

COMMONWEALTH OF MASSACHUSETTS



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# CONTRACT DOCUMENTS AND SPECIAL PROVISIONS

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PROPOSAL NO.	608881-130937
P.V. =	\$10,978,000.00
PLANS	YES

FOR

**Federal Aid Project No. STP-0032(045)X  
Resurfacing and Intersection Improvements on Longmeadow Street (Route 5)  
and Converse Street (0.84 Miles)**

**in the Town and City of**

**LONGMEADOW - SPRINGFIELD**

In accordance with the STANDARD SPECIFICATIONS  
for HIGHWAYS and BRIDGES dated 2025

This Proposal to be opened and read:

**TUESDAY, AUGUST 5, 2025 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](http://www.bidx.com) until the date and time stated below and will be posted on [www.bidx.com](http://www.bidx.com) forthwith after the bid submission deadline. No paper copies of bids will be accepted. All Bidders must have a valid 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](http://www.bidx.com).

**TUESDAY, AUGUST 5, 2025 at 2:00 P.M. \*\*****LONGMEADOW - SPRINGFIELD****Federal Aid Project No. STP-0032(045)X****Resurfacing and Intersection Improvements on Longmeadow Street (Route 5)  
and Converse Street (0.84 Miles)****\*\*Date Subject to Change****PROJECT VALUE = \$10,978,000.00**

Bidders must be pre-qualified by the Department in the HIGHWAY - CONSTRUCTION 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](mailto:prequal.r109@dot.state.ma.us).

Proposal documents for official bidders are posted on [www.bidx.com](http://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](http://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.

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**NOTICE TO CONTRACTORS** (Continued)

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](mailto:MassDOTBidDocuments@dot.state.ma.us).

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.

**NOTICE TO CONTRACTORS** (Continued)**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 \$635.00 per ton, Portland cement \$425.13 per ton, diesel fuel \$2.766 per gallon, and gasoline \$2.453 per gallon, and Steel Base Price Index 340.6. 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](http://WWW.COMMBUYS.COM).

BY: Monica G. Tibbits-Nutt, Secretary and CEO, MassDOT  
Jonathan L. Gulliver, Administrator, MassDOT Highway Division  
SATURDAY, JUNE 28, 2025

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## 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.

- (d) Every contractor awarded a contract by the commonwealth or by any political subdivision thereof shall annually file with the commissioner of capital asset management and maintenance during the term of the contract a financial statement prepared by an independent certified public accountant on the basis of an audit by such accountant. The final statement filed shall include the date of final payment. All statements shall be accompanied by an accountant's report. Such statements shall be made available to the awarding authority upon request.
- (e) The office of inspector general, the commissioner of capital asset management and maintenance and any other awarding authority shall enforce the provisions of this section. The commissioner of capital asset management and maintenance may after providing an opportunity for the inspector general and other interested parties to comment, promulgate pursuant to the provisions of chapter thirty A such rules, regulations and guidelines as are necessary to effectuate the purposes of this section. Such rules, regulations and guidelines may be applicable to all awarding authorities. A contractor's failure to satisfy any of the requirements of this section may be grounds for debarment pursuant to section forty-four C of chapter one hundred and forty-nine.
- (f) Records and statements required to be made, kept or filed under the provisions of this section shall not be public records as defined in section seven of chapter four and shall not be open to public inspection; provided, however, that such records and statements shall be made available pursuant to the provisions of clause (2) of paragraph (b).

**M.G.L. c. 30, § 390: Suspension, Delay, or Interruption or Failure to Act by Awarding Authority; Adjustment in Contract Price; Submission of Claims.**

Section 39O. Every contract subject to the provisions of section thirty-nine M of this chapter or subject to section forty-four A of chapter one hundred forty-nine shall contain the following provisions (a) and (b) in their entirety and, in the event a suspension, delay, interruption or failure to act of the awarding authority increases the cost of performance to any subcontractor, that subcontractor shall have the same rights against the general contractor for payment for an increase in the cost of his performance as provisions (a) and (b) give the general contractor against the awarding authority, but nothing in provisions (a) and (b) shall in any way change, modify or alter any other rights which the general contractor or the subcontractor may have against each other.

- (a) The awarding authority may order the general contractor in writing to suspend, delay, or interrupt all or any part of the work for such period of time as it may determine to be appropriate for the convenience of the awarding authority; provided however, that if there is a suspension, delay or interruption for fifteen days or more or due to a failure of the awarding authority to act within the time specified in this contract, the awarding authority shall make an adjustment in the contract price for any increase in the cost of performance of this contract but shall not include any profit to the general contractor on such increase; and provided further, that the awarding authority shall not make any adjustment in the contract price under this provision for any suspension, delay, interruption or failure to act to the extent that such is due to any cause for which this contract provides for an equitable adjustment of the contract price under any other contract provisions.
- (b) The general contractor must submit the amount of a claim under provision (a) to the awarding authority in writing as soon as practicable after the end of the suspension, delay, interruption or failure to act and, in any event, not later than the date of final payment under this contract and, except for costs due to a suspension order, the awarding authority shall not approve any costs in the claim incurred more than twenty days before the general contractor notified the awarding authority in writing of the act or failure to act involved in the claim.

**\*\*<<<<<<<<<<<<<<<<<<<<<<<<<<>>>>>>>>>>>>>>>>\*\***

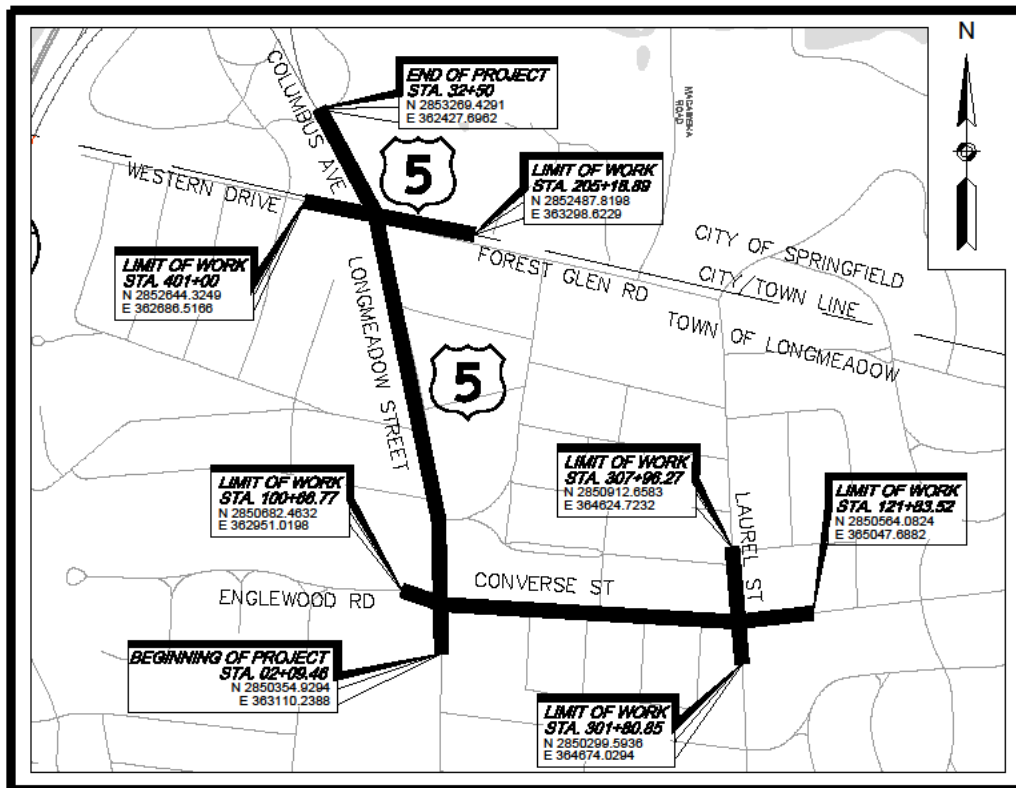
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DOCUMENT 00331

**LOCUS MAP**

**LONGMEADOW - SPRINGFIELD**  
**Federal Aid Project No. STP-0032(045)X**  
**Resurfacing and Intersection Improvements on Longmeadow Street (Route 5)**  
**and Converse Street (0.84 Miles)**



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DOCUMENT 00439

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: LONGMEADOW-SPRINGFIELD Contractor: \_\_\_\_\_  
 Project: Resurfacing and Intersection Improvements on Longmeadow Street (Route 5) and Converse Street (0.84 Miles) Address: \_\_\_\_\_  
 F.A. No. STP-0032(045)X Contract Number: 130937  
 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)							<b>Overall Rating:</b>	

(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: LONGMEADOW-SPRINGFIELD

Subcontractor: \_\_\_\_\_

Project: Resurfacing and Intersection Improvements on Longmeadow Street (Route 5) and Converse Street (0.84 Miles)

Address: \_\_\_\_\_

F.A. No.: STP-0032(045)XContract Number: 130937

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)							<b>Overall Rating:</b>	

*(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: 130937

## 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:

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Revised: 04/28/17

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DOCUMENT 00710  
GENERAL CONTRACT PROVISIONS  
Revised: 04-16-25

NOTICE OF AVAILABILITY

The STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES dated 2025, 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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DOCUMENT 00715



## SUPPLEMENTAL SPECIFICATIONS

MARCH 31, 2025

The 2025 *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 2.00: PROPOSAL REQUIREMENTS AND CONDITIONS

##### Subsection 2.09: Rejection of Proposals

*Replace bullet (i) in the third paragraph with the following:*

- (i.) award of the contract would result in the Bidder exceeding the Aggregate Bonding Capacity or the Single Bonding Capacity established by its Surety Company, or the Bidder's Proposal exceeds its Single Contract Limit, or the Bidder was not prequalified in the specified class of work on or before the time of bid opening; or

#### SECTION 7.00: LEGAL RELATIONS AND RESPONSIBILITY TO PPUBLIC

##### Subsection 7.05: Insurance Requirements

*Change the title of paragraph A to Workers' Compensation Insurance*

##### Subsection 7.22: Labor, Lodging, Board, Maximum Hours of Employment, Weekly Payment, Keeping of Payroll Records.

*In the second paragraph replace the word "workman" to "worker" and the word "workmen" to "workers".*

*Replace the third paragraph with the following:*

Attention of Bidders is called to MGL Chapter 149, Section 148 requiring the weekly payment of employee wages.

#### SECTION 9.00: MEASUREMENT AND PAYMENT

##### Subsection 9.03: Payment for Extra Work

*Replace paragraph B, first paragraph, numbers (2) and (3) with the following.*

- (2) Plus 13 percent of direct labor, for the estimated costs of Federal Insurance Contribution Act (FICA) including Medicare; Federal Unemployment Tax Act (FUTA); State Unemployment Tax Act (SUTA), which includes Unemployment Insurance, the Workforce Training Fund Program, Employer Medical Assistance Contribution, and COVID-19 Recovery Assessment; Earned Sick Time (EST) Law (940 CMR 33.00); and Paid Family and Medical Leave (PFML) Act (458 CMR 2.00);

or, as an alternative to the above 13 percent, the Contractor may elect to use actual rates for FICA, FUTA, SUTA, EST and PFML provided the actual rates are supported with verifiable documentation and shall be subject to review by MassDOT Audit Operations.

- (3) Plus the estimated cost of Workers' Compensation and Liability Insurance, Health, Welfare and Pension benefits, and such additional fringe benefits which the Contractor is required to pay as a result of Union Labor Agreements and/or is required by authorized governmental agencies;

*In paragraph B., second paragraph, number (3), replace the word "Workmen's" with "Workers".*



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## DOCUMENT 00719

*(Revised September 14, 2023 – for all Federally Aided Projects)*

**SPECIAL PROVISIONS FOR PARTICIPATION BY  
DISADVANTAGED BUSINESS ENTERPRISES**  
(IMPLEMENTING TITLE 49 OF THE CODE OF FEDERAL REGULATIONS, PART 26)

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## POLICY

The Massachusetts Department of Transportation (MassDOT) receives Federal financial assistance from the Federal Highway Administration (FHWA), United States Department of Transportation (U.S. DOT), and as a condition of receiving this assistance, has signed an assurance that it will comply with 49 CFR Part 26 (Participation By Disadvantaged Business Enterprises In Department Of Transportation Financial Assistance Programs). The U.S. DOT Disadvantaged Business Enterprise Program is authorized by the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (“SAFETEA-LU”), as amended, at Title 23, United States Code, § 1101.

Accordingly, MassDOT has established a Disadvantaged Business Enterprise (DBE) Program in accordance with 49 CFR Part 26. It is the policy of MassDOT to ensure that DBEs have an equal opportunity to receive and participate in U.S. DOT assisted Contracts, without regard to race, color, national origin, or sex. To this end, MassDOT shall not directly, or through contractual or other arrangements, use criteria or methods of administration that have the effect of defeating or substantially impairing accomplishment of the program objectives stated below:

- ◆ To ensure nondiscrimination in the award and administration of U.S. DOT assisted Contracts;
- ◆ To create a level playing field on which DBEs can compete fairly for U.S. DOT assisted Contracts;
- ◆ To ensure that the DBE Program is narrowly tailored in accordance with applicable law;
- ◆ To ensure that only firms that fully meet 49 CFR Part 26 eligibility standards are permitted to participate as DBEs;
- ◆ To help remove barriers to the participation of DBEs in U.S. DOT assisted Contracts; and
- ◆ To assist the development of firms that can compete successfully in the market place outside the DBE Program.

The Director of Civil Rights of MassDOT has been designated as the DBE Liaison Officer. The DBE Liaison Officer is responsible for implementing all aspects of the DBE Program. Other MassDOT employees are responsible for assisting the Office of Civil Rights in carrying out this obligation. Implementation of the DBE Program is accorded the same priority as compliance with all other legal obligations incurred by MassDOT in its financial assistance agreements with each operating administration of the U.S. DOT. Information on the Federal requirements and MassDOT’s policies and information can be found at:

<i>Type of Info</i>	<i>Website</i>	<i>Description</i>
MassDOT Highway Division Policies and Info	<a href="https://www.mass.gov/disadvantaged-business-enterprise-goals-2019-2022">https://www.mass.gov/disadvantaged-business-enterprise-goals-2019-2022</a>	MassDOT– Highway Div’n Page
For copies of the Code of Federal Regulations	<a href="http://www.gpo.gov/fdsys/browse/collectionCfr.action?collectionCode=CFR">http://www.gpo.gov/fdsys/browse/collectionCfr.action?collectionCode=CFR</a>	FDsys – US Gov’t Printing Office
For information about the U.S.DOT DBE Program	<a href="https://www.transportation.gov/civil-rights/disadvantaged-business-enterprise">https://www.transportation.gov/civil-rights/disadvantaged-business-enterprise</a>	U.S. DOT/ FHWA page

## 1. DEFINITIONS

As used in these provisions, the terms set out below are defined as follows:

“Broker”, for purposes of these provisions, shall mean a DBE Entity that has entered into a legally binding relationship to provide goods or services delivered or performed by a third party. A broker may be a DBE Entity that arranges or expedites transactions but performs no work or installation services.

“Contractor”, “General” or “Prime” Contractor, “Bidder,” and “DB Entity” shall mean a person, firm, or other entity that has contracted directly with MassDOT to provide contracted work or services.

“Contract” shall mean the Contract for work between the Contractor and MassDOT.

“DBB” or “Design-Bid-Build” shall mean the traditional design, bid and project delivery method consisting of separate contracts between awarding authority and a designer resulting in a fully designed project; and a separate bidding process and Contract with a construction Contractor or Bidder.

“DB” or “Design-Build” shall mean an accelerated design, bid and project delivery method consisting of a single contract between the awarding authority and a DB Entity, consisting of design and construction companies that will bring a project to full design and construction.

“Disadvantaged Business Enterprise” or “DBE” shall mean a for-profit, small business concern:

- (a) that is at least fifty-one (51%) percent owned by one or more individuals who are both socially and economically disadvantaged, or, in the case of any corporation, in which at least fifty-one (51%) percent of the stock is owned by one or more such individuals; and
- (b) where the management and daily business operations are controlled by one or more of the socially and economically disadvantaged individuals who own it.

“FHWA” shall mean the Federal Highway Administration,” an agency within U.S. DOT that supports State and local governments in the design, and maintenance of the Nation’s highway system (Federal Aid Highway Program).

“Good faith efforts” shall mean efforts to achieve a DBE participation goal or other requirement of these Special Provisions that, by their scope, intensity, and appropriateness to the objective, can reasonably be expected to fulfill the program requirement. Such efforts must be deemed acceptable by MassDOT.

“Joint Venture” shall mean an association of a DBE firm and one or more other firms to carry out a single, for-profit business enterprise, for which the parties combine their property, capital, efforts, skills and knowledge, and in which the DBE is responsible for a distinct, clearly defined portion of the work of the Contract and whose share in the capital contribution, control, management, risks, and profits of the joint venture are commensurate with its ownership interest.

“Approved Joint Venture” shall mean a joint venture, as defined above, which has been approved by MassDOT’s Prequalification Office and Office of Civil Rights for DBE participation on a particular Contract.

"Manufacturer" shall mean a firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles or equipment required under the contract and of the general character described by the specifications.

"Regular Dealer" shall mean a DBE firm that owns, operates, or maintains a store, warehouse, or other establishment in which materials, supplies, articles or equipment of the general character described by the specifications and required under the Contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business.

- (a) To be a regular dealer, the firm must be an established, regular business that engages, as its principal business, and under its own name, in the purchase and sale of the products in question.
- (b) A person may be a regular dealer in such bulk items as petroleum products, steel, cement, gravel, stone, or asphalt without owning, operating, or maintaining a place of business as provided above if the person both owns and operates distribution equipment for the products. Any supplementing of regular dealers' own distribution equipment shall be by long term lease agreement and not on an ad hoc or contract by contract basis.
- (c) Packagers, brokers, manufacturers' representatives, or other persons who arrange or expedite transactions are not regular dealers within the meaning of this definition.

"Responsive" and "Responsible" refers to the bidder's submittal meeting all of the requirements of the advertised request for proposal. The term responsible refers to the ability of the Contractor to perform the work. This ability can be determined prior to bid invitations.

"Small Business or Small Business Concern" shall mean a small business concern or company as defined in Section 3 of the Small Business Act and SBA regulations implementing it (13 CFR Part 121); and is a business that does not exceed the cap on annual average gross receipts established by the U.S. Secretary of Transportation pursuant to 49 CFR Part 26.65; see also 49 CFR Part 26.39.

"SDO" shall mean the Massachusetts Supplier Diversity Office, formerly known as the State Office of Minority and Women Business Assistance (SOMWBA). In 2010, SOMWBA was abolished and the SDO was established. See St. 2010, c. 56. The SDO has assumed all the functions of SOWMBA. SDO is an agency within the Commonwealth of Massachusetts Executive office of Administration and Finance (ANF) Operational Services Division (OSD). The SDO mandate is to help promote the development of business enterprises and non-profit organizations owned and operated by minorities and women.

"Socially and economically disadvantaged individuals" shall mean individuals who are citizens of the United States (or lawfully admitted permanent residents) and who are:

- (a) Individuals found by SDO to be socially and economically disadvantaged individuals on a case by case basis.
- (b) Individuals in the following groups, members of which are rebuttably presumed to be socially and economically disadvantaged:

- (1) "Black Americans" which includes persons having origin in any of the Black racial groups of Africa; (2) "Hispanic Americans" which include persons of Mexican, Puerto Rican, Cuban, Dominican, Central or South American, or other Spanish or Portuguese culture or origin, regardless of race; (3) "Native Americans" which include persons who are American Indians, Eskimos, Aleuts, or Native Hawaiians; (4) "Asian Pacific Americans" which includes persons whose origins are from Japan, China, Taiwan, Korea, Burma (Myanmar), Vietnam, Laos, Cambodia (Kampuchea), Thailand, Malaysia, Indonesia, the Philippines, Brunei, Samoa, Guam, the U.S. Trust Territories of the Pacific Islands (Republic of Palau), the Commonwealth of the Northern Marianas Islands, Macao, Fiji, Tonga, Kiribati, Tuvalu, Nauru, Federated States of Micronesia, or Hong Kong; (5) "Subcontinent Asian Americans" which includes persons whose origins are from India, Pakistan, Bangladesh, Bhutan, the Maldives Islands, Nepal or Sri Lanka; (6) Women; or (7) Any additional groups whose members are designated as socially and economically disadvantaged by the Small Business Administration (SBA), at such time as the SBA designation becomes effective.

Other terms and definitions applicable to the U.S. DOT DBE Program may be found at 49 CFR Part 26 and related appendices and guidance pages.

## 2. DBE PARTICIPATION

### a. Goal

On this Contract, MassDOT has established the following goal(s) for participation by firms owned and controlled by socially and economically disadvantaged persons. At least half of the goal must be met in the form of DBE Subcontractor construction activity as opposed to material supplies or other services. The applicable goal remains in effect throughout the life of the contract regardless of whether pre-identified DBE Subcontractors remain on the Project or under Contract.

☒ Design-Bid-Build Projects: DBE Participation Goal 7 %  
(One half of this goal shall be met in the form of Subcontractor construction activity)

☐ Design-Build Projects: DBE Design Participation Goal \_\_\_\_% and DBE Construction Participation Goal \_\_\_\_%  
(One half of the Construction Goal shall be met in the form of Subcontractor construction activity)

### b. Bidders List

Pursuant to the provisions of 49 CFR Part 26.11(c), Recipients such as MassDOT, must collect from all Bidders who seek work on Federally assisted Contracts the firm full company name(s), addresses and telephone numbers of all firms that have submitted bids or quotes to the Bidders in connection with this Project. All bidders should refer to the Special Provision Document "A00801" of the Project proposal for this requirement.

In addition, MassDOT must provide to U.S. DOT, information concerning contractors firm status as a DBE or non-DBE, the age of the firm, and the annual gross receipts of the firm within a series of brackets (e.g., less than \$500,000; \$500,000–\$1 million; \$1–2 million; \$2–5 million, etc.). The status, firm age, and annual gross receipt information will be sought by MassDOT regularly prior to setting its DBE participation goal for submission to U.S. DOT. MassDOT will survey each individual firm for this information directly.

Failure to comply with a written request for this information within fifteen (15) business days may result in the suspension of bidding privileges or other such sanctions, as provided for in Section 9 of this provision, until the information is received.

### **3. CONTRACTOR ASSURANCES**

No Contractor or any Subcontractor shall 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 in all respects and as applicable prior to, or subsequent to, award of U.S. DOT assisted Contracts. The Contractor agrees to affirmatively seek out and consider DBE firms as Contractors, Subcontractors, and/or suppliers of materials and services for this Contract. No Contract will be approved until MassDOT has reviewed Bidders'/Contractors' affirmative actions concerning DBEs. Failure to carry out these requirements is a material breach of this Contract which may result in the termination of the Contract or such other remedy as MassDOT or FHWA deem appropriate.

### **4. REQUIRED SUBCONTRACT PROVISIONS**

The Prime Contractor shall include the provisions of Section 3 above in every subcontract, making those provisions binding on each Subcontractor; in addition, the Prime Contractor shall include a copy of this Special Provision, in its entirety, in every subcontract with a DBE firm which is, or may be, submitted for credit toward the Contract participation goal.

### **5. ELIGIBILITY OF DBES**

Only firms that have been certified by SDO and confirmed by MassDOT as eligible in accordance with 49 CFR Part 26 to participate as DBEs on federally aided MassDOT Contracts may be used on this Contract for credit toward the DBE participation goal.

#### **a. Massachusetts DBE Directory**

MassDOT makes available to all bidders the most current Massachusetts Disadvantaged Business Enterprise Directory. This directory is made available for Contractors' convenience and is informational only. The Directory lists those firms that have been certified as eligible in accordance with the criteria of 49 CFR Part 26 to participate as DBEs on federally aided MassDOT contracts. The Directory also lists the kinds of work each firm is certified to perform but does not constitute an endorsement of the quality of performance of any business and does not represent MassDOT Subcontractor approval.

Contractors are encouraged to make use of the DBE Directory maintained by SDO on the Internet. This listing is updated daily and may be accessed at the SDO's website at:

<https://www.diversitycertification.mass.gov/BusinessDirectory/BusinessDirectorySearch.aspx>

#### **b. DBE Certification**

A firm must apply to SDO, currently acting as certification agent for MassDOT, for DBE certification to participate on federally aided MassDOT Contracts. A DBE application may be made in conjunction with a firm's application to SDO for certification to participate in state-funded minority and women business enterprise programs or may be for DBE certification only. An applicant for DBE certification must identify the area(s) of work it seeks to perform on U.S. DOT funded projects.

### **c. Joint Venture Approval**

To obtain recognition as an approved DBE Joint Venture, the parties to the joint venture must provide to MassDOT's Office of Civil Rights and Prequalification Office, at least fourteen (14) business days before the bid opening date, an Affidavit of DBE/Non-DBE Joint Venture in the form attached hereto, and including, but not limited to the following:

1. a copy of the Joint Venture Agreement;
2. a description of the distinct, clearly defined portion of the contract work that the DBE will perform with its own forces; and,
3. all such additional information as may be requested by MassDOT for the purpose of determining whether the joint venture is eligible.

## **6. COUNTING DBE PARTICIPATION TOWARDS DBE PARTICIPATION GOALS**

In order for DBE participation to count toward the Contract participation goal, the DBE(s) must have served a commercially useful function in the performance of the Contract and must have been paid in full for acceptable performance.

### **a. Commercially Useful Function**

- (1) In general, a DBE performs a commercially useful function when it is responsible for execution of the work of the contract and is carrying out its responsibilities by actually performing, managing, and supervising the work involved. With respect to materials and supplies used on the Contract, the DBE must be responsible for negotiating price, determining quality and quantity, ordering the material, installing (where applicable) and paying for the material itself.
- (2) To determine whether a DBE is performing a commercially useful function, MassDOT will evaluate the amount of work subcontracted, industry practices, whether the amount the firm is to be paid under the Contract is commensurate with the work it is actually performing and the DBE credit claimed for its performance of the work, and other relevant factors.
- (3) A DBE does not perform a commercially useful function if its role is limited to that of an extra participant in a transaction, contract, or project through which funds are passed in order to obtain the appearance of DBE participation. In determining whether a DBE is such an extra participant, MassDOT will examine similar transactions, particularly those in which DBEs do not participate.

### **b. Counting Participation Toward The Contract Participation Goal**

DBE participation which serves a commercially useful function shall be counted toward the DBE participation goal in accordance with the Provisions of 49 CFR Part 26.55(a) to (h), as follows:

- (1) When a DBE participates in a construction Contract, MassDOT will count the value of the work performed by the DBE's own forces. MassDOT will count the cost of supplies and materials obtained by the DBE for the work of its contract, including supplies purchased or equipment leased by the DBE. Supplies, labor, or equipment the DBE Subcontractor uses, purchases, or leases from the Prime Contractor or any affiliate of the Prime Contractor will not be counted.

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- (2) MassDOT will count the entire amount of fees or commissions charged by a DBE firm for providing bona fide services, such as professional, technical, consultant, or managerial services, or for providing bonds or insurance specifically required for the performance of a U.S. DOT assisted Contract, toward DBE participation goals, provided it is determined that the fee is reasonable and not excessive as compared with fees customarily allowed for similar services.
  - (3) When a DBE performs as a participant in a joint venture, MassDOT will count toward DBE participation goals a portion of the total dollar value of the contract that is equal to the distinct, clearly defined portion of the work of the Contract that the DBE performs with its own forces.
  - (4) MassDOT will use the following factors in determining whether a DBE trucking company is performing a commercially useful function:
    - (i) the DBE must be responsible for the management and supervision of the entire trucking operation for which it is responsible on a particular contract; there cannot be a contrived arrangement for the purpose of meeting DBE participation goals.
    - (ii) the DBE must itself own and operate at least one fully licensed, insured, and operational truck used on the Contract.
    - (iii) the Contractor will receive DBE credit for the total value of the transportation services the DBE provides on the Contract using trucks owned, insured, and operated by the DBE itself and using drivers the DBE employs alone.
    - (iv) the DBE may lease trucks from another DBE firm, including an owner-operator who is certified as a DBE. The Contractor who has a contract with a DBE who leases trucks from another DBE will receive credit for the total value of the transportation services of the lease.
    - (v) the DBE may also lease trucks from a non-DBE firm, including an owner-operator. The Contractor who has a Contract with a DBE who leases trucks from a non-DBE is entitled to credit for the total value of the transportation services provided by non-DBE lessees not to exceed the value of transportation services provided by DBE-owned trucks on the Contract. Additional participation by non-DBE lessees receives credit only for the fee or commission it receives as a result of the lease arrangement, fee or commission it receives as a result of the lease arrangement. The DBE does not receive credit for the total value of the transportation services provided by the lessee, since these services are not provided by a DBE.
    - (vi) the lease must indicate that the DBE has exclusive use of, and control over, the truck. This does not preclude the leased truck from working for others during the term of the lease with the consent of the DBE, so long as the lease gives the DBE absolute priority for use of the leased truck. Leased trucks must display the name and identification number of the DBE.
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- (5) MassDOT will count the Prime Contractor's expenditures with DBEs for materials or supplies toward DBE participation goals as follows:
- (i) if the materials or supplies are obtained from a DBE manufacturer, as defined in Section 1 above, MassDOT will count one hundred (100%) percent of the cost of the materials or supplies toward DBE participation goals, provided the DBE meets the other requirements of the regulations.
  - (ii) if the materials or supplies are purchased from a DBE regular dealer, as defined in Section 1 above, MassDOT will count sixty (60%) percent of the cost of the materials or supplies toward the Contract participation goal, provided the DBE meets the other requirements of the regulations.
  - (iii) for materials or supplies purchased from a DBE which is neither a manufacturer nor a regular dealer, MassDOT will count the entire amount of fees or commissions charged for assistance in the procurement of the materials and supplies, or fees or transportation charges for the delivery of materials or supplies required on a job site toward the Contract participation goal, provided that MassDOT determines the fees to be reasonable and not excessive as compared with fees customarily allowed for similar services; the cost of the materials and supplies themselves will not be counted; and provided the DBE meets the other requirements of the regulations.

#### **c. Joint Check Policy**

MassDOT recognizes that the use of joint checks may be a business practice required by material suppliers and vendors in the construction industry. A joint check is a two-party check issued by a/the Prime Contractor to a DBE third party such as a regular dealer of material or supplies. The Prime Contractor issues the check as payor to the DBE and the third party jointly as payees to guarantee payment to the third party for materials or supplies obtained or to be used by the DBE. FHWA has established criteria to ensure that DBEs are in fact performing a commercially useful function ("CUF") while using a joint check arrangement. Contractors and DBEs must meet and conform to these conditions and criteria governing the use of joint checks.

In the event that a Contractor or DBE Subcontractor desires to use a joint check, MassDOT will require prior notice and will closely monitor the arrangement for compliance with FHWA regulations and guidance. MassDOT may allow a joint check arrangement and give credit to a Contractor for use of the DBE where one or more of the following conditions exist:

- The use of a joint check is in fact required by this type of vendor or supplier as a standard industry practice that applies to all Contractors (DBEs and non-DBEs); or is required by a specific vendor or supplier;
- Payment for supplies or materials would be delayed for an unreasonably extended period without the joint check arrangement;
- The DBE (or any of its Subcontractors) has a pattern or history of not paying a vendor or supplier within a reasonable time or has not established enough of a credit history with the supplier or vendor; and/or
- The presence of severe adverse economic conditions, where credit resources may be limited and such practices may be necessary or required to effect timely payments.

Other factors MassDOT may consider:

- Whether there is a requirement by the Prime Contractor that a DBE should use a specific vendor or supplier to meet their Subcontractor specifications;
- Whether there is a requirement that a DBE use the Prime Contractor's negotiated price;
- The independence of the DBE;
- Whether approval has been sought prior to use of a joint check arrangement; and
- Whether any approved joint check arrangement has exceeded a reasonable period of use;
- The operation of the joint check arrangement; and
- Whether the DBE has made an effort to establish alternate arrangements for following periods ( i.e., the DBE must show it can, or has, or why it has not, established or increased a credit line with the vendor or supplier).

