott Tower Road

ITEM 151. **GRAVEL BORROW**

Contingency for gravel borrow at full depth reconstruction for proposed saw and seal bridge joints where the roadway subbase is failing as required by the Engineer (see “Saw and Seal Joint with Full Depth Reconstruction” detail).

ITEM 220. **DRAINAGE STRUCTURE ADJUSTED**
ITEM 220.01 **2 FT X 4 FT DROP INLET ADJUSTED**
ITEM 220.02 **2 FT X 4 FT DROP INLET TOP REBUILT**
ITEM 220.2 **DRAINAGE STRUCTURE REBUILT**

Adjust or rebuild all drainage structures within ultrathin bonded overlay and paving limits. Drainage structures in the fog sealed shoulder and off road structures shall not be adjusted or rebuilt.

ITEM 221.1 **FRAME AND COVER - SECURED**
ITEM 222. **FRAME AND GRATE – MASSDOT BAR TYPE**

To replace any damaged frame and grates/covers and existing frame and grates/covers that do not meet the hook lock or bolt-down type requirements on the roadway surface. Contingency.

ITEM 223.2 **FRAME AND GRATE (OR COVER) REMOVED AND DISCARDED**

To remove and discard all frames and grates (or covers) being replaced on project. Contingency.

ITEM 402.14 **PAVEMENT MILLING MULCH FOR SHOULDERS**

For proposed milling mulch to fill low, eroded areas along the edge of the road without curb or berm (see “Typical Sections” in plans) as determined by the Engineer.

ITEM 415.2 **PAVEMENT FINE MILLING**

To fine mill existing pavement at varying depths at locations adjacent to pavement joints, bridges, shoulder transitions, the interchange ramps on I-91, and the I-91 / I-90 connector within the project limits. Ramps to be milled to existing paving joints on ramps or as shown on the Sign and Pavement Marking Sketches.

ITEM 415.4 **BRIDGE PAVEMENT MILLING**

To mill 1.5" HMA surface course on bridge H-21-046. To mill concrete surface patches to bridge deck grade on bridges W-21-038, and H-21-051.

ITEM 415.5 **PAVEMENT MILLING FOR INLAY**

To shim mill the outside edge of travel lanes at a depth between 0” – 3/4” to match into the existing shoulder, the scored cement concrete at on-ramps, or the edge of pavement at interchange tapers.

ITEM 450.231 **SUPERPAVE SURFACE COURSE – 12.5 POLYMER (SSC-12.5-P)**

For paving the full width of all interchange ramps on I-91 and the I-91 / I-90 connector within the project limits.

ITEM 451. **HMA FOR PATCHING**

To patch distressed and unsound areas of HMA in the milled pavement as required by the Engineer. To patch areas where slotted pavement markers are removed on existing surface course prior to UTBO paving.

ITEM 453. **HMA JOINT ADHESIVE**

To be used on all vertical face longitudinal and transverse joints in proposed HMA surface course on interchange ramps, I-90 / I-90 connector and bridges.

ITEM 457.1 **SUPERPAVE WATERPROOFING SURFACE COURSE – 9.5 (SSC-W-9.5)**

Use to pave the HMA surface course on bridge H-21-046 (including 10 feet beyond bridge abutment joints as shown in the Construction Details).

ITEM 457.2 **SUPERPAVE WATERPROOFING SURFACE COURSE – 12.5 (SSC-W-12.5)**

Use to pave the HMA surface course on the following bridges (including 10 feet beyond bridge abutment joints as shown in the Construction Details).

- Bridge W-21-038 – Interstate 91 NB and SB over Prospect Avenue
- Bridge W-21-040 – Interstate 91 / Interstate 90 Connector over Prospect Avenue
- Bridge W-21-042 – Interstate 91 / Interstate 90 Connector over Interstate 90 Ramp
- Bridge H-21-047 – Interstate 91 NB and SB over Lower Westfield Road
- Bridge H-21-048 – Interstate 91 NB and SB over Westfield Road
- Bridge H-21-049 – Interstate 91 NB and SB over Cherry Street
- Bridge H-21-051 – Interstate 91 NB and SB over Scott Tower Road

ITEM 477. **MILLED RUMBLE STRIP (TYPE A)**

To install rumble strips in shoulder transition areas and in shoulders equal to or greater than 2' wide where there are no existing rumble strips. Rumble strip in fog sealed shoulders shall be retained.

ITEM 480.2 **PAVEMENT CRACK SEALING – HIGH PERFORMANCE CRACK SEALER**

To crack seal the mainline after shim milling and prior to UTBO, shoulders prior to fog seal, transition ramps, I-91 ramps, and I-91 / I-90 connector after fine milling.

ITEM 482.2 **HOT POURED JOINT SEALER**

For proposed bridge joints at bridge W-21-032.

ITEM 482.31 **SAWING AND SEALING JOINTS IN ASPHALT PAVEMENT AT BRIDGES**

For proposed saw & seal joints at the following locations:

Bridge	SB/NB	Location
W-21-038	NB	North and South Abutment
	SB	North and South Abutment
H-21-046	NB	North and South Abutment
	SB	North and South Abutment
H-21-047	NB	North and South Abutment
	SB	North and South Abutment
H-21-048	NB	North Abutment, Pier 3, Pier 4, and South Abutment
	SB	North Abutment, Pier 1, Pier 2, and South Abutment
H-21-049	NB	North Abutment, Pier 2, and South Abutment
	SB	North Abutment, Pier 1, and South Abutment
H-21-051	NB	North Abutment, Pier 3, Pier 4, and South Abutment
	SB	North Abutment, Pier 1, Pier 2, and South Abutment

ITEM 486.2 **ULTRATHIN BONDED OVERLAY – TYPE 2 – POLYMER**

To overlay the mainline pavement on Interstate 91 with 3/4" ultrathin bonded overlay per the Typical Sections and Construction Details.

ITEM 492.103 **FOG SEAL POLYMER**

To fog seal the shoulders in areas outside of ultrathin bonded overlay per the Typical Sections and Construction Details. Application rate is 0.1 gallon per square yard.

ITEM 510. **GRANITE EDGING TYPE SA**

To replace edging that is damaged. Contingency.

ITEM 514. **GRANITE CURB INLET - STRAIGHT**

To replace damaged curb inlets. Contingency.

ITEM 583. **EDGING REMOVED AND RESET**

To remove and reset edging that is less than 2" reveal.

ITEM 595. **CURB INLET REMOVED AND DISCARDED**

To remove damaged curb inlets. Contingency.

ITEM 597. **EDGING REMOVED AND DISCARDED**

To remove edging that is damaged. Contingency quantity.

ITEM 620.13 **GUARDRAIL, TL-3, (SINGLE FACED)**

To be installed with Items 628.21 and 628.25 in accordance with MassDOT Construction Details Standard Drawing 628.21.1 Note 2.

ITEM 627.1 **TRAILING ANCHORAGE**

To replace terminal ends on trailing ends of guardrail at the following locations:

MM 13.65 NB MM 14.27 NB MM 14.59 NB MM 10.88 SB

ITEM 627.83 **GUARDRAIL TANGENT END TREATMENT, TL-3**

To replace outdated guardrail end treatments at the following locations:

MM 13.22 NB	MM 14.70 NB
MM 11.32 SB	MM 11.88 SB
Interchange 12 SB On-Ramp	Interchange 14 NB Off-Ramp
Interchange 14 NB On-Ramp	Interchange 14 NB On-Ramp
Interchange 14 SB On-Ramp	Interchange 14 SB On-Ramp
Interchange 15A NB Off-Ramp	
I-91/I-90 Connector off ramp 400' before I-90 on ramp	
I-91/I-90 Connector off ramp after I-90 on ramp	
I-91/I-90 Connector off ramp on Route 5 SB Ramp	
I-91/I-90 Connector off ramp on Route 5 NB Ramp	
I-91/I-90 Connector on ramp on Route 5 NB Ramp	
I-91/I-90 Connector on ramp on Route 5 SB Ramp LT	
I-91/I-90 Connector on ramp on Route 5 SB Ramp RT	

<u>ITEM 632.</u>	<u>GUARDRAIL POST - STEEL</u>
<u>ITEM 633.</u>	<u>GUARDRAIL OFFSET BLOCK – W BEAM</u>
<u>ITEM 633.1</u>	<u>GUARDRAIL OFFSET BLOCK – THRIE BEAM</u>
<u>ITEM 634.</u>	<u>W BEAM GUARD PANEL</u>
<u>ITEM 634.1</u>	<u>THRIE BEAM GUARD PANEL</u>

To replace damaged or missing guardrail posts, offset blocks, and panels in kind at locations required by the Engineer.

ITEM 751. **LOAM FOR ROADSIDES**

To be used as directed by the Engineer. Contingency quantity.

ITEM 765. **SEEDING**

Contingency to be used as required by the Engineer.

ITEM 767.121 **SEDIMENT CONTROL BARRIER**

Contingency to be placed at locations determined by the Engineer.

ITEM 769. **PAVEMENT MILLING MULCH UNDER GUARD RAIL**

Install pavement milling mulch under proposed guardrail, guardrail end treatments, trailing anchorages, and transitions.

ITEM 769.1 **PAVEMENT MILLING MULCH FOR MAINTENANCE AREA**

To place around existing ITS equipment at the following locations:

91SB-TTS-10.7	MM 10.7 SB
91ME-CCTV-11.6	MM 11.6 Median
91SB-CCTV-12.4	MM 12.4 SB
91SB-VMSG-12.8	MM 12.8 SB
91NB-TTS-13.2	MM 13.2 NB
91NB-VMSG-13.3	MM 13.3 NB
91SB-CCTV-14.2	MM 14.2 SB

ITEM 832. **WARNING-REGULATORY AND ROUTE MARKER – ALUMINUM PANEL (TYPE A)**

For proposed sign per Construction Details and contingency to replace any faded, damaged, or missing signs within the project limits at locations required by the Engineer and the District 2 Traffic Engineer.

ITEM 833.5 **DEMOUNTABLE REFLECTORIZED DELINEATOR – GUARD RAIL**

Use to replace damaged or missing demountable reflectORIZED delineators in existing guardrail.

ITEM 833.7 **DELINEATION FOR GUARD RAIL TERMINI**

To replace missing or damaged delineation for guardrail termini at guardrail ends.

ITEM 834. **DEMOUNTABLE REFLECTORIZED REFERENCE LOCATION SIGN**

Use to replace missing, damaged, or faded reference location signs on I-91 within the project limits.

ITEM 836.5 **DEMOUNTABLE REFLECTORIZED STATION MARKER**

To replace missing or damaged station markers along I-91 NB/SB within limits of project. Install markers every 500 feet. Refer to Detail 836.0.1 in the MassDOT Standard Construction Details.

ITEM 838.1 **PERMANENT ITS CABINET FACE LABEL**

To be used where face labels are required at ITS cabinets at the following locations:

99ME-CCTV-11.6	MM 11.6 Median
91SB-CCTV-12.4	MM 12.4 SB
91NB-VMSG-13.3	MM 13.3 NB
91SB-CCTV-14.2	MM 14.2 SB

ITEM 838.2 **PERMANENT ITS POLE LABEL**

To be used where labels are required at ITS equipment poles at the following locations:

99ME-CCTV-11.6	MM 11.6 Median
91SB-CCTV-12.4	MM 12.4 SB
91SB-CCTV-14.2	MM 14.2 SB

ITEM 838.3 **PERMANENT ITS DEVICE CABINET TOP LABEL**

To be used where labels are required at ITS device cabinets at the following locations:

99ME-CCTV-11.6	MM 11.6 Median
91SB-CCTV-12.4	MM 12.4 SB
91SB-CCTV-14.2	MM 14.2 SB

ITEM 838.5 **PERMANENT ITS ELECTRICAL LABEL**

To be used where electrical warning labels are required on every ITS cabinet door at the following locations:

91ME-CCTV-11.6	MM 11.6 Median
91SB-CCTV-12.4	MM 12.4 SB
91NB-VMSG-13.3	MM 13.3 NB
91SB-CCTV-14.2	MM 14.2 SB

ITEM 847.1 **SIGN SUP (N/GUIDE)+RTE MKR W/1 BRKWAY POST ASSEMBLY**
- STEEL**ITEM 848.1** **SIGN SUP (N/GUIDE)+RTE MKR W/2 BRKWAY POST**
ASSEMBLIES - STEEL

Use to replace damaged or missing sign supports within the project limits in conjunction with Item 832. at locations determined by the Engineer and the District 2 Traffic Engineer. Contingency.

ITEM 854.016 **TEMPORARY PAVING MARKINGS – 6 INCH (PAINTED)**

To reproduce existing pavement marking lines on milled surfaces on ramps until the final surface course is paved.

ITEM 854.036 **TEMPORARY PAVING MARKINGS – 6 INCH (TAPE)**

For installation on surface course prior to final pavement marking installation. Install a 4 foot length of tape every 40 feet at all existing travel lane broken white lane lines. For temporary markings between travel lanes on mainline after existing markings have been removed or milled off prior to UTBO placement.

ITEM 854.1 **PAVEMENT MARKING REMOVAL**

To remove pavement markings in areas where UTBO will be placed on top of an unmilled surface.

ITEM 862.406 **6 INCH RECESSED WHITE LINE (MC, UFD, WR)**
ITEM 862.412 **12 INCH RECESSED WHITE LINE (MC, UFD, WR)**
ITEM 862.424 **24 INCH RECESSED WHITE LINE (MC, UFD, WR)**
ITEM 863.406 **6 INCH RECESSED YELLOW LINE (MC, UFD, WR)**

Use to reproduce all pavement marking lines, stop lines, lane lines, and crosswalks on the surface pavement course within the project limits in accordance with the Construction Standard Details and per Sign and Pavement Markings Sketches except where Item 866.606 to be used.

<u>ITEM 864.11</u>	<u>WORD LEGENDS (PF)</u>
<u>ITEM 864.12</u>	<u>SYMBOLS (PF)</u>
<u>ITEM 864.13</u>	<u>ARROWS (PF)</u>
<u>ITEM 864.14</u>	<u>OVERSIZED WORD LEGENDS, SYMBOLS, AND ARROWS (PF)</u>

For pavement arrows and legends on the proposed surface course within the project limits at the following locations:

- Per Sign and Pavement Markings Sketches
- Per “Pavement Markings for Lane Reduction” construction standard detail for I-91 NB lane reduction

Wrong way arrow to be installed at the following locations:

- Per Sign and Pavement Markings Sketches
- I-91 NB Interchange 15A off ramp
 - 10’ from limits of paving
 - At “Wrong Way” signs

ITEM 866.606 **6 INCH RECESSED WHITE LINE (PF, WR)**

To be used for lane line skips, acceleration and deceleration skips, and lane drop markings on the I-91 mainline.

ITEM 874.2 **TRAFFIC SIGN REMOVED AND RESET**

To remove and reset traffic signs. Contingency.

ITEM 874.41 **TRAFFIC SIGN REMOVED AND DISCARDED**

To remove and discard traffic signs. Contingency.

ITEM 909.3 **RAPID HARDENING CONCRETE FOR REPAIRS**

To replace concrete excavated under Items 127.1, 127.4, and 127.41 within the work limits where required.

ITEM 910.1 **STEEL REINFORCEMENT FOR STRUCTURES – EPOXY COATED**

For replacement of reinforcement deemed unsuitable during joint installation and full/partial depth deck repairs as directed by the Engineer.

ITEM 912. **DRILLING AND GROUTING DOWELS**

To drill and grout reinforcement into sound concrete in repair areas (excluding full and partial depth deck repairs) as required to replace missing or deteriorated existing steel reinforcement at the following bridges:

- Bridge W-21-038 – Interstate 91 NB and SB over Prospect Avenue
- Bridge W-21-040 – Interstate 91 / Interstate 90 Connector over Prospect Avenue
- Bridge W-21-042 – Interstate 91 / Interstate 90 Connector over Interstate 90 Ramp
- Bridge H-21-047 – Interstate 91 NB and SB over Lower Westfield Road
- Bridge H-21-048 – Interstate 91 NB and SB over Westfield Road
- Bridge H-21-049 – Interstate 91 NB and SB over Cherry Street
- Bridge H-21-051 – Interstate 91 NB and SB over Scott Tower Road

ITEM 966. **MEMBRANE WATERPROOFING FOR BRIDGE DECK REPAIRS**

To be used for repairs at saw and seal joint replacement per the plan.

ITEM 973.2 **PRE-COMPRESSED JOINT SEAL**

Use to construct pre-compressed joint seal at the following locations:

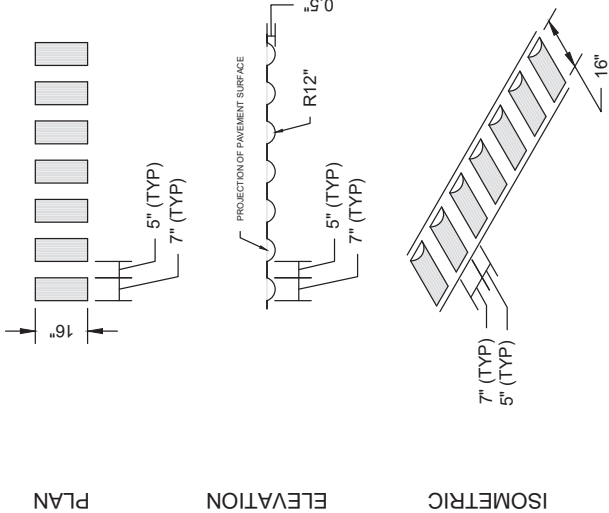
Bridge	Description	Direction	Abutment
W-21-038	I-91 over Prospect Ave.	NB	North
		SB	North
H-21-047	I-91 over Lower Westfield Rd.	NB	South
		SB	South
H-21-048	I-91 over Westfield Rd.	SB	Pier 1
		SB	Pier 2
		SB	North
		NB	Pier 3
		NB	Pier 4
		NB	North
		SB	South
H-21-049	I-91 over Cherry St.	SB	Pier 1
		SB	North
		NB	South
		NB	Pier 2
		NB	North
		SB	Pier 1
		SB	Pier 2
H-21-051	I-91 over Scott Tower Road	NB	Pier 3
		NB	Pier 4
		Off	West Abutment
		Off	Pier
W-21-042	I-91 / I-90 Connector over I-90 Ramp	On	West Abutment
	I-91 / I-90 Connector over I-90 Ramp	On	Pier
	I-91 / I-90 Connector over I-90 Ramp	Off	West Abutment
	I-91 / I-90 Connector over I-90 Ramp	On	Pier
W-21-040	I-91 / I-90 Connector over Prospect Ave.	Off	West Abutment
	I-91 / I-90 Connector over Prospect Ave.	On	West Abutment

ITEM 994.1 **TEMPORARY PROTECTIVE SHIELDING**

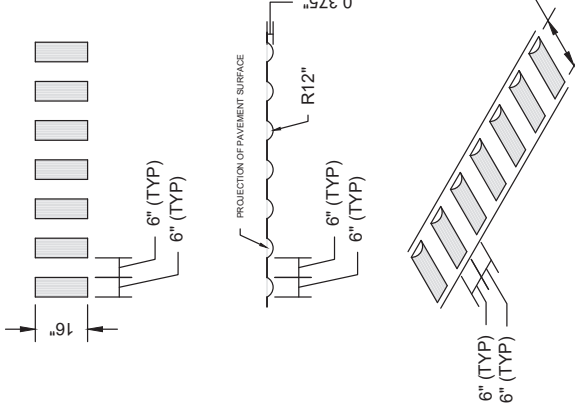
For temporary protective shielding under each bridge during full and partial depth repairs as required by the Engineer.

RUMBLE STRIP DETAILS

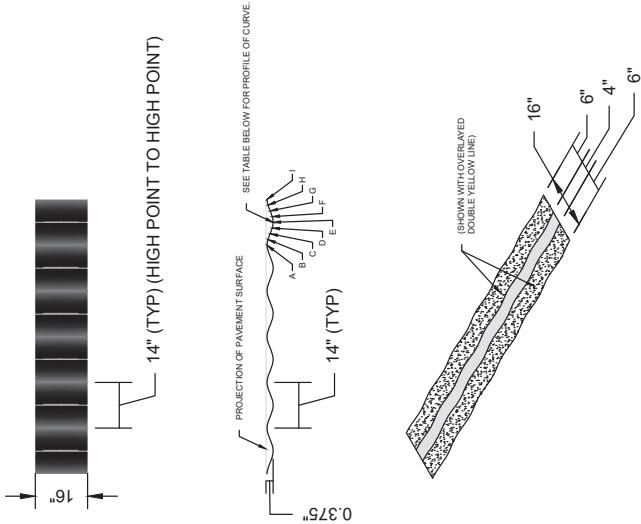
TYPE A
CYLINDER RUMBLE STRIP
(BICYCLE TRAVEL PROHIBITED)



TYPE B
CYLINDER RUMBLE STRIP
(BICYCLE TRAVEL PERMITTED)



TYPE C
CONTINUOUS SINUSOIDAL
RUMBLE STRIP



- NOTES:
- 1. NOT TO SCALE. SOME LINE WORK EXAGGERATED FOR CLARITY.
 - 2. SEE PLANS FOR LOCATION(S) AND START AND END STATIONS FOR ALL RUMBLE STRIP INSTALLATIONS.
 - 3. HIGH POINT OF SINUSOIDAL RUMBLE STRIP LOCATED $\frac{1}{16}$ " BELOW PAVEMENT SURFACE.

DESIGN OF CURVE PROFILE FOR SINUSOIDAL RUMBLE STRIP									
POINT	A	B	C	D	E	F	G	H	I
DEPTH FROM PAVEMENT SURFACE (IN.)	$\frac{1}{16}$	$\frac{1}{8}$	$\frac{7}{32}$	$\frac{11}{32}$	$\frac{3}{8}$	$\frac{11}{32}$	$\frac{7}{32}$	$\frac{1}{8}$	$\frac{1}{16}$
DISTANCE FROM HIGH POINT "A" (IN.)	0	1.75	3.5	5.25	7	8.75	10.5	12.25	14

RUMBLE STRIP DETAILS

D-TE OF ISSUE
2020

DR- ING NUMBER
XXX.X.X

DOCUMENT A00820

**Massachusetts Department of Transportation
Conditions of Custody****REQUEST FOR RELEASE OF MASSDOT AUTOCAD FILES FORM**

(Only to be used following award of contract)

City/Town: HOLYOKE-WEST SPRINGFIELDProject File Number: 613314Contract Number: 136483Project Description: Interstate Pavement Preservation and Related Work on I-91

All AutoCAD files are provided solely as a courtesy to facilitate public access to information. MassDOT attempts to provide current and accurate information but cannot guarantee so. MassDOT provides such documents, files or other data "as is" without any warranty of any kind, either expressed or implied, including but not limited to, accuracy, reliability, omissions, completeness and currentness. The Commonwealth of Massachusetts and its Consultants shall not be liable for any claim for damages, including lost profits or other consequential, exemplary, incidental, indirect or special damages, relating in any way to the documents, files or other data accessible from this file, including, but not limited to, claims arising out of or related to electronic access or transmission of data or viruses. Because data stored on electronic media can deteriorate undetected or be modified without our knowledge, MassDOT cannot be held liable for its completeness or correctness. MassDOT makes no representation as to the compatibility of these files beyond the version of the stated CAD software.