Even with the use of a Joint Check, both the Contractor and DBE remain responsible for compliance with all other elements under 49 CFR § 26.55 (c) (1), and must still be able to prove that a commercially useful function is being performed for the Contractor.

#### **d. Joint Check Procedure(s)**

- The DBE advises its General or Prime Contractor that it will have to use a Joint Check and provide proof of such requirement.
- The General or the Prime Contractor submits a request for approval to MassDOT, using MassDOT's approved Joint Check Request form (Document B00855) and by notification on the DBE Letter of Intent (Document B00854), and any other relevant documents. Requests that are not initiated during the bid process should be made in writing and comply with the procedure.
- The MassDOT Office of Civil Rights will review the request and render a decision as part of the approval process for DBE Schedules and Letters of Intent.
- Review and Approval will be project specific and relevant documents will be made part of the project Contract file.
- Payments should be made in the name of both the DBE and vendor or supplier. Payments should be issued and signed by the Contractor as only the guarantor for prompt payment of purchases to the vendor or supplier. The payment to the vendor or supplier should be handled by the DBE (i.e. if possible, funds or the joint check should be processed by the DBE and sent by the DBE to the vendor or supplier).
- MassDOT may request copies of cancelled checks (front and back) and transmittal information to verify any payments made to the DBE and vendor or supplier.
- MassDOT may request other information and documents, and may ask questions of the Contractor, Subcontractor and vendor or supplier prior to, during, and after the project performance to ascertain whether the Subcontractor is performing a commercially useful function and all parties are complying with DBE Program policies and procedures as part of the Subcontractor approval process.

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## 7. AWARD DOCUMENTATION AND PROCEDURES

- a. The two lowest bidders/the two bidders with the lowest price per quality score point, shall submit, by the close of business on the third (3<sup>rd</sup>) business day after the bid opening, a completed Schedule of Participation by DBEs (Document B00853) which shall list:

- (1) The full company name, address and telephone number of each DBE with whom the bidder intends to make a commitment.
- (2) The contract item(s), by number(s) and quantity(ies), if applicable, or specific description of other business activity to be performed by each DBE as set forth in the Letters of Intent. The Bidder shall list only firms which have the capacity to perform, manage and supervise the work proposed in accordance with the requirements of 49 CFR Part 26 and Section **6.b** of these Special Provisions.
- (3) The total dollar amount to be paid to each DBE. (Bidders are cautioned that at least one half of the participation goal must be met with construction activity work.)
- (4) The total dollar amount to be paid to each DBE that is eligible for credit toward the DBE participation goal under the counting rules set out in Section **6.b**.
- (5) The total creditable DBE participation as a percentage of the total bid price.

- b. All firms listed on the Schedule must be currently certified.

- c. The two lowest bidders/the two bidders with the lowest price per quality score point, shall each submit, with their Schedules of Participation, fully completed, signed Letters of Intent (Document B00854) from each of the DBEs listed on the Schedule. The Letters of Intent shall be in the form attached and shall identify specifically the contract activity the DBE proposes to perform, expressed as contract item number, if applicable, description of the activity, NAICS code, quantity, unit price and total price. In the event of discrepancy between the Schedule and the Letter of Intent, the Letter of Intent shall govern.

- d. Evidence of good faith efforts will be evaluated by MassDOT in the selection of the lowest responsible bidder.

All information requested by MassDOT for the purpose of evaluating the Contractor's efforts to achieve the participation goal must be provided within three (3) calendar days and must be accurate and complete in every detail. The apparent low bidder's attainment of the DBE participation goal or a satisfactory demonstration of good faith efforts is a prerequisite for award of the Contract.

- e. Failure to meet, or to demonstrate good faith efforts to meet, the requirements of these Special Provisions shall render a bid non-responsive. Therefore, in order to be eligible for award, the bidder (1) must list all DBE's it plans to employ on the Schedule of Participation; and provide the required Letters of Intent for, DBE participation which meets or exceeds the Contract goal in accordance with the terms of these Special Provisions or (2) must demonstrate, to the satisfaction of MassDOT, that good faith efforts were made to achieve the participation goal. MassDOT will adhere to the guidance provided in Appendix A to 49 CFR Part 26 on the determination of a Contractor's good faith efforts to meet the DBE participation goal(s) set forth in Section 2 herein.

- f. If MassDOT finds that the percentage of DBE participation submitted by the bidder on its Schedule does not meet the Contract participation goal, or that Schedule and Letters of Intent were not timely filed, and that the bidder has not demonstrated good faith efforts to comply with these requirements, it shall propose that the bidder be declared ineligible for award. In that case, the bidder may request administrative reconsideration. Such requests must be sent in writing within three (3) calendar days of receiving notice of proposed ineligibility to: The Office of the General Counsel, Massachusetts Department of Transportation, 10 Park Plaza, Boston, MA, 02116.
- g. If, after administrative reconsideration, MassDOT finds that the bidder has not shown that sufficient good faith efforts were made to comply with the requirements of these Special Provisions, it shall reject the bidder's proposal and may retain the proposal guaranty.
- h. Actions which constitute evidence of good faith efforts to meet a DBE participation goal include, but are not limited to, the following examples, which are set forth in 49 CFR Part 26, Appendix A:
- (1) Soliciting through all reasonable and available means (e.g., attendance at pre-bid meetings, advertising and/or written notices) the interest of all certified DBEs who have the capability to perform the work of the Contract. The bidder must solicit this interest within sufficient time to allow the DBEs to respond to the solicitation. The bidder must determine with certainty if the DBEs are interested by taking appropriate steps to follow up initial solicitations.
  - (2) Selecting portions of the work to be performed by DBEs in order to increase the likelihood that the DBE participation goal will be achieved. This includes, where appropriate, breaking out contract work items into economically feasible units to facilitate DBE participation, even when the Prime Contractor might otherwise prefer to perform these work items with its own forces.
  - (3) Providing interested DBEs with adequate information about the plans, specifications, and requirements of the contract in a timely manner to assist them in responding to a solicitation.
  - (4) Negotiating in good faith with interested DBEs. It is the bidder's responsibility to make a portion of the work available to DBE Subcontractors and suppliers and to select those portions of the work or material needs consistent with the available DBE Subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone number of DBEs that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional agreements could not be reached for DBEs to perform the work.

A bidder using good business judgment would consider a number of factors in negotiating with Subcontractors, including DBE Subcontractors, and would take a firm's price and capabilities as well as Contract participation goals into consideration. However, the fact that there may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for a bidder's failure to meet the Contract DBE participation goal, as long as such costs are reasonable. Also, the ability or desire of a Prime Contractor to perform the work of a Contract with its own organization does not relieve the bidder of the responsibility to make good faith efforts. Prime Contractors are not, however, required to accept higher quotes from DBEs if the price difference is excessive or unreasonable.

- (5) Not rejecting DBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. Contractors should be careful of adding additional requirements of performance that would in effect limit participation by DBEs or any small business. The Contractor's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. nonunion employee status) are not legitimate causes for the rejection or non-solicitation of bids in the Contractor's efforts to meet the Contract participation goal.
- (6) Making efforts to assist interested DBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or contractor.
- (7) Making efforts to assist interested DBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.
- (8) Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, state, and federal minority/women business assistance offices; and other organizations as allowed on a case by case basis to provide assistance in the recruitment and placement of DBEs.

## 8. COMPLIANCE

- a. All activity performed by a DBE for credit toward the Contract participation goal must be performed, managed and supervised by the DBE in accordance with all commercially useful function requirements of 49 CFR Part 26. The Prime Contractor shall not enter into, or condone, any other arrangement.
- b. The Prime Contractor shall not perform with its own organization, or assign to any other business, an activity designated for the DBE(s) named on the Schedule(s) submitted by the Prime Contractor under Section 7 or under paragraph 8.f of this section, without the approval of MassDOT in accordance with the requirements of paragraphs 8.f and 8.j of this section.
- c. MassDOT may suspend payment for any activity that was not performed by the DBE to whom the activity was committed on the approved Schedule of Participation, or that was not performed in accordance with the requirements of Section 6.
- d. MassDOT retains the right to approve or disapprove of any or all Subcontractors. Requests by the Prime Contractor for approval of participation by a DBE Subcontractor for credit toward the Contract participation goal must include, in addition to any other requirements for Subcontractor approval, the following:
  - (1) A copy of the proposed subcontract. The subcontract must be for at least the dollar amount, and for the work described, in the Bidder's Schedule of Participation.
  - (2) A resume stating the qualifications and experience of the DBE Superintendent and/or foreperson who will supervise the on-site work. A new resume will be required for any change in supervisory personnel during the progress of the work.
  - (3) A Schedule of Operations indicating when the DBE is expected to perform the work.
  - (4) A list of (1) equipment owned by the DBE to be used on the Project, and (2) equipment to be leased by the DBE for use on the Project.

- (5) A list of: (1) all projects (public and private) which the DBE is currently performing; (2) all projects (public and private) to which the DBE is committed; and (3) all projects (public and private) to which the DBE intends to make a commitment. For each Contract, list the contracting organization, the name and telephone number of a contact person for the contracting organization, the dollar value of the work, a description of the work, and the DBE's work schedule for each project.
- e. If, pursuant to the Subcontractor approval process, MassDOT finds that a DBE Subcontractor does not have sufficient experience or resources to perform, manage and supervise work of the kind proposed in accordance with the requirements of 49 CFR Part 26, approval of the DBE Subcontractor may be denied. In the event of such denial, the Prime Contractor shall proceed in accordance with the requirements paragraphs **8.f** and **8.j** of this section.
- f. If, for reasons beyond its control, the Prime Contractor cannot comply with its DBE participation commitment in accordance with the Schedule of Participation submitted under Section 7, the Prime Contractor shall submit to MassDOT the reasons for its inability to comply with its obligations and shall submit, and request approval for, a revised Schedule of Participation. If approved by MassDOT, the revised Schedule shall govern the Prime Contractor's performance in meeting its obligations under these Special Provisions.
- g. A Prime Contractor's compliance with the participation goal in Section 2 shall be determined by reference to the established percentage of the total contract price, provided, however, that no decrease in the dollar amount of a bidder's commitment to any DBE shall be allowed without the approval of MassDOT.
- h. If the contract amount is increased, the Prime Contractor may be required to submit a revised Schedule of Participation in accordance with paragraphs **8.f** and **8.j** of this section.
- i. In the event of the decertification of a DBE scheduled to participate on the Contract for credit toward the participation goal, but not under subcontract, the Contractor shall proceed in accordance with paragraphs **8.f** and **8.j** of this section.
- j. The Prime Contractor shall notify MassDOT immediately of any facts that come to its attention indicating that it may or will be unable to comply with any aspect of its DBE obligation under this Contract.
- k. Any notice required by these Special Provisions shall be given in writing to: (1) the Resident Engineer; (2) the District designated Compliance Officer; and (3) the DBE Liaison Officer, MassDOT Office of Civil Rights, 10 Park Plaza, – 3rd Floor - West, Boston, MA, 02116 and cc'd to the Deputy Chief of External Programs.
- l. The Prime Contractor and its Subcontractors shall comply with MassDOT's Electronic Reporting System Requirements (MassDOT Document 00821) and submit all information required by MassDOT related to the DBE Special Provisions through the Equitable Business Opportunity Solution ("EBO"). MassDOT reserves the right to request reports in the format it deems necessary anytime during the performance of the Contract.
- m. Termination of DBE by Prime Contractor
- (1) A Prime Contractor shall not terminate a DBE Subcontractor or an approved substitute DBE firm without the prior written consent of MassDOT. This includes, but is not limited to, instances in which a Prime Contractor seeks to perform work originally designated for a DBE Subcontractor with its own forces or those of an affiliate, a non-DBE firm, or with another DBE firm.

- (2) MassDOT may provide such written consent only if MassDOT agrees, for reasons stated in its concurrence document, that the Prime Contractor has good cause to terminate the DBE firm.
- (3) For purposes of this paragraph, good cause includes the following circumstances:
  - (i) The DBE Subcontractor fails or refuses to execute a written contract;
  - (ii) The DBE Subcontractor fails or refuses to perform the work of its subcontract in a way consistent with normal industry standards. Good cause, however, does not exist if the failure or refusal of the DBE Subcontractor to perform its work on the subcontract results from the bad faith or discriminatory action of the Prime Contractor;
  - (iii) The DBE Subcontractor fails or refuses to meet the Prime Contractor's reasonable, nondiscriminatory bond requirements.
  - (iv) The DBE Subcontractor becomes bankrupt, insolvent, or exhibits credit unworthiness;
  - (v) The DBE Subcontractor is ineligible to work on public works projects because of suspension and debarment proceedings pursuant 2 CFR Parts 180, 215 and 1,200 or applicable State law;
  - (vi) (vii) MassDOT has determined that the listed DBE Subcontractor is not a responsible contractor;
  - (vii) The listed DBE Subcontractor voluntarily withdraws from the Project and provides written notice of its withdrawal;
  - (viii) The listed DBE is ineligible to receive DBE credit for the type of work required;
  - (ix) A DBE owner dies or becomes disabled with the result that the listed DBE Contractor is unable to complete its work on the Contract;
  - (x) Other documented good cause that MassDOT determines compels the termination of the DBE Subcontractor. Good cause, however, does not exist if the Prime Contractor seeks to terminate a DBE it relied upon to obtain the Contract so that the Prime Contractor can self-perform the DBE work or substitute another DBE or non-DBE Contractor after Contract Award.
- (4) Before transmitting to MassDOT a request to terminate and/or substitute a DBE Subcontractor, the Prime Contractor must give notice in writing to the DBE Subcontractor, with a copy to MassDOT, of its intent to request to terminate and/or substitute, and the reason for the request.
- (5) The Prime Contractor must give the DBE five (5) business days to respond to the Prime Contractor's notice. The DBE must advise MassDOT and the Contractor of the reasons, if any, why it objects to the proposed termination of its subcontract and why MassDOT should not approve the Prime Contractor's action. If required in a particular case as a matter of public necessity (e.g., safety), MassDOT may provide a response period shorter than five (5) business days.
- (6) In addition to post-award terminations, the provisions of this section apply to pre-award deletions of or substitutions for DBE firms.

**n. Prompt Payment.**

Contractors are required to promptly pay Subcontractors under this Prime Contract within ten (10) business days from the receipt of each payment the Prime Contractor receives from MassDOT. Failure to comply with this requirement may result in the withholding of payment to the Prime Contractor until such time as all payments due under this provision have been received by the Subcontractor(s) and/or referral to the Prequalification Committee for action which may affect the Contractor's prequalification status.

**9. SANCTIONS**

If the Prime Contractor does not comply with the terms of these Special Provisions and cannot demonstrate to the satisfaction of MassDOT that good faith efforts were made to achieve such compliance, MassDOT may, in addition to any other remedy provided for in the Contract, and notwithstanding any other provision in the Contract:

- a.** Retain, in connection with final acceptance and final payment processing, an amount determined by multiplying the total contract amount by the percentage in Section 2, less the amount paid to approved DBE(s) for work performed under the Contract in accordance with the provisions of Section 8.
- b.** Suspend, terminate or cancel this Contract, in whole or in part, and call upon the Prime Contractor's surety to perform all terms and conditions in the Contract.
- c.** In accordance with 720 CMR 5.05(1)(f), modify or revoke the Prime Contractor's Prequalification status or recommend that the Prime Contractor not receive award of a pending Contract. The Prime Contractor may appeal the determination of the Prequalification Committee in accordance with the provisions of 720 CMR 5.06.
- d.** Initiate debarment proceedings pursuant to M.G.L. c. 29 §29F and, as applicable, 2 CFR Parts 180, 215 and 1,200.
- e.** Refer the matter to the Massachusetts Attorney General for review and prosecution, if appropriate, of any false claim or pursuant to M.G.L. c. 12, §§ 5A to 5O (the Massachusetts False Claim Act).
- f.** Refer the matter to the U.S. DOT's Office of the Inspector General or other agencies for prosecution under Title 18, U.S.C. § 1001, 49 CFR Parts 29 and 31, and other applicable laws and regulations.

**10. FURTHER INFORMATION; ENFORCEMENT, COOPERATION AND CONFIDENTIALITY.**

- a.** Any proposed DBE, bidder, or Contractor shall provide such information as is necessary in the judgment of MassDOT to ascertain its compliance with the terms of this Special Provision. Further, pursuant to 49 CFR, Part 26.107:



- (1) If you are a firm that does not meet the eligibility criteria of 49 CFR, Parts 26.61 to 26.73 (“subpart D”), that attempts to participate in a DOT- assisted program as a DBE on the basis of false, fraudulent, or deceitful statements or representations or under circumstances indicating a serious lack of business integrity or honesty, MassDOT or FHWA may initiate suspension or debarment proceedings against you under 49 CFR Part 29.
  - (2) If you are a firm that, in order to meet DBE Contract participation goals or other DBE Program requirements, uses or attempts to use, on the basis of false, fraudulent or deceitful statements or representations or under circumstances indicating a serious lack of business integrity or honesty, another firm that does not meet the eligibility criteria of subpart D, FHWA may initiate suspension or debarment proceedings against you under 49 CFR Part 29.
  - (3) In a suspension or debarment proceeding brought either under subparagraph a.(1) or b.(2) of this section, the concerned operating administration may consider the fact that a purported DBE has been certified by a recipient. Such certification does not preclude FHWA from determining that the purported DBE, or another firm that has used or attempted to use it to meet DBE participation goals, should be suspended or debarred.
  - (4) FHWA may take enforcement action under 49 CFR Part 31, Program Fraud and Civil Remedies, against any participant in the DBE Program whose conduct is subject to such action under 49 CFR Part 31.
  - (5) FHWA may refer to the Department of Justice, for prosecution under 18 U.S.C. 1001 or other applicable provisions of law, any person who makes a false or fraudulent statement in connection with participation of a DBE in any DOT-assisted program or otherwise violates applicable Federal statutes.
- b. Pursuant to 49 CFR Part 26.109, the rules governing information, confidentiality, cooperation, and intimidation or retaliation are as follows:
- (1) Availability of records.
    - (i) In responding to requests for information concerning any aspect of the DBE Program, FHWA complies with provisions of the Federal Freedom of Information and Privacy Acts (5 U.S.C. 552 and 552a). FHWA may make available to the public any information concerning the DBE Program release of which is not prohibited by Federal law.
    - (ii) MassDOT shall safeguard from disclosure to unauthorized persons information that may reasonably be considered as confidential business information, consistent with Federal and Massachusetts General Law (M.G.L. c. 66, § 10, M.G.L. c. 4, §7 (26), 950 CMR 32.00).
  - (2) Confidentiality of information on complainants. Notwithstanding the provisions of subparagraph b.(1) of this section, the identity of complainants shall be kept confidential, at their election. If such confidentiality will hinder the investigation, proceeding or hearing, or result in a denial of appropriate administrative due process to other parties, the complainant must be advised for the purpose of waiving the privilege. Complainants are advised that, in some circumstances, failure to waive the privilege may result in the closure of the investigation or dismissal of the proceeding or hearing.

- (3) Cooperation. All participants in FHWA's DBE Program (including, but not limited to, recipients, DBE firms and applicants for DBE certification, complainants and appellants, and Contractors using DBE firms to meet Contract participation goals) are required to cooperate fully and promptly with U.S. DOT and recipient compliance reviews, certification reviews, investigations, and other requests for information. Failure to do so shall be a ground for appropriate action against the party involved (e.g., with respect to recipients, a finding of noncompliance; with respect to DBE firms, denial of certification or removal of eligibility and/or suspension and debarment; with respect to a complainant or appellant, dismissal of the complaint or appeal; with respect to a Contractor which uses DBE firms to meet participation goals, findings of non-responsibility for future Contracts and/or suspension and debarment).
- (4) Intimidation and retaliation. No recipient, Contractor, or any other participant in the program, may intimidate, threaten, coerce, or discriminate against any individual or firm for the purpose of interfering with any right or privilege secured by this part or because the individual or firm has made a complaint, testified, assisted, or participated in any manner in an investigation, proceeding, or hearing under this part. If any recipient or contractor violates this prohibition, that entity is in noncompliance with this 49 CFR Part 26.

## 11. LIST OF ADDITIONAL DOCUMENTS.

- a. The following documents shall be completed and signed by the bidder and designated DBEs in accordance with Section 7 - Award Documentation and Procedures. These documents must be returned by the bidder to MassDOT's Bid Document Distribution Center:
- ☐ Schedule of DBE Participation (Document B00853)
  - ☐ Letter of Intent (Document B00854)
  - ☐ DBE Joint Check Arrangement Approval Form (Document B00855), if Contractor and DBE plan, or if DBE is required to use a Joint Check
- b. The following document shall be signed and returned by Contractor and Subcontractors/DBEs to the MassDOT District Office overseeing the Project, as applicable:
- ☐ Contractor/Subcontractor Certification Form (Document No. 00859) (a checklist of other documents to be included with every subcontract (DBEs and non-DBEs alike)).
- c. The following document shall be provided to MassDOT's Office of Civil Rights and Prequalification Office at least fourteen (14) business days before the bid opening date, if applicable:
- ☐ Affidavit of DBE/Non-DBE Joint Venture (Document B00856)
- d. The following document shall be provided to MassDOT's District Office of Civil Rights within 30 calendar days after the work of the DBE is completed, or no later than 30 calendar days after the work of the DBE is on a completed and processed CQE. This document shall be completed and submitted by the Prime Contractor:
- ☐ Certificate of Completion by a Minority/Women or Disadvantaged Business Enterprise (M/W/DBE) (Form No. CSD-100)

**REQUIRED CONTRACT PROVISIONS  
FEDERAL-AID CONSTRUCTION CONTRACTS**

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

**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. Form FHWA-1273 must be physically incorporated in each construction contract funded under title 23, United States Code, as required in 23 CFR 633.102(b) (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services). 23 CFR 633.102(e).

The applicable requirements 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 shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider. 23 CFR 633.102(e).

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services) in accordance with 23 CFR 633.102. The 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, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract). 23 CFR 633.102(b).

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 immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract. 23 CFR 633.102(d).

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).

**II. NONDISCRIMINATION** (23 CFR 230.107(a); 23 CFR Part 230, Subpart A, Appendix A; EO 11246)

The provisions of this section related to 23 CFR Part 230, Subpart A, Appendix A are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR Part 60, 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; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR Part 60, and 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; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR Part 230, Subpart A, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

**1. Equal Employment Opportunity:** Equal Employment Opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (see 28 CFR Part 35, 29 CFR Part 1630, 29 CFR Parts 1625-1627, 41 CFR Part 60 and 49 CFR Part 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140, shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. 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. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract. 23 CFR 230.409 (g)(4) & (5).

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, sexual orientation, gender identity, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

**2. EEO Officer:** The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

**3. Dissemination of Policy:** All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action or are substantially involved in such action, will be made fully cognizant of and will implement the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer or other knowledgeable company official.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

**4. Recruitment:** When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

**5. Personnel Actions:** Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to ensure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action

within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

#### 6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs (i.e., apprenticeship and on-the-job training programs for the geographical area of contract performance). In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

**7. Unions:** If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. 23 CFR 230.409. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide

sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

#### 8. Reasonable Accommodation for Applicants /

**Employees with Disabilities:** The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established thereunder. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

#### 9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment:

The contractor shall not discriminate on the grounds of race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors, suppliers, and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

#### 10. Assurances Required:

a. The requirements of 49 CFR Part 26 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 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 are incorporated by reference. 49 CFR Part 21.

**11. Records and Reports:** The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:



(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women.

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

### III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of more than \$10,000. 41 CFR 60-1.5.

As prescribed by 41 CFR 60-1.8, the contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, sexual orientation, gender identity, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location under the contractor's control where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

### IV. 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](mailto: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](mailto: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 V, 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/WHDL/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

the equal employment opportunity requirements of Executive Order 11246, as amended, and [29 CFR part 30](#).

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 IV. 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 FHWA-1273 in any subcontracts, 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](#).

## V. 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.

\* \$31 as of January 15, 2023 (See 88 FR 88 FR 2210) 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 IV 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.

## VI. 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 Section VI 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 Section VI 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 long-standing 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).

## VII. 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).

## VIII. 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."



## IX. 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.

## X. 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.

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## 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.

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### 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 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).

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.

\* \* \* \* \*

#### **XI. 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.

#### **XII. 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 (23 CFR 633, Subpart B, Appendix B)**

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

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 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

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.



## 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

June 18, 2025

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	\$0.52
2	ASTM A27 (AASHTO M103) Steel Castings, H-Pile Points & Pipe Pile Shoes (See Note below.)	\$0.73
3	ASTM A668 / A668M (AASHTO M102) Steel Forgings	\$0.73
4	ASTM A108 (AASHTO M169) Steel Forgings for Shear Studs	\$0.75
5	ASTM A709/A709M Grade 36 / AASHTO M270M/M270 Grade 36 or 250 Structural Steel Plate	\$0.79
6	ASTM A709/A709M Grade 36 / AASHTO M270M/M270 Grade 36 or 250 Structural Steel Shapes	\$0.74
7	ASTM A709/A709M Grade 50 / AASHTO M270M/M270 Grade 50 or 345 Structural Steel Plate	\$0.79
8	ASTM A709/A709M Grade 50 / AASHTO M270M/M270 Grade 50 or 345 Structural Steel Shapes	\$0.74
9	ASTM A709/A709M Grade 50WT / AASHTO M270M/M270 Grade 50WT or 345WT Structural Steel Plate	\$0.82
10	ASTM A709/A709M Grade 50WT / AASHTO M270M/M270 Grade 50WT or 345WT Structural Steel Shapes	\$0.75
11	ASTM A709/A709M Grade 50W / AASHTO M270M/M270 Grade 50W 345W Structural Steel Plate	\$0.82
12	ASTM A709/A709M Grade 50W / AASHTO M270M/M270 Grade 50W or 345W Structural Steel Shapes	\$0.75
13	ASTM A709/A709M Grade HPS 50W / AASHTO M270M/M270 Grade HPS 50W or 345W Structural Steel Plate	\$0.86
14	ASTM A709/A709M Grade HPS 70W / AASHTO M270M/M270 Grade HPS 70W or 485W Structural Steel Plate	\$0.92
15	ASTM A514/A514M-05 Grade HPS 100W / AASHTO M270M/M270 Grade HPS 100W or 690W Structural Steel Plate	\$1.41
16	ASTM A992/A992M Grade 50S / AASHTO M270M/M270 Grade 50S or 345S Structural Steel Plate	\$0.82
17	ASTM A992/A992M Grade 50S / AASHTO M270M/M270 Grade 50S or 345S Structural Steel Shapes	\$0.75
18	ASTM A276 Type 316 Stainless Steel	\$4.24
19	ASTM A240 Type 316 Stainless Steel	\$4.24
20	ASTM A148 Grade 80/50 Steel Castings (See Note below.)	\$1.46
21	ASTM A53 Grade B Structural Steel Pipe	\$0.92
22	ASTM A500 Grades A, B, 36 & 50 Structural Steel Pipe	\$0.92
23	ASTM A252, Grades 240 (36 KSI) & 414 (60 KSI) Pipe Pile	\$0.73
24	ASTM 252, Grade 2 Permanent Steel Casing	\$0.73
25	ASTM A36 (AASHTO M183) for H-piles, steel supports and sign supports	\$0.77
26	ASTM A328 / A328M, Grade 50 (AASHTO M202) Steel Sheetpiling	\$1.39
27	ASTM A572 / A572M, Grade 50 Sheetpiling	\$1.39
28	ASTM A36/36M, Grade 50	\$0.79
29	ASTM A570, Grade 50	\$0.77
30	ASTM A572 (AASHTO M223), Grade 50 H-Piles	\$0.79
31	ASTM A1085 Grade A (50 KSI) Steel Hollow Structural Sections (HSS), heat-treated per ASTM A1085 Supplement S1	\$0.92
32	AREA 140 LB Rail and Track Accessories	\$0.48

**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 00814

SPECIAL PROVISIONS  
PRICE ADJUSTMENT FOR PORTLAND CEMENT CONCRETE MIXES

January 12, 2009

This provision applies to all projects using greater than 100 Cubic Yards (76 Cubic Meters) of Portland cement concrete containing Portland cement as stipulated in the Notice to Contractors section of the Bid Documents. This Price Adjustment will occur on a monthly basis.

The Price Adjustment will be based on the variance in price for the Portland cement component only from the Base Price to the Period Price. It shall not include transportation or other charges.

The Base Price of Portland cement on a project is a fixed price determined at the time of bid by the Department by using the same method as for the determination of the Period Price (see below) and found in the Notice to Contractors.

The Period Price of Portland cement will be determined by using the latest published price, in dollars per ton (U.S.), for Portland cement (Type I) quoted for Boston, U.S.A. in the **Construction Economics** section of *ENR Engineering News-Record* magazine or at the ENR website <http://www.enr.com> under **Construction Economics**. The Period Price will be posted on the MassDOT website the Wednesday immediately following the publishing of the monthly price in ENR, which is normally the first week of the month.

The Contract Price of the Portland cement concrete mix will be paid under the respective item in the Contract. The price adjustment, as herein provided, 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.

The price adjustment applies only to the actual Portland cement content in the mix placed on the job in accordance with the Standard Specifications for Highways and Bridges, Division III, Section M4.02.01. No adjustments will be made for any cement replacement materials such as fly ash or ground granulated blast furnace slag.

The Price Adjustment will be a separate payment item. It will be determined by multiplying the number of cubic yards of Portland cement concrete placed during each monthly period times the Portland cement content percentage times the variance in price between the Base Price and Period Price of Portland cement.

This Price Adjustment 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.

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 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.

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## 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](http://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.

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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: 130937 Project No. 608881 Federal Aid No.: STP-0032(045)XLocation: LONGMEADOW - SPRINGFIELDProject Description: Resurfacing and Intersection Improvements on Longmeadow Street (Route 5) and Converse Street (0.84 Miles)

**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. You may also find guidance at: <http://www.dol.gov/ofccp/TAguides/consttag.pdf> or <http://www.wdol.gov/dba.aspx#0>.
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: \_\_\_\_\_

Estimated Dollar Amount: \_\_\_\_\_

\_\_\_\_\_  
 (Date)

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.

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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 HEALY  
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

<b>Awarding Authority:</b>	MassDOT Highway	<b>City/Town:</b>	LONGMEADOW
<b>Contract Number:</b>	130937		
<b>Description of Work:</b>	LONGMEADOW-SPRINGFIELD – FAP No. STP-0032(045)X Resurfacing and Intersection Improvements on Longmeadow Street (Route 5) and Converse Street (0.84 Miles)		
<b>Job Location:</b>	Along Longmeadow Street (Rte 5) and Converse Street		

**Information about Prevailing Wage Schedules for Awarding Authorities and Contractors**

- The wage rates will remain in effect for the duration of the project, except in the case of multi-year public construction projects. For construction projects lasting longer than one year, awarding authorities must request an updated wage schedule no later than two weeks before the anniversary of the date the contract was executed by the awarding authority and the general contractor. For multi-year CM AT RISK projects, the awarding authority must request an annual update no later than two weeks before the anniversary date, determined as the earlier of: (a) the execution date of the GMP Amendment, or (b) the execution date of the first amendment to permit procurement of construction services. The updated wage schedule must be provided to all contractors, including general and sub-contractors, working on the construction project.
- This annual update requirement is generally not applicable to 27F “rental of equipment” contracts. For such contracts, the prevailing wage rates issued by DLS shall remain in effect for the duration of the contract term. However, if the prevailing wage rate sheet issued does not contain wage rates for each year covered by the contract term, the Awarding Authority must request updated rate sheets from DLS and provide them to the contractor to ensure the correct rates are being paid throughout the duration of the contract. Additionally, if an Awarding Authority exercises an option to renew or extend the contract term, they must request updated rate sheets from DLS and provide them to the contractor.
- This wage schedule applies only to the specific project referenced at the top of this page and uniquely identified by the “Wage Request Number” on all pages of this schedule.
- An Awarding Authority must request an updated wage schedule if it has not opened bids or selected a contractor within 90 days of the date of issuance of the wage schedule. For CM AT RISK projects (bid pursuant to G.L. c.149A), the earlier of: (a) the execution date of the GMP Amendment, or (b) the bid for the first construction scope of work must be within 90-days of the wage schedule issuance date.
- The wage schedule shall be incorporated in any advertisement or call for bids for the project as required by M.G.L. c. 149, § 27. The wage schedule shall be made a part of the contract awarded for the project. The wage schedule must be posted in a conspicuous place at the work site for the life of the project in accordance with M.G.L. c. 149 § 27. The wages listed on the wage schedule must be paid to employees performing construction work on the project whether they are employed by the prime contractor, a filed sub-bidder, or a sub-contractor.
- Apprentices working on the project are required to be registered with the Massachusetts Division of Apprentice Standards (DAS). Apprentices must keep their apprentice identification card on their persons during all work hours on the project. An apprentice registered with DAS may be paid the lower apprentice wage rate at the applicable step as provided on the prevailing wage schedule. **Any apprentice not registered with DAS regardless of whether they are registered with another federal, state, local, or private agency must be paid the journeyworker’s rate.**
- Every contractor or subcontractor working on the construction project must submit weekly payroll reports and a Statement of Compliance directly to the awarding authority by mail or email and keep them on file for three years. Each weekly payroll report must contain: the employee’s name, address, occupational classification, hours worked, and wages paid. Do not submit weekly payroll reports to DLS. For a sample payroll reporting form go to <http://www.mass.gov/dols/pw>.
- Contractors with questions about the wage rates or classifications included on the wage schedule have an affirmative obligation to inquire with DLS at (617) 626-6953.
- Contractors must obtain the wage schedules from awarding authorities. Failure of a contractor or subcontractor to pay the prevailing wage rates listed on the wage schedule to all employees who perform construction work on the project is a violation of the law and subjects the contractor or subcontractor to civil and criminal penalties.
- Employees not receiving the prevailing wage rate set forth on the wage schedule may file a complaint with the Fair Labor Division of the office of the Attorney General at (617) 727-3465.

**Construction**

<b>Classification</b>	<b>Effective Date</b>	<b>Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
(2 AXLE) DRIVER - EQUIPMENT	6/1/2025	\$40.95	\$15.57	\$20.17	\$0.00	\$0.00	\$76.69
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2025	\$40.95	\$15.57	\$21.78	\$0.00	\$0.00	\$78.30
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2026	\$40.95	\$16.17	\$21.78	\$0.00	\$0.00	\$78.90
	6/1/2026	\$41.95	\$16.17	\$21.78	\$0.00	\$0.00	\$79.90
	12/1/2026	\$41.95	\$16.17	\$23.52	\$0.00	\$0.00	\$81.64
	1/1/2027	\$41.95	\$16.77	\$23.52	\$0.00	\$0.00	\$82.24
(3 AXLE) DRIVER - EQUIPMENT	6/1/2025	\$41.02	\$15.57	\$20.17	\$0.00	\$0.00	\$76.76
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2025	\$41.02	\$15.57	\$21.78	\$0.00	\$0.00	\$78.37
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2026	\$41.02	\$16.17	\$21.78	\$0.00	\$0.00	\$78.97
	6/1/2026	\$42.02	\$16.17	\$21.78	\$0.00	\$0.00	\$79.97
	12/1/2026	\$42.02	\$16.17	\$23.52	\$0.00	\$0.00	\$81.71
	1/1/2027	\$42.02	\$16.77	\$23.52	\$0.00	\$0.00	\$82.31
(4 & 5 AXLE) DRIVER - EQUIPMENT	6/1/2025	\$41.14	\$15.57	\$20.17	\$0.00	\$0.00	\$76.88
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2025	\$41.14	\$15.57	\$21.78	\$0.00	\$0.00	\$78.49
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2026	\$41.14	\$16.17	\$21.78	\$0.00	\$0.00	\$79.09
	6/1/2026	\$42.14	\$16.17	\$21.78	\$0.00	\$0.00	\$80.09
	12/1/2026	\$42.14	\$16.17	\$23.52	\$0.00	\$0.00	\$81.83
	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	6/2/2025	\$37.00	\$9.90	\$9.25	\$8.32	\$0.00	\$64.47
LABORERS	12/1/2025	\$38.25	\$9.90	\$9.25	\$8.32	\$0.00	\$65.72
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.55	\$9.90	\$9.25	\$8.32	\$0.00	\$67.02
	12/7/2026	\$40.85	\$9.90	\$9.25	\$8.32	\$0.00	\$68.32
	6/7/2027	\$42.25	\$9.90	\$9.25	\$8.32	\$0.00	\$69.72
	12/6/2027	\$43.65	\$9.90	\$9.25	\$8.32	\$0.00	\$71.12
	6/5/2028	\$45.15	\$9.90	\$9.25	\$8.32	\$0.00	\$72.62
	12/4/2028	\$46.65	\$9.90	\$9.25	\$8.32	\$0.00	\$74.12
For apprentice rates see "Apprentice- LABORER"							
AIR TRACK OPERATOR (HEAVY & HIGHWAY)	6/1/2025	\$37.00	\$9.90	\$9.25	\$6.31	\$0.00	\$62.46
LABORERS	12/1/2025	\$38.24	\$9.90	\$9.25	\$6.31	\$0.00	\$63.70
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	\$39.54	\$9.90	\$9.25	\$6.31	\$0.00	\$65.00
	12/1/2026	\$40.83	\$9.90	\$9.25	\$6.31	\$0.00	\$66.29
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
ASBESTOS WORKER (PIPES & TANKS)	6/1/2025	\$39.42	\$14.50	\$4.30	\$6.25	\$0.00	\$64.47
HEAT & FROST INSULATORS LOCAL 6	12/1/2025	\$40.32	\$14.50	\$4.30	\$6.25	\$0.00	\$65.37
HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)							
ASPHALT RAKER	6/2/2025	\$36.50	\$9.90	\$9.25	\$8.32	\$0.00	\$63.97
LABORERS	12/1/2025	\$37.75	\$9.90	\$9.25	\$8.32	\$0.00	\$65.22
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.05	\$9.90	\$9.25	\$8.32	\$0.00	\$66.52
	12/7/2026	\$40.35	\$9.90	\$9.25	\$8.32	\$0.00	\$67.82

**Construction**

<b>Classification</b>	<b>Effective Date</b>	<b>Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
	6/7/2027	\$41.75	\$9.90	\$9.25	\$8.32	\$0.00	\$69.22
	12/6/2027	\$43.15	\$9.90	\$9.25	\$8.32	\$0.00	\$70.62
	6/5/2028	\$44.65	\$9.90	\$9.25	\$8.32	\$0.00	\$72.12
	12/4/2028	\$46.15	\$9.90	\$9.25	\$8.32	\$0.00	\$73.62
For apprentice rates see "Apprentice- LABORER"							
ASPHALT RAKER (HEAVY & HIGHWAY)	6/1/2025	\$36.50	\$9.90	\$9.25	\$6.31	\$0.00	\$61.96
LABORERS	12/1/2025	\$37.74	\$9.90	\$9.25	\$6.31	\$0.00	\$63.20
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	\$39.04	\$9.90	\$9.25	\$6.31	\$0.00	\$64.50
	12/1/2026	\$40.33	\$9.90	\$9.25	\$6.31	\$0.00	\$65.79
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"							
BACKHOE/FRONT-END LOADER OPERATOR	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"							
BARCO-TYPE JUMPING TAMPER	6/2/2025	\$36.50	\$9.90	\$9.25	\$8.32	\$0.00	\$63.97
LABORERS	12/1/2025	\$37.75	\$9.90	\$9.25	\$8.32	\$0.00	\$65.22
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.05	\$9.90	\$9.25	\$8.32	\$0.00	\$66.52
	12/7/2026	\$40.35	\$9.90	\$9.25	\$8.32	\$0.00	\$67.82
	6/7/2027	\$41.75	\$9.90	\$9.25	\$8.32	\$0.00	\$69.22
	12/6/2027	\$43.15	\$9.90	\$9.25	\$8.32	\$0.00	\$70.62
	6/5/2028	\$44.65	\$9.90	\$9.25	\$8.32	\$0.00	\$72.12
	12/4/2028	\$46.15	\$9.90	\$9.25	\$8.32	\$0.00	\$73.62
For apprentice rates see "Apprentice- LABORER"							
BATCH/CEMENT PLANT - ON SITE	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"							
BLOCK PAVER, RAMMER / CURB SETTER	6/2/2025	\$37.00	\$9.90	\$9.25	\$8.32	\$0.00	\$64.47
LABORERS	12/1/2025	\$38.25	\$9.90	\$9.25	\$8.32	\$0.00	\$65.72
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.55	\$9.90	\$9.25	\$8.32	\$0.00	\$67.02
	12/7/2026	\$40.85	\$9.90	\$9.25	\$8.32	\$0.00	\$68.32
	6/7/2027	\$42.25	\$9.90	\$9.25	\$8.32	\$0.00	\$69.72
	12/6/2027	\$43.65	\$9.90	\$9.25	\$8.32	\$0.00	\$71.12
	6/5/2028	\$45.15	\$9.90	\$9.25	\$8.32	\$0.00	\$72.62
	12/4/2028	\$46.65	\$9.90	\$9.25	\$8.32	\$0.00	\$74.12
For apprentice rates see "Apprentice- LABORER"							
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY)	6/1/2025	\$37.00	\$9.90	\$9.25	\$6.31	\$0.00	\$62.46
LABORERS	12/1/2025	\$38.24	\$9.90	\$9.25	\$6.31	\$0.00	\$63.70
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	\$39.54	\$9.90	\$9.25	\$6.31	\$0.00	\$65.00
	12/1/2026	\$40.83	\$9.90	\$9.25	\$6.31	\$0.00	\$66.29
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BOILER MAKER	1/1/2024	\$48.12	\$7.07	\$14.60	\$6.00	\$0.00	\$75.79
BOILERMAKERS LOCAL 29							
BOILERMAKERS LOCAL 29							

**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

BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)	2/1/2025	\$54.21	\$11.49	\$15.57	\$5.89	\$0.00	\$87.16
BRICKLAYERS LOCAL 3	8/1/2025	\$56.36	\$11.49	\$15.57	\$5.89	\$0.00	\$89.31
BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)	2/1/2026	\$57.71	\$11.49	\$15.57	\$5.89	\$0.00	\$90.66
	8/1/2026	\$59.91	\$11.49	\$15.57	\$5.89	\$0.00	\$92.86
	2/1/2027	\$61.31	\$11.49	\$15.57	\$5.89	\$0.00	\$94.26

**Apprentice: BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)****Effective Date: 2/1/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$27.11	\$11.49	\$15.57	\$5.89	\$0.00	\$60.06
2	60.00	\$32.53	\$11.49	\$15.57	\$5.89	\$0.00	\$65.48
3	70.00	\$37.95	\$11.49	\$15.57	\$5.89	\$0.00	\$70.90
4	80.00	\$43.37	\$11.49	\$15.57	\$5.89	\$0.00	\$76.32
5	90.00	\$48.79	\$11.49	\$15.57	\$5.89	\$0.00	\$81.74

**Apprentice: BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)****Effective Date: 8/1/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$28.18	\$11.49	\$15.57	\$5.89	\$0.00	\$61.13
2	60.00	\$33.82	\$11.49	\$15.57	\$5.89	\$0.00	\$66.77
3	70.00	\$39.45	\$11.49	\$15.57	\$5.89	\$0.00	\$72.40
4	80.00	\$45.09	\$11.49	\$15.57	\$5.89	\$0.00	\$78.04
5	90.00	\$50.72	\$11.49	\$15.57	\$5.89	\$0.00	\$83.67

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							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
CAISSON & UNDERPINNING BOTTOM MAN LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2025	\$48.85	\$9.90	\$9.25	\$9.80	\$0.00	\$77.80
	12/1/2025	\$50.35	\$9.90	\$9.25	\$9.80	\$0.00	\$79.30
	6/1/2026	\$51.90	\$9.90	\$9.25	\$9.80	\$0.00	\$80.85
	12/1/2026	\$53.40	\$9.90	\$9.25	\$9.80	\$0.00	\$82.35
For apprentice rates see "Apprentice- LABORER"							
CAISSON & UNDERPINNING LABORER LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2025	\$47.70	\$9.90	\$9.25	\$9.80	\$0.00	\$76.65
	12/1/2025	\$49.20	\$9.90	\$9.25	\$9.80	\$0.00	\$78.15
	6/1/2026	\$50.75	\$9.90	\$9.25	\$9.80	\$0.00	\$79.70
	12/1/2026	\$52.25	\$9.90	\$9.25	\$9.80	\$0.00	\$81.20
For apprentice rates see "Apprentice- LABORER"							
CAISSON & UNDERPINNING TOP MAN LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2025	\$48.03	\$9.90	\$9.25	\$9.80	\$0.00	\$76.98
	12/1/2025	\$49.53	\$9.90	\$9.25	\$9.80	\$0.00	\$78.48
	6/1/2026	\$51.08	\$9.90	\$9.25	\$9.80	\$0.00	\$80.03
	12/1/2026	\$52.58	\$9.90	\$9.25	\$9.80	\$0.00	\$81.53
For apprentice rates see "Apprentice- LABORER"							
CARBIDE CORE DRILL OPERATOR LABORERS LABORERS - ZONE 3 (BUILDING & SITE)	6/2/2025	\$36.50	\$9.90	\$9.25	\$8.32	\$0.00	\$63.97
	12/1/2025	\$37.75	\$9.90	\$9.25	\$8.32	\$0.00	\$65.22
	6/1/2026	\$39.05	\$9.90	\$9.25	\$8.32	\$0.00	\$66.52
	12/7/2026	\$40.35	\$9.90	\$9.25	\$8.32	\$0.00	\$67.82
	6/7/2027	\$41.75	\$9.90	\$9.25	\$8.32	\$0.00	\$69.22
	12/6/2027	\$43.15	\$9.90	\$9.25	\$8.32	\$0.00	\$70.62
	6/5/2028	\$44.65	\$9.90	\$9.25	\$8.32	\$0.00	\$72.12
	12/4/2028	\$46.15	\$9.90	\$9.25	\$8.32	\$0.00	\$73.62
For apprentice rates see "Apprentice- LABORER"							
CARPENTER CARPENTERS CARPENTERS LOCAL 336 - HAMPDEN HAMPSHIRE FRANKLIN	3/1/2025	\$43.26	\$7.91	\$11.25	\$6.90	\$0.00	\$69.32
	9/1/2025	\$44.21	\$7.91	\$11.25	\$6.90	\$0.00	\$70.27
	3/1/2026	\$45.11	\$7.91	\$11.25	\$6.90	\$0.00	\$71.17
	9/1/2026	\$46.06	\$7.91	\$11.25	\$6.90	\$0.00	\$72.12
	3/1/2027	\$46.96	\$7.91	\$11.25	\$6.90	\$0.00	\$73.02

Apprentice: CARPENTER							
Effective Date: 3/1/2025							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$19.47	\$7.91	\$0.00	\$1.40	\$0.00	\$28.78
2	45.00	\$19.47	\$7.91	\$0.00	\$1.40	\$0.00	\$28.78
3	55.00	\$23.79	\$7.91	\$0.00	\$2.76	\$0.00	\$34.46
4	55.00	\$23.79	\$7.91	\$0.00	\$2.76	\$0.00	\$34.46
5	70.00	\$30.28	\$7.91	\$11.25	\$4.14	\$0.00	\$53.58
6	70.00	\$30.28	\$7.91	\$11.25	\$4.14	\$0.00	\$53.58
7	80.00	\$34.61	\$7.91	\$11.25	\$5.52	\$0.00	\$59.29
8	80.00	\$34.61	\$7.91	\$11.25	\$5.52	\$0.00	\$59.29

## Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
<b>Apprentice: CARPENTER</b> <b>Effective Date: 9/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$19.89	\$7.91	\$0.00	\$1.38	\$0.00	\$29.18
2	45.00	\$19.89	\$7.91	\$0.00	\$1.38	\$0.00	\$29.18
3	55.00	\$24.32	\$7.91	\$0.00	\$2.76	\$0.00	\$34.99
4	55.00	\$24.32	\$7.91	\$0.00	\$2.76	\$0.00	\$34.99
5	70.00	\$30.95	\$7.91	\$11.25	\$4.14	\$0.00	\$54.25
6	70.00	\$30.95	\$7.91	\$11.25	\$4.14	\$0.00	\$54.25
7	80.00	\$35.37	\$7.91	\$11.25	\$5.52	\$0.00	\$60.05
8	80.00	\$35.37	\$7.91	\$11.25	\$5.52	\$0.00	\$60.05
<hr/>							
CARPENTER WOOD FRAME	10/1/2024	\$26.65	\$7.02	\$3.80	\$1.00	\$0.00	\$38.47
CARPENTERS	10/1/2025	\$27.75	\$7.02	\$3.80	\$1.00	\$0.00	\$39.57
CARPENTERS-ZONE 3 (Wood Frame)	10/1/2026	\$28.85	\$7.02	\$3.80	\$1.00	\$0.00	\$40.67
All Aspects of New Wood Frame Work							

<b>Apprentice: CARPENTER WOOD FRAME</b> <b>Effective Date: 10/1/2024</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$15.99	\$7.02	\$0.00	\$0.00	\$0.00	\$23.01
2	60.00	\$15.99	\$7.02	\$0.00	\$0.00	\$0.00	\$23.01
3	65.00	\$17.32	\$7.02	\$0.00	\$1.00	\$0.00	\$25.34
4	70.00	\$18.66	\$7.02	\$0.00	\$1.00	\$0.00	\$26.68
5	75.00	\$19.99	\$7.02	\$3.80	\$1.00	\$0.00	\$31.81
6	80.00	\$21.32	\$7.02	\$3.80	\$1.00	\$0.00	\$33.14
7	85.00	\$22.65	\$7.02	\$3.80	\$1.00	\$0.00	\$34.47
8	90.00	\$23.99	\$7.02	\$3.80	\$1.00	\$0.00	\$35.81

<b>Apprentice: CARPENTER WOOD FRAME</b> <b>Effective Date: 10/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$16.65	\$7.02	\$0.00	\$0.00	\$0.00	\$23.67
2	60.00	\$16.65	\$7.02	\$0.00	\$0.00	\$0.00	\$23.67
3	65.00	\$18.04	\$7.02	\$0.00	\$1.00	\$0.00	\$26.06
4	70.00	\$19.43	\$7.02	\$0.00	\$1.00	\$0.00	\$27.45
5	75.00	\$20.81	\$7.02	\$3.80	\$1.00	\$0.00	\$32.63
6	80.00	\$22.20	\$7.02	\$3.80	\$1.00	\$0.00	\$34.02
7	85.00	\$23.59	\$7.02	\$3.80	\$1.00	\$0.00	\$35.41
8	90.00	\$24.98	\$7.02	\$3.80	\$1.00	\$0.00	\$36.80

CEMENT MASONRY/PLASTERING	7/1/2024	\$44.56	\$13.20	\$16.30	\$2.93	\$1.69	\$78.68
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**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BRICKLAYERS LOCAL 3							
BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)							

**Apprentice: CEMENT MASONRY/PLASTERING****Effective Date: 7/1/2024**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$22.28	\$13.20	\$16.30	\$0.00	\$0.00	\$51.78
2	60.00	\$26.74	\$13.20	\$16.30	\$2.93	\$1.69	\$60.86
3	65.00	\$28.96	\$13.20	\$16.30	\$2.93	\$1.69	\$63.08
4	70.00	\$31.19	\$13.20	\$16.30	\$2.93	\$1.69	\$65.31
5	75.00	\$33.42	\$13.20	\$16.30	\$2.93	\$1.69	\$67.54
6	80.00	\$35.65	\$13.20	\$16.30	\$2.93	\$1.69	\$69.77
7	90.00	\$40.10	\$13.20	\$16.30	\$2.93	\$1.69	\$74.22

CHAIN SAW OPERATOR	6/2/2025	\$36.50	\$9.90	\$9.25	\$8.32	\$0.00	\$63.97
LABORERS	12/1/2025	\$37.75	\$9.90	\$9.25	\$8.32	\$0.00	\$65.22
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.05	\$9.90	\$9.25	\$8.32	\$0.00	\$66.52
	12/7/2026	\$40.35	\$9.90	\$9.25	\$8.32	\$0.00	\$67.82
	6/7/2027	\$41.75	\$9.90	\$9.25	\$8.32	\$0.00	\$69.22
	12/6/2027	\$43.15	\$9.90	\$9.25	\$8.32	\$0.00	\$70.62
	6/5/2028	\$44.65	\$9.90	\$9.25	\$8.32	\$0.00	\$72.12
	12/4/2028	\$46.15	\$9.90	\$9.25	\$8.32	\$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)	1/1/2025	\$58.46	\$9.95	\$11.85	\$12.10	\$0.00	\$92.36
PAINTERS LOCAL 35							
PAINTERS LOCAL 35 - ZONE 3							

**Apprentice: DELEADER (BRIDGE)****Effective Date: 1/1/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$29.23	\$9.95	\$0.00	\$0.00	\$0.00	\$39.18
2	55.00	\$32.15	\$9.95	\$0.00	\$6.66	\$0.00	\$48.76
3	60.00	\$35.08	\$9.95	\$0.00	\$7.26	\$0.00	\$52.29
4	65.00	\$38.00	\$9.95	\$0.00	\$7.87	\$0.00	\$55.82
5	70.00	\$40.92	\$9.95	\$11.85	\$8.47	\$0.00	\$71.19

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate																																
<div>Apprentice: DELEADER (BRIDGE)</div> <div>Effective Date: 1/1/2025</div> <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>6</td><td>75.00</td><td>\$43.85</td><td>\$9.95</td><td>\$11.85</td><td>\$9.08</td><td>\$0.00</td><td>\$74.73</td></tr><tr><td>7</td><td>80.00</td><td>\$46.77</td><td>\$9.95</td><td>\$11.85</td><td>\$9.68</td><td>\$0.00</td><td>\$78.25</td></tr><tr><td>8</td><td>90.00</td><td>\$52.61</td><td>\$9.95</td><td>\$11.85</td><td>\$10.89</td><td>\$0.00</td><td>\$85.30</td></tr></tbody></table>								Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate	6	75.00	\$43.85	\$9.95	\$11.85	\$9.08	\$0.00	\$74.73	7	80.00	\$46.77	\$9.95	\$11.85	\$9.68	\$0.00	\$78.25	8	90.00	\$52.61	\$9.95	\$11.85	\$10.89	\$0.00	\$85.30
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate																																
6	75.00	\$43.85	\$9.95	\$11.85	\$9.08	\$0.00	\$74.73																																
7	80.00	\$46.77	\$9.95	\$11.85	\$9.68	\$0.00	\$78.25																																
8	90.00	\$52.61	\$9.95	\$11.85	\$10.89	\$0.00	\$85.30																																
DEMO: ADZEMAN	6/2/2025	\$47.75	\$9.90	\$9.25	\$9.65	\$0.00	\$76.55																																
LABORERS	12/1/2025	\$49.25	\$9.90	\$9.25	\$9.65	\$0.00	\$78.05																																
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$50.80	\$9.90	\$9.25	\$9.65	\$0.00	\$79.60																																
	12/7/2026	\$52.30	\$9.90	\$9.25	\$9.65	\$0.00	\$81.10																																
	6/7/2027	\$53.90	\$9.90	\$9.25	\$9.65	\$0.00	\$82.70																																
	12/6/2027	\$55.50	\$9.90	\$9.25	\$9.65	\$0.00	\$84.30																																
	6/5/2028	\$57.18	\$9.90	\$9.25	\$9.65	\$0.00	\$85.98																																
	12/4/2028	\$58.85	\$9.90	\$9.25	\$9.65	\$0.00	\$87.65																																
For apprentice rates see "Apprentice- LABORER"																																							
DEMO: BACKHOE/LOADER/HAMMER OPERATOR	6/2/2025	\$48.75	\$9.90	\$9.25	\$9.65	\$0.00	\$77.55																																
LABORERS	12/1/2025	\$50.25	\$9.90	\$9.25	\$9.65	\$0.00	\$79.05																																
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$51.80	\$9.90	\$9.25	\$9.65	\$0.00	\$80.60																																
	12/7/2026	\$53.30	\$9.90	\$9.25	\$9.65	\$0.00	\$82.10																																
	6/7/2027	\$54.90	\$9.90	\$9.25	\$9.65	\$0.00	\$83.70																																
	12/6/2027	\$56.50	\$9.90	\$9.25	\$9.65	\$0.00	\$85.30																																
	6/5/2028	\$58.18	\$9.90	\$9.25	\$9.65	\$0.00	\$86.98																																
	12/4/2028	\$59.85	\$9.90	\$9.25	\$9.65	\$0.00	\$88.65																																
For apprentice rates see "Apprentice- LABORER"																																							
DEMO: BURNERS	6/2/2025	\$49.25	\$9.65	\$9.00	\$9.40	\$0.00	\$77.30																																
LABORERS	12/1/2025	\$50.75	\$9.65	\$9.00	\$9.40	\$0.00	\$78.80																																
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$52.30	\$9.65	\$9.00	\$9.40	\$0.00	\$80.35																																
	12/7/2026	\$53.80	\$9.65	\$9.00	\$9.40	\$0.00	\$81.85																																
	6/7/2027	\$55.40	\$9.65	\$9.00	\$9.40	\$0.00	\$83.45																																
	12/6/2027	\$57.00	\$9.65	\$9.00	\$9.40	\$0.00	\$85.05																																
	6/5/2028	\$58.68	\$9.65	\$9.00	\$9.40	\$0.00	\$86.73																																
	12/4/2028	\$60.35	\$9.65	\$9.00	\$9.40	\$0.00	\$88.40																																
For apprentice rates see "Apprentice- LABORER"																																							
DEMO: CONCRETE CUTTER/SAWYER	6/2/2025	\$48.75	\$9.90	\$9.25	\$9.65	\$0.00	\$77.55																																
LABORERS	12/1/2025	\$50.25	\$9.90	\$9.25	\$9.65	\$0.00	\$79.05																																
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$51.80	\$9.90	\$9.25	\$9.65	\$0.00	\$80.60																																
	12/7/2026	\$53.30	\$9.90	\$9.25	\$9.65	\$0.00	\$82.10																																
	6/7/2027	\$54.90	\$9.90	\$9.25	\$9.65	\$0.00	\$83.70																																
	12/6/2027	\$56.50	\$9.90	\$9.25	\$9.65	\$0.00	\$85.30																																
	6/5/2028	\$58.18	\$9.90	\$9.25	\$9.65	\$0.00	\$86.98																																
	12/4/2028	\$59.85	\$9.90	\$9.25	\$9.65	\$0.00	\$88.65																																
For apprentice rates see "Apprentice- LABORER"																																							
DEMO: JACKHAMMER OPERATOR	6/2/2025	\$49.25	\$9.65	\$9.00	\$9.40	\$0.00	\$77.30																																



**Construction**

<b>Classification</b>	<b>Effective Date</b>	<b>Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
LABORERS	12/1/2025	\$50.75	\$9.65	\$9.00	\$9.40	\$0.00	\$78.80
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$52.30	\$9.65	\$9.00	\$9.40	\$0.00	\$80.35
	12/7/2026	\$53.80	\$9.65	\$9.00	\$9.40	\$0.00	\$81.85
	6/7/2027	\$55.40	\$9.65	\$9.00	\$9.40	\$0.00	\$83.45
	12/6/2027	\$57.00	\$9.65	\$9.00	\$9.40	\$0.00	\$85.05
	6/5/2028	\$58.68	\$9.65	\$9.00	\$9.40	\$0.00	\$86.73
	12/4/2028	\$60.35	\$9.65	\$9.00	\$9.40	\$0.00	\$88.40

For apprentice rates see "Apprentice- LABORER"

DEMO: WRECKING LABORER	6/2/2025	\$47.75	\$9.90	\$9.25	\$9.65	\$0.00	\$76.55
LABORERS	12/1/2025	\$49.25	\$9.90	\$9.25	\$9.65	\$0.00	\$78.05
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$50.80	\$9.90	\$9.25	\$9.65	\$0.00	\$79.60
	12/7/2026	\$52.30	\$9.90	\$9.25	\$9.65	\$0.00	\$81.10
	6/7/2027	\$53.90	\$9.90	\$9.25	\$9.65	\$0.00	\$82.70
	12/6/2027	\$55.50	\$9.90	\$9.25	\$9.65	\$0.00	\$84.30
	6/5/2028	\$57.18	\$9.90	\$9.25	\$9.65	\$0.00	\$85.98
	12/4/2028	\$58.85	\$9.90	\$9.25	\$9.65	\$0.00	\$87.65

For apprentice rates see "Apprentice- LABORER"

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)	6/29/2025	\$52.16	\$13.50	\$8.31	\$6.90	\$0.00	\$80.87
ELECTRICIANS LOCAL 7	12/28/2025	\$53.26	\$13.75	\$8.40	\$6.96	\$0.00	\$82.37
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

**Apprentice: ELECTRICIAN (Including Core Drilling)****Effective Date: 6/29/2025**

<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
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**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
<b>Apprentice: ELECTRICIAN (Including Core Drilling)</b>							
<b>Effective Date: 6/29/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	\$20.86	\$7.50	\$0.63	\$0.00	\$0.00	\$28.99
2	45.00	\$23.47	\$7.50	\$0.70	\$0.00	\$0.00	\$31.67
3	50.00	\$26.08	\$13.50	\$7.53	\$0.00	\$0.00	\$47.11
4	55.00	\$28.69	\$13.50	\$7.61	\$0.00	\$0.00	\$49.80
5	65.00	\$33.90	\$13.50	\$9.84	\$0.00	\$0.00	\$57.24
6	70.00	\$36.51	\$13.50	\$11.30	\$0.00	\$0.00	\$61.31

<b>Apprentice: ELECTRICIAN (Including Core Drilling)</b>							
<b>Effective Date: 12/28/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	\$21.30	\$7.65	\$0.63	\$0.00	\$0.00	\$29.58
2	45.00	\$23.97	\$7.65	\$0.70	\$0.00	\$0.00	\$32.32
3	50.00	\$26.63	\$13.75	\$7.53	\$0.00	\$0.00	\$47.91
4	55.00	\$29.29	\$13.75	\$7.61	\$0.00	\$0.00	\$50.65
5	65.00	\$34.62	\$13.75	\$9.84	\$0.00	\$0.00	\$58.21
6	70.00	\$37.28	\$13.75	\$11.30	\$0.00	\$0.00	\$62.33

ELEVATOR CONSTRUCTOR	1/1/2025	\$62.83	\$16.28	\$10.96	\$10.40	\$0.00	\$100.47
ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2026	\$63.68	\$16.38	\$11.06	\$10.70	\$0.00	\$101.82
ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2027	\$64.53	\$16.48	\$11.16	\$11.00	\$0.00	\$103.17

<b>Apprentice: ELEVATOR CONSTRUCTOR</b>							
<b>Effective Date: 1/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$31.42	\$16.28	\$0.00	\$0.00	\$0.00	\$47.70
2	55.00	\$34.56	\$16.28	\$10.96	\$10.40	\$0.00	\$72.20
3	65.00	\$40.84	\$16.28	\$10.96	\$10.40	\$0.00	\$78.48
4	70.00	\$43.98	\$16.28	\$10.96	\$10.40	\$0.00	\$81.62
5	80.00	\$50.26	\$16.28	\$10.96	\$10.40	\$0.00	\$87.90

<b>Apprentice: ELEVATOR CONSTRUCTOR</b>							
<b>Effective Date: 1/1/2026</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$31.84	\$16.38	\$0.00	\$0.00	\$0.00	\$48.22
2	55.00	\$35.02	\$16.38	\$11.06	\$10.70	\$0.00	\$73.16
3	65.00	\$41.39	\$16.38	\$11.06	\$10.70	\$0.00	\$79.53
4	70.00	\$44.58	\$16.38	\$11.06	\$10.70	\$0.00	\$82.72