By signing this form, I agree that it shall be my responsibility to reconcile this electronic data with the conformed contract documents, and that only the conformed contract documents shall be regarded as legal documents for this Project. I understand that this authorization does not give me the right to distribute the files. I agree to the terms above and wish to receive the AutoCAD files.

This signed form shall be emailed to the Highway Design Engineer at the MassDOT -Highway Division at the following email address:

DOTHighwayDesign@dot.state.ma.us

Attn: AutoCAD Files

Name of person requesting AutoCAD files: _____

Affiliation/Company: _____

Address: _____

Telephone number: _____

Email address: _____

Signature/Date: _____

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DOCUMENT A00850

MASSACHUSETTS WETLANDS PROTECTION ACT

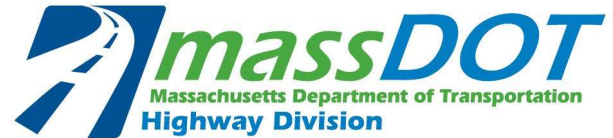
Request for Determination

Holyoke – Request for Determination	1 through 22
West Springfield – Request for Determination	23 through 38

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Maura Healey, Governor
Kimberley Driscoll, Lieutenant Governor
Phillip Eng, Interim MassDOT Secretary
Jonathan L. Gulliver, Undersecretary and Highway Administrator



Return Receipt Requested

March 30th, 2026

Holyoke Conservation Commission
20 Korean Veterans Plaza, 4th Floor
Holyoke, MA 01040

Re: Request for Determination of
Applicability
Interstate Pavement Preservation and
Related Work on I-91

Dear Commission Members:

Please find enclosed a Request for Determination of Applicability for Interstate Pavement Preservation and Related Work in the City of Holyoke. This project is being filed under the Massachusetts Wetlands Protection Act, M.G.L. Chapter 131 § 40, and its regulations, 310 CMR 10.00. No findings under City Bylaws, including any Wetland Bylaws, are requested.

The MassDOT Highway Division is an agency of State Government and as such is exempt from local Conservation Commission by-laws and fees. For MassDOT to provide advertising payment, the newspaper must directly bill the Massachusetts Department of Transportation, at the address shown below.

As indicated under 310 CMR: 10:05(3)(b)1, a Determination of Applicability shall be issued within 21 days after the date of receipt of an RDA. If within the 21 days you have questions or would like to schedule a site visit, please contact Maxfield Phaneuf, Assistant District Environmental Engineer, at Maxfield.W.Pthaneuf@dot.state.ma.us.

Sincerely,

Patricia A. Leavenworth, P.E.
District Highway Director

MP

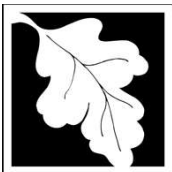
MP/

C- PKS (w/encl.)

DEP-[WERO] (w/encl.)

Encl.

811 North King Street, Northampton, MA 01060
Tel: (857) 368-2000, Fax: (857) 368-0200
mass.gov/massdot



Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability

Holyoke
Municipality

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

A. General Information

Important:

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1. Applicant:		
Patricia	Leavenworth	
First Name	Last Name	
MassDOT - District 2, 811 N. King Street		
Address		
Northampton	MA	01060
City/Town	State	Zip Code
Phone Number		
Email Address		
2. Property Owner (if different from Applicant):		
First Name		
Last Name		
Address		
City/Town		
State		
Zip Code		
Phone Number		
Email Address (if known)		
3. Representative (if any)		
Maxfield	Phaneuf	
First Name	Last Name	
MassDOT District 2		
Company Name		
811 N. King Street		
Address		
Northampton	MA	01060
City/Town	State	Zip Code
4135600535	maxfield.w.phaneuf@dot.state.ma.us	
Phone Number	Email Address (if known)	

B. Project Description

1. a. Project Location (use maps and plans to identify the location of the area subject to this request):	
I-91 from MM 11.6 to 14.9	Holyoke
Street Address	City/Town
42.18547	-72.63971
Latitude (Decimal Degrees Format with 5 digits after decimal e.g. XX.XXXXX)	Longitude (Decimal Degrees Format with 5 digits after decimal e.g. -XX.XXXXX)
Assessors' Map Number	
Assessors' Lot/Parcel Number	
b. Area Description (use additional paper, if necessary):	
See Attachment A	
c. Plan and/or Map Reference(s): (use additional paper if necessary)	
613314 - Holyoke Aerial (1 & 2)	3/26/26
Title	Date
613314 - Holyoke DEP Wetlands (1&2)	3/26/26
Title	Date

[How to find Latitude and Longitude](#)

[and how to convert to decimal degrees](#)


Massachusetts Department of Environmental Protection

Bureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability
Holyoke

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Municipality

B. Project Description (cont.)

2. a. Activity/Work Description (use additional paper and/or provide plan(s) of Activity, if necessary):

See Attachment A

- b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).

See Attachment C

3. a. If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.

- ☐ Single family house on a lot recorded on or before 8/1/96
- ☐ Single family house on a lot recorded after 8/1/96
- ☐ Expansion of an existing structure on a lot recorded after 8/1/96
- ☐ Project, other than a single-family house or public project, where the applicant owned the lot before 8/7/96
- ☐ New agriculture or aquaculture project
- ☐ Public project where funds were appropriated prior to 8/7/96
- ☐ Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
- ☐ Residential subdivision; institutional, industrial, or commercial project
- ☐ Municipal project
- ☐ District, county, state, or federal government project
- ☐ Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.

- b. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification above (use additional paper and/or attach appropriate documents, if necessary.)


Massachusetts Department of Environmental Protection

Bureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability
Holyoke
Municipality

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

C. Determinations

1. I request the Holyoke make the following determination(s). Check any that apply:
Conservation Commission

- ☐ a. whether the **area** depicted on plan(s) and/or map(s) referenced above is an area subject to jurisdiction of the Wetlands Protection Act.
- ☐ b. whether the **boundaries** of resource area(s) depicted on plan(s) and/or map(s) referenced above are accurately delineated.
- ☒ c. whether the **Activities** depicted on plan(s) referenced above is subject to the Wetlands Protection Act and its regulations.
- ☐ d. whether the area and/or Activities depicted on plan(s) referenced above is subject to the jurisdiction of any **municipal wetlands' ordinance** or **bylaw** of:

Name of Municipality

- ☐ e. whether the following **scope of alternatives** is adequate for Activities in the Riverfront Area as depicted on referenced plan(s).
- _____

D. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Signatures:

I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.

Signature of Applicant

04/02/2026

Date

Signature of Representative (if any)

3/30/2026

Date



Maura Healey, Governor
Kimberley Driscoll, Lieutenant Governor
Phillip Eng, Interim MassDOT Secretary
Jonathan L. Gulliver, Undersecretary and Highway Administrator

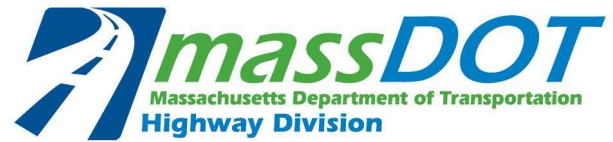


Table of Contents

Attachment A – Project Description

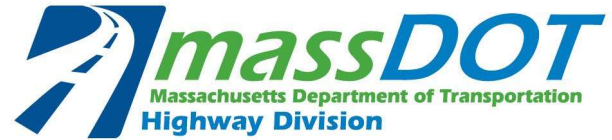
Attachment B – Maps

Attachment C – Wetland Protection Act Provisions for Exemption

Attachment D - Plans



Maura Healey, Governor
 Kimberley Driscoll, Lieutenant Governor
 Phillip Eng, Interim MassDOT Secretary
 Jonathan L. Gulliver, Undersecretary and Highway Administrator



Attachment A – Project Description

Locations/Area Description

The area of work within the city of Holyoke will be located on Interstate 91, from the West Springfield town line extending north to mile marker 14.9. The project also extends south in the City of West Springfield from the town line to mile marker 10.5. A separate RDA is being filed concurrently with the West Springfield conservation commission. No work will occur on Bridge H-21-058 (I-91 over exit 11 ramp), or on Bridge H-21-057 (I-91 over Whitney Avenue). Bridge work will occur on Bridge H-21-046 (I-91 over Railroad), Bridge H-21-047 (I-91 over Lower Westfield Road), Bridge H-21-048 (I-91 over Westfield Road), Bridge H-21-049 (I-91 over Cherry Street), and Bridge H-21-051 (I-91 over Scott Tower Road). Work will also be performed on assorted exit ramps as needed, including ramps associated with Exit 11, Exit 12, Exit 14, and the off-ramp to exit 15A Northbound. Jurisdictional areas present within the work area include Riverfront Area associated with Schoolhouse Brook, which is listed as a Cold Water Fishery, and Riverfront Area to Tannery Brook. Other resource areas present in the work area include Buffer Zone to Bordering Vegetated Wetlands, and work near Exit 11 will take place within Bordering Land Subject to Flooding. See attached maps for detailed view of relevant resource areas. All proposed work is within the State Highway Layout, and no rights to enter or occupy private property have been acquired for this project.

Activity/ Work Description

The work to be completed under this contract consists of paving an ultra-thin bonded overlay onto the I-91 mainline, pavement milling, bridge preservation, and preservation on interchange ramps and scenic areas in the municipality of Holyoke. The work also includes bridge deck repairs, bridge joint repairs/replacement, bridge resurfacing, clearing of roadway side slopes, removal of built-up material on shoulders to restore country drainage, adjusting and/or rebuilding drainage structures, repairing guardrail, and limited tree clearing/trimming. Tree clearing and trimming performed under this contract will be limited to within 20 feet of the existing edge of pavement. There will be no increase of impervious surface area, or changes in elevations or slopes as a part of this work. Erosion and sediment controls are included as a contingency and will be used when/if needed as work progresses.

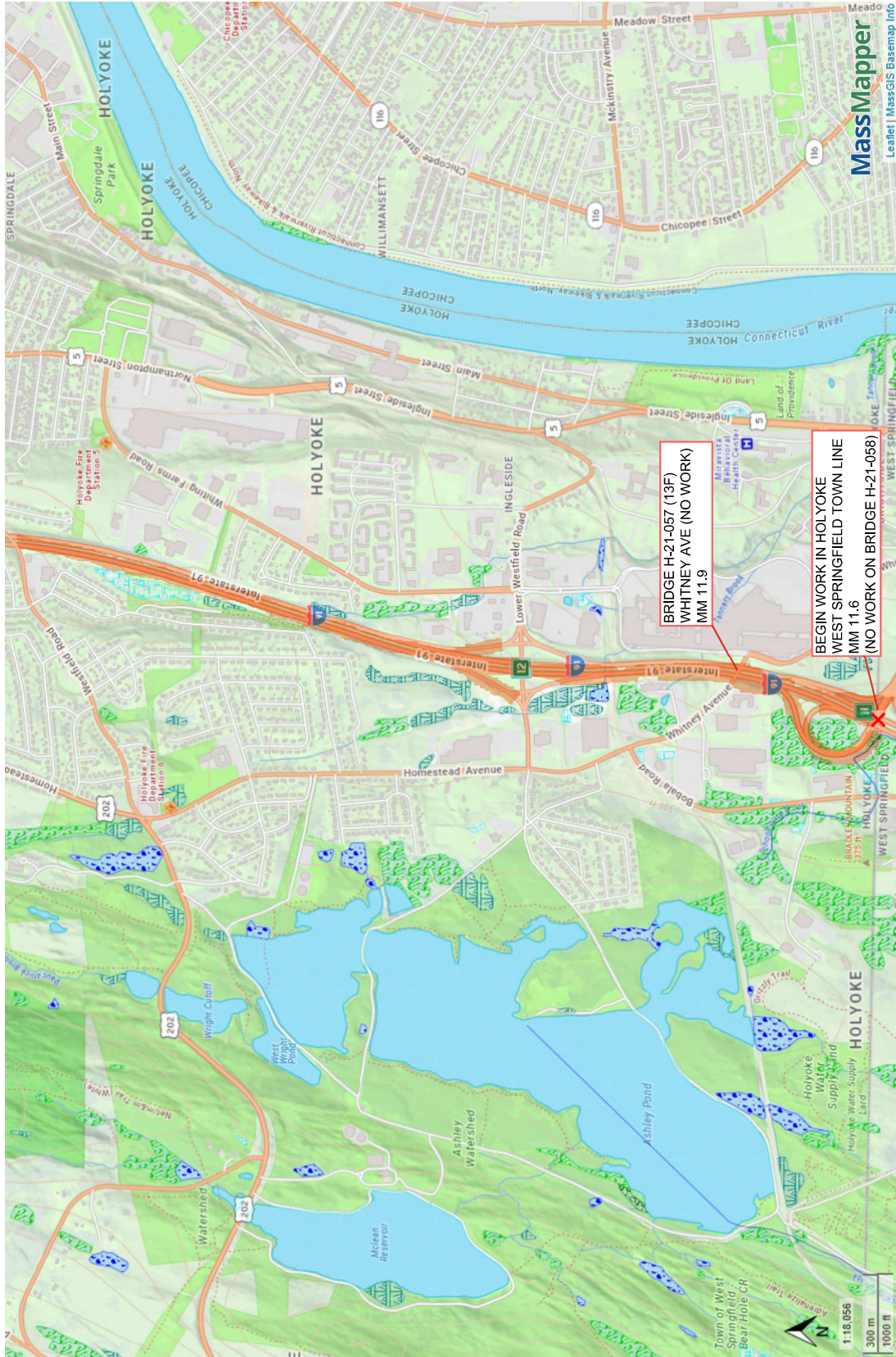
613314 - Holyoke Aerial



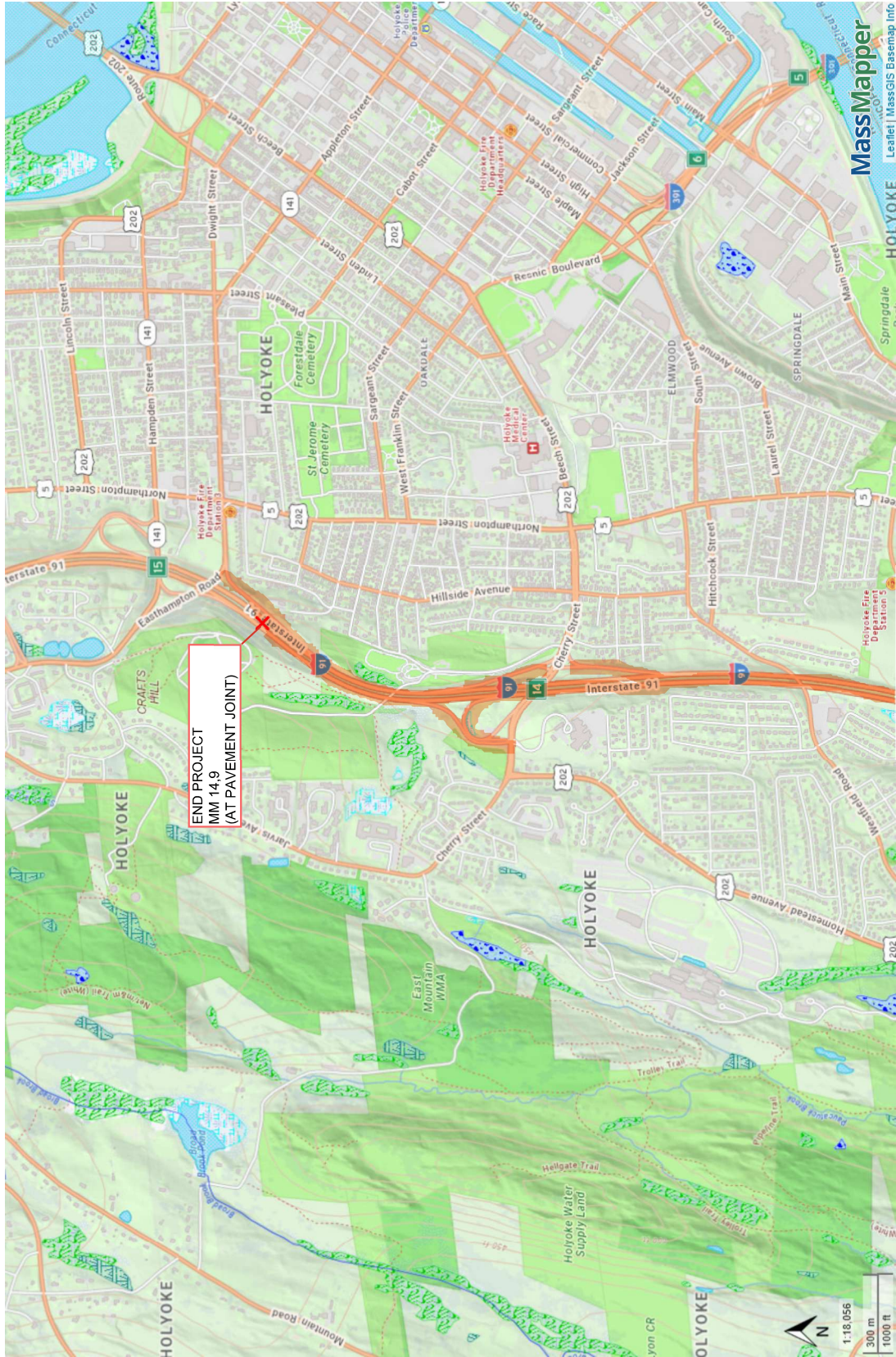
613314 - Holyoke Aerial 2



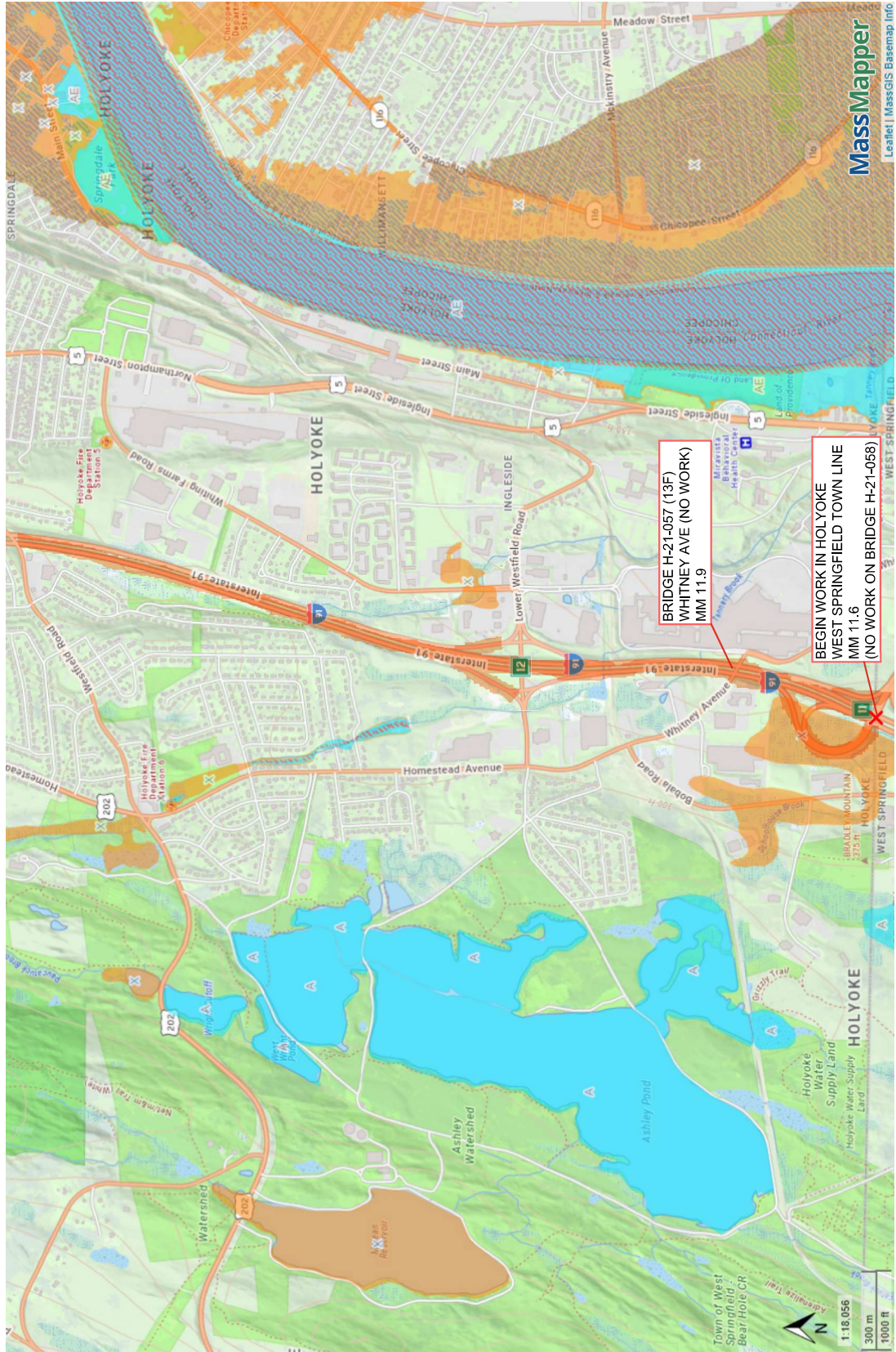
613314 - Holyoke DEP Wetlands



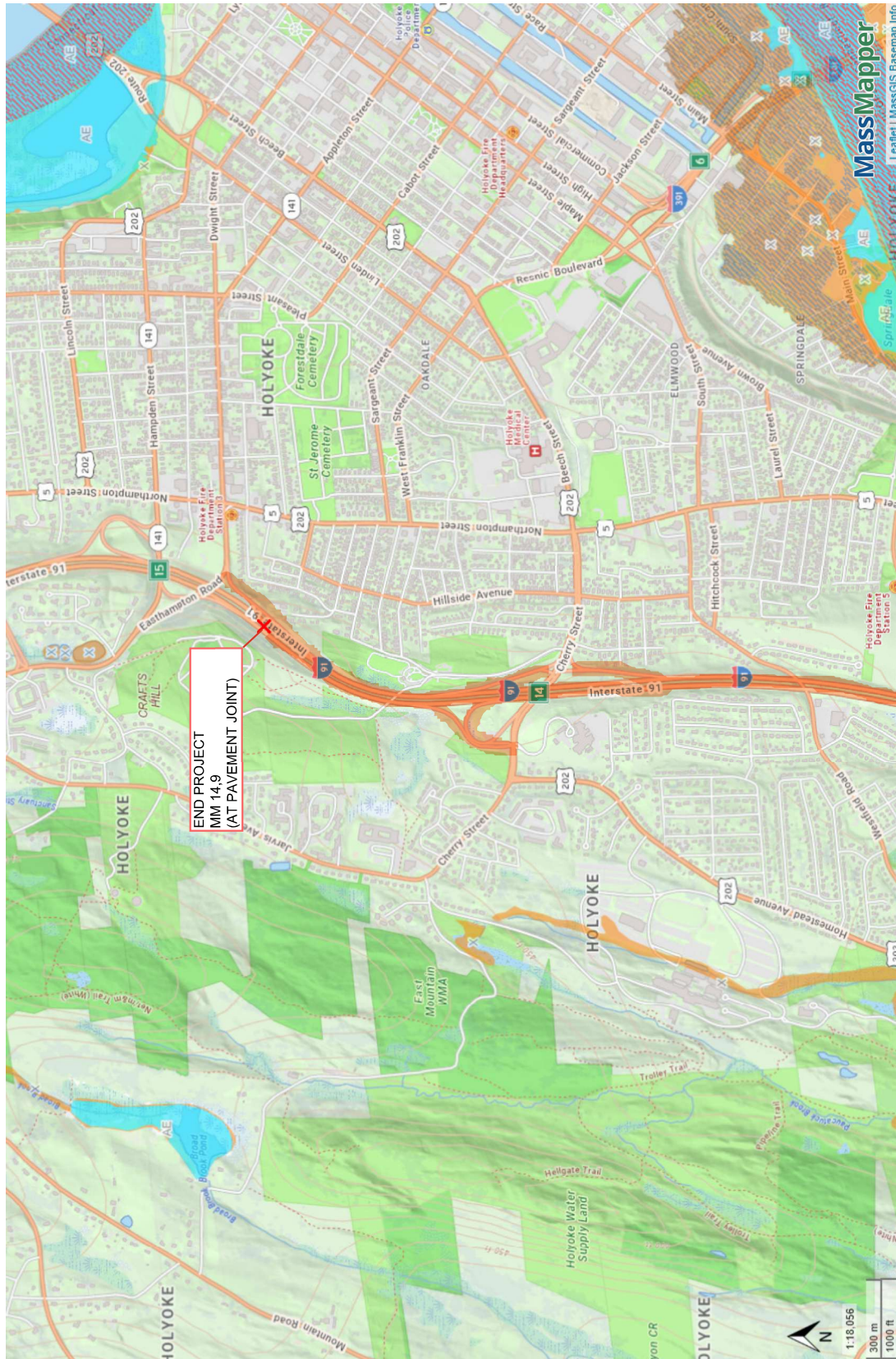
613314 - Holyoke DEP Wetlands 2



613314 - Holyoke FEMA

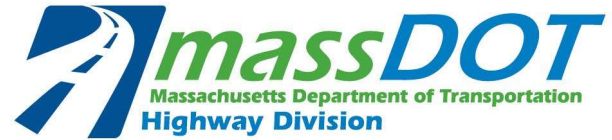


613314 - Holyoke FEMA 2





Maura Healey, Governor
 Kimberley Driscoll, Lieutenant Governor
 Phillip Eng, Interim MassDOT Secretary
 Jonathan L. Gulliver, Undersecretary and Highway Administrator



Attachment C– Wetlands Protection Act Provisions for Exemption

In accordance with the Massachusetts Transportation Bond Bill of 2014, the proposed work described herein that is associated with bridge repair is exempt from review under the Massachusetts Wetlands Protection Act (M.G.L. c.131 §40) and its implementing regulations (310 CMR 10.00).

310 CMR 10.02(2)(a) Activities Within the Areas Subject to Protection under M.G.L. c. 131, § 40.

Any activity proposed or undertaken within an area specified in 310 CMR 10.02(1), which will remove, fill, dredge or alter that area, is subject to Regulation under M.G.L. c. 131, § 40 and requires the filing of a Notice of Intent except:

1. Minor activities within the riverfront area meeting the requirement of 310 CMR 10.02(20(b)1. And 2.; and
2. Activities conducted to maintain, repair or replace, but not substantially change or enlarge an existing lawfully located structure or facility used in the service of the public and used to provide electric, gas, water, sewer, telephone, telegraph and other communication services, provided said work utilizes the best practical measures to avoid or minimize impacts to wetland resource areas outside the footprint of said structure or facility. A project proponent claiming that work to remove, fill, dredge or alter an area specified in 310 CMR 10.02(2) does not require the filing of a Notice of Intent has the burden of establishing that the work is not subject to Regulation under M.G.L. c. 131, § 40.

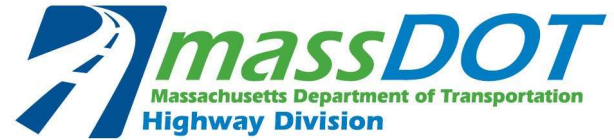
310 CMR 10.02(2)(b) Activities Within the Buffer Zone.

Any activity other than minor activities identified in 310 CMR 10.02(2)(b)2. proposed or undertaken within 100 feet of an area specified in 310 CMR 10.02(1)(a) (hereinafter called the Buffer Zone) which, in the judgment of the issuing authority, will alter an Area Subject to Protection under M.G.L. c. 131, § 40 is subject to regulation under M.G.L. c. 131, § 40 and requires the filing of a Notice of Intent. (See also 310 CMR 10.05(3)(a)2.). The areas subject to jurisdiction identified in 310 CMR 10.02(1)(b) through (f) do not have a buffer zone.

1. Minor activities, as described in 310 CMR 10.02(2)(b)2., within the buffer zone and outside any areas specified in 310 CMR 10.02(1)(a) through (e) are not otherwise subject to regulation under M.G.L. c. 131, § 40 provided that the work is performed: solely within the buffer zone, as prescribed in 310 CMR 10.02(2)(b)2.a. through q., in a manner so as to reduce the potential for any adverse impacts to the resource area during construction, and with post-



Maura Healey, Governor
 Kimberley Driscoll, Lieutenant Governor
 Phillip Eng, Interim MassDOT Secretary
 Jonathan L. Gulliver, Undersecretary and Highway Administrator



construction measures implemented to stabilize any disturbed areas. Factors to consider when measuring the potential for adverse impacts to resource areas include the extent of the work, the proximity to the resource area, the need for erosion controls, and the measures employed to prevent adverse impacts to resource areas during and following the work.

2. The following minor activities, provided that they comply with 310 CMR 10.02(2)(b) 1., are not otherwise subject to regulation under M.G.L. c. 131, § 40:

...

c. Vista pruning, provided the activity is located more than 50 feet from the mean annual high water line within a Riverfront Area or from Bordering Vegetated Wetland, whichever is farther. (Pruning of landscaped areas is not subject to jurisdiction under 310 CMR 10.00);

...

o. Installation, repair, replacement or removal of signs, signals, sign and signal posts and associated supports, braces, anchors, and foundations along existing paved roadways and their shoulders, provided that work is conducted as far from resource areas as practicable, and is located a minimum of ten feet from a resource area, any excess soil is removed from the project location, and any disturbed soils are stabilized as appropriate;

p. Pavement repair, resurfacing, and reclamation of existing roadways within the right-of-way configuration provided that the roadway and shoulders are not widened, no staging or stockpiling of materials, all disturbed road shoulders are stabilized within 72 hours of completion of the resurfacing or reclamation, and no work on the drainage system is performed, other than adjustments and/or repairs to respective structures within the roadway;

PAVEMENT NOTES:

MAINLINE PAVEMENT - TRAVEL LANES:

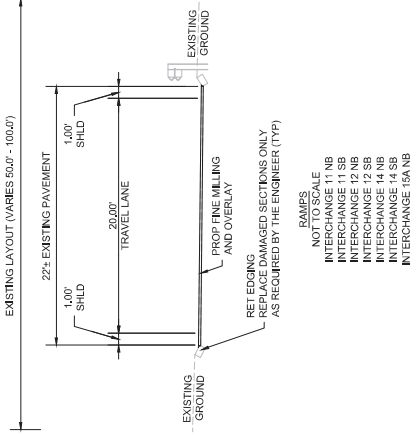
- SURFACE: 0.75 INCHES ULTRATHIN BONDED OVERLAY - TYPE 2 - POLYMER OVER
- SHIM MILLING: 0.00 TO 0.75 INCHES PAVEMENT MILLING FOR INLAY WITHIN 7 FEET OF EDGE OF OUTSIDE LANES OVER
- CRACK SEALING: PAVEMENT CRACK SEALING - HIGH PERFORMANCE CRACK SEALER
- MAINLINE PAVEMENT AT TRANSITIONS AT BRIDGES, PROJECT LIMITS, AND TAPERS AT ENTRANCE AND EXIT RAMP: 0.75 INCHES ULTRATHIN BONDED OVERLAY - TYPE 2 - POLYMER OVER
- SURFACE: 0.00 TO 0.75 INCHES PAVEMENT FINE MILLING OVER
- CRACK SEALING: PAVEMENT CRACK SEALING - HIGH PERFORMANCE CRACK SEALER
- MAINLINE PAVEMENT - SHOULDERS GREATER THAN 4 FEET: 0.1 GAUSY FOG SEAL POLYMER OVER
- CRACK SEALING: PAVEMENT CRACK SEALING - HIGH PERFORMANCE CRACK SEALER
- INTERCHANGE RAMPS:
- SURFACE: 2.00 INCHES SUPERPAVE SURFACE COURSE - 12.5 POLYMER (SSC-12.5P) OVER
- FINE MILLING: 2.00 INCHES PAVEMENT FINE MILLING

BRIDGE PAVEMENT EXCAVATION AND PAVEMENT OVERLAY (BRIDGES W-21-038, H-21-046, 047, 048, 049, & 051)

FOR BRIDGE DECK:

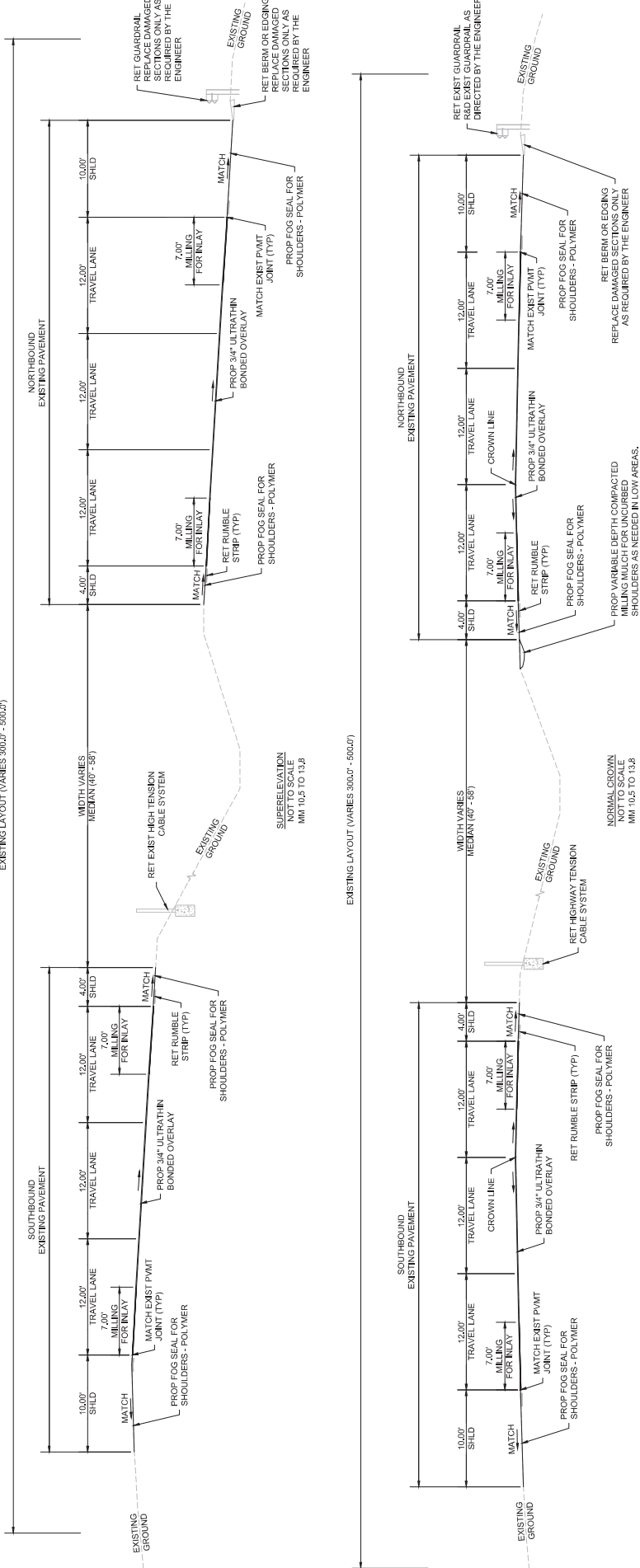
- SURFACE: 2.50 INCHES SUPERPAVE WATERPROOFING SURFACE COURSE - 12.5 (SSC - W - 12.5) OVER
- BRIDGE PAVEMENT EXCAVATION: ALL HMA (APPROXIMATELY 250 INCHES) AND ALL EXISTING BRIDGE MEMBRANE REMOVAL (AT BRIDGE DECK) OVER
- ASPHALT EMULSION FOR TACK COAT SHALL BE APPLIED AT 0.08 TO 0.08 GAUSY OVER ALL BRIDGE DECKS.
- FOR PAVEMENT TRANSITION AREAS:
- SURFACE: 2.50 INCHES SUPERPAVE WATERPROOFING SURFACE COURSE - 12.5 (SSC - W - 12.5) OVER
- FINE MILLING: 2.50 INCHES FINE MILLING (AT PAVEMENT TRANSITION AREAS)
- ASPHALT EMULSION FOR TACK COAT SHALL BE APPLIED AT 0.07 TO 0.08 GAUSY OVER FINE MILLED SURFACES.
- NOTE: BRIDGE WATERPROOFING MEMBRANE SHALL NOT BE INSTALLED ON BRIDGES.

HOLYOKE-WEST SPRINGFIELD INTERSTATE 91			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	3	19
PROJECT FILE NO. 033114		TYPICAL SECTIONS	



NOT TO SCALE
INTERCHANGE 11 NB
INTERCHANGE 12 SB
INTERCHANGE 13 NB
INTERCHANGE 14 SB
INTERCHANGE 14 NB
INTERCHANGE 14 SB
INTERCHANGE 15A NB

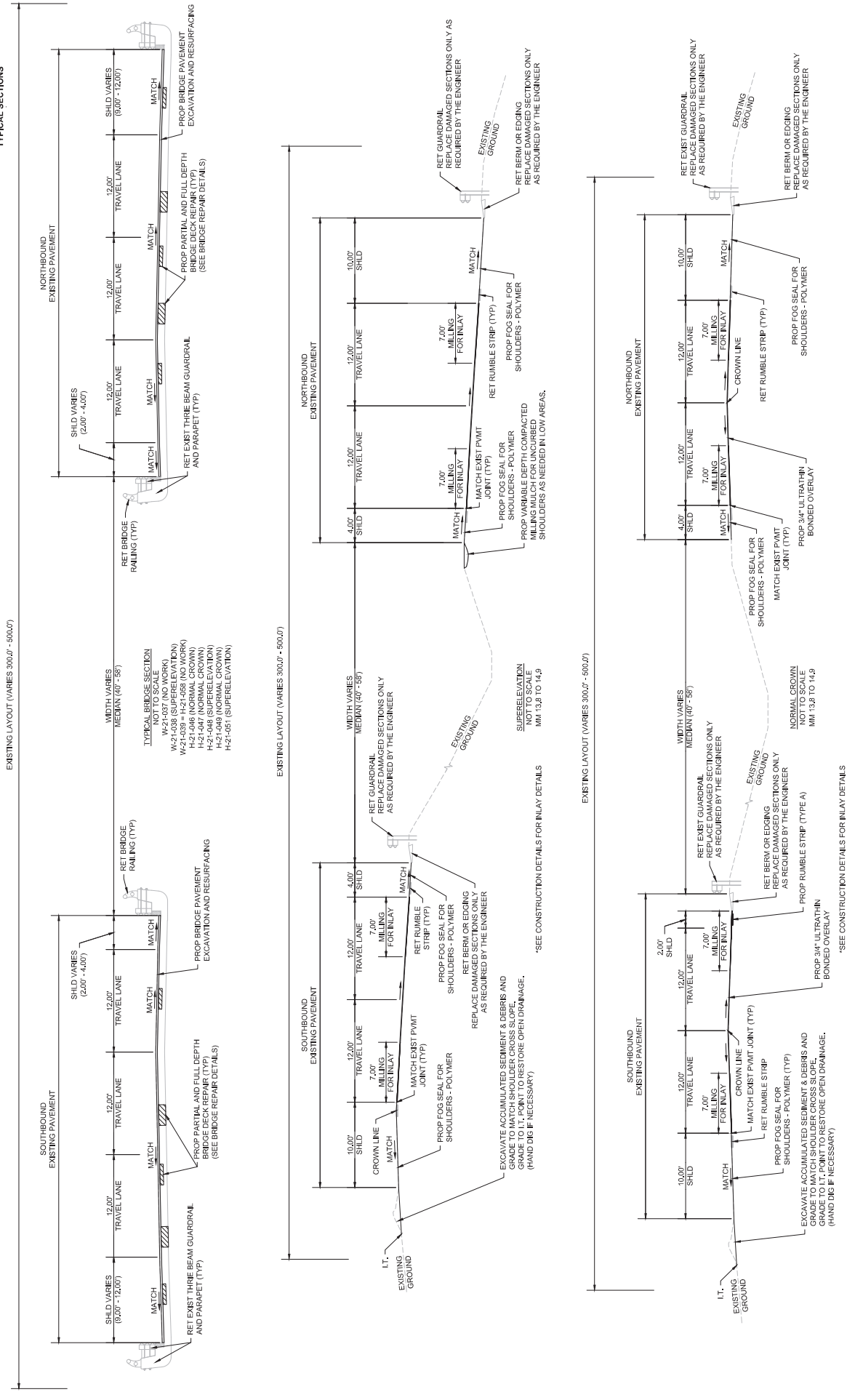
EXISTING LAYOUT (VARIES 300.0' - 500.0')



NORMAL CROWN
NOT TO SCALE
MM 10.5 TO 13.9

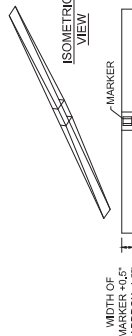
HOLYOKE-WEST SPRINGFIELD INTERSTATE 91			
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
MA	033114	4	19
PROJECT FILE NO. 033114			

TYPICAL SECTIONS



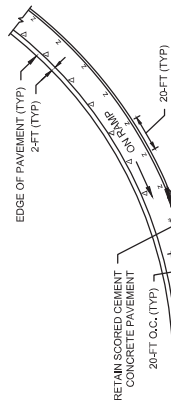
HOLYOKE-WEST SPRINGFIELD

HOLYO



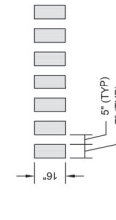
ONE-WAY MARKER APPLICATION

RECESSED GROOVE DETAILS
NOT TO SCALE



NOTES:
1. THIS DRAWING IS INTENDED TO DEFINE LOCATION OF SLOTTED PAVEMENT MARKERS.