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate																
	<div>Apprentice: ELEVATOR CONSTRUCTOR</div> <div>Effective Date: 1/1/2026</div> <table><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><tr><td>5</td><td>80.00</td><td>\$50.94</td><td>\$16.38</td><td>\$11.06</td><td>\$10.70</td><td>\$0.00</td><td>\$89.08</td></tr></table>							Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate	5	80.00	\$50.94	\$16.38	\$11.06	\$10.70	\$0.00	\$89.08
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate																
5	80.00	\$50.94	\$16.38	\$11.06	\$10.70	\$0.00	\$89.08																
ELEVATOR CONSTRUCTOR HELPER	1/1/2025	\$43.98	\$16.28	\$10.96	\$10.40	\$0.00	\$81.62																
ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2026	\$44.58	\$16.38	\$11.06	\$10.70	\$0.00	\$82.72																
ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2027	\$45.17	\$16.48	\$11.16	\$11.00	\$0.00	\$83.81																
For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"																							
FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY)	6/1/2025	\$36.50	\$9.90	\$9.25	\$6.31	\$0.00	\$61.96																
LABORERS	12/1/2025	\$37.74	\$9.90	\$9.25	\$6.31	\$0.00	\$63.20																
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	\$39.04	\$9.90	\$9.25	\$6.31	\$0.00	\$64.50																
	12/1/2026	\$40.33	\$9.90	\$9.25	\$6.31	\$0.00	\$65.79																
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																							
FIRE ALARM INSTALLER	6/29/2025	\$52.16	\$13.50	\$8.31	\$6.90	\$0.00	\$80.87																
ELECTRICIANS LOCAL 7	12/28/2025	\$53.26	\$13.75	\$8.40	\$6.96	\$0.00	\$82.37																
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"																							
FIRE ALARM REPAIR / MAINTENANCE	6/29/2025	\$52.16	\$13.50	\$8.31	\$6.90	\$0.00	\$80.87																
/ COMMISSIONING	12/28/2025	\$53.26	\$13.75	\$8.40	\$6.96	\$0.00	\$82.37																
ELECTRICIANS LOCAL 7	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																
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
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Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
<b>Apprentice: FIREMAN</b> <b>Effective Date: 12/1/2023</b>							
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
FLAGGER & SIGNALER (HEAVY & HIGHWAY)	6/1/2025	\$28.09	\$9.90	\$9.25	\$6.31	\$0.00	\$53.55
LABORERS	12/1/2025	\$28.09	\$9.90	\$9.25	\$6.31	\$0.00	\$53.55
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	\$29.21	\$9.90	\$9.25	\$6.31	\$0.00	\$54.67
	12/1/2026	\$29.21	\$9.90	\$9.25	\$6.31	\$0.00	\$54.67
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
FLOORCOVERER	3/1/2025	\$43.26	\$7.91	\$11.25	\$6.90	\$0.00	\$69.32
FLOORCOVERERS LOCAL 2168	9/1/2025	\$44.21	\$7.91	\$11.25	\$6.90	\$0.00	\$70.27
FLOORCOVERERS LOCAL 2168 ZONE III	3/1/2026	\$45.11	\$7.91	\$11.25	\$6.90	\$0.00	\$71.17
	9/1/2026	\$46.06	\$7.91	\$11.25	\$6.90	\$0.00	\$72.12
	3/1/2027	\$46.96	\$7.91	\$11.25	\$6.90	\$0.00	\$73.02
<b>Apprentice: FLOORCOVERER</b> <b>Effective Date: 3/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$19.47	\$7.91	\$0.00	\$1.38	\$0.00	\$28.76
2	45.00	\$19.47	\$7.91	\$0.00	\$1.38	\$0.00	\$28.76
3	55.00	\$23.79	\$7.91	\$0.00	\$2.76	\$0.00	\$34.46
4	55.00	\$23.79	\$7.91	\$0.00	\$2.76	\$0.00	\$34.46
5	70.00	\$30.28	\$7.91	\$11.25	\$4.14	\$0.00	\$53.58
6	70.00	\$30.28	\$7.91	\$11.25	\$4.14	\$0.00	\$53.58
7	80.00	\$34.61	\$7.91	\$11.25	\$5.52	\$0.00	\$59.29
8	80.00	\$34.61	\$7.91	\$11.25	\$5.52	\$0.00	\$59.29
<b>Apprentice: FLOORCOVERER</b> <b>Effective Date: 9/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$19.89	\$7.91	\$0.00	\$1.38	\$0.00	\$29.18
2	45.00	\$19.89	\$7.91	\$0.00	\$1.38	\$0.00	\$29.18
3	55.00	\$24.32	\$7.91	\$0.00	\$2.76	\$0.00	\$34.99
4	55.00	\$24.32	\$7.91	\$0.00	\$2.76	\$0.00	\$34.99
5	70.00	\$30.95	\$7.91	\$11.25	\$4.14	\$0.00	\$54.25
6	70.00	\$30.95	\$7.91	\$11.25	\$4.14	\$0.00	\$54.25
7	80.00	\$35.37	\$7.91	\$11.25	\$5.52	\$0.00	\$60.05
8	80.00	\$35.37	\$7.91	\$11.25	\$5.52	\$0.00	\$60.05

**Construction**

<b>Classification</b>	<b>Effective Date</b>	<b>Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>																																																																								
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																																																																								
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																																																																								
For apprentice rates see "Apprentice- OPERATING ENGINEERS"																																																																															
GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS) GLAZIERS LOCAL 1333 GLAZIERS LOCAL 1333	6/1/2020	\$39.18	\$10.80	\$6.70	\$3.75	\$0.00	\$60.43																																																																								
<b>Apprentice: GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)</b> <b>Effective Date: 6/1/2020</b> <table> <tr> <th><b>Step</b></th><th><b>Percent</b></th><th><b>Apprentice Base Wage</b></th><th><b>Health</b></th><th><b>Pension</b></th><th><b>Annuity</b></th><th><b>Supplemental Unemployment</b></th><th><b>Total Rate</b></th></tr> <tr><td>1</td><td>50.00</td><td>\$19.59</td><td>\$10.80</td><td>\$1.50</td><td>\$0.30</td><td>\$0.00</td><td>\$32.19</td></tr> <tr><td>2</td><td>56.25</td><td>\$22.04</td><td>\$10.80</td><td>\$1.50</td><td>\$0.30</td><td>\$0.00</td><td>\$34.64</td></tr> <tr><td>3</td><td>62.50</td><td>\$24.49</td><td>\$10.80</td><td>\$1.95</td><td>\$0.50</td><td>\$0.00</td><td>\$37.74</td></tr> <tr><td>4</td><td>68.75</td><td>\$26.94</td><td>\$10.80</td><td>\$1.95</td><td>\$0.50</td><td>\$0.00</td><td>\$40.19</td></tr> <tr><td>5</td><td>75.00</td><td>\$29.39</td><td>\$10.80</td><td>\$2.50</td><td>\$0.65</td><td>\$0.00</td><td>\$43.34</td></tr> <tr><td>6</td><td>81.25</td><td>\$31.83</td><td>\$10.80</td><td>\$2.50</td><td>\$0.65</td><td>\$0.00</td><td>\$45.78</td></tr> <tr><td>7</td><td>87.50</td><td>\$34.28</td><td>\$10.80</td><td>\$6.70</td><td>\$3.75</td><td>\$0.00</td><td>\$55.53</td></tr> <tr><td>8</td><td>93.75</td><td>\$36.73</td><td>\$10.80</td><td>\$6.70</td><td>\$3.75</td><td>\$0.00</td><td>\$57.98</td></tr> </table>								<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>	1	50.00	\$19.59	\$10.80	\$1.50	\$0.30	\$0.00	\$32.19	2	56.25	\$22.04	\$10.80	\$1.50	\$0.30	\$0.00	\$34.64	3	62.50	\$24.49	\$10.80	\$1.95	\$0.50	\$0.00	\$37.74	4	68.75	\$26.94	\$10.80	\$1.95	\$0.50	\$0.00	\$40.19	5	75.00	\$29.39	\$10.80	\$2.50	\$0.65	\$0.00	\$43.34	6	81.25	\$31.83	\$10.80	\$2.50	\$0.65	\$0.00	\$45.78	7	87.50	\$34.28	\$10.80	\$6.70	\$3.75	\$0.00	\$55.53	8	93.75	\$36.73	\$10.80	\$6.70	\$3.75	\$0.00	\$57.98
<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>																																																																								
1	50.00	\$19.59	\$10.80	\$1.50	\$0.30	\$0.00	\$32.19																																																																								
2	56.25	\$22.04	\$10.80	\$1.50	\$0.30	\$0.00	\$34.64																																																																								
3	62.50	\$24.49	\$10.80	\$1.95	\$0.50	\$0.00	\$37.74																																																																								
4	68.75	\$26.94	\$10.80	\$1.95	\$0.50	\$0.00	\$40.19																																																																								
5	75.00	\$29.39	\$10.80	\$2.50	\$0.65	\$0.00	\$43.34																																																																								
6	81.25	\$31.83	\$10.80	\$2.50	\$0.65	\$0.00	\$45.78																																																																								
7	87.50	\$34.28	\$10.80	\$6.70	\$3.75	\$0.00	\$55.53																																																																								
8	93.75	\$36.73	\$10.80	\$6.70	\$3.75	\$0.00	\$57.98																																																																								
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	1/1/2025	\$42.23	\$12.20	\$10.79	\$7.95	\$2.13	\$75.30																																																																								
For apprentice rates see "Apprentice- SHEET METAL WORKER"																																																																															
HVAC (ELECTRICAL CONTROLS) ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/29/2025	\$52.16	\$13.50	\$8.31	\$6.90	\$0.00	\$80.87																																																																								
	12/28/2025	\$53.26	\$13.75	\$8.40	\$6.96	\$0.00	\$82.37																																																																								
	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	1/1/2025	\$42.23	\$12.20	\$10.79	\$7.95	\$2.13	\$75.30																																																																								
For apprentice rates see "Apprentice- SHEET METAL WORKER"																																																																															
HVAC (TESTING AND BALANCING -WATER) PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2024	\$49.21	\$9.55	\$10.10	\$7.00	\$0.00	\$75.86																																																																								
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"																																																																															

**Construction**

<b>Classification</b>	<b>Effective Date</b>	<b>Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
HVAC MECHANIC	3/17/2024	\$49.21	\$9.55	\$10.10	\$7.00	\$0.00	\$75.86
PLUMBERS & PIPEFITTERS LOCAL 104							
PLUMBERS & PIPEFITTERS LOCAL 104							

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

HYDRAULIC DRILLS (HEAVY & HIGHWAY)	6/1/2025	\$37.00	\$9.90	\$9.25	\$6.31	\$0.00	\$62.46
LABORERS	12/1/2025	\$38.24	\$9.90	\$9.25	\$6.31	\$0.00	\$63.70
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	\$39.54	\$9.90	\$9.25	\$6.31	\$0.00	\$65.00
	12/1/2026	\$40.83	\$9.90	\$9.25	\$6.31	\$0.00	\$66.29

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

INSULATOR (PIPES & TANKS)	9/1/2024	\$45.54	\$14.75	\$9.52	\$10.09	\$0.00	\$79.90
HEAT & FROST INSULATORS LOCAL 6	9/1/2025	\$48.27	\$14.75	\$9.52	\$10.09	\$0.00	\$82.63
HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)	9/1/2026	\$51.01	\$14.75	\$9.52	\$10.09	\$0.00	\$85.37

**Apprentice: INSULATOR (PIPES & TANKS)****Effective Date: 9/1/2024**

<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
1	50.00	\$22.77	\$14.75	\$9.27	\$5.05	\$0.00	\$51.84
2	60.00	\$27.32	\$14.75	\$9.32	\$6.05	\$0.00	\$57.44
3	70.00	\$31.88	\$14.75	\$9.37	\$7.06	\$0.00	\$63.06
4	80.00	\$36.43	\$14.75	\$9.42	\$8.07	\$0.00	\$68.67

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

<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
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

IRONWORKER/WELDER	3/16/2024	\$40.66	\$8.25	\$12.70	\$10.00	\$0.00	\$71.61
IRONWORKERS LOCAL 7							
IRONWORKERS LOCAL 7 (SPRINGFIELD AREA)							

**Apprentice: IRONWORKER/WELDER****Effective Date: 3/16/2024**

<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
1	60.00	\$24.40	\$8.25	\$12.70	\$10.00	\$0.00	\$55.35
2	70.00	\$28.46	\$8.25	\$12.70	\$10.00	\$0.00	\$59.41
3	75.00	\$30.50	\$8.25	\$12.70	\$10.00	\$0.00	\$61.45
4	80.00	\$32.53	\$8.25	\$12.70	\$10.00	\$0.00	\$63.48
5	85.00	\$34.56	\$8.25	\$12.70	\$10.00	\$0.00	\$65.51

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
<b>Apprentice: IRONWORKER/WELDER</b>							
<b>Effective Date: 3/16/2024</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
6	90.00	\$36.59	\$8.25	\$12.70	\$10.00	\$0.00	\$67.54
JACKHAMMER & PAVING BREAKER OPERATOR	6/2/2025	\$36.50	\$9.90	\$9.25	\$8.32	\$0.00	\$63.97
LABORERS	12/1/2025	\$37.75	\$9.90	\$9.25	\$8.32	\$0.00	\$65.22
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.05	\$9.90	\$9.25	\$8.32	\$0.00	\$66.52
	12/7/2026	\$40.35	\$9.90	\$9.25	\$8.32	\$0.00	\$67.82
	6/7/2027	\$41.75	\$9.90	\$9.25	\$8.32	\$0.00	\$69.22
	12/6/2027	\$43.15	\$9.90	\$9.25	\$8.32	\$0.00	\$70.62
	6/5/2028	\$44.65	\$9.90	\$9.25	\$8.32	\$0.00	\$72.12
	12/4/2028	\$46.15	\$9.90	\$9.25	\$8.32	\$0.00	\$73.62
For apprentice rates see "Apprentice- LABORER"							
LABORER	6/2/2025	\$36.75	\$9.90	\$9.25	\$8.32	\$0.00	\$64.22
LABORERS	12/1/2025	\$38.00	\$9.90	\$9.25	\$8.32	\$0.00	\$65.47
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.30	\$9.90	\$9.25	\$8.32	\$0.00	\$66.77
	12/7/2026	\$40.60	\$9.90	\$9.25	\$8.32	\$0.00	\$68.07
	6/7/2027	\$42.00	\$9.90	\$9.25	\$8.32	\$0.00	\$69.47
	12/6/2027	\$43.40	\$9.90	\$9.25	\$8.32	\$0.00	\$70.87
	6/5/2028	\$44.90	\$9.90	\$9.25	\$8.32	\$0.00	\$72.37
	12/4/2028	\$46.40	\$9.90	\$9.25	\$8.32	\$0.00	\$73.87
<b>Apprentice: LABORER</b>							
<b>Effective Date: 6/2/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$22.05	\$9.90	\$9.25	\$8.32	\$0.00	\$49.52
2	70.00	\$25.73	\$9.90	\$9.25	\$8.32	\$0.00	\$53.20
3	80.00	\$29.40	\$9.90	\$9.25	\$8.32	\$0.00	\$56.87
4	90.00	\$33.08	\$9.90	\$9.25	\$8.32	\$0.00	\$60.55
<b>Apprentice: LABORER</b>							
<b>Effective Date: 12/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$22.80	\$9.90	\$9.25	\$8.32	\$0.00	\$50.27
2	70.00	\$26.60	\$9.90	\$9.25	\$8.32	\$0.00	\$54.07
3	80.00	\$30.40	\$9.90	\$9.25	\$8.32	\$0.00	\$57.87
4	90.00	\$34.20	\$9.90	\$9.25	\$8.32	\$0.00	\$61.67
LABORER (HEAVY & HIGHWAY)	6/1/2025	\$36.25	\$9.90	\$9.25	\$6.31	\$0.00	\$61.71
LABORERS	12/1/2025	\$37.49	\$9.90	\$9.25	\$6.31	\$0.00	\$62.95
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	\$38.79	\$9.90	\$9.25	\$6.31	\$0.00	\$64.25

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	12/1/2026	\$40.08	\$9.90	\$9.25	\$6.31	\$0.00	\$65.54

**Apprentice: LABORER (HEAVY & HIGHWAY)****Effective Date: 6/1/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$21.75	\$9.90	\$9.25	\$6.31	\$0.00	\$47.21
2	70.00	\$25.38	\$9.90	\$9.25	\$6.31	\$0.00	\$50.84
3	80.00	\$29.00	\$9.90	\$9.25	\$6.31	\$0.00	\$54.46
4	90.00	\$32.63	\$9.90	\$9.25	\$6.31	\$0.00	\$58.09

**Apprentice: LABORER (HEAVY & HIGHWAY)****Effective Date: 12/1/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$22.49	\$9.90	\$9.25	\$6.31	\$0.00	\$47.95
2	70.00	\$26.24	\$9.90	\$9.25	\$6.31	\$0.00	\$51.70
3	80.00	\$29.99	\$9.90	\$9.25	\$6.31	\$0.00	\$55.45
4	90.00	\$33.74	\$9.90	\$9.25	\$6.31	\$0.00	\$59.20

LABORER: CARPENTER TENDER	6/2/2025	\$36.75	\$9.90	\$9.25	\$8.32	\$0.00	\$64.22
LABORERS	12/1/2025	\$38.00	\$9.90	\$9.25	\$8.32	\$0.00	\$65.47
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.30	\$9.90	\$9.25	\$8.32	\$0.00	\$66.77
	12/7/2026	\$40.60	\$9.90	\$9.25	\$8.32	\$0.00	\$68.07
	6/7/2027	\$42.00	\$9.90	\$9.25	\$8.32	\$0.00	\$69.47
	12/6/2027	\$43.40	\$9.90	\$9.25	\$8.32	\$0.00	\$70.87
	6/5/2028	\$44.90	\$9.90	\$9.25	\$8.32	\$0.00	\$72.37
	12/4/2028	\$46.40	\$9.90	\$9.25	\$8.32	\$0.00	\$73.87

For apprentice rates see "Apprentice- LABORER"

LABORER: CEMENT FINISHER TENDER	6/2/2025	\$36.25	\$9.90	\$9.25	\$8.32	\$0.00	\$63.72
LABORERS	12/1/2025	\$37.50	\$9.90	\$9.25	\$8.32	\$0.00	\$64.97
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$38.80	\$9.90	\$9.25	\$8.32	\$0.00	\$66.27
	12/7/2026	\$40.10	\$9.90	\$9.25	\$8.32	\$0.00	\$67.57
	6/7/2027	\$41.50	\$9.90	\$9.25	\$8.32	\$0.00	\$68.97
	12/6/2027	\$42.90	\$9.90	\$9.25	\$8.32	\$0.00	\$70.37
	6/5/2028	\$44.40	\$9.90	\$9.25	\$8.32	\$0.00	\$71.87
	12/4/2028	\$45.90	\$9.90	\$9.25	\$8.32	\$0.00	\$73.37

For apprentice rates see "Apprentice- LABORER"

LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER	6/2/2025	\$36.17	\$9.90	\$9.25	\$8.45	\$0.00	\$63.77
LABORERS	12/1/2025	\$37.42	\$9.90	\$9.25	\$8.45	\$0.00	\$65.02
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$38.72	\$9.90	\$9.25	\$8.45	\$0.00	\$66.32
	12/7/2026	\$40.02	\$9.90	\$9.25	\$8.45	\$0.00	\$67.62
	6/7/2027	\$41.42	\$9.90	\$9.25	\$8.45	\$0.00	\$69.02
	12/6/2027	\$42.82	\$9.90	\$9.25	\$8.45	\$0.00	\$70.42
	6/5/2028	\$44.32	\$9.90	\$9.25	\$8.45	\$0.00	\$71.92



**Construction**

<b>Classification</b>	<b>Effective Date</b>	<b>Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
	12/4/2028	\$45.82	\$9.90	\$9.25	\$8.45	\$0.00	\$73.42
For apprentice rates see "Apprentice- LABORER"							
LABORER: MASON TENDER	6/2/2025	\$39.25	\$9.90	\$9.25	\$8.32	\$0.00	\$66.72
LABORERS	12/1/2025	\$40.50	\$9.90	\$9.25	\$8.32	\$0.00	\$67.97
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$41.80	\$9.90	\$9.25	\$8.32	\$0.00	\$69.27
	12/7/2026	\$43.10	\$9.90	\$9.25	\$8.32	\$0.00	\$70.57
	6/7/2027	\$44.50	\$9.90	\$9.25	\$8.32	\$0.00	\$71.97
	12/6/2027	\$45.90	\$9.90	\$9.25	\$8.32	\$0.00	\$73.37
	6/5/2028	\$47.40	\$9.90	\$9.25	\$8.32	\$0.00	\$74.87
	12/4/2028	\$48.90	\$9.90	\$9.25	\$8.32	\$0.00	\$76.37
For apprentice rates see "Apprentice- LABORER"							
LABORER: MASON TENDER (HEAVY & HIGHWAY)	6/1/2025	\$36.50	\$9.90	\$9.25	\$6.31	\$0.00	\$61.96
LABORERS	12/1/2025	\$37.74	\$9.90	\$9.25	\$6.31	\$0.00	\$63.20
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	\$39.04	\$9.90	\$9.25	\$6.31	\$0.00	\$64.50
	12/1/2026	\$40.33	\$9.90	\$9.25	\$6.31	\$0.00	\$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
LABORER: MULTI-TRADE TENDER	6/2/2025	\$36.75	\$9.90	\$9.25	\$8.32	\$0.00	\$64.22
LABORERS	12/1/2025	\$38.00	\$9.90	\$9.25	\$8.32	\$0.00	\$65.47
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.30	\$9.90	\$9.25	\$8.32	\$0.00	\$66.77
	12/7/2026	\$40.60	\$9.90	\$9.25	\$8.32	\$0.00	\$68.07
	6/7/2027	\$42.00	\$9.90	\$9.25	\$8.32	\$0.00	\$69.47
	12/6/2027	\$43.40	\$9.90	\$9.25	\$8.32	\$0.00	\$70.87
	6/5/2028	\$44.90	\$9.90	\$9.25	\$8.32	\$0.00	\$72.37
	12/4/2028	\$46.40	\$9.90	\$9.25	\$8.32	\$0.00	\$73.87
For apprentice rates see "Apprentice- LABORER"							
LABORER: TREE REMOVER	6/2/2025	\$36.75	\$9.90	\$9.25	\$8.32	\$0.00	\$64.22
LABORERS	12/1/2025	\$38.00	\$9.90	\$9.25	\$8.32	\$0.00	\$65.47
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.30	\$9.90	\$9.25	\$8.32	\$0.00	\$66.77
	12/7/2026	\$40.60	\$9.90	\$9.25	\$8.32	\$0.00	\$68.07
	6/7/2027	\$42.00	\$9.90	\$9.25	\$8.32	\$0.00	\$69.47
	12/6/2027	\$43.40	\$9.90	\$9.25	\$8.32	\$0.00	\$70.87
	6/5/2028	\$44.90	\$9.90	\$9.25	\$8.32	\$0.00	\$72.37
	12/4/2028	\$46.40	\$9.90	\$9.25	\$8.32	\$0.00	\$73.87
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	6/2/2025	\$36.50	\$9.90	\$9.25	\$8.32	\$0.00	\$63.97
LABORERS	12/1/2025	\$37.75	\$9.90	\$9.25	\$8.32	\$0.00	\$65.22
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.05	\$9.90	\$9.25	\$8.32	\$0.00	\$66.52
	12/7/2026	\$40.35	\$9.90	\$9.25	\$8.32	\$0.00	\$67.82
	6/7/2027	\$41.75	\$9.90	\$9.25	\$8.32	\$0.00	\$69.22
	12/6/2027	\$43.15	\$9.90	\$9.25	\$8.32	\$0.00	\$70.62
	6/5/2028	\$44.65	\$9.90	\$9.25	\$8.32	\$0.00	\$72.12
	12/4/2028	\$46.15	\$9.90	\$9.25	\$8.32	\$0.00	\$73.62
For apprentice rates see "Apprentice- LABORER"							
LASER BEAM OPERATOR (HEAVY & HIGHWAY)	6/1/2025	\$36.50	\$9.90	\$9.25	\$6.31	\$0.00	\$61.96

**Construction**

<b>Classification</b>	<b>Effective Date</b>	<b>Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
LABORERS	12/1/2025	\$37.74	\$9.90	\$9.25	\$6.31	\$0.00	\$63.20
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	\$39.04	\$9.90	\$9.25	\$6.31	\$0.00	\$64.50
	12/1/2026	\$40.33	\$9.90	\$9.25	\$6.31	\$0.00	\$65.79

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

MARBLE & TILE FINISHERS	2/1/2025	\$43.84	\$11.49	\$15.10	\$5.68	\$0.00	\$76.11
BRICKLAYERS LOCAL 3	8/1/2025	\$44.75	\$11.49	\$15.10	\$5.68	\$0.00	\$77.02
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	2/1/2026	\$45.83	\$11.49	\$15.10	\$5.68	\$0.00	\$78.10
	8/1/2026	\$47.59	\$11.49	\$15.10	\$5.68	\$0.00	\$79.86
	2/1/2027	\$48.71	\$11.49	\$15.10	\$5.68	\$0.00	\$80.98

**Apprentice: MARBLE & TILE FINISHERS****Effective Date: 2/1/2025**

<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
1	50.00	\$21.92	\$11.49	\$15.10	\$5.68	\$0.00	\$54.19
2	60.00	\$26.30	\$11.49	\$15.10	\$5.68	\$0.00	\$58.57
3	70.00	\$30.69	\$11.49	\$15.10	\$5.68	\$0.00	\$62.96
4	80.00	\$35.07	\$11.49	\$15.10	\$5.68	\$0.00	\$67.34
5	90.00	\$39.46	\$11.49	\$15.10	\$5.68	\$0.00	\$71.73

**Apprentice: MARBLE & TILE FINISHERS****Effective Date: 8/1/2025**

<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
1	50.00	\$22.38	\$11.49	\$15.10	\$5.68	\$0.00	\$54.65
2	60.00	\$26.85	\$11.49	\$15.10	\$5.68	\$0.00	\$59.12
3	70.00	\$31.33	\$11.49	\$15.10	\$5.68	\$0.00	\$63.60
4	80.00	\$35.80	\$11.49	\$15.10	\$5.68	\$0.00	\$68.07
5	90.00	\$40.28	\$11.49	\$15.10	\$5.68	\$0.00	\$72.55

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)	1/6/2025	\$43.48	\$10.08	\$11.47	\$9.75	\$0.00	\$74.78
MILLWRIGHTS LOCAL 1121	1/5/2026	\$45.76	\$10.08	\$11.47	\$9.75	\$0.00	\$77.06
MILLWRIGHTS LOCAL 1121 - Zone 3							

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
<b>Apprentice: MILLWRIGHT (Zone 3)</b> <b>Effective Date: 1/6/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	55.00	\$23.91	\$10.08	\$0.00	\$5.36	\$0.00	\$39.35
2	65.00	\$28.26	\$10.08	\$0.00	\$6.34	\$0.00	\$44.68
3	75.00	\$32.61	\$10.08	\$11.47	\$7.31	\$0.00	\$61.47
4	85.00	\$36.96	\$10.08	\$11.47	\$8.29	\$0.00	\$66.80
<b>Apprentice: MILLWRIGHT (Zone 3)</b> <b>Effective Date: 1/5/2026</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	55.00	\$25.17	\$10.08	\$0.00	\$5.36	\$0.00	\$40.61
2	65.00	\$29.74	\$10.08	\$0.00	\$6.34	\$0.00	\$46.16
3	75.00	\$34.32	\$10.08	\$11.47	\$7.31	\$0.00	\$63.18
4	85.00	\$38.90	\$10.08	\$11.47	\$8.29	\$0.00	\$68.74
MORTAR MIXER	6/2/2025	\$36.50	\$9.90	\$9.25	\$8.32	\$0.00	\$63.97
LABORERS	12/1/2025	\$37.75	\$9.90	\$9.25	\$8.32	\$0.00	\$65.22
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.05	\$9.90	\$9.25	\$8.32	\$0.00	\$66.52
	12/7/2026	\$40.35	\$9.90	\$9.25	\$8.32	\$0.00	\$67.82
	6/7/2027	\$41.75	\$9.90	\$9.25	\$8.32	\$0.00	\$69.22
	12/6/2027	\$43.15	\$9.90	\$9.25	\$8.32	\$0.00	\$70.62
	6/5/2028	\$44.65	\$9.90	\$9.25	\$8.32	\$0.00	\$72.12
	12/4/2028	\$46.15	\$9.90	\$9.25	\$8.32	\$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"							
OTHER POWER DRIVEN EQUIPMENT - CLASS VI	12/1/2023	\$32.74	\$13.78	\$12.15	\$3.00	\$0.00	\$61.67
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
PAINTER (BRIDGES/TANKS)	1/1/2025	\$58.46	\$9.95	\$11.85	\$12.10	\$0.00	\$92.36
PAINTERS LOCAL 35							
PAINTERS LOCAL 35 - ZONE 3							

**Apprentice: PAINTER (BRIDGES/TANKS)****Effective Date: 1/1/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
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## Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
<b>Apprentice: PAINTER (BRIDGES/TANKS)</b>							
<b>Effective Date: 1/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$29.23	\$9.95	\$0.00	\$0.00	\$0.00	\$39.18
2	55.00	\$32.15	\$9.95	\$0.00	\$6.66	\$0.00	\$48.76
3	60.00	\$35.08	\$9.95	\$0.00	\$7.26	\$0.00	\$52.29
4	65.00	\$38.00	\$9.95	\$0.00	\$7.87	\$0.00	\$55.82
5	70.00	\$40.92	\$9.95	\$11.85	\$8.47	\$0.00	\$71.19
6	75.00	\$43.85	\$9.95	\$11.85	\$9.08	\$0.00	\$74.73
7	80.00	\$46.77	\$9.95	\$11.85	\$9.68	\$0.00	\$78.25
8	90.00	\$52.61	\$9.95	\$11.85	\$10.89	\$0.00	\$85.30

PAINTER (SPRAY OR SANDBLAST, NEW) \* 1/1/2025 \$41.23 \$9.65 \$11.85 \$8.05 \$0.00 \$70.78

\* 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

<b>Apprentice: PAINTER (SPRAY OR SANDBLAST, NEW) *</b>							
<b>Effective Date: 1/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$20.62	\$9.95	\$0.00	\$0.00	\$0.00	\$30.57
2	55.00	\$22.68	\$9.95	\$0.00	\$4.43	\$0.00	\$37.06
3	60.00	\$24.74	\$9.95	\$0.00	\$4.83	\$0.00	\$39.52
4	65.00	\$26.80	\$9.95	\$0.00	\$5.23	\$0.00	\$41.98
5	70.00	\$28.86	\$9.95	\$11.85	\$5.64	\$0.00	\$56.30
6	75.00	\$30.92	\$9.95	\$11.85	\$6.04	\$0.00	\$58.76
7	80.00	\$32.98	\$9.95	\$11.85	\$6.44	\$0.00	\$61.22
8	90.00	\$37.11	\$9.95	\$11.85	\$7.25	\$0.00	\$66.16

PAINTER (SPRAY OR SANDBLAST, REPAINT) 1/1/2025 \$38.55 \$9.95 \$11.85 \$8.05 \$0.00 \$68.40

PAINTERS LOCAL 35

PAINTERS LOCAL 35 - ZONE 3

<b>Apprentice: PAINTER (SPRAY OR SANDBLAST, REPAINT)</b>							
<b>Effective Date: 1/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$19.28	\$9.95	\$0.00	\$0.00	\$0.00	\$29.23
2	55.00	\$21.20	\$9.95	\$0.00	\$4.43	\$0.00	\$35.58
3	60.00	\$23.13	\$9.95	\$0.00	\$4.83	\$0.00	\$37.91
4	65.00	\$25.06	\$9.95	\$0.00	\$5.23	\$0.00	\$40.24
5	70.00	\$26.99	\$9.95	\$11.85	\$5.64	\$0.00	\$54.43
6	75.00	\$28.91	\$9.95	\$11.85	\$6.04	\$0.00	\$56.75
7	80.00	\$30.84	\$9.95	\$11.85	\$6.44	\$0.00	\$59.08

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
<b>Apprentice: PAINTER (SPRAY OR SANDBLAST, REPAINT)</b> <b>Effective Date: 1/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
8	90.00	\$34.70	\$9.95	\$11.85	\$7.25	\$0.00	\$63.75
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PAINTER / TAPER (BRUSH, NEW) *	1/1/2025	\$39.83	\$9.95	\$11.85	\$8.05	\$0.00	\$69.68
* 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							
<b>Apprentice: PAINTER / TAPER (BRUSH, NEW) *</b> <b>Effective Date: 1/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$19.92	\$9.95	\$0.00	\$0.00	\$0.00	\$29.87
2	55.00	\$21.91	\$9.95	\$0.00	\$4.43	\$0.00	\$36.29
3	60.00	\$23.90	\$9.95	\$0.00	\$4.83	\$0.00	\$38.68
4	65.00	\$25.89	\$9.95	\$0.00	\$5.23	\$0.00	\$41.07
5	70.00	\$27.88	\$9.95	\$11.85	\$5.64	\$0.00	\$55.32
6	75.00	\$29.87	\$9.95	\$11.85	\$6.04	\$0.00	\$57.71
7	80.00	\$31.86	\$9.95	\$11.85	\$6.44	\$0.00	\$60.10
8	90.00	\$35.85	\$9.95	\$11.85	\$7.25	\$0.00	\$64.90
<hr/>							
PAINTER / TAPER (BRUSH, REPAINT)	1/1/2025	\$37.15	\$9.95	\$11.85	\$8.05	\$0.00	\$67.00
PAINTERS LOCAL 35							
PAINTERS LOCAL 35 - ZONE 3							
<b>Apprentice: PAINTER / TAPER (BRUSH, REPAINT)</b> <b>Effective Date: 1/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$18.58	\$9.95	\$0.00	\$0.00	\$0.00	\$28.53
2	55.00	\$20.43	\$9.95	\$0.00	\$4.43	\$0.00	\$34.81
3	60.00	\$22.29	\$9.95	\$0.00	\$4.83	\$0.00	\$37.07
4	65.00	\$24.15	\$9.95	\$0.00	\$5.23	\$0.00	\$39.33
5	70.00	\$26.01	\$9.95	\$11.85	\$5.64	\$0.00	\$53.45
6	75.00	\$27.86	\$9.95	\$11.85	\$6.04	\$0.00	\$55.70
7	80.00	\$29.72	\$9.95	\$11.85	\$6.44	\$0.00	\$57.96
8	90.00	\$33.44	\$9.95	\$11.85	\$7.25	\$0.00	\$62.49
<hr/>							
PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY)	6/1/2025	\$36.25	\$9.90	\$9.25	\$6.31	\$0.00	\$61.71
LABORERS	12/1/2025	\$37.49	\$9.90	\$9.25	\$6.31	\$0.00	\$62.95
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	\$38.79	\$9.90	\$9.25	\$6.31	\$0.00	\$64.25
	12/1/2026	\$40.08	\$9.90	\$9.25	\$6.31	\$0.00	\$65.54

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

**Construction**

<b>Classification</b>	<b>Effective Date</b>	<b>Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>																																								
PANEL & PICKUP TRUCKS DRIVER	6/1/2025	\$40.78	\$15.57	\$20.17	\$0.00	\$0.00	\$76.52																																								
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2025	\$40.78	\$15.57	\$21.78	\$0.00	\$0.00	\$78.13																																								
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2026	\$40.78	\$16.17	\$21.78	\$0.00	\$0.00	\$78.73																																								
	6/1/2026	\$41.78	\$16.17	\$21.78	\$0.00	\$0.00	\$79.73																																								
	12/1/2026	\$41.78	\$16.17	\$23.52	\$0.00	\$0.00	\$81.47																																								
	1/1/2027	\$41.78	\$16.77	\$23.52	\$0.00	\$0.00	\$82.07																																								
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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"																																															
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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)																																															
<div> <b>Apprentice: PILE DRIVER</b>  <b>Effective Date: 8/1/2024</b> <table> <tr> <th><b>Step</b></th><th><b>Percent</b></th><th><b>Apprentice Base Wage</b></th><th><b>Health</b></th><th><b>Pension</b></th><th><b>Annuity</b></th><th><b>Supplemental Unemployment</b></th><th><b>Total Rate</b></th></tr> <tr> <td>1</td><td>45.00</td><td>\$22.14</td><td>\$10.08</td><td>\$0.00</td><td>\$2.53</td><td>\$0.00</td><td>\$34.75</td></tr> <tr> <td>2</td><td>55.00</td><td>\$27.05</td><td>\$10.08</td><td>\$0.00</td><td>\$5.07</td><td>\$0.00</td><td>\$42.20</td></tr> <tr> <td>3</td><td>70.00</td><td>\$34.43</td><td>\$10.08</td><td>\$11.62</td><td>\$7.60</td><td>\$0.00</td><td>\$63.73</td></tr> <tr> <td>4</td><td>80.00</td><td>\$39.35</td><td>\$10.08</td><td>\$11.62</td><td>\$10.14</td><td>\$0.00</td><td>\$71.19</td></tr> </table> </div>								<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>	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
<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>																																								
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																																								
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PIPELAYER	6/2/2025	\$36.50	\$9.90	\$9.25	\$8.32	\$0.00	\$63.97																																								
LABORERS	12/1/2025	\$37.75	\$9.90	\$9.25	\$8.32	\$0.00	\$65.22																																								
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.05	\$9.90	\$9.25	\$8.32	\$0.00	\$66.52																																								
	12/7/2026	\$40.35	\$9.90	\$9.25	\$8.32	\$0.00	\$67.82																																								
	6/7/2027	\$41.75	\$9.90	\$9.25	\$8.32	\$0.00	\$69.22																																								
	12/6/2027	\$43.15	\$9.90	\$9.25	\$8.32	\$0.00	\$70.62																																								
	6/5/2028	\$44.65	\$9.90	\$9.25	\$8.32	\$0.00	\$72.12																																								
	12/4/2028	\$46.15	\$9.90	\$9.25	\$8.32	\$0.00	\$73.62																																								
For apprentice rates see "Apprentice- LABORER"																																															
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PIPELAYER (HEAVY & HIGHWAY)	6/1/2025	\$36.50	\$9.90	\$9.25	\$6.31	\$0.00	\$61.96																																								
LABORERS	12/1/2025	\$37.74	\$9.90	\$9.25	\$6.31	\$0.00	\$63.20																																								
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	\$39.04	\$9.90	\$9.25	\$6.31	\$0.00	\$64.50																																								
	12/1/2026	\$40.33	\$9.90	\$9.25	\$6.31	\$0.00	\$65.79																																								
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"																																															
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PLUMBER & PIPEFITTER	3/17/2024	\$49.21	\$9.55	\$10.10	\$7.00	\$0.00	\$75.86																																								
PLUMBERS & PIPEFITTERS LOCAL 104																																															
PLUMBERS & PIPEFITTERS LOCAL 104																																															

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
<b>Apprentice: PLUMBER &amp; PIPEFITTER</b> <b>Effective Date: 3/17/2024</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$22.14	\$9.55	\$10.10	\$0.00	\$0.00	\$41.79
2	50.00	\$24.61	\$9.55	\$10.10	\$0.00	\$0.00	\$44.26
3	55.00	\$27.07	\$9.55	\$10.10	\$0.00	\$0.00	\$46.72
4	60.00	\$29.53	\$9.55	\$10.10	\$0.00	\$0.00	\$49.18
5	65.00	\$31.99	\$9.55	\$10.10	\$0.00	\$0.00	\$51.64
6	70.00	\$34.45	\$9.55	\$10.10	\$0.00	\$0.00	\$54.10
7	75.00	\$36.91	\$9.55	\$10.10	\$0.00	\$0.00	\$56.56
8	80.00	\$39.37	\$9.55	\$10.10	\$0.00	\$0.00	\$59.02
9	80.00	\$39.37	\$9.55	\$10.10	\$7.00	\$0.00	\$66.02
10	80.00	\$39.37	\$9.55	\$10.10	\$7.00	\$0.00	\$66.02
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PNEUMATIC CONTROLS (TEMP.)	3/17/2024	\$49.21	\$9.55	\$10.10	\$7.00	\$0.00	\$75.86
PLUMBERS & PIPEFITTERS LOCAL 104							
PLUMBERS & PIPEFITTERS LOCAL 104							
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
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PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY)	6/1/2025	\$36.50	\$9.90	\$9.25	\$6.31	\$0.00	\$61.96
LABORERS	12/1/2025	\$37.74	\$9.90	\$9.25	\$6.31	\$0.00	\$63.20
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	\$39.04	\$9.90	\$9.25	\$6.31	\$0.00	\$64.50
	12/1/2026	\$40.33	\$9.90	\$9.25	\$6.31	\$0.00	\$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
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POWDERMAN & BLASTER	6/2/2025	\$37.25	\$9.90	\$9.25	\$8.32	\$0.00	\$64.72
LABORERS	12/1/2025	\$38.50	\$9.90	\$9.25	\$8.32	\$0.00	\$65.97
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.80	\$9.90	\$9.25	\$8.32	\$0.00	\$67.27
	12/7/2026	\$41.10	\$9.90	\$9.25	\$8.32	\$0.00	\$68.57
	6/7/2027	\$42.50	\$9.90	\$9.25	\$8.32	\$0.00	\$69.97
	12/6/2027	\$43.90	\$9.90	\$9.25	\$8.32	\$0.00	\$71.37
	6/5/2028	\$45.40	\$9.90	\$9.25	\$8.32	\$0.00	\$72.87
	12/4/2028	\$46.90	\$9.90	\$9.25	\$8.32	\$0.00	\$74.37
For apprentice rates see "Apprentice- LABORER"							
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POWDERMAN & BLASTER (HEAVY & HIGHWAY)	6/1/2025	\$38.00	\$9.65	\$9.00	\$6.06	\$0.00	\$62.71
LABORERS	12/1/2025	\$39.24	\$9.65	\$9.00	\$6.06	\$0.00	\$63.95
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	\$40.54	\$9.65	\$9.00	\$6.06	\$0.00	\$65.25
	12/1/2026	\$41.83	\$9.65	\$9.00	\$6.06	\$0.00	\$66.54
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
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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"							
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PUMP OPERATOR (DEWATERING, OTHER)	12/1/2023	\$39.03	\$13.78	\$12.15	\$3.00	\$0.00	\$67.96
OPERATING ENGINEERS LOCAL 98							

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
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	6/2/2025	\$36.50	\$9.90	\$9.25	\$8.32	\$0.00	\$63.97
LABORERS	12/1/2025	\$37.75	\$9.90	\$9.25	\$8.32	\$0.00	\$65.22
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.05	\$9.90	\$9.25	\$8.32	\$0.00	\$66.52
	12/7/2026	\$40.35	\$9.90	\$9.25	\$8.32	\$0.00	\$67.82
	6/7/2027	\$41.75	\$9.90	\$9.25	\$8.32	\$0.00	\$69.22
	12/6/2027	\$43.15	\$9.90	\$9.25	\$8.32	\$0.00	\$70.62
	6/5/2028	\$44.65	\$9.90	\$9.25	\$8.32	\$0.00	\$72.12
	12/4/2028	\$46.15	\$9.90	\$9.25	\$8.32	\$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"							
ROOFER (Coal tar pitch)	10/2/2024	\$42.38	\$10.35	\$8.70	\$9.30	\$0.00	\$70.73
ROOFERS LOCAL 248	7/16/2025	\$43.88	\$10.35	\$8.70	\$9.30	\$0.00	\$72.23
ROOFERS LOCAL 248	10/2/2025	\$44.88	\$10.35	\$8.70	\$9.30	\$0.00	\$73.23
	7/16/2026	\$46.88	\$10.35	\$8.70	\$9.30	\$0.00	\$75.23
For apprentice rates see "Apprentice- ROOFER"							
ROOFER (Inc.Roofeer Waterproofng &Roofeer Damproofg)	10/2/2024	\$41.88	\$10.35	\$8.70	\$9.30	\$0.00	\$70.23
ROOFERS LOCAL 248	7/16/2025	\$43.38	\$10.35	\$8.70	\$9.30	\$0.00	\$71.73
ROOFERS LOCAL 248	10/2/2025	\$44.38	\$10.35	\$8.70	\$9.30	\$0.00	\$72.73
	7/16/2026	\$46.38	\$10.35	\$8.70	\$9.30	\$0.00	\$74.73
<b>Apprentice: ROOFER (Inc.Roofeer Waterproofng &amp;Roofeer Damproofg)</b> <b>Effective Date: 10/2/2024</b>							
<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
1	60.00	\$25.13	\$10.35	\$0.00	\$0.00	\$0.00	\$35.48
2	65.00	\$27.22	\$10.35	\$8.70	\$9.30	\$0.00	\$55.57
3	70.00	\$29.32	\$10.35	\$8.70	\$9.30	\$0.00	\$57.67
4	75.00	\$31.41	\$10.35	\$8.70	\$9.30	\$0.00	\$59.76
5	80.00	\$33.50	\$10.35	\$8.70	\$9.30	\$0.00	\$61.85
6	85.00	\$35.60	\$10.35	\$8.70	\$9.30	\$0.00	\$63.95
7	90.00	\$37.69	\$10.35	\$8.70	\$9.30	\$0.00	\$66.04
8	95.00	\$39.79	\$10.35	\$8.70	\$9.30	\$0.00	\$68.14
ROOFER SLATE / TILE / PRECAST CONCRETE	10/2/2024	\$42.38	\$10.35	\$8.70	\$9.30	\$0.00	\$70.73
ROOFERS LOCAL 248	7/16/2025	\$43.88	\$10.35	\$8.70	\$9.30	\$0.00	\$72.23
ROOFERS LOCAL 248	10/2/2025	\$44.88	\$10.35	\$8.70	\$9.30	\$0.00	\$73.23



**Construction**

<b>Classification</b>	<b>Effective Date</b>	<b>Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
	7/16/2026	\$46.88	\$10.35	\$8.70	\$9.30	\$0.00	\$75.23
For apprentice rates see "Apprentice- ROOFER"							
SCRAPER	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"							
SELF-POWERED ROLLERS AND COMPACTORS (TAMPERS)	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"							
SELF-PROPELLED POWER BROOM	12/1/2023	\$35.80	\$13.78	\$12.15	\$3.00	\$0.00	\$64.73
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
SHEETMETAL WORKER	1/1/2025	\$42.23	\$12.20	\$10.79	\$7.95	\$2.13	\$75.30
SHEETMETAL WORKERS LOCAL 63							
SHEETMETAL WORKERS LOCAL 63							

**Apprentice: SHEETMETAL WORKER****Effective Date: 1/1/2025**

<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
1	45.00	\$19.00	\$5.49	\$4.86	\$0.00	\$0.85	\$30.20
2	50.00	\$21.12	\$6.10	\$5.40	\$0.00	\$0.94	\$33.56
3	55.00	\$23.23	\$6.71	\$9.71	\$0.00	\$1.15	\$40.80
4	60.00	\$25.34	\$7.32	\$9.71	\$0.00	\$1.23	\$43.60
5	65.00	\$27.45	\$7.93	\$9.71	\$0.00	\$1.31	\$46.40
6	70.00	\$29.56	\$8.54	\$9.71	\$0.00	\$1.39	\$49.20
7	75.00	\$31.67	\$9.15	\$9.71	\$0.00	\$1.47	\$52.00
8	80.00	\$33.78	\$9.76	\$9.71	\$7.95	\$1.78	\$62.98
9	85.00	\$35.90	\$10.37	\$9.71	\$7.95	\$1.86	\$65.79
10	90.00	\$38.01	\$10.98	\$9.71	\$7.95	\$1.94	\$68.59

SPECIALIZED EARTH MOVING EQUIP < 35 TONS	6/1/2025	\$41.24	\$15.57	\$20.17	\$0.00	\$0.00	\$76.98
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2025	\$41.24	\$15.57	\$21.78	\$0.00	\$0.00	\$78.59
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2026	\$41.24	\$16.17	\$21.78	\$0.00	\$0.00	\$79.19
	6/1/2026	\$42.24	\$16.17	\$21.78	\$0.00	\$0.00	\$80.19
	12/1/2026	\$42.24	\$16.17	\$23.52	\$0.00	\$0.00	\$81.93
	1/1/2027	\$42.24	\$16.77	\$23.52	\$0.00	\$0.00	\$82.53
SPECIALIZED EARTH MOVING EQUIP > 35 TONS	6/1/2025	\$41.53	\$15.57	\$20.17	\$0.00	\$0.00	\$77.27
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2025	\$41.53	\$15.57	\$21.78	\$0.00	\$0.00	\$78.88
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2026	\$41.53	\$16.17	\$21.78	\$0.00	\$0.00	\$79.48
	6/1/2026	\$42.53	\$16.17	\$21.78	\$0.00	\$0.00	\$80.48
	12/1/2026	\$42.53	\$16.17	\$23.52	\$0.00	\$0.00	\$82.22
	1/1/2027	\$42.53	\$16.77	\$23.52	\$0.00	\$0.00	\$82.82

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
SPRINKLER FITTER	4/1/2023	\$47.43	\$11.45	\$7.20	\$9.41	\$0.00	\$75.49
SPRINKLER FITTERS LOCAL 669							
SPRINKLER FITTERS LOCAL 669							

**Apprentice: SPRINKLER FITTER****Effective Date: 4/1/2023**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$21.34	\$8.22	\$0.00	\$0.00	\$0.00	\$29.56
2	50.00	\$23.72	\$8.22	\$0.00	\$0.00	\$0.00	\$31.94
3	55.00	\$26.09	\$11.45	\$7.20	\$0.00	\$0.00	\$44.74
4	60.00	\$28.46	\$11.45	\$7.20	\$1.15	\$0.00	\$48.26
5	65.00	\$30.83	\$11.45	\$7.20	\$1.15	\$0.00	\$50.63
6	70.00	\$33.20	\$11.45	\$7.20	\$1.40	\$0.00	\$53.25
7	75.00	\$35.57	\$11.45	\$7.20	\$1.40	\$0.00	\$55.62
8	80.00	\$37.94	\$11.45	\$7.20	\$1.40	\$0.00	\$57.99
9	85.00	\$40.32	\$11.45	\$7.20	\$1.40	\$0.00	\$60.37
10	90.00	\$42.69	\$11.45	\$7.20	\$1.40	\$0.00	\$62.74

TELECOMMUNICATION TECHNICIAN	6/29/2025	\$52.16	\$13.50	\$8.31	\$6.90	\$0.00	\$80.87
ELECTRICIANS LOCAL 7	12/28/2025	\$53.26	\$13.75	\$8.40	\$6.96	\$0.00	\$82.37
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

**Apprentice: TELECOMMUNICATION TECHNICIAN****Effective Date: 6/29/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	\$20.86	\$7.50	\$0.63	\$0.00	\$0.00	\$28.99
2	45.00	\$23.47	\$7.50	\$0.70	\$0.00	\$0.00	\$31.67
3	50.00	\$26.08	\$13.50	\$7.53	\$0.00	\$0.00	\$47.11
4	55.00	\$28.69	\$13.50	\$7.61	\$0.00	\$0.00	\$49.80
5	65.00	\$33.90	\$13.50	\$9.84	\$0.00	\$0.00	\$57.24
6	70.00	\$36.51	\$13.50	\$11.30	\$0.00	\$0.00	\$61.31

**Apprentice: TELECOMMUNICATION TECHNICIAN****Effective Date: 12/28/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	\$21.30	\$7.65	\$0.63	\$0.00	\$0.00	\$29.58
2	40.00	\$23.97	\$7.65	\$0.70	\$0.00	\$0.00	\$32.32
3	26.63	\$26.63	\$13.75	\$7.53	\$0.00	\$0.00	\$47.91
4	55.00	\$29.29	\$13.75	\$7.61	\$0.00	\$0.00	\$50.65
5	65.00	\$34.62	\$13.75	\$9.84	\$0.00	\$0.00	\$58.21
6	70.00	\$37.28	\$13.75	\$11.30	\$0.00	\$0.00	\$62.33

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
TERRAZZO FINISHERS	2/1/2025	\$64.74	\$11.49	\$15.57	\$8.02	\$0.00	\$99.82
BRICKLAYERS LOCAL 3	8/1/2025	\$66.89	\$11.49	\$15.57	\$8.02	\$0.00	\$101.97
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	2/10/2026	\$68.24	\$11.49	\$15.57	\$8.02	\$0.00	\$103.32
	8/1/2026	\$70.44	\$11.49	\$15.57	\$8.02	\$0.00	\$105.52
	2/1/2027	\$71.84	\$11.49	\$15.57	\$8.02	\$0.00	\$106.92

**Apprentice: TERRAZZO FINISHERS****Effective Date: 2/1/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$32.37	\$11.49	\$15.57	\$8.02	\$0.00	\$67.45
2	60.00	\$38.84	\$11.49	\$15.57	\$8.02	\$0.00	\$73.92
3	70.00	\$45.32	\$11.49	\$15.57	\$8.02	\$0.00	\$80.40
4	80.00	\$51.79	\$11.49	\$15.57	\$8.02	\$0.00	\$86.87
5	90.00	\$58.27	\$11.49	\$15.57	\$8.02	\$0.00	\$93.35

**Apprentice: TERRAZZO FINISHERS****Effective Date: 8/1/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$33.45	\$11.49	\$15.57	\$8.02	\$0.00	\$68.53
2	60.00	\$40.13	\$11.49	\$15.57	\$8.02	\$0.00	\$75.21
3	70.00	\$46.82	\$11.49	\$15.57	\$8.02	\$0.00	\$81.90
4	80.00	\$53.51	\$11.49	\$15.57	\$8.02	\$0.00	\$88.59
5	90.00	\$60.20	\$11.49	\$15.57	\$8.02	\$0.00	\$95.28

TERRAZZO MECHANIC	2/1/2025	\$65.82	\$11.49	\$15.57	\$7.99	\$0.00	\$100.87
BRICKLAYERS LOCAL 3	8/1/2025	\$67.97	\$11.49	\$15.57	\$7.99	\$0.00	\$103.02
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	2/1/2026	\$69.32	\$11.49	\$15.57	\$7.99	\$0.00	\$104.37
	8/1/2026	\$71.52	\$11.49	\$15.57	\$7.99	\$0.00	\$106.57
	2/1/2027	\$72.92	\$11.49	\$15.57	\$7.99	\$0.00	\$107.97

**Apprentice: TERRAZZO MECHANIC****Effective Date: 2/1/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$32.91	\$11.49	\$15.57	\$7.99	\$0.00	\$67.96
2	60.00	\$39.49	\$11.49	\$15.57	\$7.99	\$0.00	\$74.54
3	70.00	\$46.07	\$11.49	\$15.57	\$7.99	\$0.00	\$81.12
4	80.00	\$52.66	\$11.49	\$15.57	\$7.99	\$0.00	\$87.71
5	90.00	\$59.24	\$11.49	\$15.57	\$7.99	\$0.00	\$94.29

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
<b>Apprentice: TERRAZZO MECHANIC</b> <b>Effective Date: 8/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$33.99	\$11.49	\$15.57	\$7.99	\$0.00	\$69.04
2	60.00	\$40.78	\$11.49	\$15.57	\$7.99	\$0.00	\$75.83
3	70.00	\$47.58	\$11.49	\$15.57	\$7.99	\$0.00	\$82.63
4	80.00	\$54.38	\$11.49	\$15.57	\$7.99	\$0.00	\$89.43
5	90.00	\$61.17	\$11.49	\$15.57	\$7.99	\$0.00	\$96.22
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TEST BORING DRILLER	6/1/2025	\$51.70	\$9.90	\$9.25	\$9.80	\$0.00	\$80.65
LABORERS	12/1/2025	\$53.20	\$9.90	\$9.25	\$9.80	\$0.00	\$82.15
LABORERS - FOUNDATION AND MARINE	6/1/2026	\$54.75	\$9.90	\$9.25	\$9.80	\$0.00	\$83.70
	12/1/2026	\$56.25	\$9.90	\$9.25	\$9.80	\$0.00	\$85.20
For apprentice rates see "Apprentice- LABORER"							
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TEST BORING DRILLER HELPER	6/1/2025	\$47.82	\$9.90	\$9.25	\$9.80	\$0.00	\$76.77
LABORERS	12/1/2025	\$49.32	\$9.90	\$9.25	\$9.80	\$0.00	\$78.27
LABORERS - FOUNDATION AND MARINE	6/1/2026	\$50.87	\$9.90	\$9.25	\$9.80	\$0.00	\$79.82
	12/1/2026	\$52.37	\$9.90	\$9.25	\$9.80	\$0.00	\$81.32
For apprentice rates see "Apprentice- LABORER"							
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TEST BORING LABORER	6/1/2025	\$47.70	\$9.90	\$9.25	\$9.80	\$0.00	\$76.65
LABORERS	12/1/2025	\$49.20	\$9.90	\$9.25	\$9.80	\$0.00	\$78.15
LABORERS - FOUNDATION AND MARINE	6/1/2026	\$50.75	\$9.90	\$9.25	\$9.80	\$0.00	\$79.70
	12/1/2026	\$52.25	\$9.90	\$9.25	\$9.80	\$0.00	\$81.20
For apprentice rates see "Apprentice- LABORER"							
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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"							
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TRAILERS FOR EARTH MOVING EQUIPMENT	6/1/2025	\$41.82	\$15.57	\$20.17	\$0.00	\$0.00	\$77.56
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2025	\$41.82	\$15.57	\$21.78	\$0.00	\$0.00	\$79.17
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2026	\$41.82	\$16.17	\$21.78	\$0.00	\$0.00	\$79.77
	6/1/2026	\$42.82	\$16.17	\$21.78	\$0.00	\$0.00	\$80.77
	12/1/2026	\$42.82	\$16.17	\$23.52	\$0.00	\$0.00	\$82.51
	1/1/2027	\$42.82	\$16.77	\$23.52	\$0.00	\$0.00	\$83.11
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TUNNEL WORK - COMPRESSED AIR	6/1/2025	\$59.93	\$9.90	\$9.25	\$10.25	\$0.00	\$89.33
LABORERS	12/1/2025	\$61.43	\$9.90	\$9.25	\$10.25	\$0.00	\$90.83
LABORERS (COMPRESSED AIR)	6/1/2026	\$62.98	\$9.90	\$9.25	\$10.25	\$0.00	\$92.38
	12/1/2026	\$64.48	\$9.90	\$9.25	\$10.25	\$0.00	\$93.88
For apprentice rates see "Apprentice- LABORER"							
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TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE)	6/1/2025	\$61.93	\$9.90	\$9.25	\$10.25	\$0.00	\$91.33
LABORERS	12/1/2025	\$63.43	\$9.90	\$9.25	\$10.25	\$0.00	\$92.83

**Construction**

<b>Classification</b>	<b>Effective Date</b>	<b>Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
LABORERS (COMPRESSED AIR)	6/1/2026	\$64.98	\$9.90	\$9.25	\$10.25	\$0.00	\$94.38
	12/1/2026	\$66.48	\$9.90	\$9.25	\$10.25	\$0.00	\$95.88
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - FREE AIR LABORERS	6/1/2025	\$52.00	\$9.90	\$9.25	\$10.25	\$0.00	\$81.40
LABORERS (FREE AIR TUNNEL)	12/1/2025	\$53.50	\$9.90	\$9.25	\$10.25	\$0.00	\$82.90
	6/1/2026	\$55.05	\$9.90	\$9.25	\$10.25	\$0.00	\$84.45
	12/1/2026	\$56.55	\$9.90	\$9.25	\$10.25	\$0.00	\$85.95
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - FREE AIR (HAZ. WASTE) LABORERS	6/1/2025	\$54.00	\$9.90	\$9.25	\$10.25	\$0.00	\$83.40
LABORERS (FREE AIR TUNNEL)	12/1/2025	\$55.50	\$9.90	\$9.25	\$10.25	\$0.00	\$84.90
	6/1/2026	\$57.05	\$9.90	\$9.25	\$10.25	\$0.00	\$86.45
	12/1/2026	\$58.55	\$9.90	\$9.25	\$10.25	\$0.00	\$87.95
For apprentice rates see "Apprentice- LABORER"							
VAC-HAUL	6/1/2025	\$41.24	\$15.57	\$20.17	\$0.00	\$0.00	\$76.98
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2025	\$41.24	\$15.57	\$21.78	\$0.00	\$0.00	\$78.59
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2026	\$41.24	\$16.17	\$21.78	\$0.00	\$0.00	\$79.19
	6/1/2026	\$42.24	\$16.17	\$21.78	\$0.00	\$0.00	\$80.19
	12/1/2026	\$42.24	\$16.17	\$23.52	\$0.00	\$0.00	\$81.93
	1/1/2027	\$42.24	\$16.77	\$23.52	\$0.00	\$0.00	\$82.53
WAGON DRILL OPERATOR LABORERS	6/2/2025	\$36.50	\$9.90	\$9.25	\$8.32	\$0.00	\$63.97
LABORERS - ZONE 3 (BUILDING & SITE)	12/1/2025	\$37.75	\$9.90	\$9.25	\$8.32	\$0.00	\$65.22
	6/1/2026	\$39.05	\$9.90	\$9.25	\$8.32	\$0.00	\$66.52
	12/7/2026	\$40.35	\$9.90	\$9.25	\$8.32	\$0.00	\$67.82
	6/7/2027	\$41.75	\$9.90	\$9.25	\$8.32	\$0.00	\$69.22
	12/6/2027	\$43.15	\$9.90	\$9.25	\$8.32	\$0.00	\$70.62
	6/5/2028	\$44.65	\$9.90	\$9.25	\$8.32	\$0.00	\$72.12
	12/4/2028	\$46.15	\$9.90	\$9.25	\$8.32	\$0.00	\$73.62
For apprentice rates see "Apprentice- LABORER"							
WAGON DRILL OPERATOR (HEAVY & HIGHWAY) LABORERS	6/1/2025	\$36.50	\$9.90	\$9.25	\$6.31	\$0.00	\$61.96
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	12/1/2025	\$37.74	\$9.90	\$9.25	\$6.31	\$0.00	\$63.20
	6/1/2026	\$39.04	\$9.90	\$9.25	\$6.31	\$0.00	\$64.50
	12/1/2026	\$40.33	\$9.90	\$9.25	\$6.31	\$0.00	\$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
WATER METER INSTALLER PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2024	\$49.21	\$9.55	\$10.10	\$7.00	\$0.00	\$75.86
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"							

**Outside Electrical**

<b>Classification</b>	<b>Effective Date</b>	<b>Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
EQUIPMENT OPERATOR OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 For apprentice rates see "Apprentice- LINEMAN"	9/1/2019	\$44.67	\$8.00	\$12.55	\$0.00	\$0.00	\$65.22
GROUNDMAN OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 For apprentice rates see "Apprentice- LINEMAN"	9/1/2019	\$30.58	\$8.00	\$5.48	\$0.00	\$0.00	\$44.06
GROUNDMAN / TRUCK DRIVER OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 For apprentice rates see "Apprentice- LINEMAN"	9/1/2019	\$39.97	\$8.00	\$10.96	\$0.00	\$0.00	\$58.93
HEAVY EQUIPMENT OPERATOR OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 For apprentice rates see "Apprentice- LINEMAN"	9/1/2019	\$47.01	\$8.00	\$13.22	\$0.00	\$0.00	\$68.23
JOURNEYMAN LINEMAN OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42	9/1/2019	\$51.71	\$8.00	\$15.55	\$0.00	\$0.00	\$75.26