TYPICAL SLOTTED PAVEMENT MARKERS LOCATIONS
NOT TO SCALE



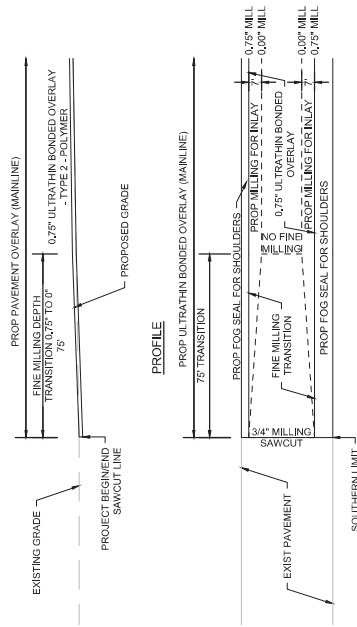
WE WORK E

**FREE TRIMMING
NOT TO SCALE**

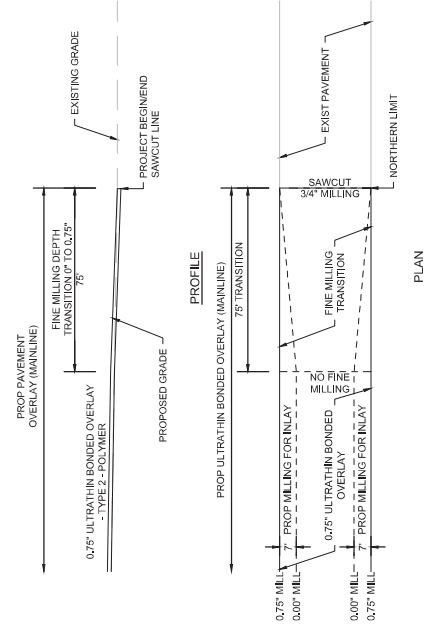
HOLYOKE-WEST SPRINGFIELD
INTERSTATE 91

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	8	19
PROJECT FILE NO. 033114			

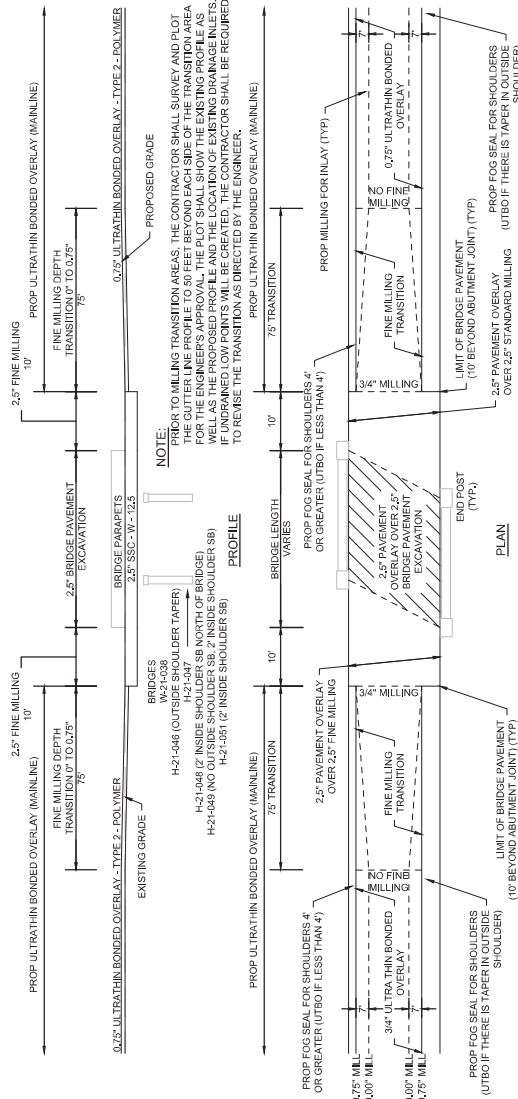
CONSTRUCTION DETAILS



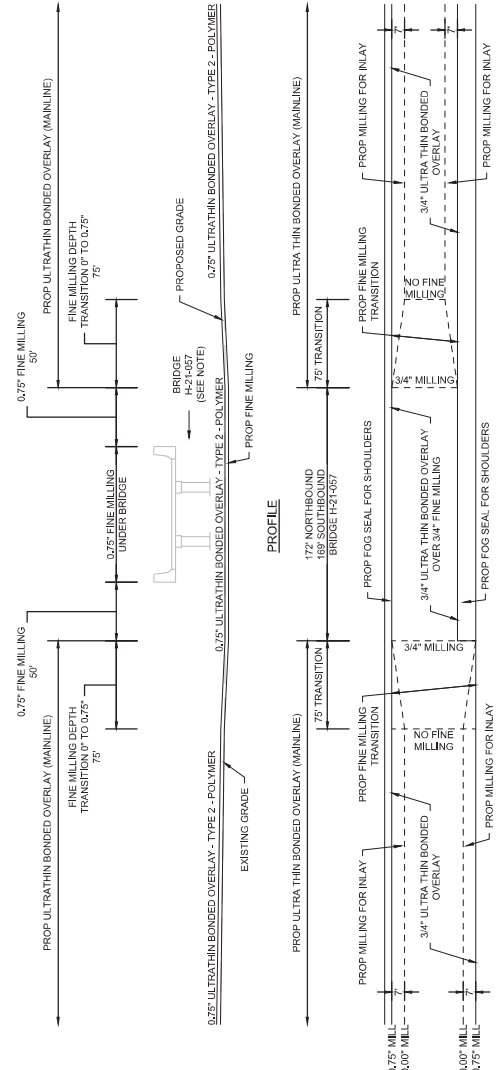
PAVEMENT TRANSITION AT PROJECT LIMIT
MILE MARKER 0.55 NB
MILE MARKER 14.87 NB
NOT TO SCALE



PAVEMENT TRANSITION AT PROJECT LIMIT
MILE MARKER 14.58 SB (TAPER IN OUTSIDE SHOULDER, 2' INSIDE SHOULDER)
NOT TO SCALE



PAVEMENT TRANSITION AT BRIDGES W-21-038, H-21-048, H-21-049, & H-21-051
NOT TO SCALE



PAVEMENT TRANSITION UNDER BRIDGE H-21-057
NOT TO SCALE

CONSTRUCTION DETAILS

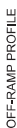
CONSTRUCTION DETAILS



**TRANSITION AT
NOT TO SCALE**



**KIDGES W-2
NOT TO SCALE**



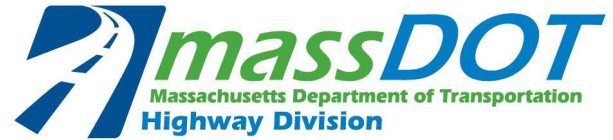
NOT TO SCALE

NOTE: PRIOR TO MILLING TRANSITION AREAS, THE CONTRACTOR SHALL SURVEY AND PLOT THE CUTTER LINE PROFILE TO 50 FEET BEYOND EACH SIDE OF THE TRANSITION AREA FOR THE ENGINEER'S APPROVAL. THE PLOT SHALL SHOW THE EXISTING PROFILE AS WELL AS THE PROPOSED PROFILE AND THE LOCATION OF EXISTING DRAINAGE INLETS. IF UNDRAINED LOW POINTS WILL BE CREATED, THE CONTRACTOR SHALL BE REQUIRED TO REVERSE THE TRANSITION AS DIRECTED BY THE ENGINEER.

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Maura Healey, Governor
Kimberley Driscoll, Lieutenant Governor
Phillip Eng, Interim MassDOT Secretary
Jonathan L. Gulliver, Undersecretary and Highway Administrator



Return Receipt Requested

March 30, 2026

West Springfield Conservation Commission
26 Central Street
West Springfield, MA 01089

Re: Request for Determination of
Applicability
Interstate Pavement Preservation and
Related Work on I-91

Dear Commission Members:

Please find enclosed a Request for Determination of Applicability for Interstate Pavement Preservation and Related Work on I-91 in the City of West Springfield. This project is being filed under the Massachusetts Wetlands Protection Act, M.G.L. Chapter 131 § 40, and its regulations, 310 CMR 10.00. No findings under City Bylaws, including any Wetland Bylaws, are requested.

The MassDOT Highway Division is an agency of State Government and as such is exempt from local Conservation Commission by-laws and fees. For MassDOT to provide advertising payment, the newspaper must directly bill the Massachusetts Department of Transportation, at the address shown below.

As indicated under 310 CMR: 10:05(3)(b)1, a Determination of Applicability shall be issued within 21 days after the date of receipt of an RDA. If within the 21 days you have questions or would like to schedule a site visit, please contact Maxfield Phaneuf, Assistant District Environmental Engineer, at Maxfield.W.Phaneuf@dot.state.ma.us.

Sincerely,

Patricia A. Leavenworth, P.E.
District Highway Director

MP

MP/

C- PKS (w/encl.)

DEP-[WERO] (w/encl.)

Encl.

811 North King Street, Northampton, MA 01060
Tel: (857) 368-2000, Fax: (857) 368-0200
mass.gov/massdot


Massachusetts Department of Environmental Protection

Bureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability

West Springfield

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Municipality

A. General Information
Important:

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



1. Applicant:	
Patricia	Leavenworth
First Name	Last Name
MassDOT - District 2, 811 N. King Street	
Address	
Northampton	MA
City/Town	State
	01060
	Zip Code
Phone Number	Email Address
2. Property Owner (if different from Applicant):	
First Name	Last Name
Address	
City/Town	State
	Zip Code
Phone Number	Email Address (if known)
3. Representative (if any)	
Maxfield	Phaneuf
First Name	Last Name
MassDOT District 2	
Company Name	
811 N. King Street	
Address	
Northampton	MA
City/Town	State
4135600535	01060
Phone Number	Zip Code
	maxfield.w.phaneuf@dot.state.ma.us
	Email Address (if known)

B. Project Description

1. a. Project Location (use maps and plans to identify the location of the area subject to this request):	
I-91 NB and SB from Holyoke to Schoolhouse Brook Bridge Pavement Joint	West Springfield
Street Address	City/Town
42.15432	-72.64814
Latitude (Decimal Degrees Format with 5 digits after decimal e.g. XX.XXXXX)	Longitude (Decimal Degrees Format with 5 digits after decimal e.g. -XX.XXXXX)
Assessors' Map Number	Assessors' Lot/Parcel Number
b. Area Description (use additional paper, if necessary):	
See Attachment A	
c. Plan and/or Map Reference(s): (use additional paper if necessary)	
613314 - West Springfield Aerial	3/19/2026
Title	Date
613314 - West Springfield DEP Wetlands	3/19/2026
Title	Date

[How to find Latitude and Longitude](#)
[and how to convert to decimal degrees](#)


Massachusetts Department of Environmental Protection

Bureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability

West Springfield

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Municipality

B. Project Description (cont.)

2. a. Activity/Work Description (use additional paper and/or provide plan(s) of Activity, if necessary):

See Attachment A

- b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).

See Attachment C

3. a. If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.

- ☐ Single family house on a lot recorded on or before 8/1/96
- ☐ Single family house on a lot recorded after 8/1/96
- ☐ Expansion of an existing structure on a lot recorded after 8/1/96
- ☐ Project, other than a single-family house or public project, where the applicant owned the lot before 8/7/96
- ☐ New agriculture or aquaculture project
- ☐ Public project where funds were appropriated prior to 8/7/96
- ☐ Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
- ☐ Residential subdivision; institutional, industrial, or commercial project
- ☐ Municipal project
- ☐ District, county, state, or federal government project
- ☐ Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.

- b. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification above (use additional paper and/or attach appropriate documents, if necessary.)


Massachusetts Department of Environmental Protection

Bureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability

West Springfield

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Municipality

C. Determinations

1. I request the West Springfield make the following determination(s). Check any that apply:
Conservation Commission

- ☐ a. whether the **area** depicted on plan(s) and/or map(s) referenced above is an area subject to jurisdiction of the Wetlands Protection Act.
- ☐ b. whether the **boundaries** of resource area(s) depicted on plan(s) and/or map(s) referenced above are accurately delineated.
- ☒ c. whether the **Activities** depicted on plan(s) referenced above is subject to the Wetlands Protection Act and its regulations.
- ☐ d. whether the area and/or Activities depicted on plan(s) referenced above is subject to the jurisdiction of any **municipal wetlands' ordinance** or **bylaw** of:

Name of Municipality

- ☐ e. whether the following **scope of alternatives** is adequate for Activities in the Riverfront Area as depicted on referenced plan(s).
- _____

D. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Signatures:

I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.

Patricia A. Leavenworth
Signature of Applicant

03/30/2026

Date

Maxfield Phansuf
Signature of Representative (if any)

3/30/2026

Date



Maura Healey, Governor
Kimberley Driscoll, Lieutenant Governor
Phillip Eng, Interim MassDOT Secretary
Jonathan L. Gulliver, Undersecretary and Highway Administrator

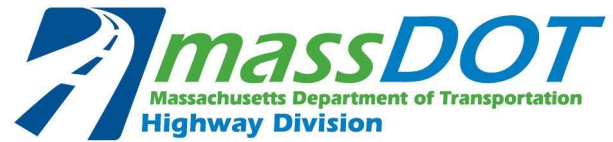


Table of Contents

Attachment A – Project Description

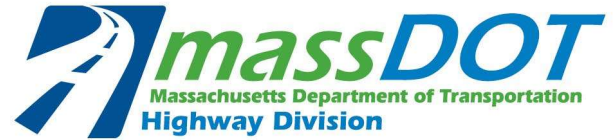
Attachment B – Maps

Attachment C – Wetlands Protection Act Provisions for Exemptions

Attachment D - Plans



Maura Healey, Governor
 Kimberley Driscoll, Lieutenant Governor
 Phillip Eng, Interim MassDOT Secretary
 Jonathan L. Gulliver, Undersecretary and Highway Administrator



Attachment A – Project Description

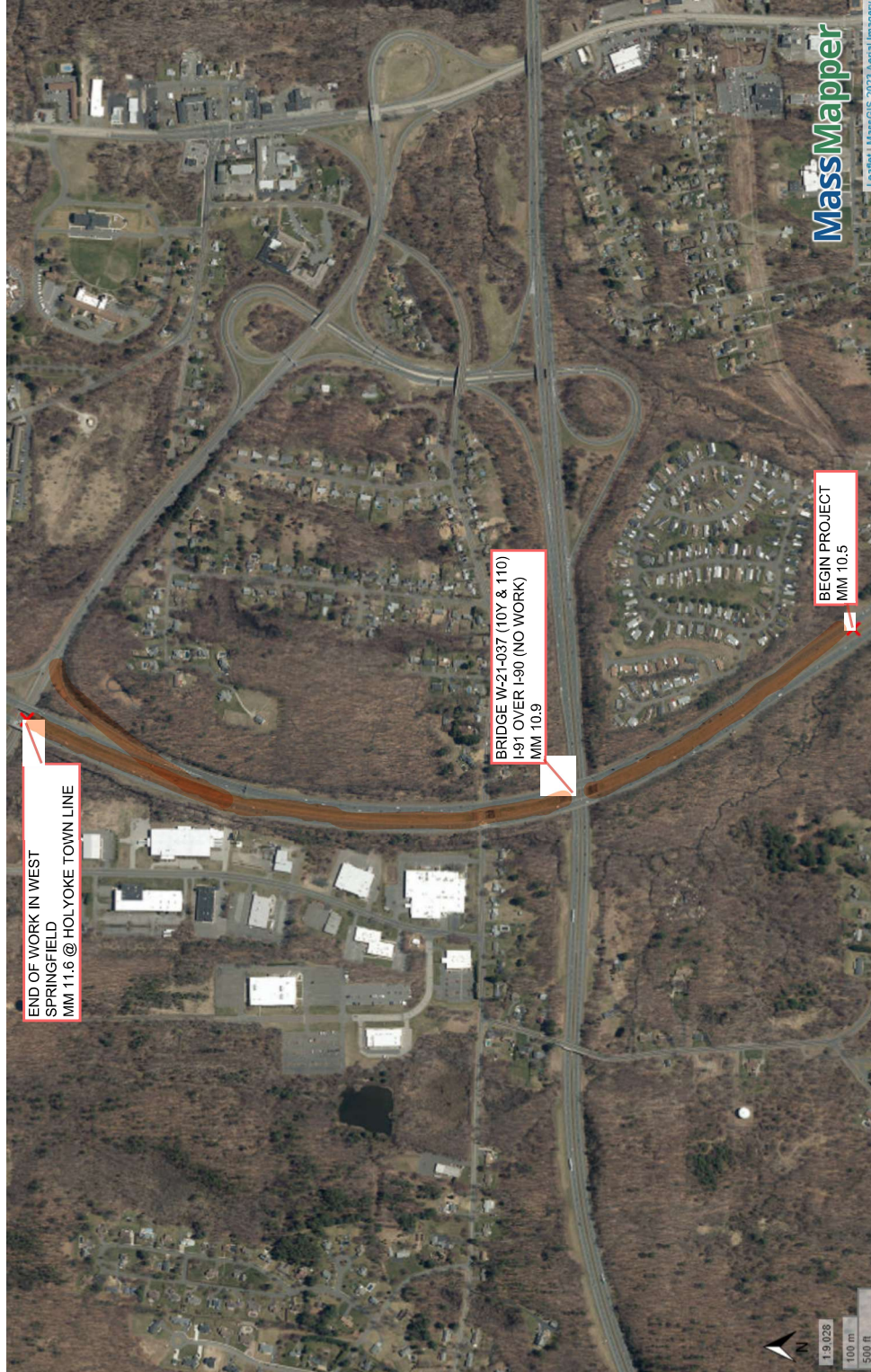
Locations/Area Description

The area of work will be located on Interstate 91 in West Springfield, Massachusetts, from mile marker 10.54 extending north to the Holyoke town line. Work will continue approximately 3.3 miles north into the City of Holyoke, ending at mile marker 14.9. A separate RDA is being filed concurrently with the Holyoke conservation commission. No work will occur on Bridge W-21-037 (I-91 over I-90). Jurisdictional areas present where work is taking place include Riverfront Area associated with Schoolhouse Brook, which is listed as a Cold Water Fishery, and buffer zone to Bordering Vegetated Wetlands. All proposed work is within the State Highway Layout, and no rights to enter or occupy private property have been acquired for this project.

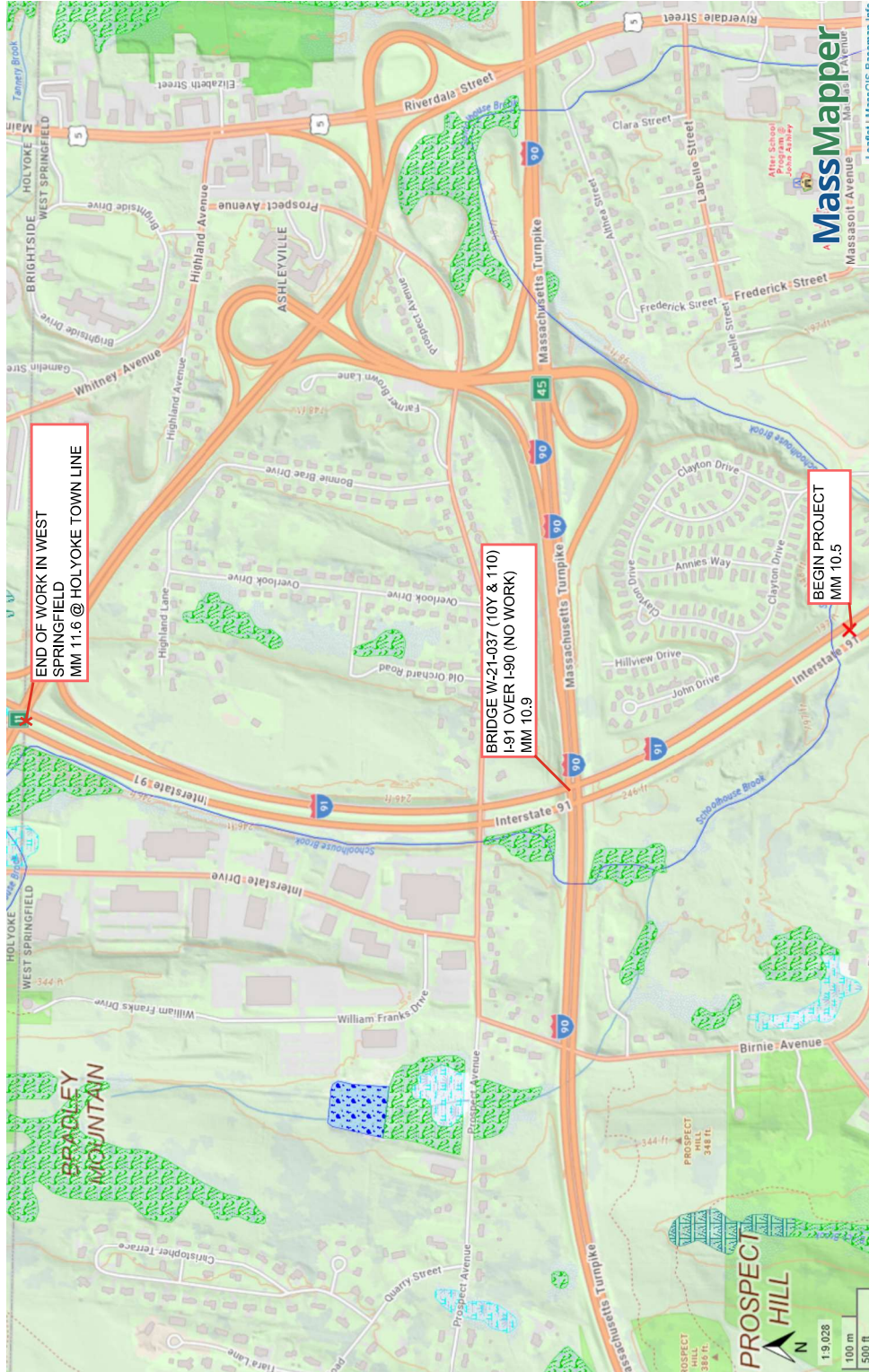
Activity/ Work Description

The work to be completed under this contract consists of paving an ultra-thin bonded overlay on the I-91 mainline, pavement milling, bridge preservation, and preservation on interchange ramps and scenic areas in the municipality of West Springfield. The work also includes bridge deck repairs, bridge joint repairs/replacement, bridge resurfacing, clearing of roadway side slopes, removal of built-up material on shoulders to restore country drainage, adjusting and/or rebuilding drainage structures, repairing guardrail, and limited tree clearing/trimming. Tree clearing and trimming will be limited to within 20 feet of the existing edge of pavement. Bridge repairs within West Springfield are limited to the I-91 bridges over Prospect Avenue, which do not directly cross a wetland or waterway. Erosion and sediment controls are included as a contingency and will be used when/if needed as work progresses. No adverse impacts to resource areas are anticipated as a result of this work.

613314 - West Springfield Aerial



613314 - West Springfield DEP Wetlands



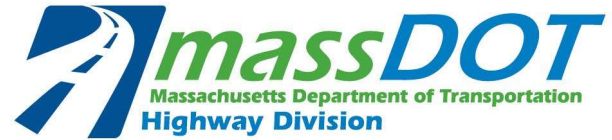
DEP Wetlands Detailed With Outlines

- Barrier Beach System
- Barrier Beach-Deep Marsh
- Barrier Beach-Wooded Swamp Mixed Trees
- Barrier Beach-Coastal Beach
- Barrier Beach-Coastal Dune
- Barrier Beach-Marsh
- Barrier Beach-Salt Marsh
- Barrier Beach-Shrub Swamp
- Barrier Beach-Wooded Swamp Coniferous
- Barrier Beach-Wooded Swamp Deciduous
- Bog
- Coastal Bank Bluff or Sea Cliff
- Coastal Beach
- Coastal Dune
- Cranberry Bog
- Deep Marsh
- Barrier Beach-Open Water
- Open Water
- Rocky Intertidal Shore
- Salt Marsh
- Shallow Marsh Meadow or Fen
- Shrub Swamp
- Tidal Flat
- Wooded Swamp Coniferous
- Wooded Swamp Deciduous
- Wooded Swamp Mixed Trees

DFW Coldwater Fisheries Resources



Maura Healey, Governor
 Kimberley Driscoll, Lieutenant Governor
 Phillip Eng, Interim MassDOT Secretary
 Jonathan L. Gulliver, Undersecretary and Highway Administrator



Attachment C– Wetlands Protection Act Provisions for Exemption

In accordance with the Massachusetts Transportation Bond Bill of 2014, the proposed work described herein that is associated with bridge repair is exempt from review under the Massachusetts Wetlands Protection Act (M.G.L. c. 131 §40) and its implementing regulations (310 CMR 10.00).

310 CMR 10.02(2)(a) Activities Within the Areas Subject to Protection under M.G.L. c. 131, § 40.

Any activity proposed or undertaken within an area specified in 310 CMR 10.02(1), which will remove, fill, dredge or alter that area, is subject to Regulation under M.G.L. c. 131, § 40 and requires the filing of a Notice of Intent except:

1. Minor activities within the riverfront area meeting the requirement of 310 CMR 10.02(20(b) 1. And 2.; and
2. Activities conducted to maintain, repair or replace, but not substantially change or enlarge an existing lawfully located structure or facility used in the service of the public and used to provide electric, gas, water, sewer, telephone, telegraph and other communication services, provided said work utilizes the best practical measures to avoid or minimize impacts to wetland resource areas outside the footprint of said structure or facility. A project proponent claiming that work to remove, fill, dredge or alter an area specified in 310 CMR 10.02(2) does not require the filing of a Notice of Intent has the burden of establishing that the work is not subject to Regulation under M.G.L. c. 131, § 40.

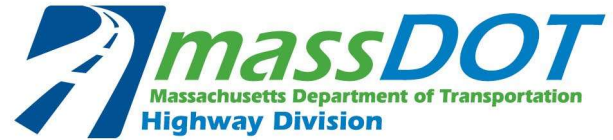
310 CMR 10.02(2)(b) Activities Within the Buffer Zone.

Any activity other than minor activities identified in 310 CMR 10.02(2)(b)2. proposed or undertaken within 100 feet of an area specified in 310 CMR 10.02(1)(a) (hereinafter called the Buffer Zone) which, in the judgment of the issuing authority, will alter an Area Subject to Protection under M.G.L. c. 131, § 40 is subject to regulation under M.G.L. c. 131, § 40 and requires the filing of a Notice of Intent. (See also 310 CMR 10.05(3)(a)2.). The areas subject to jurisdiction identified in 310 CMR 10.02(1)(b) through (f) do not have a buffer zone.

1. Minor activities, as described in 310 CMR 10.02(2)(b)2., within the buffer zone and outside any areas specified in 310 CMR 10.02(1)(a) through (e) are not otherwise subject to regulation under M.G.L. c. 131, § 40 provided that the work is performed: solely within the buffer zone, as prescribed in 310 CMR 10.02(2)(b)2.a. through q., in a manner so as to reduce the potential for any adverse impacts to the resource area during construction, and with post-



Maura Healey, Governor
 Kimberley Driscoll, Lieutenant Governor
 Phillip Eng, Interim MassDOT Secretary
 Jonathan L. Gulliver, Undersecretary and Highway Administrator



construction measures implemented to stabilize any disturbed areas. Factors to consider when measuring the potential for adverse impacts to resource areas include the extent of the work, the proximity to the resource area, the need for erosion controls, and the measures employed to prevent adverse impacts to resource areas during and following the work.

2. The following minor activities, provided that they comply with 310 CMR 10.02(2)(b) 1., are not otherwise subject to regulation under M.G.L. c. 131, § 40:

...

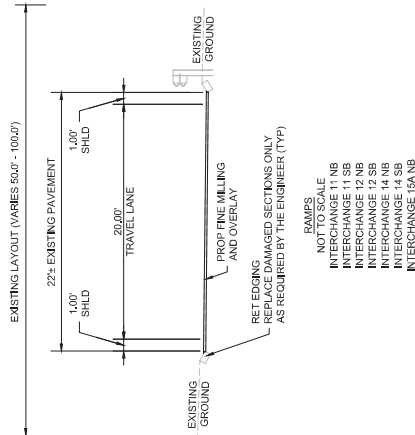
c. Vista pruning, provided the activity is located more than 50 feet from the mean annual high water line within a Riverfront Area or from Bordering Vegetated Wetland, whichever is farther. (Pruning of landscaped areas is not subject to jurisdiction under 310 CMR 10.00);

...

o. Installation, repair, replacement or removal of signs, signals, sign and signal posts and associated supports, braces, anchors, and foundations along existing paved roadways and their shoulders, provided that work is conducted as far from resource areas as practicable, and is located a minimum of ten feet from a resource area, any excess soil is removed from the project location, and any disturbed soils are stabilized as appropriate;

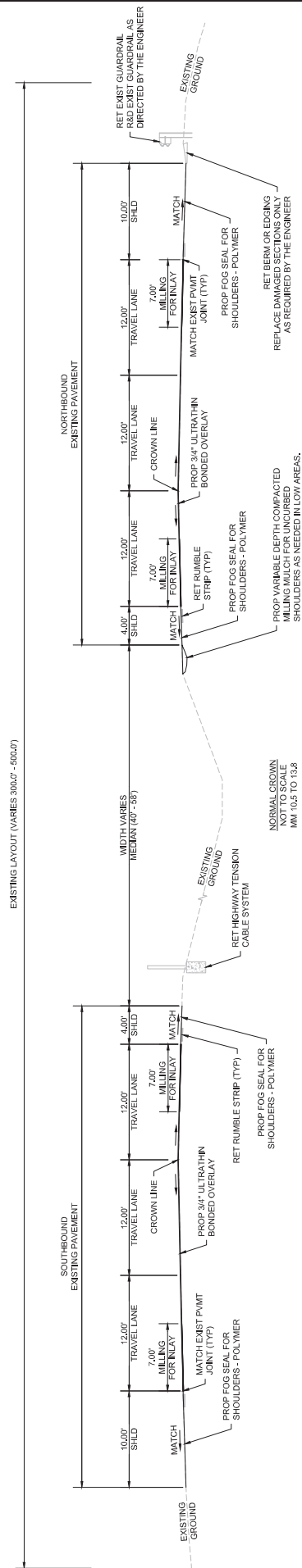
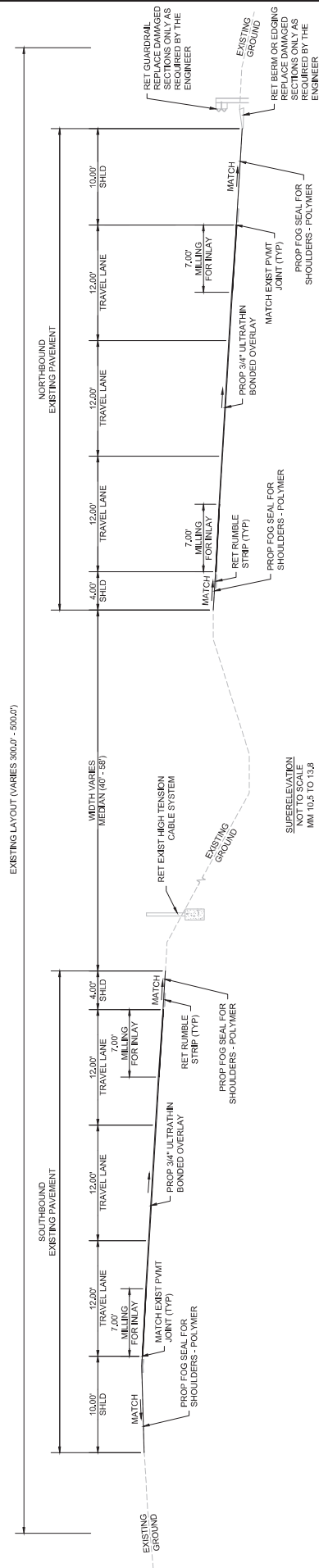
p. Pavement repair, resurfacing, and reclamation of existing roadways within the right-of-way configuration provided that the roadway and shoulders are not widened, no staging or stockpiling of materials, all disturbed road shoulders are stabilized within 72 hours of completion of the resurfacing or reclamation, and no work on the drainage system is performed, other than adjustments and/or repairs to respective structures within the roadway;

COKE-WEST SPRINGFIELD INTERSTATE 91		SHEET NO.	TOTAL SHEETS
FED. AID PROJ. NO.		3	19
PROJECT FILE NO.		613314	
TYPICAL SECTIONS			



NOT TO SCALE

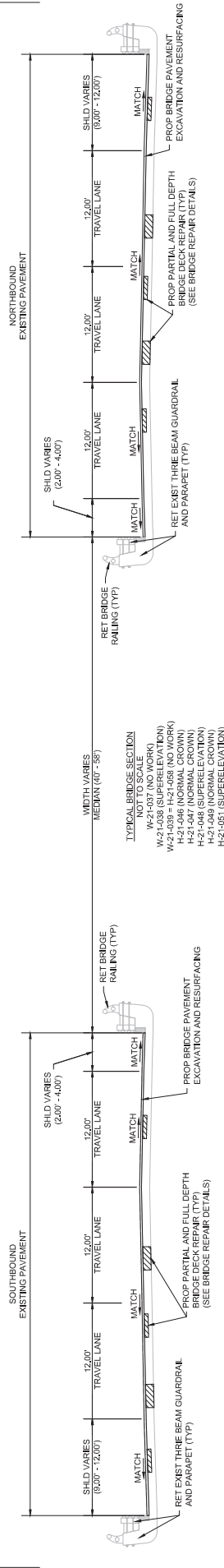
INTERCHANGE 11 NB
INTERCHANGE 11 SB
INTERCHANGE 12 NB
INTERCHANGE 12 SB
INTERCHANGE 14 NB
INTERCHANGE 14 SB
INTERCHANGE 15A NB



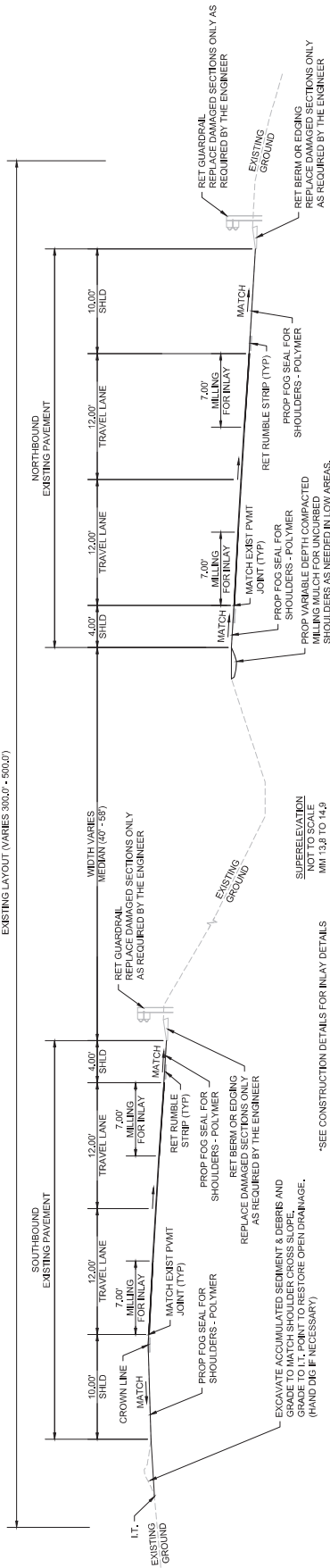
HOLYOKE-WEST SPRINGFIELD INTERSTATE 91			
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
MA	613314	4	19
PROJECT FILE NO. 033014			

TYPICAL SECTIONS

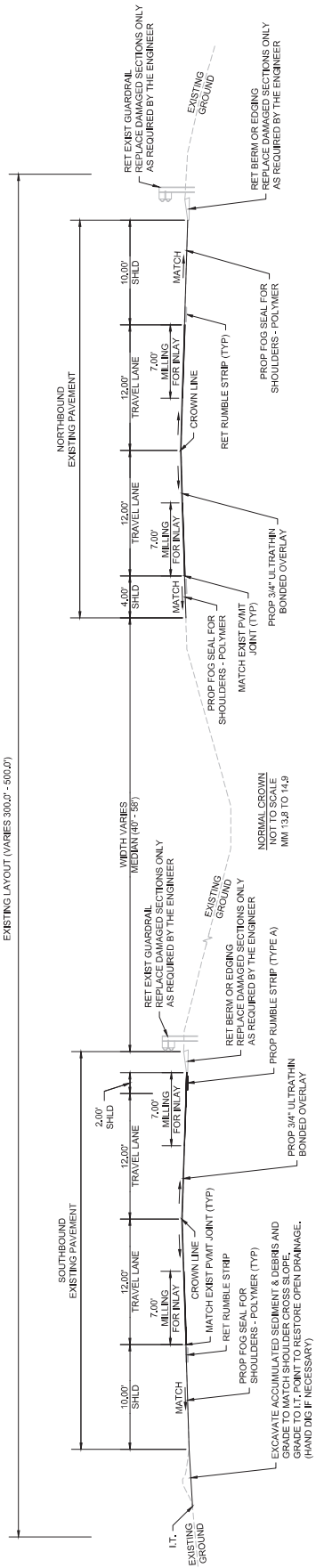
EXISTING LAYOUT (VARIES 300.0' - 500.0')



EXISTING LAYOUT (VARIES 300.0' - 500.0')



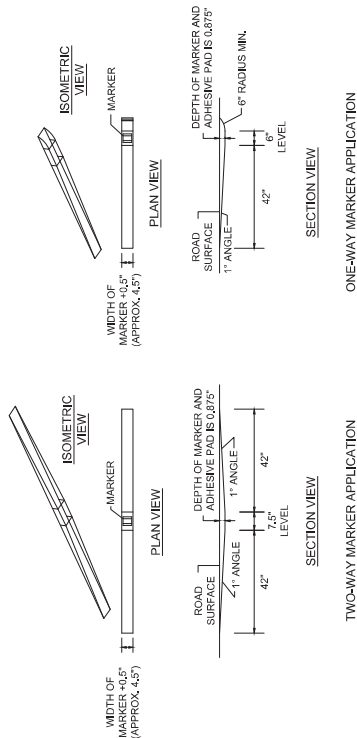
EXISTING LAYOUT (VARIES 300.0' - 500.0')



HOLYOKE-WEST SPRINGFIELD
INTERSTATE 91

STATE	PROJ. APPROVAL NO.	SHEET NO.	TOTAL SHEETS
MA	-	7	19
PROJECT FILE NO. 033014			

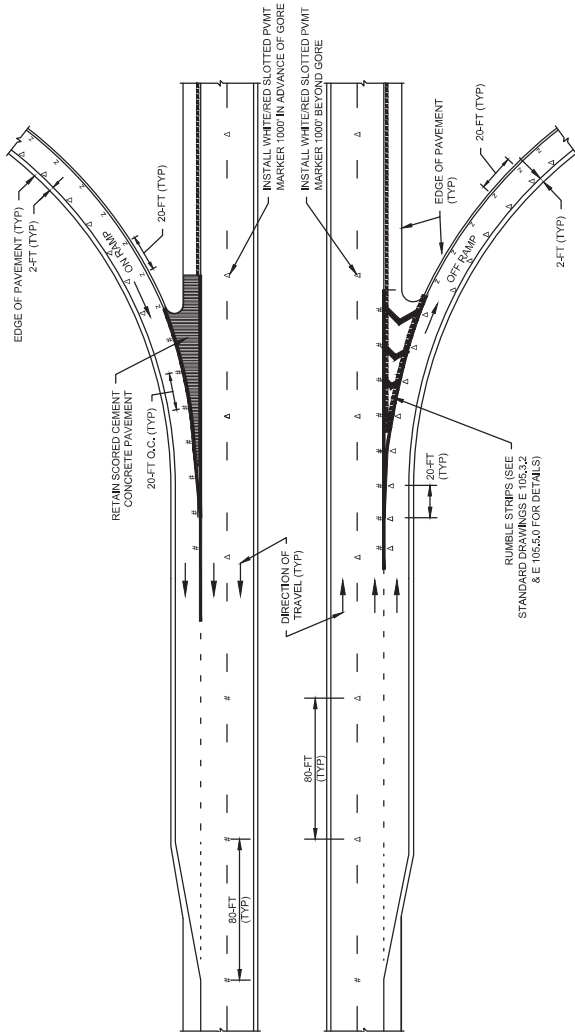
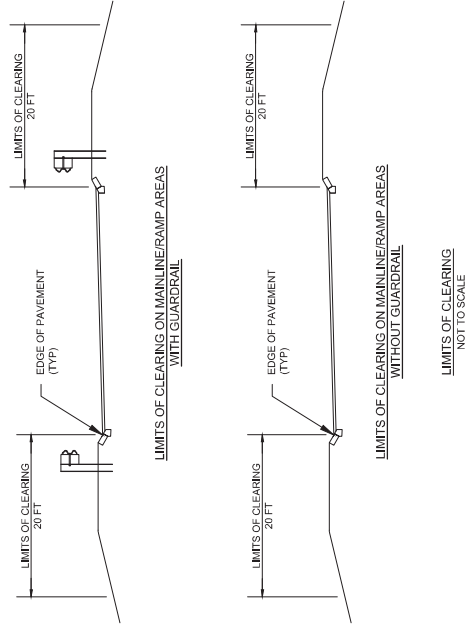
CONSTRUCTION DETAILS



NOTES:

1. THE SLOT MUST BE DRY AND FREE OF DUST, OIL, OR ANY MATERIAL WHICH WILL ADVERSELY AFFECT THE BOND OF THE ADHESIVE.
2. INSTALL MARKERS WITH APPROVED ADHESIVE. DO NOT ALLOW ADHESIVE TO BUILD UP IN FRONT OF MARKER LENS.
3. THE MARKER AND THE ADHESIVE PAD SHALL BE 1/8" BELOW THE TOP OF THE PAVEMENT SURFACE.

RECESSED GROOVE DETAILS
NOT TO SCALE

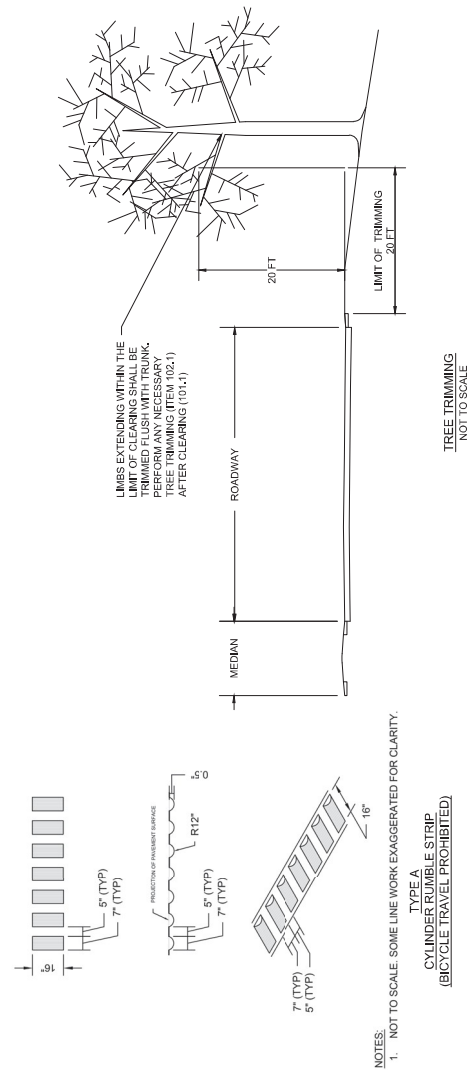


LEGEND:

- # - SLOTTED ONE-WAY WHITE PAVEMENT MARKERS
- Δ - SLOTTED TWO-WAY WHITE PAVEMENT MARKERS
- 2 - SLOTTED TWO-WAY YELLOWED PAVEMENT MARKER

- NOTES:
1. THIS DRAWING IS INTENDED TO DEFINE LOCATION OF SLOTTED PAVEMENT MARKERS.
 2. ALL PAVEMENT MARKINGS SHALL CONFORM TO THE CURRENT CONSTRUCTION STANDARD DETAILS AND M.U.T.C.D.
 3. RED REFLECTORS SHALL FACE AWAY FROM ONCOMING TRAFFIC.

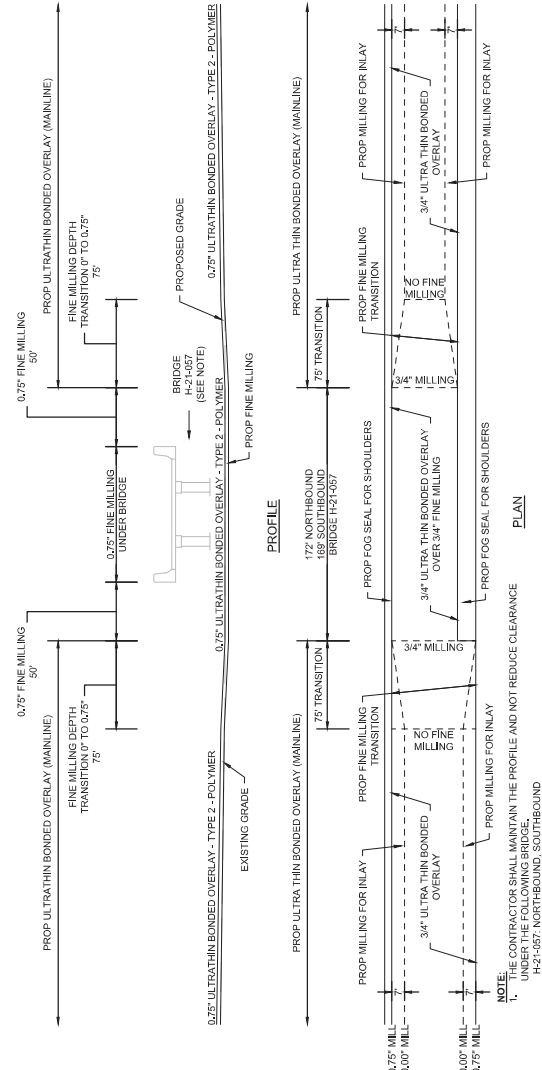
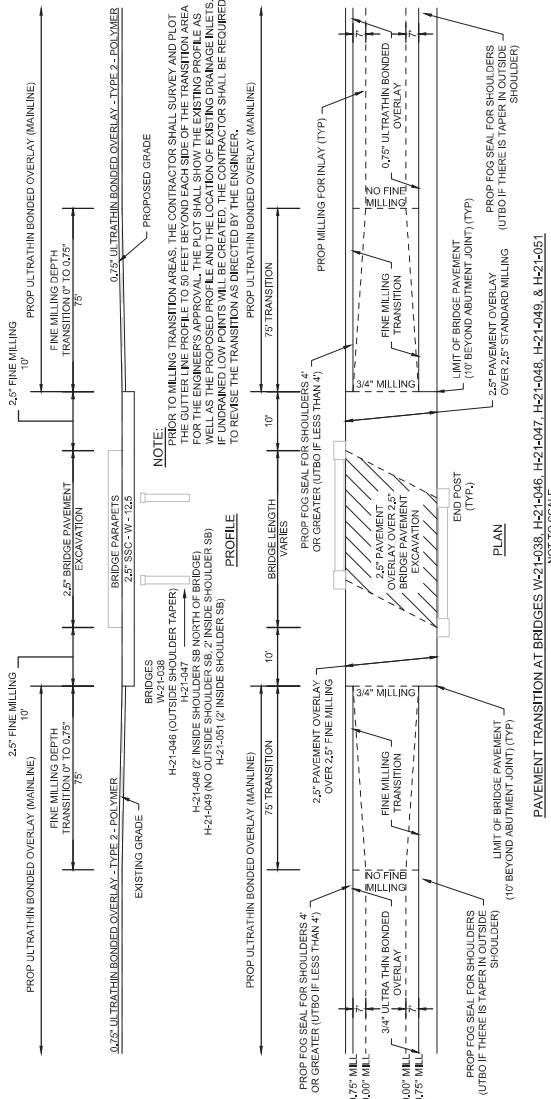
TYPICAL SLOTTED PAVEMENT MARKERS LOCATIONS
NOT TO SCALE



- NOTES:
1. NOT TO SCALE. SOME LINE WORK EXAGGERATED FOR CLARITY.