**Apprentice: JOURNEYMAN LINEMAN**

**Effective Date: 9/1/2019**

<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
1	60.00	\$31.03	\$8.00	\$3.43	\$0.00	\$0.00	\$42.46
2	65.00	\$33.61	\$8.00	\$3.51	\$0.00	\$0.00	\$45.12
3	70.00	\$36.20	\$8.00	\$3.59	\$0.00	\$0.00	\$47.79
4	75.00	\$38.78	\$8.00	\$5.16	\$0.00	\$0.00	\$51.94
5	80.00	\$41.37	\$8.00	\$5.24	\$0.00	\$0.00	\$54.61
6	85.00	\$43.95	\$8.00	\$5.32	\$0.00	\$0.00	\$57.27
7	90.00	\$46.54	\$8.00	\$7.40	\$0.00	\$0.00	\$61.94

TELEDATA CABLE SPLICER OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42	2/4/2019	\$30.73	\$4.70	\$0.92	\$2.25	\$0.00	\$38.60
TELEDATA LINEMAN/EQUIPMENT OPERATOR OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42	2/4/2019	\$28.93	\$4.70	\$0.89	\$2.25	\$0.00	\$36.77
TELEDATA WIREMAN/INSTALLER/TECHNICIAN OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42	2/4/2019	\$28.93	\$4.70	\$0.89	\$2.25	\$0.00	\$36.77
TRACTOR-TRAILER DRIVER OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42	9/1/2019	\$44.67	\$8.00	\$12.55	\$0.00	\$0.00	\$65.22

**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.

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

MAURA HEALY  
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

<b>Awarding Authority:</b>	MassDOT Highway	<b>City/Town:</b>	SPRINGFIELD
<b>Contract Number:</b>	130937		
<b>Description of Work:</b>	LONGMEADOW-SPRINGFIELD – FAP No. STP-0032(045)X Resurfacing and Intersection Improvements on Longmeadow Street (Route 5) and Converse Street (0.84 Miles)		
<b>Job Location:</b>	Along Longmeadow Street (Rte 5) and Converse Street		

**Information about Prevailing Wage Schedules for Awarding Authorities and Contractors**

- The wage rates will remain in effect for the duration of the project, except in the case of multi-year public construction projects. For construction projects lasting longer than one year, awarding authorities must request an updated wage schedule no later than two weeks before the anniversary of the date the contract was executed by the awarding authority and the general contractor. For multi-year CM AT RISK projects, the awarding authority must request an annual update no later than two weeks before the anniversary date, determined as the earlier of: (a) the execution date of the GMP Amendment, or (b) the execution date of the first amendment to permit procurement of construction services. The updated wage schedule must be provided to all contractors, including general and sub-contractors, working on the construction project.
- This annual update requirement is generally not applicable to 27F “rental of equipment” contracts. For such contracts, the prevailing wage rates issued by DLS shall remain in effect for the duration of the contract term. However, if the prevailing wage rate sheet issued does not contain wage rates for each year covered by the contract term, the Awarding Authority must request updated rate sheets from DLS and provide them to the contractor to ensure the correct rates are being paid throughout the duration of the contract. Additionally, if an Awarding Authority exercises an option to renew or extend the contract term, they must request updated rate sheets from DLS and provide them to the contractor.
- This wage schedule applies only to the specific project referenced at the top of this page and uniquely identified by the “Wage Request Number” on all pages of this schedule.
- An Awarding Authority must request an updated wage schedule if it has not opened bids or selected a contractor within 90 days of the date of issuance of the wage schedule. For CM AT RISK projects (bid pursuant to G.L. c.149A), the earlier of: (a) the execution date of the GMP Amendment, or (b) the bid for the first construction scope of work must be within 90-days of the wage schedule issuance date.
- The wage schedule shall be incorporated in any advertisement or call for bids for the project as required by M.G.L. c. 149, § 27. The wage schedule shall be made a part of the contract awarded for the project. The wage schedule must be posted in a conspicuous place at the work site for the life of the project in accordance with M.G.L. c. 149 § 27. The wages listed on the wage schedule must be paid to employees performing construction work on the project whether they are employed by the prime contractor, a filed sub-bidder, or a sub-contractor.
- Apprentices working on the project are required to be registered with the Massachusetts Division of Apprentice Standards (DAS). Apprentices must keep their apprentice identification card on their persons during all work hours on the project. An apprentice registered with DAS may be paid the lower apprentice wage rate at the applicable step as provided on the prevailing wage schedule. **Any apprentice not registered with DAS regardless of whether they are registered with another federal, state, local, or private agency must be paid the journeyworker’s rate.**
- Every contractor or subcontractor working on the construction project must submit weekly payroll reports and a Statement of Compliance directly to the awarding authority by mail or email and keep them on file for three years. Each weekly payroll report must contain: the employee’s name, address, occupational classification, hours worked, and wages paid. Do not submit weekly payroll reports to DLS. For a sample payroll reporting form go to <http://www.mass.gov/dols/pw>.
- Contractors with questions about the wage rates or classifications included on the wage schedule have an affirmative obligation to inquire with DLS at (617) 626-6953.
- Contractors must obtain the wage schedules from awarding authorities. Failure of a contractor or subcontractor to pay the prevailing wage rates listed on the wage schedule to all employees who perform construction work on the project is a violation of the law and subjects the contractor or subcontractor to civil and criminal penalties.
- Employees not receiving the prevailing wage rate set forth on the wage schedule may file a complaint with the Fair Labor Division of the office of the Attorney General at (617) 727-3465.

**Construction**

<b>Classification</b>	<b>Effective Date</b>	<b>Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
(2 AXLE) DRIVER - EQUIPMENT	6/1/2025	\$40.95	\$15.57	\$20.17	\$0.00	\$0.00	\$76.69
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2025	\$40.95	\$15.57	\$21.78	\$0.00	\$0.00	\$78.30
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2026	\$40.95	\$16.17	\$21.78	\$0.00	\$0.00	\$78.90
	6/1/2026	\$41.95	\$16.17	\$21.78	\$0.00	\$0.00	\$79.90
	12/1/2026	\$41.95	\$16.17	\$23.52	\$0.00	\$0.00	\$81.64
	1/1/2027	\$41.95	\$16.77	\$23.52	\$0.00	\$0.00	\$82.24
(3 AXLE) DRIVER - EQUIPMENT	6/1/2025	\$41.02	\$15.57	\$20.17	\$0.00	\$0.00	\$76.76
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2025	\$41.02	\$15.57	\$21.78	\$0.00	\$0.00	\$78.37
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2026	\$41.02	\$16.17	\$21.78	\$0.00	\$0.00	\$78.97
	6/1/2026	\$42.02	\$16.17	\$21.78	\$0.00	\$0.00	\$79.97
	12/1/2026	\$42.02	\$16.17	\$23.52	\$0.00	\$0.00	\$81.71
	1/1/2027	\$42.02	\$16.77	\$23.52	\$0.00	\$0.00	\$82.31
(4 & 5 AXLE) DRIVER - EQUIPMENT	6/1/2025	\$41.14	\$15.57	\$20.17	\$0.00	\$0.00	\$76.88
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2025	\$41.14	\$15.57	\$21.78	\$0.00	\$0.00	\$78.49
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2026	\$41.14	\$16.17	\$21.78	\$0.00	\$0.00	\$79.09
	6/1/2026	\$42.14	\$16.17	\$21.78	\$0.00	\$0.00	\$80.09
	12/1/2026	\$42.14	\$16.17	\$23.52	\$0.00	\$0.00	\$81.83
	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	6/2/2025	\$37.00	\$9.90	\$9.25	\$8.32	\$0.00	\$64.47
LABORERS	12/1/2025	\$38.25	\$9.90	\$9.25	\$8.32	\$0.00	\$65.72
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.55	\$9.90	\$9.25	\$8.32	\$0.00	\$67.02
	12/7/2026	\$40.85	\$9.90	\$9.25	\$8.32	\$0.00	\$68.32
	6/7/2027	\$42.25	\$9.90	\$9.25	\$8.32	\$0.00	\$69.72
	12/6/2027	\$43.65	\$9.90	\$9.25	\$8.32	\$0.00	\$71.12
	6/5/2028	\$45.15	\$9.90	\$9.25	\$8.32	\$0.00	\$72.62
	12/4/2028	\$46.65	\$9.90	\$9.25	\$8.32	\$0.00	\$74.12
For apprentice rates see "Apprentice- LABORER"							
AIR TRACK OPERATOR (HEAVY & HIGHWAY)	6/1/2025	\$37.00	\$9.90	\$9.25	\$6.31	\$0.00	\$62.46
LABORERS	12/1/2025	\$38.24	\$9.90	\$9.25	\$6.31	\$0.00	\$63.70
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	\$39.54	\$9.90	\$9.25	\$6.31	\$0.00	\$65.00
	12/1/2026	\$40.83	\$9.90	\$9.25	\$6.31	\$0.00	\$66.29
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
ASBESTOS WORKER (PIPES & TANKS)	6/1/2025	\$39.42	\$14.50	\$4.30	\$6.25	\$0.00	\$64.47
HEAT & FROST INSULATORS LOCAL 6	12/1/2025	\$40.32	\$14.50	\$4.30	\$6.25	\$0.00	\$65.37
HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)							
ASPHALT RAKER	6/2/2025	\$36.50	\$9.90	\$9.25	\$8.32	\$0.00	\$63.97
LABORERS	12/1/2025	\$37.75	\$9.90	\$9.25	\$8.32	\$0.00	\$65.22
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.05	\$9.90	\$9.25	\$8.32	\$0.00	\$66.52
	12/7/2026	\$40.35	\$9.90	\$9.25	\$8.32	\$0.00	\$67.82

**Construction**

<b>Classification</b>	<b>Effective Date</b>	<b>Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
	6/7/2027	\$41.75	\$9.90	\$9.25	\$8.32	\$0.00	\$69.22
	12/6/2027	\$43.15	\$9.90	\$9.25	\$8.32	\$0.00	\$70.62
	6/5/2028	\$44.65	\$9.90	\$9.25	\$8.32	\$0.00	\$72.12
	12/4/2028	\$46.15	\$9.90	\$9.25	\$8.32	\$0.00	\$73.62
For apprentice rates see "Apprentice- LABORER"							
ASPHALT RAKER (HEAVY & HIGHWAY)	6/1/2025	\$36.50	\$9.90	\$9.25	\$6.31	\$0.00	\$61.96
LABORERS	12/1/2025	\$37.74	\$9.90	\$9.25	\$6.31	\$0.00	\$63.20
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	\$39.04	\$9.90	\$9.25	\$6.31	\$0.00	\$64.50
	12/1/2026	\$40.33	\$9.90	\$9.25	\$6.31	\$0.00	\$65.79
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"							
BACKHOE/FRONT-END LOADER OPERATOR	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"							
BARCO-TYPE JUMPING TAMPER	6/2/2025	\$36.50	\$9.90	\$9.25	\$8.32	\$0.00	\$63.97
LABORERS	12/1/2025	\$37.75	\$9.90	\$9.25	\$8.32	\$0.00	\$65.22
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.05	\$9.90	\$9.25	\$8.32	\$0.00	\$66.52
	12/7/2026	\$40.35	\$9.90	\$9.25	\$8.32	\$0.00	\$67.82
	6/7/2027	\$41.75	\$9.90	\$9.25	\$8.32	\$0.00	\$69.22
	12/6/2027	\$43.15	\$9.90	\$9.25	\$8.32	\$0.00	\$70.62
	6/5/2028	\$44.65	\$9.90	\$9.25	\$8.32	\$0.00	\$72.12
	12/4/2028	\$46.15	\$9.90	\$9.25	\$8.32	\$0.00	\$73.62
For apprentice rates see "Apprentice- LABORER"							
BATCH/CEMENT PLANT - ON SITE	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"							
BLOCK PAVER, RAMMER / CURB SETTER	6/2/2025	\$37.00	\$9.90	\$9.25	\$8.32	\$0.00	\$64.47
LABORERS	12/1/2025	\$38.25	\$9.90	\$9.25	\$8.32	\$0.00	\$65.72
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.55	\$9.90	\$9.25	\$8.32	\$0.00	\$67.02
	12/7/2026	\$40.85	\$9.90	\$9.25	\$8.32	\$0.00	\$68.32
	6/7/2027	\$42.25	\$9.90	\$9.25	\$8.32	\$0.00	\$69.72
	12/6/2027	\$43.65	\$9.90	\$9.25	\$8.32	\$0.00	\$71.12
	6/5/2028	\$45.15	\$9.90	\$9.25	\$8.32	\$0.00	\$72.62
	12/4/2028	\$46.65	\$9.90	\$9.25	\$8.32	\$0.00	\$74.12
For apprentice rates see "Apprentice- LABORER"							
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY)	6/1/2025	\$37.00	\$9.90	\$9.25	\$6.31	\$0.00	\$62.46
LABORERS	12/1/2025	\$38.24	\$9.90	\$9.25	\$6.31	\$0.00	\$63.70
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	\$39.54	\$9.90	\$9.25	\$6.31	\$0.00	\$65.00
	12/1/2026	\$40.83	\$9.90	\$9.25	\$6.31	\$0.00	\$66.29
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BOILER MAKER	1/1/2024	\$48.12	\$7.07	\$14.60	\$6.00	\$0.00	\$75.79
BOILERMAKERS LOCAL 29							
BOILERMAKERS LOCAL 29							

**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

BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)	2/1/2025	\$54.21	\$11.49	\$15.57	\$5.89	\$0.00	\$87.16
BRICKLAYERS LOCAL 3	8/1/2025	\$56.36	\$11.49	\$15.57	\$5.89	\$0.00	\$89.31
BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)	2/1/2026	\$57.71	\$11.49	\$15.57	\$5.89	\$0.00	\$90.66
	8/1/2026	\$59.91	\$11.49	\$15.57	\$5.89	\$0.00	\$92.86
	2/1/2027	\$61.31	\$11.49	\$15.57	\$5.89	\$0.00	\$94.26

**Apprentice: BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)****Effective Date: 2/1/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$27.11	\$11.49	\$15.57	\$5.89	\$0.00	\$60.06
2	60.00	\$32.53	\$11.49	\$15.57	\$5.89	\$0.00	\$65.48
3	70.00	\$37.95	\$11.49	\$15.57	\$5.89	\$0.00	\$70.90
4	80.00	\$43.37	\$11.49	\$15.57	\$5.89	\$0.00	\$76.32
5	90.00	\$48.79	\$11.49	\$15.57	\$5.89	\$0.00	\$81.74

**Apprentice: BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)****Effective Date: 8/1/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$28.18	\$11.49	\$15.57	\$5.89	\$0.00	\$61.13
2	60.00	\$33.82	\$11.49	\$15.57	\$5.89	\$0.00	\$66.77
3	70.00	\$39.45	\$11.49	\$15.57	\$5.89	\$0.00	\$72.40
4	80.00	\$45.09	\$11.49	\$15.57	\$5.89	\$0.00	\$78.04
5	90.00	\$50.72	\$11.49	\$15.57	\$5.89	\$0.00	\$83.67

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							

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
CAISSON & UNDERPINNING BOTTOM MAN	6/1/2025	\$48.85	\$9.90	\$9.25	\$9.80	\$0.00	\$77.80
LABORERS	12/1/2025	\$50.35	\$9.90	\$9.25	\$9.80	\$0.00	\$79.30
LABORERS - FOUNDATION AND MARINE	6/1/2026	\$51.90	\$9.90	\$9.25	\$9.80	\$0.00	\$80.85
	12/1/2026	\$53.40	\$9.90	\$9.25	\$9.80	\$0.00	\$82.35
For apprentice rates see "Apprentice- LABORER"							
CAISSON & UNDERPINNING LABORER	6/1/2025	\$47.70	\$9.90	\$9.25	\$9.80	\$0.00	\$76.65
LABORERS	12/1/2025	\$49.20	\$9.90	\$9.25	\$9.80	\$0.00	\$78.15
LABORERS - FOUNDATION AND MARINE	6/1/2026	\$50.75	\$9.90	\$9.25	\$9.80	\$0.00	\$79.70
	12/1/2026	\$52.25	\$9.90	\$9.25	\$9.80	\$0.00	\$81.20
For apprentice rates see "Apprentice- LABORER"							
CAISSON & UNDERPINNING TOP MAN	6/1/2025	\$48.03	\$9.90	\$9.25	\$9.80	\$0.00	\$76.98
LABORERS	12/1/2025	\$49.53	\$9.90	\$9.25	\$9.80	\$0.00	\$78.48
LABORERS - FOUNDATION AND MARINE	6/1/2026	\$51.08	\$9.90	\$9.25	\$9.80	\$0.00	\$80.03
	12/1/2026	\$52.58	\$9.90	\$9.25	\$9.80	\$0.00	\$81.53
For apprentice rates see "Apprentice- LABORER"							
CARBIDE CORE DRILL OPERATOR	6/2/2025	\$36.50	\$9.90	\$9.25	\$8.32	\$0.00	\$63.97
LABORERS	12/1/2025	\$37.75	\$9.90	\$9.25	\$8.32	\$0.00	\$65.22
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.05	\$9.90	\$9.25	\$8.32	\$0.00	\$66.52
	12/7/2026	\$40.35	\$9.90	\$9.25	\$8.32	\$0.00	\$67.82
	6/7/2027	\$41.75	\$9.90	\$9.25	\$8.32	\$0.00	\$69.22
	12/6/2027	\$43.15	\$9.90	\$9.25	\$8.32	\$0.00	\$70.62
	6/5/2028	\$44.65	\$9.90	\$9.25	\$8.32	\$0.00	\$72.12
	12/4/2028	\$46.15	\$9.90	\$9.25	\$8.32	\$0.00	\$73.62
For apprentice rates see "Apprentice- LABORER"							
CARPENTER	3/1/2025	\$43.26	\$7.91	\$11.25	\$6.90	\$0.00	\$69.32
CARPENTERS	9/1/2025	\$44.21	\$7.91	\$11.25	\$6.90	\$0.00	\$70.27
CARPENTERS LOCAL 336 - HAMPDEN HAMPSHIRE	3/1/2026	\$45.11	\$7.91	\$11.25	\$6.90	\$0.00	\$71.17
FRANKLIN	9/1/2026	\$46.06	\$7.91	\$11.25	\$6.90	\$0.00	\$72.12
	3/1/2027	\$46.96	\$7.91	\$11.25	\$6.90	\$0.00	\$73.02

Apprentice: CARPENTER							
Effective Date: 3/1/2025							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$19.47	\$7.91	\$0.00	\$1.40	\$0.00	\$28.78
2	45.00	\$19.47	\$7.91	\$0.00	\$1.40	\$0.00	\$28.78
3	55.00	\$23.79	\$7.91	\$0.00	\$2.76	\$0.00	\$34.46
4	55.00	\$23.79	\$7.91	\$0.00	\$2.76	\$0.00	\$34.46
5	70.00	\$30.28	\$7.91	\$11.25	\$4.14	\$0.00	\$53.58
6	70.00	\$30.28	\$7.91	\$11.25	\$4.14	\$0.00	\$53.58
7	80.00	\$34.61	\$7.91	\$11.25	\$5.52	\$0.00	\$59.29
8	80.00	\$34.61	\$7.91	\$11.25	\$5.52	\$0.00	\$59.29

## Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
<b>Apprentice: CARPENTER</b> <b>Effective Date: 9/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$19.89	\$7.91	\$0.00	\$1.38	\$0.00	\$29.18
2	45.00	\$19.89	\$7.91	\$0.00	\$1.38	\$0.00	\$29.18
3	55.00	\$24.32	\$7.91	\$0.00	\$2.76	\$0.00	\$34.99
4	55.00	\$24.32	\$7.91	\$0.00	\$2.76	\$0.00	\$34.99
5	70.00	\$30.95	\$7.91	\$11.25	\$4.14	\$0.00	\$54.25
6	70.00	\$30.95	\$7.91	\$11.25	\$4.14	\$0.00	\$54.25
7	80.00	\$35.37	\$7.91	\$11.25	\$5.52	\$0.00	\$60.05
8	80.00	\$35.37	\$7.91	\$11.25	\$5.52	\$0.00	\$60.05
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CARPENTER WOOD FRAME	10/1/2024	\$26.65	\$7.02	\$3.80	\$1.00	\$0.00	\$38.47
CARPENTERS	10/1/2025	\$27.75	\$7.02	\$3.80	\$1.00	\$0.00	\$39.57
CARPENTERS-ZONE 3 (Wood Frame)	10/1/2026	\$28.85	\$7.02	\$3.80	\$1.00	\$0.00	\$40.67
All Aspects of New Wood Frame Work							

<b>Apprentice: CARPENTER WOOD FRAME</b> <b>Effective Date: 10/1/2024</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$15.99	\$7.02	\$0.00	\$0.00	\$0.00	\$23.01
2	60.00	\$15.99	\$7.02	\$0.00	\$0.00	\$0.00	\$23.01
3	65.00	\$17.32	\$7.02	\$0.00	\$1.00	\$0.00	\$25.34
4	70.00	\$18.66	\$7.02	\$0.00	\$1.00	\$0.00	\$26.68
5	75.00	\$19.99	\$7.02	\$3.80	\$1.00	\$0.00	\$31.81
6	80.00	\$21.32	\$7.02	\$3.80	\$1.00	\$0.00	\$33.14
7	85.00	\$22.65	\$7.02	\$3.80	\$1.00	\$0.00	\$34.47
8	90.00	\$23.99	\$7.02	\$3.80	\$1.00	\$0.00	\$35.81

<b>Apprentice: CARPENTER WOOD FRAME</b> <b>Effective Date: 10/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$16.65	\$7.02	\$0.00	\$0.00	\$0.00	\$23.67
2	60.00	\$16.65	\$7.02	\$0.00	\$0.00	\$0.00	\$23.67
3	65.00	\$18.04	\$7.02	\$0.00	\$1.00	\$0.00	\$26.06
4	70.00	\$19.43	\$7.02	\$0.00	\$1.00	\$0.00	\$27.45
5	75.00	\$20.81	\$7.02	\$3.80	\$1.00	\$0.00	\$32.63
6	80.00	\$22.20	\$7.02	\$3.80	\$1.00	\$0.00	\$34.02
7	85.00	\$23.59	\$7.02	\$3.80	\$1.00	\$0.00	\$35.41
8	90.00	\$24.98	\$7.02	\$3.80	\$1.00	\$0.00	\$36.80

CEMENT MASONRY/PLASTERING	7/1/2024	\$44.56	\$13.20	\$16.30	\$2.93	\$1.69	\$78.68
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**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BRICKLAYERS LOCAL 3							
BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)							

**Apprentice: CEMENT MASONRY/PLASTERING****Effective Date: 7/1/2024**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$22.28	\$13.20	\$16.30	\$0.00	\$0.00	\$51.78
2	60.00	\$26.74	\$13.20	\$16.30	\$2.93	\$1.69	\$60.86
3	65.00	\$28.96	\$13.20	\$16.30	\$2.93	\$1.69	\$63.08
4	70.00	\$31.19	\$13.20	\$16.30	\$2.93	\$1.69	\$65.31
5	75.00	\$33.42	\$13.20	\$16.30	\$2.93	\$1.69	\$67.54
6	80.00	\$35.65	\$13.20	\$16.30	\$2.93	\$1.69	\$69.77
7	90.00	\$40.10	\$13.20	\$16.30	\$2.93	\$1.69	\$74.22

CHAIN SAW OPERATOR	6/2/2025	\$36.50	\$9.90	\$9.25	\$8.32	\$0.00	\$63.97
LABORERS	12/1/2025	\$37.75	\$9.90	\$9.25	\$8.32	\$0.00	\$65.22
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.05	\$9.90	\$9.25	\$8.32	\$0.00	\$66.52
	12/7/2026	\$40.35	\$9.90	\$9.25	\$8.32	\$0.00	\$67.82
	6/7/2027	\$41.75	\$9.90	\$9.25	\$8.32	\$0.00	\$69.22
	12/6/2027	\$43.15	\$9.90	\$9.25	\$8.32	\$0.00	\$70.62
	6/5/2028	\$44.65	\$9.90	\$9.25	\$8.32	\$0.00	\$72.12
	12/4/2028	\$46.15	\$9.90	\$9.25	\$8.32	\$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)	1/1/2025	\$58.46	\$9.95	\$11.85	\$12.10	\$0.00	\$92.36
PAINTERS LOCAL 35							
PAINTERS LOCAL 35 - ZONE 3							

**Apprentice: DELEADER (BRIDGE)****Effective Date: 1/1/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$29.23	\$9.95	\$0.00	\$0.00	\$0.00	\$39.18
2	55.00	\$32.15	\$9.95	\$0.00	\$6.66	\$0.00	\$48.76
3	60.00	\$35.08	\$9.95	\$0.00	\$7.26	\$0.00	\$52.29
4	65.00	\$38.00	\$9.95	\$0.00	\$7.87	\$0.00	\$55.82
5	70.00	\$40.92	\$9.95	\$11.85	\$8.47	\$0.00	\$71.19

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate																																
<div>Apprentice: DELEADER (BRIDGE)</div> <div>Effective Date: 1/1/2025</div> <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>6</td><td>75.00</td><td>\$43.85</td><td>\$9.95</td><td>\$11.85</td><td>\$9.08</td><td>\$0.00</td><td>\$74.73</td></tr><tr><td>7</td><td>80.00</td><td>\$46.77</td><td>\$9.95</td><td>\$11.85</td><td>\$9.68</td><td>\$0.00</td><td>\$78.25</td></tr><tr><td>8</td><td>90.00</td><td>\$52.61</td><td>\$9.95</td><td>\$11.85</td><td>\$10.89</td><td>\$0.00</td><td>\$85.30</td></tr></tbody></table>								Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate	6	75.00	\$43.85	\$9.95	\$11.85	\$9.08	\$0.00	\$74.73	7	80.00	\$46.77	\$9.95	\$11.85	\$9.68	\$0.00	\$78.25	8	90.00	\$52.61	\$9.95	\$11.85	\$10.89	\$0.00	\$85.30
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate																																
6	75.00	\$43.85	\$9.95	\$11.85	\$9.08	\$0.00	\$74.73																																
7	80.00	\$46.77	\$9.95	\$11.85	\$9.68	\$0.00	\$78.25																																
8	90.00	\$52.61	\$9.95	\$11.85	\$10.89	\$0.00	\$85.30																																
DEMO: ADZEMAN	6/2/2025	\$47.75	\$9.90	\$9.25	\$9.65	\$0.00	\$76.55																																
LABORERS	12/1/2025	\$49.25	\$9.90	\$9.25	\$9.65	\$0.00	\$78.05																																
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$50.80	\$9.90	\$9.25	\$9.65	\$0.00	\$79.60																																
	12/7/2026	\$52.30	\$9.90	\$9.25	\$9.65	\$0.00	\$81.10																																
	6/7/2027	\$53.90	\$9.90	\$9.25	\$9.65	\$0.00	\$82.70																																
	12/6/2027	\$55.50	\$9.90	\$9.25	\$9.65	\$0.00	\$84.30																																
	6/5/2028	\$57.18	\$9.90	\$9.25	\$9.65	\$0.00	\$85.98																																
	12/4/2028	\$58.85	\$9.90	\$9.25	\$9.65	\$0.00	\$87.65																																
For apprentice rates see "Apprentice- LABORER"																																							
DEMO: BACKHOE/LOADER/HAMMER OPERATOR	6/2/2025	\$48.75	\$9.90	\$9.25	\$9.65	\$0.00	\$77.55																																
LABORERS	12/1/2025	\$50.25	\$9.90	\$9.25	\$9.65	\$0.00	\$79.05																																
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$51.80	\$9.90	\$9.25	\$9.65	\$0.00	\$80.60																																
	12/7/2026	\$53.30	\$9.90	\$9.25	\$9.65	\$0.00	\$82.10																																
	6/7/2027	\$54.90	\$9.90	\$9.25	\$9.65	\$0.00	\$83.70																																
	12/6/2027	\$56.50	\$9.90	\$9.25	\$9.65	\$0.00	\$85.30																																
	6/5/2028	\$58.18	\$9.90	\$9.25	\$9.65	\$0.00	\$86.98																																
	12/4/2028	\$59.85	\$9.90	\$9.25	\$9.65	\$0.00	\$88.65																																
For apprentice rates see "Apprentice- LABORER"																																							
DEMO: BURNERS	6/2/2025	\$49.25	\$9.65	\$9.00	\$9.40	\$0.00	\$77.30																																
LABORERS	12/1/2025	\$50.75	\$9.65	\$9.00	\$9.40	\$0.00	\$78.80																																
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$52.30	\$9.65	\$9.00	\$9.40	\$0.00	\$80.35																																
	12/7/2026	\$53.80	\$9.65	\$9.00	\$9.40	\$0.00	\$81.85																																
	6/7/2027	\$55.40	\$9.65	\$9.00	\$9.40	\$0.00	\$83.45																																
	12/6/2027	\$57.00	\$9.65	\$9.00	\$9.40	\$0.00	\$85.05																																
	6/5/2028	\$58.68	\$9.65	\$9.00	\$9.40	\$0.00	\$86.73																																
	12/4/2028	\$60.35	\$9.65	\$9.00	\$9.40	\$0.00	\$88.40																																
For apprentice rates see "Apprentice- LABORER"																																							
DEMO: CONCRETE CUTTER/SAWYER	6/2/2025	\$48.75	\$9.90	\$9.25	\$9.65	\$0.00	\$77.55																																
LABORERS	12/1/2025	\$50.25	\$9.90	\$9.25	\$9.65	\$0.00	\$79.05																																
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$51.80	\$9.90	\$9.25	\$9.65	\$0.00	\$80.60																																
	12/7/2026	\$53.30	\$9.90	\$9.25	\$9.65	\$0.00	\$82.10																																
	6/7/2027	\$54.90	\$9.90	\$9.25	\$9.65	\$0.00	\$83.70																																
	12/6/2027	\$56.50	\$9.90	\$9.25	\$9.65	\$0.00	\$85.30																																
	6/5/2028	\$58.18	\$9.90	\$9.25	\$9.65	\$0.00	\$86.98																																
	12/4/2028	\$59.85	\$9.90	\$9.25	\$9.65	\$0.00	\$88.65																																
For apprentice rates see "Apprentice- LABORER"																																							
DEMO: JACKHAMMER OPERATOR	6/2/2025	\$49.25	\$9.65	\$9.00	\$9.40	\$0.00	\$77.30																																



**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
LABORERS	12/1/2025	\$50.75	\$9.65	\$9.00	\$9.40	\$0.00	\$78.80
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$52.30	\$9.65	\$9.00	\$9.40	\$0.00	\$80.35
	12/7/2026	\$53.80	\$9.65	\$9.00	\$9.40	\$0.00	\$81.85
	6/7/2027	\$55.40	\$9.65	\$9.00	\$9.40	\$0.00	\$83.45
	12/6/2027	\$57.00	\$9.65	\$9.00	\$9.40	\$0.00	\$85.05
	6/5/2028	\$58.68	\$9.65	\$9.00	\$9.40	\$0.00	\$86.73
	12/4/2028	\$60.35	\$9.65	\$9.00	\$9.40	\$0.00	\$88.40
For apprentice rates see "Apprentice- LABORER"							
DEMO: WRECKING LABORER	6/2/2025	\$47.75	\$9.90	\$9.25	\$9.65	\$0.00	\$76.55
LABORERS	12/1/2025	\$49.25	\$9.90	\$9.25	\$9.65	\$0.00	\$78.05
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$50.80	\$9.90	\$9.25	\$9.65	\$0.00	\$79.60
	12/7/2026	\$52.30	\$9.90	\$9.25	\$9.65	\$0.00	\$81.10
	6/7/2027	\$53.90	\$9.90	\$9.25	\$9.65	\$0.00	\$82.70
	12/6/2027	\$55.50	\$9.90	\$9.25	\$9.65	\$0.00	\$84.30
	6/5/2028	\$57.18	\$9.90	\$9.25	\$9.65	\$0.00	\$85.98
	12/4/2028	\$58.85	\$9.90	\$9.25	\$9.65	\$0.00	\$87.65
For apprentice rates see "Apprentice- LABORER"							
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)	6/29/2025	\$52.16	\$13.50	\$8.31	\$6.90	\$0.00	\$80.87
ELECTRICIANS LOCAL 7	12/28/2025	\$53.26	\$13.75	\$8.40	\$6.96	\$0.00	\$82.37
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