TYPE A
CYLINDER RUMBLE STRIP
(BICYCLE TRAVEL PROHIBITED)

HOLYOKE-WEST SPRINGFIELD INTERSTATE 91			
STATE	FILE NO.	SHEET NO.	TOTAL SHEETS
MA	-	8	19
PROJECT FILE NO.		033114	
CONSTRUCTION DETAILS			

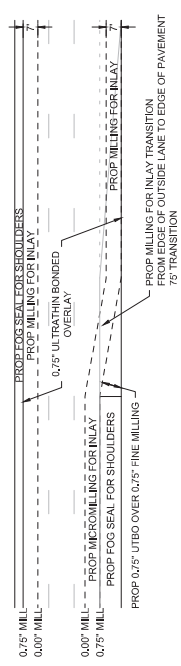
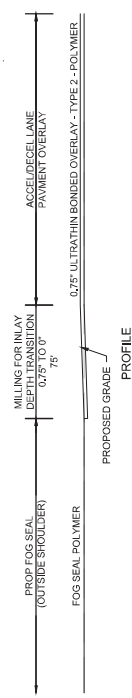


PAVEMENT TRANSITION AT PROJECT LIMIT
MILE MARKER 0.55 NB
MILE MARKER 14.87 NB
NOT TO SCALE

PAVEMENT TRANSITION AT PROJECT LIMIT
MILE MARKER 14.85 SB (TAPER IN OUTSIDE SHOULDER, 2' INSIDE SHOULDER)
NOT TO SCALE

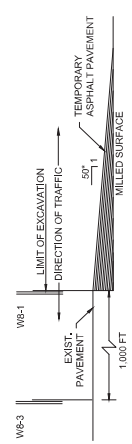
HOLYOKE-WEST SPRINGFIELD INTERSTATE 91			
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	9	19
PROJECT FILE NO. - 033014			

CONSTRUCTION DETAILS

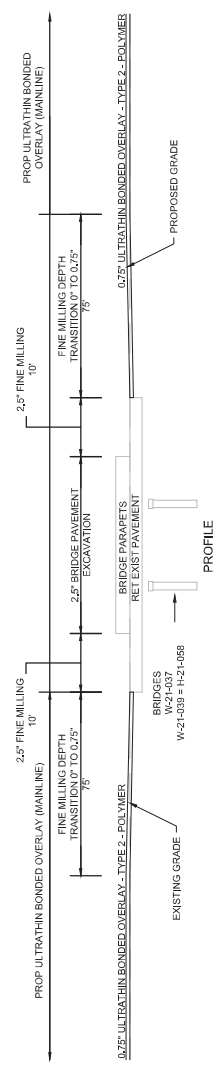


PLAN

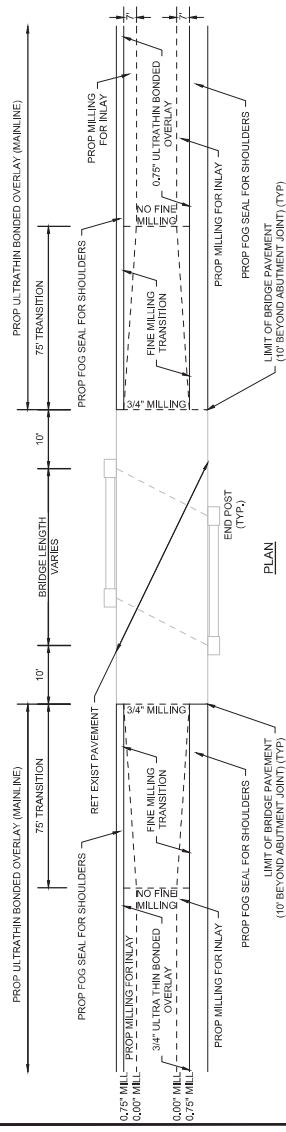
OUTSIDE SHOULDER TRANSITION AT INTERCHANGE TAPERS
NOT TO SCALE



LONGITUDINAL DROP OFF DETAIL
NOT TO SCALE

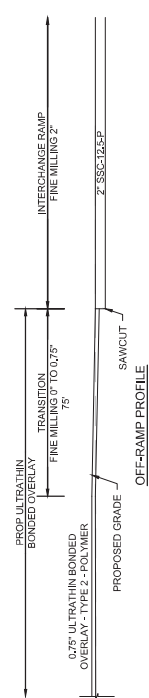


PROFILE

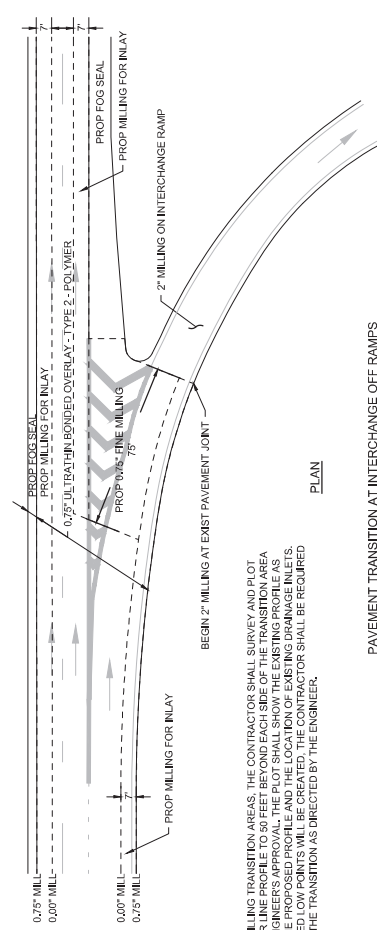


PLAN

PAVEMENT TRANSITION AT BRIDGES W-21-037 AND W-21-039-H-21-058
NOT TO SCALE



OFF-RAMP PROFILE



PLAN

PAVEMENT TRANSITION AT INTERCHANGE OFF-RAMPS
NOT TO SCALE

NOTE:
PRIOR TO MILLING TRANSITION AREAS, THE CONTRACTOR SHALL SURVEY AND PLOT THE GUTTER LINE PROFILE TO 50 FEET BEYOND EACH SIDE OF THE TRANSITION AREA TO THE EXISTING PAVEMENT. THE CONTRACTOR SHALL ALSO SURVEY THE EXISTING PAVEMENT PROFILE TO 50 FEET BEYOND EACH SIDE OF THE TRANSITION AREA. THE CONTRACTOR SHALL ALSO SURVEY THE EXISTING DRAINAGE INLETS, IF UNDRAINED LOW POINTS WILL BE CREATED, THE CONTRACTOR SHALL BE REQUIRED TO REVISE THE TRANSITION AS DIRECTED BY THE ENGINEER.

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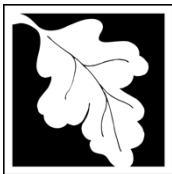
DOCUMENT A00851

MASSACHUSETTS WETLANDS PROTECTION ACT

Determination of Applicability

Holyoke – Determination of Applicability	3 through 10
West Springfield – Determination of Applicability	11 through 18

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Massachusetts Department of Environmental Protection
 Bureau of Water Resources - Wetlands
WPA Form 2 – Determination of Applicability
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Holyoke
 Municipality

A. General Information

Important:
 When filling out
 forms on the
 computer, use only
 the tab key to move
 your cursor - do not
 use the return key.



From:

Holyoke
 Conservation Commission

To: Applicant

Patricia Leavenworth
 Name
 MassDOT - District 2, 811 King Street
 Mailing Address
 Northampton MA 01060
 City/Town State Zip Code

Property Owner (if different from applicant):

Name
 Mailing Address
 City/Town State Zip Code

Phone Number

Phone Number

Email Address

Email Address (if known)

1. Project Location:

I-91 from MM 11.6 to 14.9
 Street Address
 42.18547
 Latitude (Decimal Degrees Format with 5 digits after
 decimal e.g. XX.XXXXX)

Holyoke
 City/Town
 -72.6391
 Longitude (Decimal Degrees Format with 5 digits after
 decimal e.g. -XX.XXXXX)

Assessors Map/Plat Number

Parcel/Lot Number

2. Date Request Filed:

4/2/2026

[How to find Latitude
 and Longitude](#)

[and how to convert to
 decimal degrees](#)

B. Determination

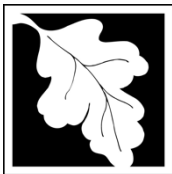
Pursuant to the authority of M.G.L. c. 131, § 40, the Conservation Commission considered your Request for Determination of Applicability, with its supporting documentation, and made the following Determination.

Project Description (if applicable):

Paving an ultra-thin bonded overlay onto the I-91 mainline, pavement milling, bridge preservation, and preservation on interchange ramps and scenic areas. The work also includes bridge deck repairs, bridge joint repairs/replacement, bridge resurfacing, clearing of roadway side slopes, removal of built-up material on shoulders to restore country drainage, adjusting and/or rebuilding drainage structures, repairing guardrail, and limited tree clearing/trimming. Tree clearing and trimming performed under this contract will be limited to within 20 feet of the existing edge of pavement. There will be no increase of impervious surface area, or changes in elevations or slopes as a part of this work.

Title and Date (or Revised Date if applicable) of Final Plans and Other Documents:

613314 - Holyoke Aerial (1 & 2)	3/26/26
Title	Date
613314 - Holyoke DEP Wetlands (1&2)	3/26/26
Title	Date
Title	Date



Massachusetts Department of Environmental Protection

Bureau of Water Resources - Wetlands

WPA Form 2 – Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Holyoke
Municipality

B. Determination (cont.)

The following Determination(s) is/are applicable to the proposed site and/or project relative to the Wetlands Protection Act and regulations:

Positive Determination

Note: No work within the jurisdiction of the Wetlands Protection Act may proceed until a final Order of Conditions (issued following submittal of a Notice of Intent or Abbreviated Notice of Intent) has been received from the issuing authority (i.e., Conservation Commission or the Department of Environmental Protection).

- ☐ 1. The area described on the referenced plan(s) is an area subject to jurisdiction under the Act. Removing, filling, dredging, or altering of the area requires the filing of a Notice of Intent.
- ☐ 2a. The boundary delineations of the following resource areas described on the referenced plan(s) are confirmed as accurate. Therefore, the resource area boundaries confirmed in this Determination are binding as to all decisions rendered pursuant to the Wetlands Protection Act and its regulations regarding such boundaries for as long as this Determination is valid.

- ☐ 2b. The boundaries of Wetlands Resource Area(s) and Buffer Zone(s) listed below are not confirmed by this Determination, regardless of whether such boundaries are contained on the plans attached to this Determination or to the Request for Determination.

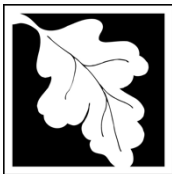
- ☐ 3. The work described on referenced plan(s) and document(s) is within an area subject to jurisdiction under the Act and will remove, fill, dredge, or alter that area. Therefore, said work requires the filing of a Notice of Intent.
- ☐ 4. The work described on referenced plan(s) and document(s) is within the Buffer Zone and will alter an Area subject to jurisdiction under the Act. Therefore, said work requires the filing of a Notice of Intent
- ☐ 5. The area and/or work described on referenced plan(s) and document(s) is subject to review and approval by:

Name of Municipality

Pursuant to the following municipal wetland ordinance or bylaw:

Name

Ordinance or Bylaw Citation


Massachusetts Department of Environmental Protection

Bureau of Water Resources - Wetlands

WPA Form 2 – Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

 Holyoke
 Municipality

B. Determination (cont.)

- ☐ 6. The following area and/or work, if any, is subject to a municipal ordinance or bylaw but not subject to the Massachusetts Wetlands Protection Act:

- ☐ 7. If a Notice of Intent is filed for the work in the Riverfront Area described on referenced plan(s) and document(s), which includes all or part of the work described in the Request, the applicant must consider the following alternatives. (Refer to the wetland regulations at 10.58(4)(c) 2. for more information about the scope of alternatives requirements):

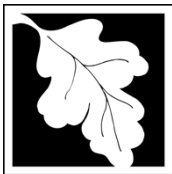
- ☐ Alternatives limited to the lot on which the project is located.
- ☐ Alternatives limited to the lot on which the project is located, the subdivided lots, and any adjacent lots formerly or presently owned by the same owner.
- ☐ Alternatives limited to the original parcel on which the project is located, the subdivided parcels, any adjacent parcels, and any other land which can reasonably be obtained within the municipality.
- ☐ Alternatives extend to any sites which can reasonably be obtained within the appropriate region of the state.

Negative Determination

Note: No further action under the Wetlands Protection Act is required by the applicant. However, if the Department is requested to issue a Superseding Determination of Applicability, work may not proceed on this project unless the Department fails to act on such request within 35 days of the date the request is post-marked for certified mail or hand delivered to the Department. Work may then proceed at the owner's risk only upon notice to the Department and to the Conservation Commission. Requirements for requests for Superseding Determinations are listed at the end of this document.

- ☐ 1. The area described in the Request is not an area subject to jurisdiction under the Act or the Buffer Zone.
- ☐ 2. The work described in the Request is within an area subject to jurisdiction under the Act, but will not remove, fill, dredge, or alter that area. Therefore, said work does not require the filing of a Notice of Intent.
- ☐ 3. The work described in the Request is within the Buffer Zone, as defined in the regulations, but will not alter an Area subject to jurisdiction under the Act. Therefore, said work does not require the filing of a Notice of Intent, subject to the following conditions (if any).

- ☐ 4. The work described in the Request is not within an Area subject to jurisdiction under the Act (including the Buffer Zone). Therefore, said work does not require the filing of a Notice of Intent, unless and until said work alters an Area subject to jurisdiction under the Act.



Massachusetts Department of Environmental Protection

Bureau of Water Resources - Wetlands

WPA Form 2 – Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Holyoke
Municipality

B. Determination (cont.)

- ☒ 5. The area described in the Request is subject to jurisdiction under the Act. Since the work described therein meets the requirements for the following exemption, as specified in the Act and the regulations, no Notice of Intent is required:

310 CMR 10.02(2)(b)2.c., o., &p.

Exempt Activity (site applicable statutory/regulatory provisions)

- ☐ 6. The area and/or work described in the Request is not subject to additional review and approval by:

Name of Municipality

Pursuant to a municipal wetlands' ordinance or bylaw.

Name

Ordinance or Bylaw Citation

C. Authorization

This Determination is issued to the applicant and delivered as follows:

- ☒ By hand delivery on ☐ By certified mail, return receipt request on

4/24/2026

Date

Date

Certified Mail Number

A copy of this Determination has been sent on the same date, considered the date of issuance, **to** the appropriate DEP Regional Office and the property owner (if not the applicant) in the manner as follows:

DEP

- ☒ By [eDEP DOA Submittal Platform](#) (Attach this form and supporting documents)

- ☐ By USPS mail

- ☐ By hand delivery

Date

Date

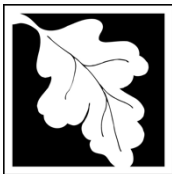
Property Owner (if not applicant)

- ☐ By mail

- ☐ By hand delivery

Date

Date


Massachusetts Department of Environmental Protection

Bureau of Water Resources - Wetlands

WPA Form 2 – Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

 Holyoke
 Municipality

C. Authorization (cont.)

This Determination is valid for **three years** from the date of issuance (except Determinations for Vegetation Management Plans which are valid for the duration of the Plan). This Determination does not relieve the applicant from complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.

This Determination must be signed by a majority of the Conservation Commission. As noted above, a copy must be sent to the appropriate DEP Regional Office (see <https://www.mass.gov/service-details/massdep-regional-offices-by-community>) and the property owner (if different from the applicant) on the same date that the Applicant is issued this Determination.

The names typed below represent the intent to sign the foregoing document in accordance with MGL Chapter 110G §9 Duly Authorized by Ch. 110G and recorded at Hampden County Registry of Deeds in Book 23304, Page 255

Issuing Authority

Signatures:

Bernice Bowler

Signature

Jeffrey Horan

Signature

Mary Moriarty

Signature

Rosemary Arnold

Signature

Patricia Normand

Signature

Michael Dodge

Signature

Signature

Bernice Bowler

Printed Name

Jeffrey Horan

Printed Name

Mary Moriarty

Printed Name

Rosemary Arnold

Printed Name

Patricia Normand

Printed Name

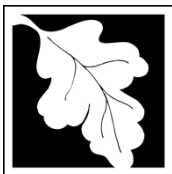
Michael Dodge

Printed Name

Printed Name

D. Appeals

The applicant, owner, any person aggrieved by this Determination, any owner of land abutting the land upon which the proposed work is to be done, or any ten residents of the city or town in which such land is located, are hereby notified of their right to request the appropriate Department of Environmental Protection Regional Office (see <https://www.mass.gov/service-details/massdep-regional-offices-by-community>) to issue a Superseding Determination of Applicability. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and Fee Transmittal Form (see Request for Departmental Action Fee Transmittal Form) as provided in 310 CMR 10.03(7) within ten business days from the date of issuance of this Determination. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant if he/she is not the appellant. The request shall state clearly and concisely the objections to the Determination which is being appealed. To the extent that the Determination is based on a municipal ordinance or bylaw and not on the Massachusetts Wetlands Protection Act or regulations, the Department of Environmental Protection has no appellate jurisdiction.



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
Request for Departmental Action Fee
Transmittal Form

DEP File Number:

Provided by DEP

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

A. Request Information

1. Location of Project

a. Street Address

b. City/Town, Zip

c. Check number

d. Fee amount

2. Person or party making request (if appropriate, name the citizen group's representative):

Name

Mailing Address

City/Town

State

Zip Code

Phone Number

Fax Number (if applicable)

3. Applicant (as shown on Determination of Applicability (Form 2), Order of Resource Area Delineation (Form 4B), Order of Conditions (Form 5), Restoration Order of Conditions (Form 5A), or Notice of Non-Significance (Form 6)):

Name

Mailing Address

City/Town

State

Zip Code

Phone Number

Fax Number (if applicable)

4. DEP File Number:

Important:
 When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.

**B. Instructions**

1. When the Departmental action request is for (check one):

- ☐ Superseding Order of Conditions – Fee: \$120 (single family house projects) or \$245 (all other projects)
- ☐ Superseding Determination of Applicability – Fee: \$120
- ☐ Superseding Order of Resource Area Delineation – Fee: \$120

Send this form and check or money order, payable to the *Commonwealth of Massachusetts*, to:

Department of Environmental Protection
 Box 4062
 Boston, MA 02211



Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
Request for Departmental Action Fee
Transmittal Form

DEP File Number:

Provided by DEP

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Instructions (cont.)

2. On a separate sheet attached to this form, state clearly and concisely the objections to the Determination or Order which is being appealed. To the extent that the Determination or Order is based on a municipal bylaw, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no appellate jurisdiction.
3. Send a **copy** of this form and a **copy** of the check or money order with the Request for a Superseding Determination or Order by certified mail or hand delivery to the appropriate DEP Regional Office (see <https://www.mass.gov/service-details/massdep-regional-offices-by-community>).
4. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant, if he/she is not the appellant.

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Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

WPA Form 2 – Determination of Applicability

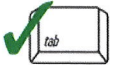
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

West Springfield
Municipality

A. General Information

Important:

When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.



From:

West Springfield
Conservation Commission

To: Applicant

Patricia Leavenworth

Name

MassDOT District 2

Mailing Address

811 N. King Street MA 01060

City/Town State Zip Code

Northampton

Phone Number

413-560-0535

Email Address

Property Owner (if different from applicant):

Name

Mailing Address

City/Town State Zip Code

Phone Number

maxfield.w.phaneuf@dot.state.ma.us

Email Address (if known)

1. Project Location:

Interstate 91 (I-91) within layout

Street Address

42.15432

Latitude (Decimal Degrees Format with 5 digits after decimal e.g. XX.XXXXX)

Lenear no Parcel ID

Assessors Map/Plat Number

West Springfield

City/Town

-72.64814

Longitude (Decimal Degrees Format with 5 digits after decimal e.g. -XX.XXXXX)

No ID

Parcel/Lot Number

[How to find Latitude and Longitude](#)

[and how to convert to decimal degrees](#)

2. Date Request Filed:

3/30/2026

B. Determination

Pursuant to the authority of M.G.L. c. 131, § 40, the Conservation Commission considered your Request for Determination of Applicability, with its supporting documentation, and made the following Determination.

Project Description (if applicable):

Pavement Preservation and related work within the Highway layout on Interstate 91 (I-91) in West Springfield

Title and Date (or Revised Date if applicable) of Final Plans and Other Documents:

Request for Determination of Applicability package that included supporting pla arch 30, 2026

Title Date

Title Date

Title Date



Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

WPA Form 2 – Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

West Spring
Municipality

B. Determination (cont.)

The following Determination(s) is/are applicable to the proposed site and/or project relative to the Wetlands Protection Act and regulations:

Positive Determination

Note: No work within the jurisdiction of the Wetlands Protection Act may proceed until a final Order of Conditions (issued following submittal of a Notice of Intent or Abbreviated Notice of Intent) has been received from the issuing authority (i.e., Conservation Commission or the Department of Environmental Protection).

- ☐ 1. The area described on the referenced plan(s) is an area subject to jurisdiction under the Act. Removing, filling, dredging, or altering of the area requires the filing of a Notice of Intent.
- ☐ 2a. The boundary delineations of the following resource areas described on the referenced plan(s) are confirmed as accurate. Therefore, the resource area boundaries confirmed in this Determination are binding as to all decisions rendered pursuant to the Wetlands Protection Act and its regulations regarding such boundaries for as long as this Determination is valid.
- ☐ 2b. The boundaries of Wetlands Resource Area(s) and Buffer Zone(s) listed below are not confirmed by this Determination, regardless of whether such boundaries are contained on the plans attached to this Determination or to the Request for Determination.
- ☐ 3. The work described on referenced plan(s) and document(s) is within an area subject to jurisdiction under the Act and will remove, fill, dredge, or alter that area. Therefore, said work requires the filing of a Notice of Intent.
- ☐ 4. The work described on referenced plan(s) and document(s) is within the Buffer Zone and will alter an Area subject to jurisdiction under the Act. Therefore, said work requires the filing of a Notice of Intent
- ☐ 5. The area and/or work described on referenced plan(s) and document(s) is subject to review and approval by:

Name of Municipality

Pursuant to the following municipal wetland ordinance or bylaw:

Name

Ordinance or Bylaw Citation



Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

WPA Form 2 – Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

West Springfield
Municipality

B. Determination (cont.)

- ☐ 6. The following area and/or work, if any, is subject to a municipal ordinance or bylaw but not subject to the Massachusetts Wetlands Protection Act:
- ☐ 7. If a Notice of Intent is filed for the work in the Riverfront Area described on referenced plan(s) and document(s), which includes all or part of the work described in the Request, the applicant must consider the following alternatives. (Refer to the wetland regulations at 10.58(4)(c) 2. for more information about the scope of alternatives requirements):
- ☐ Alternatives limited to the lot on which the project is located.
 - ☐ Alternatives limited to the lot on which the project is located, the subdivided lots, and any adjacent lots formerly or presently owned by the same owner.
 - ☐ Alternatives limited to the original parcel on which the project is located, the subdivided parcels, any adjacent parcels, and any other land which can reasonably be obtained within the municipality.
 - ☐ Alternatives extend to any sites which can reasonably be obtained within the appropriate region of the state.

Negative Determination

Note: No further action under the Wetlands Protection Act is required by the applicant. However, if the Department is requested to issue a Superseding Determination of Applicability, work may not proceed on this project unless the Department fails to act on such request within 35 days of the date the request is post-marked for certified mail or hand delivered to the Department. Work may then proceed at the owner's risk only upon notice to the Department and to the Conservation Commission. Requirements for requests for Superseding Determinations are listed at the end of this document.

- ☐ 1. The area described in the Request is not an area subject to jurisdiction under the Act or the Buffer Zone.
- ☒ 2. The work described in the Request is within an area subject to jurisdiction under the Act, but will not remove, fill, dredge, or alter that area. Therefore, said work does not require the filing of a Notice of Intent.
- ☐ 3. The work described in the Request is within the Buffer Zone, as defined in the regulations, but will not alter an Area subject to jurisdiction under the Act. Therefore, said work does not require the filing of a Notice of Intent, subject to the following conditions (if any).
- ☐ 4. The work described in the Request is not within an Area subject to jurisdiction under the Act (including the Buffer Zone). Therefore, said work does not require the filing of a Notice of Intent, unless and until said work alters an Area subject to jurisdiction under the Act.



Massachusetts Department of Environmental Protection
Bureau of Water Resources - Wetlands

WPA Form 2 – Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

West Spring
Municipality

B. Determination (cont.)

- ☐ 5. The area described in the Request is subject to jurisdiction under the Act. Since the work described therein meets the requirements for the following exemption, as specified in the Act and the regulations, no Notice of Intent is required:

Exempt Activity (site applicable statutory/regulatory provisions)

- ☐ 6. The area and/or work described in the Request is not subject to additional review and approval by:

Name of Municipality

Pursuant to a municipal wetlands' ordinance or bylaw.

Name

Ordinance or Bylaw Citation

C. Authorization

This Determination is issued to the applicant and delivered as follows:

- ☐ By hand delivery on

Date

- ☒ By certified mail, return receipt request on

Date

27 May 2026
9489 0178 9820 3023 3463 65

Certified Mail Number

A copy of this Determination has been sent on the same date, considered the date of issuance, to the appropriate DEP Regional Office and the property owner (if not the applicant) in the manner as follows:

DEP

- ☒ By [eDEP DOA Submittal Platform](#) (Attach this form and supporting documents)

- ☐ By USPS mail

Date

- ☐ By hand delivery

Date

Property Owner (if not applicant)

- ☐ By mail

Date

- ☐ By hand delivery

Date


Massachusetts Department of Environmental Protection

Bureau of Water Resources - Wetlands

WPA Form 2 – Determination of Applicability

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

West Springfield

Municipality

C. Authorization (cont.)

This Determination is valid for **three years** from the date of issuance (except Determinations for Vegetation Management Plans which are valid for the duration of the Plan). This Determination does not relieve the applicant from complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.

This Determination must be signed by a majority of the Conservation Commission. As noted above, a copy must be sent to the appropriate DEP Regional Office (see <https://www.mass.gov/service-details/massdep-regional-offices-by-community>) and the property owner (if different from the applicant) on the same date that the Applicant is issued this Determination.

West Springfield Conservation Commission permit for I-91 Improvements

Issuing Authority

Signatures:

Signature

Signature

Signature

Signature

Signature

Signature

Signature

Printed Name

Printed Name

Printed Name

Printed Name

Printed Name

Printed Name

Printed Name

D. Appeals

The applicant, owner, any person aggrieved by this Determination, any owner of land abutting the land upon which the proposed work is to be done, or any ten residents of the city or town in which such land is located, are hereby notified of their right to request the appropriate Department of Environmental Protection Regional Office (see <https://www.mass.gov/service-details/massdep-regional-offices-by-community>) to issue a Superseding Determination of Applicability. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and Fee Transmittal Form (see Request for Departmental Action Fee Transmittal Form) as provided in 310 CMR 10.03(7) within ten business days from the date of issuance of this Determination. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant if he/she is not the appellant. The request shall state clearly and concisely the objections to the Determination which is being appealed. To the extent that the Determination is based on a municipal ordinance or bylaw and not on the Massachusetts Wetlands Protection Act or regulations, the Department of Environmental Protection has no appellate jurisdiction.



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
Request for Departmental Action Fee
Transmittal Form

DEP File Number: _____

Provided by DEP _____

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

A. Request Information

1. Location of Project

a. Street Address _____

b. City/Town, Zip _____

c. Check number _____

d. Fee amount _____

2. Person or party making request (if appropriate, name the citizen group's representative):

Name _____

Mailing Address _____

City/Town _____

State _____

Zip Code _____

Phone Number _____

Fax Number (if applicable) _____

3. Applicant (as shown on Determination of Applicability (Form 2), Order of Resource Area Delineation (Form 4B), Order of Conditions (Form 5), Restoration Order of Conditions (Form 5A), or Notice of Non-Significance (Form 6)):

Name _____

Mailing Address _____

City/Town _____

State _____

Zip Code _____

Phone Number _____

Fax Number (if applicable) _____

4. DEP File Number: _____

B. Instructions

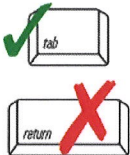
1. When the Departmental action request is for (check one):

- ☐ Superseding Order of Conditions – Fee: \$120 (single family house projects) or \$245 (all other projects)
- ☐ Superseding Determination of Applicability – Fee: \$120
- ☐ Superseding Order of Resource Area Delineation – Fee: \$120

Send this form and check or money order, payable to the *Commonwealth of Massachusetts*, to:

Department of Environmental Protection
 Box 4062
 Boston, MA 02211

Important:
 When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
Request for Departmental Action Fee
Transmittal Form

DEP File Number:

Provided by DEP

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

B. Instructions (cont.)

2. On a separate sheet attached to this form, state clearly and concisely the objections to the Determination or Order which is being appealed. To the extent that the Determination or Order is based on a municipal bylaw, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no appellate jurisdiction.
3. Send a **copy** of this form and a **copy** of the check or money order with the Request for a Superseding Determination or Order by certified mail or hand delivery to the appropriate DEP Regional Office (see <https://www.mass.gov/service-details/massdep-regional-offices-by-community>).
4. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant, if he/she is not the appellant.

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DOCUMENT A00871

**UNITED STATES DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
(USFWS)
NLAA Concurrence Verification Letter**

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United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 3301-5094
Phone: (603) 223-2541 Fax: (603) 223-0104



In Reply Refer To:

05/19/2026 18:39:22 UTC

Project code: 2026-0092195

Project Name: 613314 HOLYOKE- WEST SPRINGFIELD- INTERSTATE PAVEMENT
PRESERVATION AND RELATED WORK ON I-91

Subject: Not Likely to Adversely Affect Concurrence verification letter for the '613314
HOLYOKE- WEST SPRINGFIELD- INTERSTATE PAVEMENT PRESERVATION
AND RELATED WORK ON I-91' project under the December 13, 2024, FHWA,
FRA, FTA Programmatic Biological Opinion for Transportation Projects within the
Range of the Indiana Bat, Northern Long-eared Bat, and Tricolored Bat.

To whom it may concern:

This letter records the determination of effects to federally listed (or proposed) bat species anticipated to result from the 613314 HOLYOKE- WEST SPRINGFIELD- INTERSTATE PAVEMENT PRESERVATION AND RELATED WORK ON I-91 (the Project). This determination is based upon information you entered into the assisted determination key (Dkey) associated with the above referenced Programmatic Biological Opinion/Conference Opinion (PBO/PCO) in the U.S. Fish and Wildlife Service's (Service) Information for Planning and Consultation (IPaC) system on the date listed above to verify that the Project may rely on the concurrence provided in the PBO/PCO to satisfy requirements under section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (16 USC 1536), as amended.

Ensuring Accurate Determinations When Using IPaC:

The Service developed the IPaC system and this Dkey in accordance with the ESA and based on the PBO/PCO. All information submitted by the project proponent into IPaC must accurately represent the full scope and details of the Project.

Failure to accurately represent or implement the Project as detailed in the Dkey invalidates this letter. Answers to certain questions in the Dkey commit the project proponent to implementation of conservation measures that must be followed for the ESA determinations to remain valid. Carefully review this letter, your ESA requirements are NOT yet complete.

Determinations:

Based on the information you provided (Project Description shown below), you have determined that the Project is within the scope and adheres to the criteria of the PBO/PCO, including the adoption of applicable avoidance and minimization measures. Based on your IPaC submission and the PBO/PCO, the Project is consistent with the following effect determinations:

Species	Listing Status	Determination
Tricolored Bat (<i>Perimyotis subflavus</i>)	Proposed Endangered	NLAA

The tricolored bat is proposed for listing as endangered under the ESA, but not yet listed. For actions that may affect a proposed species, agencies cannot consult, but they can confer under the authority of section 7(a)(4) of the ESA. Such conferences can follow the procedures for a consultation and be adopted as such if the proposed species is listed. Should the tricolored bat be listed, agencies must review projects that are not yet complete, or projects with ongoing effects within the tricolored bat range that previously received a no effect or not likely to adversely affect (NLAA) determination from the key to confirm that the determination is still accurate.

The Service has 14 calendar days to notify the lead Federal action agency or designated non-federal representative if we determine that the Project does not meet the criteria for a NLAA determination under the PBO/PCO. **If the Service does not notify the lead Federal action agency or designated non-federal representative within that timeframe, you may proceed with the Project under the terms of the NLAA concurrence provided in the PBO/PCO.** This verification period allows Service Field Offices to apply local knowledge to implementation of the PBO, as we may identify a small subset of actions having impacts that were unanticipated. In such instances, Service Field Offices may request additional information that is necessary to verify inclusion of the proposed action under the PBO/PCO.

If the Project is modified, or new information reveals that it may affect the Indiana bat, northern long-eared bat, or tricolored bat in a manner or to an extent not considered in the PBO/PCO, further review to conclude the requirements of ESA section 7(a)(2) may be required.

For Proposed Actions that include bridge/culvert or structure removal, replacement, and/or maintenance activities:

If your initial bridge, culvert, or structure assessment failed to detect Indiana bat, northern long-eared bat, or tricolored bat use or occupancy, yet bats are later detected prior to, or during construction, promptly notify the local Service Field Office within 2 working days of the discovery. In addition, please document whether incidental take occurred, and if so, the type (i.e. kill or harm) and amount (i.e. number of individuals) and submit documentation to the local Service Field Office within 5 working days from the completion of the bridge, culvert, or structure construction (use Appendix E - Post Assessment Discovery of Bats at Bridge/Culvert or Structure Form in the [User's Guide](#)). In these instances, potential incidental take of Indiana bats, northern long-eared bats, or tricolored bats may be exempted provided that the take is reported to the Service. In these instances, potential incidental take of Indiana bats, northern long-eared bats, or tricolored bats may be exempted provided that the take is reported to the Service.

If the Project may affect any other federally listed or proposed species and/or designated critical habitat, additional consultation between the lead Federal action agency and this Service Field Office is required for those species/designated critical habitat. If the Project has the potential to take bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act may also be required. In either of these circumstances, please advise the lead Federal action agency to contact this Service Field Office

The following species may occur in your project area and **are not** covered by this determination:

- Monarch Butterfly *Danaus plexippus* Proposed Threatened

PROJECT DESCRIPTION

The following project name and description was collected in IPaC as part of the endangered species review process.

NAME

613314 HOLYOKE- WEST SPRINGFIELD- INTERSTATE PAVEMENT PRESERVATION
AND RELATED WORK ON I-91

DESCRIPTION

613314 HOLYOKE- WEST SPRINGFIELD- INTERSTATE PAVEMENT PRESERVATION
AND RELATED WORK ON I-91

MassDOT proposes pavement preservation on a 4.4-mile section of I-91 from Holyoke to West

Springfield. The project area on I-91 NB extends from MM 10.5 to MM 14.9 and on I-91 SB from

MM 39.96 to MM 44.37. The project work includes pavement milling, pavement markings, and

adjusting drainage structures. No archaeological sensitivity can be ascribed to the project's area of

potential effect.

Monarch Butterfly: Due to MassDOT's enrollment in the Monarch Butterfly Nationwide CCAA, the action is Not Likely to Jeopardize the continued existence of the monarch butterfly.

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@42.1792681,-72.64239921920584,14z>



DETERMINATION KEY RESULT

Based on your answers provided, this project(s) may affect, but is not likely to adversely affect the Indiana bat, northern long-eared bat or tricolored bat, therefore, consultation with the U.S. Fish and Wildlife Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended 16 U.S.C. 1531 et seq.) is required. However, also based on your answers provided, this project may rely on the concurrence provided in the Programmatic Biological Opinion/Conference Opinion for Transportation Projects in the Range of the Indiana bat, northern long-eared bat, and tricolored bat, dated December 13, 2024.

QUALIFICATION INTERVIEW

1. Which Federal Agency is the lead federal agency the action?

A) Federal Highway Administration (FHWA)

2. Does the Action Area intersect the species list area of the tricolored Bat (TCB)?

Automatically answered

Yes

3. [Semantic] Is any portion of the action area within a 0.5 mile radius of an entrance/opening to any known NLEB or TCB hibernacula?

Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact the Field Office listed in the letterhead of this letter.

Automatically answered

No

4. Does the action area overlap with any state where bats may use talus or anthropogenic or naturally formed rock crevices in rocky outcrops, rock faces or cliffs for hibernation?

Automatically answered

Yes

5. Does the action area contain or occur within 0.5 miles of (1) talus or (2) anthropogenic or naturally formed rock crevices in rocky outcrops, rock faces or cliffs?

No

6. Does your project's activities include raising the road profile above the tree canopy in documented habitat for the Indiana bat, NLEB, or TCB?

Note: For the definition of documented habitat, refer to Appendix A: <https://www.fws.gov/media/users-guide-range-wide-programmatic-consultation-indiana-bat-and-northern-long-eared-bat>

No

7. Is your project located within a karst area?

No

8. Will the project include bridge, culvert, or structure removal, replacement, and/or alteration activities?

Note: For definitions of bridge, culvert, and structure, refer to Appendix A: <https://www.fws.gov/media/users-guide-range-wide-programmatic-consultation-indiana-bat-and-northern-long-eared-bat>.

No

9. Do your project's activities involve tree removal/trimming, temporary lighting, new/additional permanent lighting, ground disturbance, percussives that involves noise/vibration above existing background levels, vibrations, or slash pile burning?

Yes

10. Is there suitable summer habitat for the Indiana bat, NLEB, or TCB within the project action area?

Note: See the Service's summer survey guidance for current definitions of suitable habitat [<https://www.fws.gov/midwest/endangered/mammals/inba/inbasummersurveyguidance.html>].

Yes

11. Have P/A surveys for the Indiana bat, NLEB, or TCB been conducted within the suitable summer habitat located within your project action area? This refers to mist-netting or acoustic surveys, not bridge assessments.

Note: See the Service's survey guidance <https://www.fws.gov/midwest/endangered/mammals/inba/inbasummersurveyguidance.html>

No

12. Will the project involve the removal or trimming of trees within suitable habitat for the Indiana bat, NLEB, or TCB?

Yes

13. Will any tree removal or trimming occur during the bat pup season?

Note: For more information about bat pup seasons please visit https://www.fws.gov/sites/default/files/documents/2024-10/2024_usfws_rangewide_ibat-nleb_survey_guidelines.pdf

No

14. Will the removal or trimming of trees occur **within documented habitat** for the Indiana bat, NLEB, or TCB?

Note: For the definition of documented habitat, refer to Appendix A: <https://www.fws.gov/media/users-guide-range-wide-programmatic-consultation-indiana-bat-and-northern-long-eared-bat>

No

15. Will all tree removal or trimming occur within 100 feet of the road or rail surface?

Yes

16. Does your project include activities involving the temporary or permanent exclusion of Indiana bats, NLEBs, or TCBs from a bridge/culvert or structure that is occupied by a large number of covered bats (>5)?

Note: exclusion is conducted to deny bats' entry or reentry into a bridge/culvert or structure. To be effective and to avoid harming bats, it should be done according to established standards. Coordinate with the local Service Field Office for additional assistance.

No

17. Does your project involve the use of temporary lighting within Indiana bat, NLEB, or TCB suitable habitat?

Note: For the definition of lighting, refer to Appendix A: <https://www.fws.gov/media/users-guide-range-wide-programmatic-consultation-indiana-bat-and-northern-long-eared-bat>

Yes

18. Will the use of temporary lighting be conducted during the Indiana bat, NLEB, or TCB active season?

Note: For the definition of active season, refer to Appendix A: <https://www.fws.gov/media/users-guide-range-wide-programmatic-consultation-indiana-bat-and-northern-long-eared-bat>

Yes

19. Will temporary lighting be directed away from Indiana bat, NLEB, or TCB suitable habitat)?

Yes

20. Will the project substantially increase baseline light conditions via the use of permanent lighting (replacement or new/additional) in suitable habitat.

No

21. Will your project include percussive activities?

Note: Refer to Stressor #2 Noise/Vibration on page 109 of the PBO/PCO.

Yes

22. Are the percussive activities only related to tree removal/trimming or bridge/culvert structural work?

No

23. Will the percussive activities involve noise/vibration above existing background levels?

Note: For example, pile driving, rock drilling, hoe ramming, jackhammering, and blasting are examples of percussive activities that cause noise/vibration above existing background levels

No

24. Will the project involve the removal or trimming of more than 20 acres of Indiana bat, NLEB, or TCB suitable habitat per 5-mile section of road/rail?

No

25. Will the removal or trimming of trees occur within 0.5 miles of a known Indiana bat, NLEB, or TCB hibernaculum?

No

26. Will the removal or trimming of these trees occur during the active season?

Note: For the definition of active season, refer to Appendix A: <https://www.fws.gov/media/users-guide-range-wide-programmatic-consultation-indiana-bat-and-northern-long-eared-bat>

No

27. Will the removal or trimming of trees occur **beyond 100 feet** of the existing road/rail surfaces?

No

28. Does the Action Area intersect the species list area of the tricolored Bat (TCB)?

Automatically answered

Yes

PROJECT QUESTIONNAIRE

1. Have you made a No Effect determinations for all other species included on the FWS IPaC generated species list?

Yes

2. Have you made a May Affect determination for any other species on the FWS IPaC generated list?

No

3. How many acres of trees are proposed for removal/trimming **outside of documented habitat** for the Indiana bat, NLEB, or TCB within 100 feet of the existing road/rail surfaces during the inactive season (NLAA)?

Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number. If all the tree removal will occur in the year-round active area, answer "0."

0.75

4. How many acres of trees are proposed for removal/trimming **outside of documented habitat** for the Indiana bat, NLEB, or TCB within 100 feet of the existing road/rail surfaces during the active season (**outside the pup season and not between Dec 15th-Feb 15th in Zone 1 of the NLEB and TCB YR active areas**) (LAA)?

Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

0

5. How many acres of trees are proposed for removal/trimming **outside of documented habitat** for the Indiana bat, NLEB, or TCB within 100 feet of the existing road/rail surfaces during the pup season (**trees must be <9 in DBH, and not between Dec 15th-Feb 15th in Zone 1 of the NLEB and TCB YR active areas**) (LAA)?

Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

0

6. How many acres of trees are proposed for removal/trimming **either outside or within documented habitat** for the Indiana bat, NLEB, or TCB between 100-300 feet of the existing road/rail surface during the inactive season (LAA)? Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number. If all the tree removal will occur in the year-round active area, answer "0."

0

7. How many acres of trees are proposed for removal/trimming **either outside or within documented habitat** for the Indiana bat, NLEB, or TCB between 100-300 feet of the existing road/rail surfaces during the active season (**outside the pup season, and not between Dec 15-Feb 15 in Zone 1 of the NLEB and TCB YR active areas**) (LAA)?

Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

0

8. How many acres of trees are proposed for removal/trimming **either outside or within documented habitat** for the Indiana bat, NLEB, or TCB beyond 300 feet of the existing road/rail surfaces during the inactive season (LAA)?

Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number. If all the tree removal will occur in the year-round active area, answer "0."

0

9. How many acres of trees are proposed for removal/trimming **either outside or within documented habitat** for the Indiana bat, NLEB, or TCB beyond 300 feet of the existing road/rail surfaces during the active season (**outside the pup season, and not between Dec 15th-Feb 15th in Zone 1 of the NLEB and TCB YR active areas**) (LAA)?

Note: If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

0

AVOIDANCE AND MINIMIZATION MEASURES (AMMS)

This determination key result includes the commitment to implement the following Avoidance and Minimization Measures (AMMs):

GAMM1

Ensure all operators, employees, and contractors working in areas of Indiana bat, NLEB, or TCB suitable habitat are aware of all Transportation Agency environmental commitments, including all applicable AMMs.

LAMM1

Direct temporary lighting away from suitable habitat during the active season

TRTAMM1

Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to the extent practicable to avoid tree removal/trimming in excess of what is required to implement the project safely.

TRTAMM2

Ensure tree removal/trimming is limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g., install bright colored flagging/fencing prior to any tree removal/trimming to ensure contractors stay within clearing limits

TRTAMM3

Ensure tree removal/trimming is limited to the inactive season, occurs within 100 ft of the road/rail surface, and is outside of documented habitat for the Indiana bat, NLEB, and TCB

DETERMINATION KEY DESCRIPTION: FHWA, FRA, FTA PROGRAMMATIC CONSULTATION FOR TRANSPORTATION PROJECTS AFFECTING IBAT, NLEB, OR TCB

This key was last updated in IPaC on May 14, 2026. Keys are subject to periodic revision.

This decision key is intended for projects/activities funded or authorized by the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), and/or Federal Transit Administration (FTA), which may require consultation with the U.S. Fish and Wildlife Service (Service) under Section 7 of the Endangered Species Act (ESA) and may affect the federally listed endangered Indiana bat (*Myotis sodalis*), northern long-eared bat (*Myotis septentrionalis*), and/or federally proposed endangered tricolored bat (*Perimyotis subflavus*).