**Apprentice: ELECTRICIAN (Including Core Drilling)**

**Effective Date: 6/29/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
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## Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
<b>Apprentice: ELECTRICIAN (Including Core Drilling)</b>							
<b>Effective Date: 6/29/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	\$20.86	\$7.50	\$0.63	\$0.00	\$0.00	\$28.99
2	45.00	\$23.47	\$7.50	\$0.70	\$0.00	\$0.00	\$31.67
3	50.00	\$26.08	\$13.50	\$7.53	\$0.00	\$0.00	\$47.11
4	55.00	\$28.69	\$13.50	\$7.61	\$0.00	\$0.00	\$49.80
5	65.00	\$33.90	\$13.50	\$9.84	\$0.00	\$0.00	\$57.24
6	70.00	\$36.51	\$13.50	\$11.30	\$0.00	\$0.00	\$61.31
<b>Apprentice: ELECTRICIAN (Including Core Drilling)</b>							
<b>Effective Date: 12/28/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	\$21.30	\$7.65	\$0.63	\$0.00	\$0.00	\$29.58
2	45.00	\$23.97	\$7.65	\$0.70	\$0.00	\$0.00	\$32.32
3	50.00	\$26.63	\$13.75	\$7.53	\$0.00	\$0.00	\$47.91
4	55.00	\$29.29	\$13.75	\$7.61	\$0.00	\$0.00	\$50.65
5	65.00	\$34.62	\$13.75	\$9.84	\$0.00	\$0.00	\$58.21
6	70.00	\$37.28	\$13.75	\$11.30	\$0.00	\$0.00	\$62.33
ELEVATOR CONSTRUCTOR	1/1/2025	\$62.83	\$16.28	\$10.96	\$10.40	\$0.00	\$100.47
ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2026	\$63.68	\$16.38	\$11.06	\$10.70	\$0.00	\$101.82
ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2027	\$64.53	\$16.48	\$11.16	\$11.00	\$0.00	\$103.17

<b>Apprentice: ELEVATOR CONSTRUCTOR</b>							
<b>Effective Date: 1/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$31.42	\$16.28	\$0.00	\$0.00	\$0.00	\$47.70
2	55.00	\$34.56	\$16.28	\$10.96	\$10.40	\$0.00	\$72.20
3	65.00	\$40.84	\$16.28	\$10.96	\$10.40	\$0.00	\$78.48
4	70.00	\$43.98	\$16.28	\$10.96	\$10.40	\$0.00	\$81.62
5	80.00	\$50.26	\$16.28	\$10.96	\$10.40	\$0.00	\$87.90

<b>Apprentice: ELEVATOR CONSTRUCTOR</b>							
<b>Effective Date: 1/1/2026</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$31.84	\$16.38	\$0.00	\$0.00	\$0.00	\$48.22
2	55.00	\$35.02	\$16.38	\$11.06	\$10.70	\$0.00	\$73.16
3	65.00	\$41.39	\$16.38	\$11.06	\$10.70	\$0.00	\$79.53
4	70.00	\$44.58	\$16.38	\$11.06	\$10.70	\$0.00	\$82.72

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate																
	<div>Apprentice: ELEVATOR CONSTRUCTOR</div> <div>Effective Date: 1/1/2026</div> <table><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><tr><td>5</td><td>80.00</td><td>\$50.94</td><td>\$16.38</td><td>\$11.06</td><td>\$10.70</td><td>\$0.00</td><td>\$89.08</td></tr></table>							Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate	5	80.00	\$50.94	\$16.38	\$11.06	\$10.70	\$0.00	\$89.08
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate																
5	80.00	\$50.94	\$16.38	\$11.06	\$10.70	\$0.00	\$89.08																
ELEVATOR CONSTRUCTOR HELPER	1/1/2025	\$43.98	\$16.28	\$10.96	\$10.40	\$0.00	\$81.62																
ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2026	\$44.58	\$16.38	\$11.06	\$10.70	\$0.00	\$82.72																
ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2027	\$45.17	\$16.48	\$11.16	\$11.00	\$0.00	\$83.81																
For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"																							
FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY)	6/1/2025	\$36.50	\$9.90	\$9.25	\$6.31	\$0.00	\$61.96																
LABORERS	12/1/2025	\$37.74	\$9.90	\$9.25	\$6.31	\$0.00	\$63.20																
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	\$39.04	\$9.90	\$9.25	\$6.31	\$0.00	\$64.50																
	12/1/2026	\$40.33	\$9.90	\$9.25	\$6.31	\$0.00	\$65.79																
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																							
FIRE ALARM INSTALLER	6/29/2025	\$52.16	\$13.50	\$8.31	\$6.90	\$0.00	\$80.87																
ELECTRICIANS LOCAL 7	12/28/2025	\$53.26	\$13.75	\$8.40	\$6.96	\$0.00	\$82.37																
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"																							
FIRE ALARM REPAIR / MAINTENANCE	6/29/2025	\$52.16	\$13.50	\$8.31	\$6.90	\$0.00	\$80.87																
/ COMMISSIONING	12/28/2025	\$53.26	\$13.75	\$8.40	\$6.96	\$0.00	\$82.37																
ELECTRICIANS LOCAL 7	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																
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
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**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
<b>Apprentice: FIREMAN</b> <b>Effective Date: 12/1/2023</b>							
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
FLAGGER & SIGNALER (HEAVY & HIGHWAY)	6/1/2025	\$28.09	\$9.90	\$9.25	\$6.31	\$0.00	\$53.55
LABORERS	12/1/2025	\$28.09	\$9.90	\$9.25	\$6.31	\$0.00	\$53.55
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	\$29.21	\$9.90	\$9.25	\$6.31	\$0.00	\$54.67
	12/1/2026	\$29.21	\$9.90	\$9.25	\$6.31	\$0.00	\$54.67
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
FLOORCOVERER	3/1/2025	\$43.26	\$7.91	\$11.25	\$6.90	\$0.00	\$69.32
FLOORCOVERERS LOCAL 2168	9/1/2025	\$44.21	\$7.91	\$11.25	\$6.90	\$0.00	\$70.27
FLOORCOVERERS LOCAL 2168 ZONE III	3/1/2026	\$45.11	\$7.91	\$11.25	\$6.90	\$0.00	\$71.17
	9/1/2026	\$46.06	\$7.91	\$11.25	\$6.90	\$0.00	\$72.12
	3/1/2027	\$46.96	\$7.91	\$11.25	\$6.90	\$0.00	\$73.02
<b>Apprentice: FLOORCOVERER</b> <b>Effective Date: 3/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$19.47	\$7.91	\$0.00	\$1.38	\$0.00	\$28.76
2	45.00	\$19.47	\$7.91	\$0.00	\$1.38	\$0.00	\$28.76
3	55.00	\$23.79	\$7.91	\$0.00	\$2.76	\$0.00	\$34.46
4	55.00	\$23.79	\$7.91	\$0.00	\$2.76	\$0.00	\$34.46
5	70.00	\$30.28	\$7.91	\$11.25	\$4.14	\$0.00	\$53.58
6	70.00	\$30.28	\$7.91	\$11.25	\$4.14	\$0.00	\$53.58
7	80.00	\$34.61	\$7.91	\$11.25	\$5.52	\$0.00	\$59.29
8	80.00	\$34.61	\$7.91	\$11.25	\$5.52	\$0.00	\$59.29
<b>Apprentice: FLOORCOVERER</b> <b>Effective Date: 9/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$19.89	\$7.91	\$0.00	\$1.38	\$0.00	\$29.18
2	45.00	\$19.89	\$7.91	\$0.00	\$1.38	\$0.00	\$29.18
3	55.00	\$24.32	\$7.91	\$0.00	\$2.76	\$0.00	\$34.99
4	55.00	\$24.32	\$7.91	\$0.00	\$2.76	\$0.00	\$34.99
5	70.00	\$30.95	\$7.91	\$11.25	\$4.14	\$0.00	\$54.25
6	70.00	\$30.95	\$7.91	\$11.25	\$4.14	\$0.00	\$54.25
7	80.00	\$35.37	\$7.91	\$11.25	\$5.52	\$0.00	\$60.05
8	80.00	\$35.37	\$7.91	\$11.25	\$5.52	\$0.00	\$60.05

**Construction**

<b>Classification</b>	<b>Effective Date</b>	<b>Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>																																																																								
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																																																																								
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																																																																								
For apprentice rates see "Apprentice- OPERATING ENGINEERS"																																																																															
GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS) GLAZIERS LOCAL 1333 GLAZIERS LOCAL 1333	6/1/2020	\$39.18	\$10.80	\$6.70	\$3.75	\$0.00	\$60.43																																																																								
<b>Apprentice: GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)</b> <b>Effective Date: 6/1/2020</b> <table> <tr> <th><b>Step</b></th><th><b>Percent</b></th><th><b>Apprentice Base Wage</b></th><th><b>Health</b></th><th><b>Pension</b></th><th><b>Annuity</b></th><th><b>Supplemental Unemployment</b></th><th><b>Total Rate</b></th></tr> <tr><td>1</td><td>50.00</td><td>\$19.59</td><td>\$10.80</td><td>\$1.50</td><td>\$0.30</td><td>\$0.00</td><td>\$32.19</td></tr> <tr><td>2</td><td>56.25</td><td>\$22.04</td><td>\$10.80</td><td>\$1.50</td><td>\$0.30</td><td>\$0.00</td><td>\$34.64</td></tr> <tr><td>3</td><td>62.50</td><td>\$24.49</td><td>\$10.80</td><td>\$1.95</td><td>\$0.50</td><td>\$0.00</td><td>\$37.74</td></tr> <tr><td>4</td><td>68.75</td><td>\$26.94</td><td>\$10.80</td><td>\$1.95</td><td>\$0.50</td><td>\$0.00</td><td>\$40.19</td></tr> <tr><td>5</td><td>75.00</td><td>\$29.39</td><td>\$10.80</td><td>\$2.50</td><td>\$0.65</td><td>\$0.00</td><td>\$43.34</td></tr> <tr><td>6</td><td>81.25</td><td>\$31.83</td><td>\$10.80</td><td>\$2.50</td><td>\$0.65</td><td>\$0.00</td><td>\$45.78</td></tr> <tr><td>7</td><td>87.50</td><td>\$34.28</td><td>\$10.80</td><td>\$6.70</td><td>\$3.75</td><td>\$0.00</td><td>\$55.53</td></tr> <tr><td>8</td><td>93.75</td><td>\$36.73</td><td>\$10.80</td><td>\$6.70</td><td>\$3.75</td><td>\$0.00</td><td>\$57.98</td></tr> </table>								<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>	1	50.00	\$19.59	\$10.80	\$1.50	\$0.30	\$0.00	\$32.19	2	56.25	\$22.04	\$10.80	\$1.50	\$0.30	\$0.00	\$34.64	3	62.50	\$24.49	\$10.80	\$1.95	\$0.50	\$0.00	\$37.74	4	68.75	\$26.94	\$10.80	\$1.95	\$0.50	\$0.00	\$40.19	5	75.00	\$29.39	\$10.80	\$2.50	\$0.65	\$0.00	\$43.34	6	81.25	\$31.83	\$10.80	\$2.50	\$0.65	\$0.00	\$45.78	7	87.50	\$34.28	\$10.80	\$6.70	\$3.75	\$0.00	\$55.53	8	93.75	\$36.73	\$10.80	\$6.70	\$3.75	\$0.00	\$57.98
<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>																																																																								
1	50.00	\$19.59	\$10.80	\$1.50	\$0.30	\$0.00	\$32.19																																																																								
2	56.25	\$22.04	\$10.80	\$1.50	\$0.30	\$0.00	\$34.64																																																																								
3	62.50	\$24.49	\$10.80	\$1.95	\$0.50	\$0.00	\$37.74																																																																								
4	68.75	\$26.94	\$10.80	\$1.95	\$0.50	\$0.00	\$40.19																																																																								
5	75.00	\$29.39	\$10.80	\$2.50	\$0.65	\$0.00	\$43.34																																																																								
6	81.25	\$31.83	\$10.80	\$2.50	\$0.65	\$0.00	\$45.78																																																																								
7	87.50	\$34.28	\$10.80	\$6.70	\$3.75	\$0.00	\$55.53																																																																								
8	93.75	\$36.73	\$10.80	\$6.70	\$3.75	\$0.00	\$57.98																																																																								
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	1/1/2025	\$42.23	\$12.20	\$10.79	\$7.95	\$2.13	\$75.30																																																																								
For apprentice rates see "Apprentice- SHEET METAL WORKER"																																																																															
HVAC (ELECTRICAL CONTROLS) ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/29/2025	\$52.16	\$13.50	\$8.31	\$6.90	\$0.00	\$80.87																																																																								
	12/28/2025	\$53.26	\$13.75	\$8.40	\$6.96	\$0.00	\$82.37																																																																								
	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	1/1/2025	\$42.23	\$12.20	\$10.79	\$7.95	\$2.13	\$75.30																																																																								
For apprentice rates see "Apprentice- SHEET METAL WORKER"																																																																															
HVAC (TESTING AND BALANCING - WATER) PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2024	\$49.21	\$9.55	\$10.10	\$7.00	\$0.00	\$75.86																																																																								
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"																																																																															

**Construction**

<b>Classification</b>	<b>Effective Date</b>	<b>Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
HVAC MECHANIC	3/17/2024	\$49.21	\$9.55	\$10.10	\$7.00	\$0.00	\$75.86
PLUMBERS & PIPEFITTERS LOCAL 104							
PLUMBERS & PIPEFITTERS LOCAL 104							

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

HYDRAULIC DRILLS (HEAVY & HIGHWAY)	6/1/2025	\$37.00	\$9.90	\$9.25	\$6.31	\$0.00	\$62.46
LABORERS	12/1/2025	\$38.24	\$9.90	\$9.25	\$6.31	\$0.00	\$63.70
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	\$39.54	\$9.90	\$9.25	\$6.31	\$0.00	\$65.00
	12/1/2026	\$40.83	\$9.90	\$9.25	\$6.31	\$0.00	\$66.29

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

INSULATOR (PIPES & TANKS)	9/1/2024	\$45.54	\$14.75	\$9.52	\$10.09	\$0.00	\$79.90
HEAT & FROST INSULATORS LOCAL 6	9/1/2025	\$48.27	\$14.75	\$9.52	\$10.09	\$0.00	\$82.63
HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)	9/1/2026	\$51.01	\$14.75	\$9.52	\$10.09	\$0.00	\$85.37

**Apprentice: INSULATOR (PIPES & TANKS)****Effective Date: 9/1/2024**

<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
1	50.00	\$22.77	\$14.75	\$9.27	\$5.05	\$0.00	\$51.84
2	60.00	\$27.32	\$14.75	\$9.32	\$6.05	\$0.00	\$57.44
3	70.00	\$31.88	\$14.75	\$9.37	\$7.06	\$0.00	\$63.06
4	80.00	\$36.43	\$14.75	\$9.42	\$8.07	\$0.00	\$68.67

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

<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
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

IRONWORKER/WELDER	3/16/2024	\$40.66	\$8.25	\$12.70	\$10.00	\$0.00	\$71.61
IRONWORKERS LOCAL 7							
IRONWORKERS LOCAL 7 (SPRINGFIELD AREA)							

**Apprentice: IRONWORKER/WELDER****Effective Date: 3/16/2024**

<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
1	60.00	\$24.40	\$8.25	\$12.70	\$10.00	\$0.00	\$55.35
2	70.00	\$28.46	\$8.25	\$12.70	\$10.00	\$0.00	\$59.41
3	75.00	\$30.50	\$8.25	\$12.70	\$10.00	\$0.00	\$61.45
4	80.00	\$32.53	\$8.25	\$12.70	\$10.00	\$0.00	\$63.48
5	85.00	\$34.56	\$8.25	\$12.70	\$10.00	\$0.00	\$65.51

## Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
<b>Apprentice: IRONWORKER/WELDER</b> <b>Effective Date: 3/16/2024</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
6	90.00	\$36.59	\$8.25	\$12.70	\$10.00	\$0.00	\$67.54
JACKHAMMER & PAVING BREAKER OPERATOR	6/2/2025	\$36.50	\$9.90	\$9.25	\$8.32	\$0.00	\$63.97
LABORERS	12/1/2025	\$37.75	\$9.90	\$9.25	\$8.32	\$0.00	\$65.22
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.05	\$9.90	\$9.25	\$8.32	\$0.00	\$66.52
	12/7/2026	\$40.35	\$9.90	\$9.25	\$8.32	\$0.00	\$67.82
	6/7/2027	\$41.75	\$9.90	\$9.25	\$8.32	\$0.00	\$69.22
	12/6/2027	\$43.15	\$9.90	\$9.25	\$8.32	\$0.00	\$70.62
	6/5/2028	\$44.65	\$9.90	\$9.25	\$8.32	\$0.00	\$72.12
	12/4/2028	\$46.15	\$9.90	\$9.25	\$8.32	\$0.00	\$73.62
For apprentice rates see "Apprentice- LABORER"							
LABORER	6/2/2025	\$36.75	\$9.90	\$9.25	\$8.32	\$0.00	\$64.22
LABORERS	12/1/2025	\$38.00	\$9.90	\$9.25	\$8.32	\$0.00	\$65.47
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.30	\$9.90	\$9.25	\$8.32	\$0.00	\$66.77
	12/7/2026	\$40.60	\$9.90	\$9.25	\$8.32	\$0.00	\$68.07
	6/7/2027	\$42.00	\$9.90	\$9.25	\$8.32	\$0.00	\$69.47
	12/6/2027	\$43.40	\$9.90	\$9.25	\$8.32	\$0.00	\$70.87
	6/5/2028	\$44.90	\$9.90	\$9.25	\$8.32	\$0.00	\$72.37
	12/4/2028	\$46.40	\$9.90	\$9.25	\$8.32	\$0.00	\$73.87
<b>Apprentice: LABORER</b> <b>Effective Date: 6/2/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$22.05	\$9.90	\$9.25	\$8.32	\$0.00	\$49.52
2	70.00	\$25.73	\$9.90	\$9.25	\$8.32	\$0.00	\$53.20
3	80.00	\$29.40	\$9.90	\$9.25	\$8.32	\$0.00	\$56.87
4	90.00	\$33.08	\$9.90	\$9.25	\$8.32	\$0.00	\$60.55
<b>Apprentice: LABORER</b> <b>Effective Date: 12/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$22.80	\$9.90	\$9.25	\$8.32	\$0.00	\$50.27
2	70.00	\$26.60	\$9.90	\$9.25	\$8.32	\$0.00	\$54.07
3	80.00	\$30.40	\$9.90	\$9.25	\$8.32	\$0.00	\$57.87
4	90.00	\$34.20	\$9.90	\$9.25	\$8.32	\$0.00	\$61.67
LABORER (HEAVY & HIGHWAY)	6/1/2025	\$36.25	\$9.90	\$9.25	\$6.31	\$0.00	\$61.71
LABORERS	12/1/2025	\$37.49	\$9.90	\$9.25	\$6.31	\$0.00	\$62.95
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	\$38.79	\$9.90	\$9.25	\$6.31	\$0.00	\$64.25

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	12/1/2026	\$40.08	\$9.90	\$9.25	\$6.31	\$0.00	\$65.54

**Apprentice: LABORER (HEAVY & HIGHWAY)****Effective Date: 6/1/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$21.75	\$9.90	\$9.25	\$6.31	\$0.00	\$47.21
2	70.00	\$25.38	\$9.90	\$9.25	\$6.31	\$0.00	\$50.84
3	80.00	\$29.00	\$9.90	\$9.25	\$6.31	\$0.00	\$54.46
4	90.00	\$32.63	\$9.90	\$9.25	\$6.31	\$0.00	\$58.09

**Apprentice: LABORER (HEAVY & HIGHWAY)****Effective Date: 12/1/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$22.49	\$9.90	\$9.25	\$6.31	\$0.00	\$47.95
2	70.00	\$26.24	\$9.90	\$9.25	\$6.31	\$0.00	\$51.70
3	80.00	\$29.99	\$9.90	\$9.25	\$6.31	\$0.00	\$55.45
4	90.00	\$33.74	\$9.90	\$9.25	\$6.31	\$0.00	\$59.20

LABORER: CARPENTER TENDER	6/2/2025	\$36.75	\$9.90	\$9.25	\$8.32	\$0.00	\$64.22
LABORERS	12/1/2025	\$38.00	\$9.90	\$9.25	\$8.32	\$0.00	\$65.47
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.30	\$9.90	\$9.25	\$8.32	\$0.00	\$66.77
	12/7/2026	\$40.60	\$9.90	\$9.25	\$8.32	\$0.00	\$68.07
	6/7/2027	\$42.00	\$9.90	\$9.25	\$8.32	\$0.00	\$69.47
	12/6/2027	\$43.40	\$9.90	\$9.25	\$8.32	\$0.00	\$70.87
	6/5/2028	\$44.90	\$9.90	\$9.25	\$8.32	\$0.00	\$72.37
	12/4/2028	\$46.40	\$9.90	\$9.25	\$8.32	\$0.00	\$73.87

For apprentice rates see "Apprentice- LABORER"

LABORER: CEMENT FINISHER TENDER	6/2/2025	\$36.25	\$9.90	\$9.25	\$8.32	\$0.00	\$63.72
LABORERS	12/1/2025	\$37.50	\$9.90	\$9.25	\$8.32	\$0.00	\$64.97
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$38.80	\$9.90	\$9.25	\$8.32	\$0.00	\$66.27
	12/7/2026	\$40.10	\$9.90	\$9.25	\$8.32	\$0.00	\$67.57
	6/7/2027	\$41.50	\$9.90	\$9.25	\$8.32	\$0.00	\$68.97
	12/6/2027	\$42.90	\$9.90	\$9.25	\$8.32	\$0.00	\$70.37
	6/5/2028	\$44.40	\$9.90	\$9.25	\$8.32	\$0.00	\$71.87
	12/4/2028	\$45.90	\$9.90	\$9.25	\$8.32	\$0.00	\$73.37

For apprentice rates see "Apprentice- LABORER"

LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER	6/2/2025	\$36.17	\$9.90	\$9.25	\$8.45	\$0.00	\$63.77
LABORERS	12/1/2025	\$37.42	\$9.90	\$9.25	\$8.45	\$0.00	\$65.02
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$38.72	\$9.90	\$9.25	\$8.45	\$0.00	\$66.32
	12/7/2026	\$40.02	\$9.90	\$9.25	\$8.45	\$0.00	\$67.62
	6/7/2027	\$41.42	\$9.90	\$9.25	\$8.45	\$0.00	\$69.02
	12/6/2027	\$42.82	\$9.90	\$9.25	\$8.45	\$0.00	\$70.42
	6/5/2028	\$44.32	\$9.90	\$9.25	\$8.45	\$0.00	\$71.92



**Construction**

<b>Classification</b>	<b>Effective Date</b>	<b>Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
	12/4/2028	\$45.82	\$9.90	\$9.25	\$8.45	\$0.00	\$73.42
For apprentice rates see "Apprentice- LABORER"							
LABORER: MASON TENDER	6/2/2025	\$39.25	\$9.90	\$9.25	\$8.32	\$0.00	\$66.72
LABORERS	12/1/2025	\$40.50	\$9.90	\$9.25	\$8.32	\$0.00	\$67.97
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$41.80	\$9.90	\$9.25	\$8.32	\$0.00	\$69.27
	12/7/2026	\$43.10	\$9.90	\$9.25	\$8.32	\$0.00	\$70.57
	6/7/2027	\$44.50	\$9.90	\$9.25	\$8.32	\$0.00	\$71.97
	12/6/2027	\$45.90	\$9.90	\$9.25	\$8.32	\$0.00	\$73.37
	6/5/2028	\$47.40	\$9.90	\$9.25	\$8.32	\$0.00	\$74.87
	12/4/2028	\$48.90	\$9.90	\$9.25	\$8.32	\$0.00	\$76.37
For apprentice rates see "Apprentice- LABORER"							
LABORER: MASON TENDER (HEAVY & HIGHWAY)	6/1/2025	\$36.50	\$9.90	\$9.25	\$6.31	\$0.00	\$61.96
LABORERS	12/1/2025	\$37.74	\$9.90	\$9.25	\$6.31	\$0.00	\$63.20
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	\$39.04	\$9.90	\$9.25	\$6.31	\$0.00	\$64.50
	12/1/2026	\$40.33	\$9.90	\$9.25	\$6.31	\$0.00	\$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
LABORER: MULTI-TRADE TENDER	6/2/2025	\$36.75	\$9.90	\$9.25	\$8.32	\$0.00	\$64.22
LABORERS	12/1/2025	\$38.00	\$9.90	\$9.25	\$8.32	\$0.00	\$65.47
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.30	\$9.90	\$9.25	\$8.32	\$0.00	\$66.77
	12/7/2026	\$40.60	\$9.90	\$9.25	\$8.32	\$0.00	\$68.07
	6/7/2027	\$42.00	\$9.90	\$9.25	\$8.32	\$0.00	\$69.47
	12/6/2027	\$43.40	\$9.90	\$9.25	\$8.32	\$0.00	\$70.87
	6/5/2028	\$44.90	\$9.90	\$9.25	\$8.32	\$0.00	\$72.37
	12/4/2028	\$46.40	\$9.90	\$9.25	\$8.32	\$0.00	\$73.87
For apprentice rates see "Apprentice- LABORER"							
LABORER: TREE REMOVER	6/2/2025	\$36.75	\$9.90	\$9.25	\$8.32	\$0.00	\$64.22
LABORERS	12/1/2025	\$38.00	\$9.90	\$9.25	\$8.32	\$0.00	\$65.47
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.30	\$9.90	\$9.25	\$8.32	\$0.00	\$66.77
	12/7/2026	\$40.60	\$9.90	\$9.25	\$8.32	\$0.00	\$68.07
	6/7/2027	\$42.00	\$9.90	\$9.25	\$8.32	\$0.00	\$69.47
	12/6/2027	\$43.40	\$9.90	\$9.25	\$8.32	\$0.00	\$70.87
	6/5/2028	\$44.90	\$9.90	\$9.25	\$8.32	\$0.00	\$72.37
	12/4/2028	\$46.40	\$9.90	\$9.25	\$8.32	\$0.00	\$73.87
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	6/2/2025	\$36.50	\$9.90	\$9.25	\$8.32	\$0.00	\$63.97
LABORERS	12/1/2025	\$37.75	\$9.90	\$9.25	\$8.32	\$0.00	\$65.22
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.05	\$9.90	\$9.25	\$8.32	\$0.00	\$66.52
	12/7/2026	\$40.35	\$9.90	\$9.25	\$8.32	\$0.00	\$67.82
	6/7/2027	\$41.75	\$9.90	\$9.25	\$8.32	\$0.00	\$69.22
	12/6/2027	\$43.15	\$9.90	\$9.25	\$8.32	\$0.00	\$70.62
	6/5/2028	\$44.65	\$9.90	\$9.25	\$8.32	\$0.00	\$72.12
	12/4/2028	\$46.15	\$9.90	\$9.25	\$8.32	\$0.00	\$73.62
For apprentice rates see "Apprentice- LABORER"							
LASER BEAM OPERATOR (HEAVY & HIGHWAY)	6/1/2025	\$36.50	\$9.90	\$9.25	\$6.31	\$0.00	\$61.96

**Construction**

<b>Classification</b>	<b>Effective Date</b>	<b>Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
LABORERS	12/1/2025	\$37.74	\$9.90	\$9.25	\$6.31	\$0.00	\$63.20
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	\$39.04	\$9.90	\$9.25	\$6.31	\$0.00	\$64.50
	12/1/2026	\$40.33	\$9.90	\$9.25	\$6.31	\$0.00	\$65.79

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

MARBLE & TILE FINISHERS	2/1/2025	\$43.84	\$11.49	\$15.10	\$5.68	\$0.00	\$76.11
BRICKLAYERS LOCAL 3	8/1/2025	\$44.75	\$11.49	\$15.10	\$5.68	\$0.00	\$77.02
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	2/1/2026	\$45.83	\$11.49	\$15.10	\$5.68	\$0.00	\$78.10
	8/1/2026	\$47.59	\$11.49	\$15.10	\$5.68	\$0.00	\$79.86
	2/1/2027	\$48.71	\$11.49	\$15.10	\$5.68	\$0.00	\$80.98

**Apprentice: MARBLE & TILE FINISHERS****Effective Date: 2/1/2025**

<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
1	50.00	\$21.92	\$11.49	\$15.10	\$5.68	\$0.00	\$54.19
2	60.00	\$26.30	\$11.49	\$15.10	\$5.68	\$0.00	\$58.57
3	70.00	\$30.69	\$11.49	\$15.10	\$5.68	\$0.00	\$62.96
4	80.00	\$35.07	\$11.49	\$15.10	\$5.68	\$0.00	\$67.34
5	90.00	\$39.46	\$11.49	\$15.10	\$5.68	\$0.00	\$71.73

**Apprentice: MARBLE & TILE FINISHERS****Effective Date: 8/1/2025**

<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
1	50.00	\$22.38	\$11.49	\$15.10	\$5.68	\$0.00	\$54.65
2	60.00	\$26.85	\$11.49	\$15.10	\$5.68	\$0.00	\$59.12
3	70.00	\$31.33	\$11.49	\$15.10	\$5.68	\$0.00	\$63.60
4	80.00	\$35.80	\$11.49	\$15.10	\$5.68	\$0.00	\$68.07
5	90.00	\$40.28	\$11.49	\$15.10	\$5.68	\$0.00	\$72.55

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)	1/6/2025	\$43.48	\$10.08	\$11.47	\$9.75	\$0.00	\$74.78
MILLWRIGHTS LOCAL 1121	1/5/2026	\$45.76	\$10.08	\$11.47	\$9.75	\$0.00	\$77.06
MILLWRIGHTS LOCAL 1121 - Zone 3							

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
<b>Apprentice: MILLWRIGHT (Zone 3)</b> <b>Effective Date: 1/6/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	55.00	\$23.91	\$10.08	\$0.00	\$5.36	\$0.00	\$39.35
2	65.00	\$28.26	\$10.08	\$0.00	\$6.34	\$0.00	\$44.68
3	75.00	\$32.61	\$10.08	\$11.47	\$7.31	\$0.00	\$61.47
4	85.00	\$36.96	\$10.08	\$11.47	\$8.29	\$0.00	\$66.80
<b>Apprentice: MILLWRIGHT (Zone 3)</b> <b>Effective Date: 1/5/2026</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	55.00	\$25.17	\$10.08	\$0.00	\$5.36	\$0.00	\$40.61
2	65.00	\$29.74	\$10.08	\$0.00	\$6.34	\$0.00	\$46.16
3	75.00	\$34.32	\$10.08	\$11.47	\$7.31	\$0.00	\$63.18
4	85.00	\$38.90	\$10.08	\$11.47	\$8.29	\$0.00	\$68.74
MORTAR MIXER	6/2/2025	\$36.50	\$9.90	\$9.25	\$8.32	\$0.00	\$63.97
LABORERS	12/1/2025	\$37.75	\$9.90	\$9.25	\$8.32	\$0.00	\$65.22
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.05	\$9.90	\$9.25	\$8.32	\$0.00	\$66.52
	12/7/2026	\$40.35	\$9.90	\$9.25	\$8.32	\$0.00	\$67.82
	6/7/2027	\$41.75	\$9.90	\$9.25	\$8.32	\$0.00	\$69.22
	12/6/2027	\$43.15	\$9.90	\$9.25	\$8.32	\$0.00	\$70.62
	6/5/2028	\$44.65	\$9.90	\$9.25	\$8.32	\$0.00	\$72.12
	12/4/2028	\$46.15	\$9.90	\$9.25	\$8.32	\$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"							
OTHER POWER DRIVEN EQUIPMENT - CLASS VI	12/1/2023	\$32.74	\$13.78	\$12.15	\$3.00	\$0.00	\$61.67
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
PAINTER (BRIDGES/TANKS)	1/1/2025	\$58.46	\$9.95	\$11.85	\$12.10	\$0.00	\$92.36
PAINTERS LOCAL 35							
PAINTERS LOCAL 35 - ZONE 3							