This decision key should only be used to verify project applicability with the Service's Programmatic Biological Opinion/Conference Opinion for Transportation Projects in the Range of the Indiana bat, northern long-eared bat, and tricolored bat, dated December 13, 2024. The programmatic consultation limited transportation activities that may affect the covered bat species and addresses situations that are both likely and not likely to adversely affect the covered bat species. This decision key will assist in identifying the effect of a specific project/activity and the applicability of the programmatic consultation. The programmatic consultation is not intended to cover all types of transportation actions. Activities outside the scope of the programmatic consultation, or that may affect ESA-listed species other than the Indiana bat, northern long-eared bat, or tricolored bat, or their designated critical habitat, may require additional ESA Section 7 consultation.

IPAC USER CONTACT INFORMATION

Agency: Massachusetts Department of Transportation

Name: Trevor Burns

Address: 10 Park Plaza

City: Boston

State: MA

Zip: 02116

Email: trevor.b.burns@dot.state.ma.us

Phone: 8573010759

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Highway Administration

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DOCUMENT A00875

**POLICY DIRECTIVE P-22-001
AND
POLICY DIRECTIVE P-22-002**

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Number: P-22-001Date: 9/23/22

POLICY DIRECTIVE

Jonathan Gulliver (signature on original)

HIGHWAY ADMINISTRATOR

Off-Site Stockpiling of Soil from MassDOT Construction Projects

Purpose

The purpose of this Policy Directive is to formally establish a policy and procedures for managing and stockpiling soil generated and transported from MassDOT construction projects. This Policy Directive does not supersede any Federal, State, or Local regulations.

Date of Effect

This Policy Directive is effective immediately for all projects, including active construction projects.

For active construction projects and for other projects advertised prior to October 15, 2022, changes to the contract documents needed to implement the requirements of this Policy Directive will be considered on a case-by-case basis and shall be approved by the District Highway Director, as necessary.

For projects advertised on or after October 15, 2022, MassDOT will include the requirements and implementation procedures of this Policy Directive in the construction contract documents.

Policy Requirements

This policy is intended to prevent the off-site relocation of excavated soil generated from MassDOT projects to areas near residential receptors and to control potential fugitive dusts and/or contaminants. To that end, excavated soil may not be moved from the project site without knowledge of the content of the material. Knowledge may include visual field observations for presence of staining, odor, and/or debris, screening with a photoionization detector (PID), laboratory analysis, and/or site history. Pavement millings and other non-soil materials are not subject to the requirements of this Policy Directive.

Moving soil from a MassDOT project site to a temporary off-site storage location must be approved in writing by the District Highway Director.

The Contractor must select a storage location that is at least 500 feet away from residential receptors, as defined herein to include, but not be limited to, residential dwellings, residentially

zoned property, schools, daycare facilities, playgrounds, parks, recreational areas, hospitals, elderly housing and convalescent facilities.

Temporary off-site storage of excavated soil from a MassDOT project is only permissible at a location approved and permitted by MassDOT. The temporary storage location should be located within the same municipality where the soil was excavated, where possible. Stockpiled soil must be securely covered, and appropriate measures must be taken to minimize fugitive dust and erosion.

Signs indicating the source of the soil, the date the soil was generated, and contact information must be erected and maintained until the stockpiled soils are transported to a disposal facility or reused on the project site.

Implementation Procedures

To ensure that off-site storage of excavated soils is managed properly on MassDOT projects, this policy requires the following:

1. Off-Site Stockpile Storage Locations

- a. The Contractor shall provide proposed off-site storage locations to the Engineer for approval at least 30 days prior to transporting soil off site. Off-site storage locations should be in the same municipality as the work site.
- b. The Contractor shall keep excavated soil on site until adequately characterized to the satisfaction of the Engineer.
- c. The Contractor shall provide notification of the approved off-site storage location to the local Board of Health and the Town Manager's/Mayor's Office at least 7-days prior to transporting soil off site.
- d. The Contractor shall provide the Engineer with at least 3-days' notice prior to transporting soil off site.
- e. For off-site storage locations on MassDOT property, the Contractor is required to obtain an Access Permit through the District Permits Office prior to storage of soil or other materials. MassDOT will issue these permits at no cost to the Contractor. Information to be submitted by the Contractor as part of the permit application shall include:
 - i. A description of material to be stored off-site, including available analytical data;
 - ii. A figure of the location with distances to residences and residential receptors; and
 - iii. Anticipated duration of temporary storage.
- f. Stockpile locations should not be within 500 feet of residential receptors (e.g., residential dwellings, residentially zoned property, schools, daycare facilities, playgrounds, parks, recreational areas, hospitals, elderly housing and convalescent facilities).
 - i. If the stockpile location must be within 500 feet of residential receptors, then soil must be less than RCS-1 (per 310 CMR 40.1600) and free of potentially hazardous or regulated items.

- g. For off-site storage locations on non-MassDOT property, the Contractor must notify the property owner(s) at least 7 days prior to transporting material.
- h. Exceptions to these rules will be reviewed by MassDOT and may be approved by the District Highway Director on a case-by-case basis.

2. Off-Site Stockpile Management

- a. The Contractor shall keep soil stockpiles on impermeable surfaces (e.g., asphalt or concrete) or on 10-mil polyethylene sheeting.
- b. The Contractor shall cover soil stockpiles with 10-mil polyethylene sheeting and surround with a berm made of hay bales, straw wattles, or similar.
 - i. Piles that are actively being worked on must be covered and re-secured at the end of the work shift.
- c. The Contractor shall label stockpiles with signs, including:
 - i. Location of origin (including any Release Tracking Numbers)
 - ii. Stockpile ID number (including MassDOT District office-assigned tracking ID, if different)
 - iii. Date of initial accumulation
 - iv. Applicable telephone numbers for the Contractor and MassDOT.
- d. The Contractor shall mitigate fugitive dust at storage locations under the direction of an appropriately trained/certified environmental professional.
- e. The Contractor shall remedy noncompliance with this policy within 48 hours.
- f. The Contractor shall remedy noncompliance with this policy on the SAME DAY for potentially hazardous material, as determined by the Engineer.
- g. The Contractor shall handle excavated soil according to federal, state, and local regulations.
- h. The Contractor shall use appropriate shipping documents for all movements of excavated soil on public roadways (e.g., Bill of Lading, Material Shipping Record, Manifest, Asbestos Waste Shipment Record, etc.).

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Number: P-22-002Date: 9/23/22

POLICY DIRECTIVE

Jonathan Gulliver (signature on original)

HIGHWAY ADMINISTRATOR

Use of MassDOT Property for Staging and other Construction-Related Operations

Purpose

This Policy Directive is intended to address the use of MassDOT property by MassDOT Contractors for construction staging and other construction-related operations that are not specifically defined in the construction contract. Such use of MassDOT property will only be allowed if permitted by the District Office in accordance with 700 CMR 13.00, Approval of Access to MassDOT Highways and Other Property. This includes the use of MassDOT property for staging, laydown, and storage of equipment and materials, including soil excavated from a project site.

This Policy Directive requires the Contractor/applicant to obtain a Non-Vehicular Access Permit from MassDOT to use MassDOT property for these purposes.

This Policy Directive is effective immediately and applies to all MassDOT construction projects.

General Permit Considerations and Conditions

In addition to other normal MassDOT Access Permit procedures, MassDOT shall consider the following during the application, review, implementation and monitoring processes of Access Permits required by this Policy Directive:

- Storage and placement of the Contractor's equipment and materials should not be allowed within the clear zone of the roadway.
- Stockpiled soils should not be located within 500 feet of residential receptors, as defined herein to include, but not be limited to, residential dwellings, residentially zoned property, schools, daycare facilities, playgrounds, parks, recreational areas, hospitals, elderly housing and convalescent facilities.
- The Contractor/applicant shall identify the access/egress locations of the proposed storage areas. MassDOT will only approve locations determined to be safe for roadway users, construction workers and the general public.
- The Contractor may be required to submit a Traffic Management Plan and/or Lighting Plan for MassDOT review and approval as part of the permit application, depending on the proposed use of the area.

- The Contractor shall submit the permit application through MassDOT's online State Highway Access Permit System (SHAPS).
- MassDOT will waive the permit application fee for any application received from a MassDOT Contractor for any permit required by this Policy Directive and will waive any subsequent amendment and extension fees that may otherwise be required.
- MassDOT will review the permit application in accordance with applicable standard procedures and will apply standard permit terms and conditions, as necessary.
- The Resident Engineer will verify that the permit is approved before allowing the Contractor to use the affected area for the requested purpose.
- Areas permitted are for use by the approved applicant only and are not to be shared with or used by other vendors. Subcontractors specifically engaged with the applicant working on the specific MassDOT project will be allowed to use the area in accordance with the terms of the permit.
- Permits are issued on an annual basis and will require the Contractor to file for an extension each year to continue use.

Exemptions from Permit Requirements

Equipment and materials being used for active construction operations and located within the work zone of the construction contract are exempt from this permit requirement, provided they do not interfere with the safety or operation of the roadway or the work zone. Examples of these types of exempt uses are:

- Equipment and materials parked or stored within a protected (barriered) work zone.
- Materials placed in the work zone prior to same-day installation or use.
- Soils excavated temporarily and scheduled to be replaced, such as for trenching operations or for installation of drainage structures.

DOCUMENT B00420

PROPOSAL

HOLYOKE-WEST SPRINGFIELD

For: **Interstate Pavement Preservation and Related Work on I-91**

COMMONWEALTH OF MASSACHUSETTS

LOCATION

The work referred to herein is in the Municipalities of HOLYOKE and WEST SPRINGFIELD in Hampden County, in the Commonwealth of Massachusetts, and is shown by the locus map (Document 00331) in the Proposal Pamphlet, the work locations extend as follows:

Interstate I-91

Beginning – Mile Marker 10.5

Ending – Mile Marker 14.9

The contract prices shall include the furnishing of all materials (except as otherwise herein specified), the performing of all the labor requisite or proper, the providing of all necessary machinery, tools, apparatus and other means of construction, the doing of all the abovementioned work in the manner set forth, described and shown in the specifications and on the drawings for the work, and in the form of contract, and the completion thereof within **680 CALENDAR DAYS** upon receipt of a Notice to Proceed, except that if the completion date falls between December 1 and March 15 then the same number of days beyond December 1st will be extended after March 15th.

The Work of this project is described by the following Items and quantities.

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Project # 613314		Contract # 136483		
Location : HOLYOKE - WEST SPRINGFIELD				
Description : Interstate Pavement Preservation and Related Work on I-91				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
101.1	0.5	CLEARING AT _____ PER ACRE		
102.1	500	TREE TRIMMING AT _____ PER FOOT		
106.15	2	BLEEDER (BRIDGE DECK) PVC AT _____ EACH		
106.16	1	BRIDGE DECK DRAIN PVC PIPE EXTENSION AT _____ EACH		
120.	25	EARTH EXCAVATION AT _____ PER CUBIC YARD		
127.1	50	REINFORCED CONCRETE EXCAVATION AT _____ PER CUBIC YARD		
127.4	985	REINFORCED CONCRETE DECK EXCAVATION (FULL DEPTH) AT _____ PER SQUARE YARD		
127.41	130	REINFORCED CONCRETE DECK EXCAVATION (PARTIAL DEPTH) AT _____ PER CUBIC YARD		
129.6	7,960	BRIDGE PAVEMENT EXCAVATION AT _____ PER SQUARE YARD		

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ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
151.	5	GRAVEL BORROW AT _____ PER CUBIC YARD		
180.01	1	ENVIRONMENTAL HEALTH AND SAFETY PROGRAM AT _____ LUMP SUM		
180.02	8	PERSONAL PROTECTION LEVEL C UPGRADE AT _____ PER HOUR		
180.03	40	LICENSED SITE PROFESSIONAL SERVICES AT _____ PER HOUR		
181.11	165	DISPOSAL OF UNREGULATED SOIL AT _____ PER TON		
181.12	20	DISPOSAL OF REGULATED SOIL - IN-STATE FACILITY AT _____ PER TON		
181.13	20	DISPOSAL OF REGULATED SOIL - OUT-OF-STATE FACILITY AT _____ PER TON		
181.14	5	DISPOSAL OF HAZARDOUS WASTE AT _____ PER TON		
220.	106	DRAINAGE STRUCTURE ADJUSTED AT _____ EACH		

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ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
220.01	6	2 FT X 4 FT DROP INLET ADJUSTED AT _____ EACH		
220.02	1	2 FT X 4 FT DROP INLET TOP REBUILT AT _____ EACH		
220.2	80	DRAINAGE STRUCTURE REBUILT AT _____ PER FOOT		
221.1	1	FRAME AND COVER - SECURED AT _____ EACH		
222.	1	FRAME AND GRATE - MASSDOT BAR TYPE AT _____ EACH		
223.2	2	FRAME AND GRATE (OR COVER) REMOVED AND DISCARDED AT _____ EACH		
227.3	270	REMOVAL OF DRAINAGE STRUCTURE SEDIMENT AT _____ PER CUBIC YARD		
227.31	1,820	REMOVAL OF DRAINAGE PIPE SEDIMENT AT _____ PER FOOT		
280.2	885	CLEANING PAVED WATERWAYS AT _____ PER SQUARE YARD		

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ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
402.14	135	PAVEMENT MILLING MULCH FOR SHOULDERS AT _____ PER TON		
415.2	93,100	PAVEMENT FINE MILLING AT _____ PER SQUARE YARD		
415.4	530	BRIDGE PAVEMENT MILLING AT _____ PER SQUARE YARD		
415.5	86,385	PAVEMENT MILLING FOR INLAY AT _____ PER FOOT		
450.231	8,105	SUPERPAVE SURFACE COURSE - 12.5 POLYMER (SSC - 12.5 - P) AT _____ PER TON		
451.	130	HMA FOR PATCHING AT _____ PER TON		
452.	7,420	ASPHALT EMULSION FOR TACK COAT AT _____ PER GALLON		
453.	37,035	HMA JOINT ADHESIVE AT _____ PER FOOT		
457.1	55	SUPERPAVE WATERPROOFING SURFACE COURSE - 9.5 (SSC-W-9.5) AT _____ PER TON		

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ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
457.2	1,545	SUPERPAVE WATERPROOFING SURFACE COURSE - 12.5 (SSC-W-12.5) AT _____ PER TON		
470.	5	HOT MIX ASPHALT BERM AT _____ PER TON		
472.	160	TEMPORARY ASPHALT PATCHING AT _____ PER TON		
477.	7,295	MILLED RUMBLE STRIP (TYPE A) AT _____ PER FOOT		
480.2	5,520	PAVEMENT CRACK SEALING - HIGH PERFORMANCE CRACK SEALER AT _____ PER GALLON		
482.2	90	HOT POURED JOINT SEALER AT _____ PER FOOT		
482.31	2,200	SAWING AND SEALING JOINTS IN ASPHALT PAVEMENT AT BRIDGES AT _____ PER FOOT		
486.2	184,200	ULTRATHIN BONDED OVERLAY - TYPE 2 - POLYMER AT _____ PER SQUARE YARD		
490.51	1,250	SLOTTED PAVEMENT MARKER REMOVAL AT _____ EACH		

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ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
492.103	5,140	FOG SEAL POLYMER AT _____ PER GALLON		
510.	20	GRANITE EDGING TYPE SA AT _____ PER FOOT		
514.	1	GRANITE CURB INLET - STRAIGHT AT _____ EACH		
583.	100	EDGING REMOVED AND RESET AT _____ PER FOOT		
595.	1	CURB INLET REMOVED AND DISCARDED AT _____ EACH		
597.	20	EDGING REMOVED AND DISCARDED AT _____ PER FOOT		
620.13	275	GUARDRAIL, TL-3 (SINGLE FACED) AT _____ PER FOOT		
627.1	4	TRAILING ANCHORAGE AT _____ EACH		
627.83	18	GUARDRAIL TANGENT END TREATMENT, TL-3 AT _____ EACH		

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ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
628.21	18	TRANSITION TO NCHRP 350 GUARDRAIL AT _____ EACH		
628.25	4	TRANSITION TO THRIE BEAM AT _____ EACH		
630.2	2,680	HIGHWAY GUARD REMOVED AND DISCARDED AT _____ PER FOOT		
632.	130	GUARDRAIL POST - STEEL AT _____ EACH		
633.	80	GUARDRAIL OFFSET BLOCK - W BEAM AT _____ EACH		
633.1	50	GUARDRAIL OFFSET BLOCK - THRIE BEAM AT _____ EACH		
634.	40	W BEAM GUARD PANEL AT _____ EACH		
634.1	25	THRIE BEAM GUARD PANEL AT _____ EACH		
722.3	1	SCHEDULE OF OPERATIONS (TYPE C) - FIXED PRICE \$80,000 AT Eighty Thousand Dollars LUMP SUM	\$80,000.00	\$80,000.00

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ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
740.	22	ENGINEER'S FIELD OFFICE AND EQUIPMENT (TYPE A) AT _____ PER MONTH		
748.	1	MOBILIZATION AT _____ LUMP SUM		
751.	5	LOAM FOR ROADSIDES AT _____ PER CUBIC YARD		
765.	45	SEEDING AT _____ PER SQUARE YARD		
767.121	200	SEDIMENT CONTROL BARRIER AT _____ PER FOOT		
769.	2,885	PAVEMENT MILLING MULCH UNDER GUARD RAIL AT _____ PER FOOT		
769.1	70	PAVEMENT MILLING MULCH FOR MAINTENANCE AREA AT _____ PER SQUARE YARD		
832.	575	WARNING-REGULATORY AND ROUTE MARKER - ALUMINUM PANEL (TYPE A) AT _____ PER SQUARE FOOT		
833.5	410	DEMOUNTABLE REFLECTORIZED DELINEATOR - GUARD RAIL AT _____ EACH		

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ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
833.7	5	DELINEATION FOR GUARD RAIL TERMINI AT _____ EACH		
834.	11	DEMOUNTABLE REFLECTORIZED REFERENCE LOCATION SIGN AT _____ EACH		
836.5	120	DEMOUNTABLE REFLECTORIZED STATION MARKER AT _____ EACH		
838.1	4	PERMANENT ITS CABINET FACE LABEL AT _____ EACH		
838.2	3	PERMANENT ITS POLE LABEL AT _____ EACH		
838.3	3	PERMANENT ITS DEVICE CABINET TOP LABEL AT _____ EACH		
838.5	7	PERMANENT ITS ELECTRICAL LABEL AT _____ EACH		
847.1	35	SIGN SUP (NOT GUIDE)+RTE MKR W/1 BRKWAY POST ASSEMBLY - STEEL AT _____ EACH		
848.1	15	SIGN SUP (NOT GUIDE)+RTE MKR W/2 BRKWAY POST ASSEMBLIES-STEEL AT _____ EACH		

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ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
851.1	275	TRAFFIC CONES FOR TRAFFIC MANAGEMENT AT _____ PER DAY		
852.	2,400	SAFETY SIGNING FOR TRAFFIC MANAGEMENT AT _____ PER SQUARE FOOT		
853.403	415	TRUCK MOUNTED ATTENUATOR AT _____ PER DAY		
853.8	275	TEMPORARY ILLUMINATION FOR WORK ZONE AT _____ PER DAY		
854.016	144,900	TEMPORARY PAVING MARKINGS - 6 INCH (PAINTED) AT _____ PER FOOT		
854.036	17,670	TEMPORARY PAVING MARKINGS - 6 INCH (TAPE) AT _____ PER FOOT		
854.1	21,180	PAVEMENT MARKING REMOVAL AT _____ PER SQUARE FOOT		
854.6	415	TEMPORARY PORTABLE RUMBLE STRIP AT _____ PER DAY		
856.12	415	PORTABLE CHANGEABLE MESSAGE SIGN AT _____ PER DAY		

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ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
856.196	415	CONNECTED ARROW BOARD (TYPE C) AT _____ PER DAY		
856.201	415	END LOCATION MARKER AT _____ PER DAY		
859.	1,830	REFLECTORIZED DRUM AT _____ PER DAY		
859.1	415	REFLECTORIZED DRUMS WITH SEQUENTIAL FLASHING WARNING LIGHTS AT _____ PER DAY		
862.406	72,470	6 INCH RECESSED WHITE LINE (MC, UFD, WR) AT _____ PER FOOT		
862.412	10,415	12 INCH RECESSED WHITE LINE (MC, UFD, WR) AT _____ PER FOOT		
862.424	2,100	24 INCH RECESSED WHITE LINE (MC, UFD, WR) AT _____ PER FOOT		
863.406	72,220	6 INCH RECESSED YELLOW LINE (MC, UFD, WR) AT _____ PER FOOT		
864.11	2	WORD LEGENDS (PF) AT _____ EACH		

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ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
864.12	1	SYMBOLS (PF) AT _____ EACH		
864.13	7	ARROWS (PF) AT _____ EACH		
864.14	15	OVERSIZED WORD LEGENDS, SYMBOLS, AND ARROWS (PF) AT _____ EACH		
864.31	920	SLOTTED PAVEMENT MARKER ONE-WAY WHITE AT _____ EACH		
864.33	1,825	SLOTTED PAVEMENT MARKER TWO-WAY WHITE/RED AT _____ EACH		
864.34	1,440	SLOTTED PAVEMENT MARKER TWO-WAY YELLOW/RED AT _____ EACH		
865.303	415	DYNAMIC WZ SPEED LIMIT ASSEMBLY AT _____ PER DAY		
865.304	415	WZ SPEED LIMIT ASSEMBLY WITH SPEED FEEDBACK PLAQUE AT _____ PER DAY		
866.606	23,410	6 INCH RECESSED WHITE LINE (PF, WR) AT _____ PER FOOT		

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ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
874.2	1	TRAFFIC SIGN REMOVED AND RESET AT _____ EACH		
874.41	25	TRAFFIC SIGN REMOVED AND DISCARDED AT _____ EACH		
909.3	390	RAPID HARDENING CONCRETE FOR REPAIRS AT _____ PER CUBIC YARD		
910.1	7,880	STEEL REINFORCEMENT FOR STRUCTURES - EPOXY COATED AT _____ PER POUND		
912.	75	DRILLING AND GROUTING DOWELS AT _____ EACH		
964.7	50	EPOXY MORTAR FOR PATCHING AT _____ PER SQUARE FOOT		
966.	200	MEMBRANE WATERPROOFING FOR BRIDGE DECK REPAIRS AT _____ PER SQUARE FOOT		
973.2	1,600	PRE-COMPRESSED JOINT SEAL AT _____ PER FOOT		
994.1	19,050	TEMPORARY PROTECTIVE SHIELDING AT _____ PER SQUARE FOOT		
Total Qty:		867,218.5		

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