**Apprentice: PAINTER (BRIDGES/TANKS)****Effective Date: 1/1/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
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**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
<b>Apprentice: PAINTER (BRIDGES/TANKS)</b>							
<b>Effective Date: 1/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$29.23	\$9.95	\$0.00	\$0.00	\$0.00	\$39.18
2	55.00	\$32.15	\$9.95	\$0.00	\$6.66	\$0.00	\$48.76
3	60.00	\$35.08	\$9.95	\$0.00	\$7.26	\$0.00	\$52.29
4	65.00	\$38.00	\$9.95	\$0.00	\$7.87	\$0.00	\$55.82
5	70.00	\$40.92	\$9.95	\$11.85	\$8.47	\$0.00	\$71.19
6	75.00	\$43.85	\$9.95	\$11.85	\$9.08	\$0.00	\$74.73
7	80.00	\$46.77	\$9.95	\$11.85	\$9.68	\$0.00	\$78.25
8	90.00	\$52.61	\$9.95	\$11.85	\$10.89	\$0.00	\$85.30

PAINTER (SPRAY OR SANDBLAST, NEW) \* 1/1/2025 \$41.23 \$9.65 \$11.85 \$8.05 \$0.00 \$70.78

\* 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

<b>Apprentice: PAINTER (SPRAY OR SANDBLAST, NEW) *</b>							
<b>Effective Date: 1/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$20.62	\$9.95	\$0.00	\$0.00	\$0.00	\$30.57
2	55.00	\$22.68	\$9.95	\$0.00	\$4.43	\$0.00	\$37.06
3	60.00	\$24.74	\$9.95	\$0.00	\$4.83	\$0.00	\$39.52
4	65.00	\$26.80	\$9.95	\$0.00	\$5.23	\$0.00	\$41.98
5	70.00	\$28.86	\$9.95	\$11.85	\$5.64	\$0.00	\$56.30
6	75.00	\$30.92	\$9.95	\$11.85	\$6.04	\$0.00	\$58.76
7	80.00	\$32.98	\$9.95	\$11.85	\$6.44	\$0.00	\$61.22
8	90.00	\$37.11	\$9.95	\$11.85	\$7.25	\$0.00	\$66.16

PAINTER (SPRAY OR SANDBLAST, REPAINT) 1/1/2025 \$38.55 \$9.95 \$11.85 \$8.05 \$0.00 \$68.40

PAINTERS LOCAL 35

PAINTERS LOCAL 35 - ZONE 3

<b>Apprentice: PAINTER (SPRAY OR SANDBLAST, REPAINT)</b>							
<b>Effective Date: 1/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$19.28	\$9.95	\$0.00	\$0.00	\$0.00	\$29.23
2	55.00	\$21.20	\$9.95	\$0.00	\$4.43	\$0.00	\$35.58
3	60.00	\$23.13	\$9.95	\$0.00	\$4.83	\$0.00	\$37.91
4	65.00	\$25.06	\$9.95	\$0.00	\$5.23	\$0.00	\$40.24
5	70.00	\$26.99	\$9.95	\$11.85	\$5.64	\$0.00	\$54.43
6	75.00	\$28.91	\$9.95	\$11.85	\$6.04	\$0.00	\$56.75
7	80.00	\$30.84	\$9.95	\$11.85	\$6.44	\$0.00	\$59.08

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
<b>Apprentice: PAINTER (SPRAY OR SANDBLAST, REPAINT)</b> <b>Effective Date: 1/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
8	90.00	\$34.70	\$9.95	\$11.85	\$7.25	\$0.00	\$63.75
<hr/>							
PAINTER / TAPER (BRUSH, NEW) *	1/1/2025	\$39.83	\$9.95	\$11.85	\$8.05	\$0.00	\$69.68
* 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							
<b>Apprentice: PAINTER / TAPER (BRUSH, NEW) *</b> <b>Effective Date: 1/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$19.92	\$9.95	\$0.00	\$0.00	\$0.00	\$29.87
2	55.00	\$21.91	\$9.95	\$0.00	\$4.43	\$0.00	\$36.29
3	60.00	\$23.90	\$9.95	\$0.00	\$4.83	\$0.00	\$38.68
4	65.00	\$25.89	\$9.95	\$0.00	\$5.23	\$0.00	\$41.07
5	70.00	\$27.88	\$9.95	\$11.85	\$5.64	\$0.00	\$55.32
6	75.00	\$29.87	\$9.95	\$11.85	\$6.04	\$0.00	\$57.71
7	80.00	\$31.86	\$9.95	\$11.85	\$6.44	\$0.00	\$60.10
8	90.00	\$35.85	\$9.95	\$11.85	\$7.25	\$0.00	\$64.90
<hr/>							
PAINTER / TAPER (BRUSH, REPAINT)	1/1/2025	\$37.15	\$9.95	\$11.85	\$8.05	\$0.00	\$67.00
PAINTERS LOCAL 35							
PAINTERS LOCAL 35 - ZONE 3							
<b>Apprentice: PAINTER / TAPER (BRUSH, REPAINT)</b> <b>Effective Date: 1/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$18.58	\$9.95	\$0.00	\$0.00	\$0.00	\$28.53
2	55.00	\$20.43	\$9.95	\$0.00	\$4.43	\$0.00	\$34.81
3	60.00	\$22.29	\$9.95	\$0.00	\$4.83	\$0.00	\$37.07
4	65.00	\$24.15	\$9.95	\$0.00	\$5.23	\$0.00	\$39.33
5	70.00	\$26.01	\$9.95	\$11.85	\$5.64	\$0.00	\$53.45
6	75.00	\$27.86	\$9.95	\$11.85	\$6.04	\$0.00	\$55.70
7	80.00	\$29.72	\$9.95	\$11.85	\$6.44	\$0.00	\$57.96
8	90.00	\$33.44	\$9.95	\$11.85	\$7.25	\$0.00	\$62.49
<hr/>							
PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY)	6/1/2025	\$36.25	\$9.90	\$9.25	\$6.31	\$0.00	\$61.71
LABORERS	12/1/2025	\$37.49	\$9.90	\$9.25	\$6.31	\$0.00	\$62.95
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	\$38.79	\$9.90	\$9.25	\$6.31	\$0.00	\$64.25
	12/1/2026	\$40.08	\$9.90	\$9.25	\$6.31	\$0.00	\$65.54

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

**Construction**

<b>Classification</b>	<b>Effective Date</b>	<b>Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>																																								
PANEL & PICKUP TRUCKS DRIVER	6/1/2025	\$40.78	\$15.57	\$20.17	\$0.00	\$0.00	\$76.52																																								
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2025	\$40.78	\$15.57	\$21.78	\$0.00	\$0.00	\$78.13																																								
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2026	\$40.78	\$16.17	\$21.78	\$0.00	\$0.00	\$78.73																																								
	6/1/2026	\$41.78	\$16.17	\$21.78	\$0.00	\$0.00	\$79.73																																								
	12/1/2026	\$41.78	\$16.17	\$23.52	\$0.00	\$0.00	\$81.47																																								
	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)																																															
<b>Apprentice: PILE DRIVER</b> <b>Effective Date: 8/1/2024</b> <table> <tr> <th><b>Step</b></th><th><b>Percent</b></th><th><b>Apprentice Base Wage</b></th><th><b>Health</b></th><th><b>Pension</b></th><th><b>Annuity</b></th><th><b>Supplemental Unemployment</b></th><th><b>Total Rate</b></th></tr> <tr> <td>1</td><td>45.00</td><td>\$22.14</td><td>\$10.08</td><td>\$0.00</td><td>\$2.53</td><td>\$0.00</td><td>\$34.75</td></tr> <tr> <td>2</td><td>55.00</td><td>\$27.05</td><td>\$10.08</td><td>\$0.00</td><td>\$5.07</td><td>\$0.00</td><td>\$42.20</td></tr> <tr> <td>3</td><td>70.00</td><td>\$34.43</td><td>\$10.08</td><td>\$11.62</td><td>\$7.60</td><td>\$0.00</td><td>\$63.73</td></tr> <tr> <td>4</td><td>80.00</td><td>\$39.35</td><td>\$10.08</td><td>\$11.62</td><td>\$10.14</td><td>\$0.00</td><td>\$71.19</td></tr> </table>								<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>	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
<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>																																								
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																																								
PIPELAYER	6/2/2025	\$36.50	\$9.90	\$9.25	\$8.32	\$0.00	\$63.97																																								
LABORERS	12/1/2025	\$37.75	\$9.90	\$9.25	\$8.32	\$0.00	\$65.22																																								
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.05	\$9.90	\$9.25	\$8.32	\$0.00	\$66.52																																								
	12/7/2026	\$40.35	\$9.90	\$9.25	\$8.32	\$0.00	\$67.82																																								
	6/7/2027	\$41.75	\$9.90	\$9.25	\$8.32	\$0.00	\$69.22																																								
	12/6/2027	\$43.15	\$9.90	\$9.25	\$8.32	\$0.00	\$70.62																																								
	6/5/2028	\$44.65	\$9.90	\$9.25	\$8.32	\$0.00	\$72.12																																								
	12/4/2028	\$46.15	\$9.90	\$9.25	\$8.32	\$0.00	\$73.62																																								
For apprentice rates see "Apprentice- LABORER"																																															
PIPELAYER (HEAVY & HIGHWAY)	6/1/2025	\$36.50	\$9.90	\$9.25	\$6.31	\$0.00	\$61.96																																								
LABORERS	12/1/2025	\$37.74	\$9.90	\$9.25	\$6.31	\$0.00	\$63.20																																								
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	\$39.04	\$9.90	\$9.25	\$6.31	\$0.00	\$64.50																																								
	12/1/2026	\$40.33	\$9.90	\$9.25	\$6.31	\$0.00	\$65.79																																								
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"																																															
PLUMBER & PIPEFITTER	3/17/2024	\$49.21	\$9.55	\$10.10	\$7.00	\$0.00	\$75.86																																								
PLUMBERS & PIPEFITTERS LOCAL 104																																															
PLUMBERS & PIPEFITTERS LOCAL 104																																															

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
<b>Apprentice: PLUMBER &amp; PIPEFITTER</b> <b>Effective Date: 3/17/2024</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$22.14	\$9.55	\$10.10	\$0.00	\$0.00	\$41.79
2	50.00	\$24.61	\$9.55	\$10.10	\$0.00	\$0.00	\$44.26
3	55.00	\$27.07	\$9.55	\$10.10	\$0.00	\$0.00	\$46.72
4	60.00	\$29.53	\$9.55	\$10.10	\$0.00	\$0.00	\$49.18
5	65.00	\$31.99	\$9.55	\$10.10	\$0.00	\$0.00	\$51.64
6	70.00	\$34.45	\$9.55	\$10.10	\$0.00	\$0.00	\$54.10
7	75.00	\$36.91	\$9.55	\$10.10	\$0.00	\$0.00	\$56.56
8	80.00	\$39.37	\$9.55	\$10.10	\$0.00	\$0.00	\$59.02
9	80.00	\$39.37	\$9.55	\$10.10	\$7.00	\$0.00	\$66.02
10	80.00	\$39.37	\$9.55	\$10.10	\$7.00	\$0.00	\$66.02
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PNEUMATIC CONTROLS (TEMP.)	3/17/2024	\$49.21	\$9.55	\$10.10	\$7.00	\$0.00	\$75.86
PLUMBERS & PIPEFITTERS LOCAL 104							
PLUMBERS & PIPEFITTERS LOCAL 104							
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
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PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY)	6/1/2025	\$36.50	\$9.90	\$9.25	\$6.31	\$0.00	\$61.96
LABORERS	12/1/2025	\$37.74	\$9.90	\$9.25	\$6.31	\$0.00	\$63.20
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	\$39.04	\$9.90	\$9.25	\$6.31	\$0.00	\$64.50
	12/1/2026	\$40.33	\$9.90	\$9.25	\$6.31	\$0.00	\$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
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POWDERMAN & BLASTER	6/2/2025	\$37.25	\$9.90	\$9.25	\$8.32	\$0.00	\$64.72
LABORERS	12/1/2025	\$38.50	\$9.90	\$9.25	\$8.32	\$0.00	\$65.97
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.80	\$9.90	\$9.25	\$8.32	\$0.00	\$67.27
	12/7/2026	\$41.10	\$9.90	\$9.25	\$8.32	\$0.00	\$68.57
	6/7/2027	\$42.50	\$9.90	\$9.25	\$8.32	\$0.00	\$69.97
	12/6/2027	\$43.90	\$9.90	\$9.25	\$8.32	\$0.00	\$71.37
	6/5/2028	\$45.40	\$9.90	\$9.25	\$8.32	\$0.00	\$72.87
	12/4/2028	\$46.90	\$9.90	\$9.25	\$8.32	\$0.00	\$74.37
For apprentice rates see "Apprentice- LABORER"							
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POWDERMAN & BLASTER (HEAVY & HIGHWAY)	6/1/2025	\$38.00	\$9.65	\$9.00	\$6.06	\$0.00	\$62.71
LABORERS	12/1/2025	\$39.24	\$9.65	\$9.00	\$6.06	\$0.00	\$63.95
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	6/1/2026	\$40.54	\$9.65	\$9.00	\$6.06	\$0.00	\$65.25
	12/1/2026	\$41.83	\$9.65	\$9.00	\$6.06	\$0.00	\$66.54
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
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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"							
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PUMP OPERATOR (DEWATERING, OTHER)	12/1/2023	\$39.03	\$13.78	\$12.15	\$3.00	\$0.00	\$67.96
OPERATING ENGINEERS LOCAL 98							

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
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	6/2/2025	\$36.50	\$9.90	\$9.25	\$8.32	\$0.00	\$63.97
LABORERS	12/1/2025	\$37.75	\$9.90	\$9.25	\$8.32	\$0.00	\$65.22
LABORERS - ZONE 3 (BUILDING & SITE)	6/1/2026	\$39.05	\$9.90	\$9.25	\$8.32	\$0.00	\$66.52
	12/7/2026	\$40.35	\$9.90	\$9.25	\$8.32	\$0.00	\$67.82
	6/7/2027	\$41.75	\$9.90	\$9.25	\$8.32	\$0.00	\$69.22
	12/6/2027	\$43.15	\$9.90	\$9.25	\$8.32	\$0.00	\$70.62
	6/5/2028	\$44.65	\$9.90	\$9.25	\$8.32	\$0.00	\$72.12
	12/4/2028	\$46.15	\$9.90	\$9.25	\$8.32	\$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"							
ROOFER (Coal tar pitch)	10/2/2024	\$42.38	\$10.35	\$8.70	\$9.30	\$0.00	\$70.73
ROOFERS LOCAL 248	7/16/2025	\$43.88	\$10.35	\$8.70	\$9.30	\$0.00	\$72.23
ROOFERS LOCAL 248	10/2/2025	\$44.88	\$10.35	\$8.70	\$9.30	\$0.00	\$73.23
	7/16/2026	\$46.88	\$10.35	\$8.70	\$9.30	\$0.00	\$75.23
For apprentice rates see "Apprentice- ROOFER"							
ROOFER (Inc.Roofers Waterproofing &Roofers Damproofg)	10/2/2024	\$41.88	\$10.35	\$8.70	\$9.30	\$0.00	\$70.23
ROOFERS LOCAL 248	7/16/2025	\$43.38	\$10.35	\$8.70	\$9.30	\$0.00	\$71.73
ROOFERS LOCAL 248	10/2/2025	\$44.38	\$10.35	\$8.70	\$9.30	\$0.00	\$72.73
	7/16/2026	\$46.38	\$10.35	\$8.70	\$9.30	\$0.00	\$74.73

**Apprentice: ROOFER (Inc.Roofers Waterproofing &Roofers Damproofg)**

**Effective Date: 10/2/2024**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$25.13	\$10.35	\$0.00	\$0.00	\$0.00	\$35.48
2	65.00	\$27.22	\$10.35	\$8.70	\$9.30	\$0.00	\$55.57
3	70.00	\$29.32	\$10.35	\$8.70	\$9.30	\$0.00	\$57.67
4	75.00	\$31.41	\$10.35	\$8.70	\$9.30	\$0.00	\$59.76
5	80.00	\$33.50	\$10.35	\$8.70	\$9.30	\$0.00	\$61.85
6	85.00	\$35.60	\$10.35	\$8.70	\$9.30	\$0.00	\$63.95
7	90.00	\$37.69	\$10.35	\$8.70	\$9.30	\$0.00	\$66.04
8	95.00	\$39.79	\$10.35	\$8.70	\$9.30	\$0.00	\$68.14

ROOFER SLATE / TILE / PRECAST CONCRETE	10/2/2024	\$42.38	\$10.35	\$8.70	\$9.30	\$0.00	\$70.73
ROOFERS LOCAL 248	7/16/2025	\$43.88	\$10.35	\$8.70	\$9.30	\$0.00	\$72.23
ROOFERS LOCAL 248	10/2/2025	\$44.88	\$10.35	\$8.70	\$9.30	\$0.00	\$73.23



**Construction**

<b>Classification</b>	<b>Effective Date</b>	<b>Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
	7/16/2026	\$46.88	\$10.35	\$8.70	\$9.30	\$0.00	\$75.23
For apprentice rates see "Apprentice- ROOFER"							
SCRAPER	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"							
SELF-POWERED ROLLERS AND COMPACTORS (TAMPERS)	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"							
SELF-PROPELLED POWER BROOM	12/1/2023	\$35.80	\$13.78	\$12.15	\$3.00	\$0.00	\$64.73
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
SHEETMETAL WORKER	1/1/2025	\$42.23	\$12.20	\$10.79	\$7.95	\$2.13	\$75.30
SHEETMETAL WORKERS LOCAL 63							
SHEETMETAL WORKERS LOCAL 63							

**Apprentice: SHEETMETAL WORKER****Effective Date: 1/1/2025**

<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
1	45.00	\$19.00	\$5.49	\$4.86	\$0.00	\$0.85	\$30.20
2	50.00	\$21.12	\$6.10	\$5.40	\$0.00	\$0.94	\$33.56
3	55.00	\$23.23	\$6.71	\$9.71	\$0.00	\$1.15	\$40.80
4	60.00	\$25.34	\$7.32	\$9.71	\$0.00	\$1.23	\$43.60
5	65.00	\$27.45	\$7.93	\$9.71	\$0.00	\$1.31	\$46.40
6	70.00	\$29.56	\$8.54	\$9.71	\$0.00	\$1.39	\$49.20
7	75.00	\$31.67	\$9.15	\$9.71	\$0.00	\$1.47	\$52.00
8	80.00	\$33.78	\$9.76	\$9.71	\$7.95	\$1.78	\$62.98
9	85.00	\$35.90	\$10.37	\$9.71	\$7.95	\$1.86	\$65.79
10	90.00	\$38.01	\$10.98	\$9.71	\$7.95	\$1.94	\$68.59

SPECIALIZED EARTH MOVING EQUIP < 35 TONS	6/1/2025	\$41.24	\$15.57	\$20.17	\$0.00	\$0.00	\$76.98
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2025	\$41.24	\$15.57	\$21.78	\$0.00	\$0.00	\$78.59
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2026	\$41.24	\$16.17	\$21.78	\$0.00	\$0.00	\$79.19
	6/1/2026	\$42.24	\$16.17	\$21.78	\$0.00	\$0.00	\$80.19
	12/1/2026	\$42.24	\$16.17	\$23.52	\$0.00	\$0.00	\$81.93
	1/1/2027	\$42.24	\$16.77	\$23.52	\$0.00	\$0.00	\$82.53
SPECIALIZED EARTH MOVING EQUIP > 35 TONS	6/1/2025	\$41.53	\$15.57	\$20.17	\$0.00	\$0.00	\$77.27
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2025	\$41.53	\$15.57	\$21.78	\$0.00	\$0.00	\$78.88
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2026	\$41.53	\$16.17	\$21.78	\$0.00	\$0.00	\$79.48
	6/1/2026	\$42.53	\$16.17	\$21.78	\$0.00	\$0.00	\$80.48
	12/1/2026	\$42.53	\$16.17	\$23.52	\$0.00	\$0.00	\$82.22
	1/1/2027	\$42.53	\$16.77	\$23.52	\$0.00	\$0.00	\$82.82

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
SPRINKLER FITTER	4/1/2023	\$47.43	\$11.45	\$7.20	\$9.41	\$0.00	\$75.49
SPRINKLER FITTERS LOCAL 669							
SPRINKLER FITTERS LOCAL 669							

**Apprentice: SPRINKLER FITTER****Effective Date: 4/1/2023**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$21.34	\$8.22	\$0.00	\$0.00	\$0.00	\$29.56
2	50.00	\$23.72	\$8.22	\$0.00	\$0.00	\$0.00	\$31.94
3	55.00	\$26.09	\$11.45	\$7.20	\$0.00	\$0.00	\$44.74
4	60.00	\$28.46	\$11.45	\$7.20	\$1.15	\$0.00	\$48.26
5	65.00	\$30.83	\$11.45	\$7.20	\$1.15	\$0.00	\$50.63
6	70.00	\$33.20	\$11.45	\$7.20	\$1.40	\$0.00	\$53.25
7	75.00	\$35.57	\$11.45	\$7.20	\$1.40	\$0.00	\$55.62
8	80.00	\$37.94	\$11.45	\$7.20	\$1.40	\$0.00	\$57.99
9	85.00	\$40.32	\$11.45	\$7.20	\$1.40	\$0.00	\$60.37
10	90.00	\$42.69	\$11.45	\$7.20	\$1.40	\$0.00	\$62.74

TELECOMMUNICATION TECHNICIAN	6/29/2025	\$52.16	\$13.50	\$8.31	\$6.90	\$0.00	\$80.87
ELECTRICIANS LOCAL 7	12/28/2025	\$53.26	\$13.75	\$8.40	\$6.96	\$0.00	\$82.37
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

**Apprentice: TELECOMMUNICATION TECHNICIAN****Effective Date: 6/29/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	\$20.86	\$7.50	\$0.63	\$0.00	\$0.00	\$28.99
2	45.00	\$23.47	\$7.50	\$0.70	\$0.00	\$0.00	\$31.67
3	50.00	\$26.08	\$13.50	\$7.53	\$0.00	\$0.00	\$47.11
4	55.00	\$28.69	\$13.50	\$7.61	\$0.00	\$0.00	\$49.80
5	65.00	\$33.90	\$13.50	\$9.84	\$0.00	\$0.00	\$57.24
6	70.00	\$36.51	\$13.50	\$11.30	\$0.00	\$0.00	\$61.31

**Apprentice: TELECOMMUNICATION TECHNICIAN****Effective Date: 12/28/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	40.00	\$21.30	\$7.65	\$0.63	\$0.00	\$0.00	\$29.58
2	40.00	\$23.97	\$7.65	\$0.70	\$0.00	\$0.00	\$32.32
3	26.63	\$26.63	\$13.75	\$7.53	\$0.00	\$0.00	\$47.91
4	55.00	\$29.29	\$13.75	\$7.61	\$0.00	\$0.00	\$50.65
5	65.00	\$34.62	\$13.75	\$9.84	\$0.00	\$0.00	\$58.21
6	70.00	\$37.28	\$13.75	\$11.30	\$0.00	\$0.00	\$62.33

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
TERRAZZO FINISHERS	2/1/2025	\$64.74	\$11.49	\$15.57	\$8.02	\$0.00	\$99.82
BRICKLAYERS LOCAL 3	8/1/2025	\$66.89	\$11.49	\$15.57	\$8.02	\$0.00	\$101.97
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	2/10/2026	\$68.24	\$11.49	\$15.57	\$8.02	\$0.00	\$103.32
	8/1/2026	\$70.44	\$11.49	\$15.57	\$8.02	\$0.00	\$105.52
	2/1/2027	\$71.84	\$11.49	\$15.57	\$8.02	\$0.00	\$106.92

**Apprentice: TERRAZZO FINISHERS****Effective Date: 2/1/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$32.37	\$11.49	\$15.57	\$8.02	\$0.00	\$67.45
2	60.00	\$38.84	\$11.49	\$15.57	\$8.02	\$0.00	\$73.92
3	70.00	\$45.32	\$11.49	\$15.57	\$8.02	\$0.00	\$80.40
4	80.00	\$51.79	\$11.49	\$15.57	\$8.02	\$0.00	\$86.87
5	90.00	\$58.27	\$11.49	\$15.57	\$8.02	\$0.00	\$93.35

**Apprentice: TERRAZZO FINISHERS****Effective Date: 8/1/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$33.45	\$11.49	\$15.57	\$8.02	\$0.00	\$68.53
2	60.00	\$40.13	\$11.49	\$15.57	\$8.02	\$0.00	\$75.21
3	70.00	\$46.82	\$11.49	\$15.57	\$8.02	\$0.00	\$81.90
4	80.00	\$53.51	\$11.49	\$15.57	\$8.02	\$0.00	\$88.59
5	90.00	\$60.20	\$11.49	\$15.57	\$8.02	\$0.00	\$95.28

TERRAZZO MECHANIC	2/1/2025	\$65.82	\$11.49	\$15.57	\$7.99	\$0.00	\$100.87
BRICKLAYERS LOCAL 3	8/1/2025	\$67.97	\$11.49	\$15.57	\$7.99	\$0.00	\$103.02
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	2/1/2026	\$69.32	\$11.49	\$15.57	\$7.99	\$0.00	\$104.37
	8/1/2026	\$71.52	\$11.49	\$15.57	\$7.99	\$0.00	\$106.57
	2/1/2027	\$72.92	\$11.49	\$15.57	\$7.99	\$0.00	\$107.97

**Apprentice: TERRAZZO MECHANIC****Effective Date: 2/1/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$32.91	\$11.49	\$15.57	\$7.99	\$0.00	\$67.96
2	60.00	\$39.49	\$11.49	\$15.57	\$7.99	\$0.00	\$74.54
3	70.00	\$46.07	\$11.49	\$15.57	\$7.99	\$0.00	\$81.12
4	80.00	\$52.66	\$11.49	\$15.57	\$7.99	\$0.00	\$87.71
5	90.00	\$59.24	\$11.49	\$15.57	\$7.99	\$0.00	\$94.29

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
<b>Apprentice: TERRAZZO MECHANIC</b> <b>Effective Date: 8/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$33.99	\$11.49	\$15.57	\$7.99	\$0.00	\$69.04
2	60.00	\$40.78	\$11.49	\$15.57	\$7.99	\$0.00	\$75.83
3	70.00	\$47.58	\$11.49	\$15.57	\$7.99	\$0.00	\$82.63
4	80.00	\$54.38	\$11.49	\$15.57	\$7.99	\$0.00	\$89.43
5	90.00	\$61.17	\$11.49	\$15.57	\$7.99	\$0.00	\$96.22
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TEST BORING DRILLER	6/1/2025	\$51.70	\$9.90	\$9.25	\$9.80	\$0.00	\$80.65
LABORERS	12/1/2025	\$53.20	\$9.90	\$9.25	\$9.80	\$0.00	\$82.15
LABORERS - FOUNDATION AND MARINE	6/1/2026	\$54.75	\$9.90	\$9.25	\$9.80	\$0.00	\$83.70
	12/1/2026	\$56.25	\$9.90	\$9.25	\$9.80	\$0.00	\$85.20
For apprentice rates see "Apprentice- LABORER"							
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TEST BORING DRILLER HELPER	6/1/2025	\$47.82	\$9.90	\$9.25	\$9.80	\$0.00	\$76.77
LABORERS	12/1/2025	\$49.32	\$9.90	\$9.25	\$9.80	\$0.00	\$78.27
LABORERS - FOUNDATION AND MARINE	6/1/2026	\$50.87	\$9.90	\$9.25	\$9.80	\$0.00	\$79.82
	12/1/2026	\$52.37	\$9.90	\$9.25	\$9.80	\$0.00	\$81.32
For apprentice rates see "Apprentice- LABORER"							
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TEST BORING LABORER	6/1/2025	\$47.70	\$9.90	\$9.25	\$9.80	\$0.00	\$76.65
LABORERS	12/1/2025	\$49.20	\$9.90	\$9.25	\$9.80	\$0.00	\$78.15
LABORERS - FOUNDATION AND MARINE	6/1/2026	\$50.75	\$9.90	\$9.25	\$9.80	\$0.00	\$79.70
	12/1/2026	\$52.25	\$9.90	\$9.25	\$9.80	\$0.00	\$81.20
For apprentice rates see "Apprentice- LABORER"							
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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"							
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TRAILERS FOR EARTH MOVING EQUIPMENT	6/1/2025	\$41.82	\$15.57	\$20.17	\$0.00	\$0.00	\$77.56
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2025	\$41.82	\$15.57	\$21.78	\$0.00	\$0.00	\$79.17
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2026	\$41.82	\$16.17	\$21.78	\$0.00	\$0.00	\$79.77
	6/1/2026	\$42.82	\$16.17	\$21.78	\$0.00	\$0.00	\$80.77
	12/1/2026	\$42.82	\$16.17	\$23.52	\$0.00	\$0.00	\$82.51
	1/1/2027	\$42.82	\$16.77	\$23.52	\$0.00	\$0.00	\$83.11
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TUNNEL WORK - COMPRESSED AIR	6/1/2025	\$59.93	\$9.90	\$9.25	\$10.25	\$0.00	\$89.33
LABORERS	12/1/2025	\$61.43	\$9.90	\$9.25	\$10.25	\$0.00	\$90.83
LABORERS (COMPRESSED AIR)	6/1/2026	\$62.98	\$9.90	\$9.25	\$10.25	\$0.00	\$92.38
	12/1/2026	\$64.48	\$9.90	\$9.25	\$10.25	\$0.00	\$93.88
For apprentice rates see "Apprentice- LABORER"							
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TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE)	6/1/2025	\$61.93	\$9.90	\$9.25	\$10.25	\$0.00	\$91.33
LABORERS	12/1/2025	\$63.43	\$9.90	\$9.25	\$10.25	\$0.00	\$92.83

**Construction**

<b>Classification</b>	<b>Effective Date</b>	<b>Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
LABORERS (COMPRESSED AIR)	6/1/2026	\$64.98	\$9.90	\$9.25	\$10.25	\$0.00	\$94.38
	12/1/2026	\$66.48	\$9.90	\$9.25	\$10.25	\$0.00	\$95.88
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - FREE AIR LABORERS	6/1/2025	\$52.00	\$9.90	\$9.25	\$10.25	\$0.00	\$81.40
LABORERS (FREE AIR TUNNEL)	12/1/2025	\$53.50	\$9.90	\$9.25	\$10.25	\$0.00	\$82.90
	6/1/2026	\$55.05	\$9.90	\$9.25	\$10.25	\$0.00	\$84.45
	12/1/2026	\$56.55	\$9.90	\$9.25	\$10.25	\$0.00	\$85.95
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - FREE AIR (HAZ. WASTE) LABORERS	6/1/2025	\$54.00	\$9.90	\$9.25	\$10.25	\$0.00	\$83.40
LABORERS (FREE AIR TUNNEL)	12/1/2025	\$55.50	\$9.90	\$9.25	\$10.25	\$0.00	\$84.90
	6/1/2026	\$57.05	\$9.90	\$9.25	\$10.25	\$0.00	\$86.45
	12/1/2026	\$58.55	\$9.90	\$9.25	\$10.25	\$0.00	\$87.95
For apprentice rates see "Apprentice- LABORER"							
VAC-HAUL	6/1/2025	\$41.24	\$15.57	\$20.17	\$0.00	\$0.00	\$76.98
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2025	\$41.24	\$15.57	\$21.78	\$0.00	\$0.00	\$78.59
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2026	\$41.24	\$16.17	\$21.78	\$0.00	\$0.00	\$79.19
	6/1/2026	\$42.24	\$16.17	\$21.78	\$0.00	\$0.00	\$80.19
	12/1/2026	\$42.24	\$16.17	\$23.52	\$0.00	\$0.00	\$81.93
	1/1/2027	\$42.24	\$16.77	\$23.52	\$0.00	\$0.00	\$82.53
WAGON DRILL OPERATOR LABORERS	6/2/2025	\$36.50	\$9.90	\$9.25	\$8.32	\$0.00	\$63.97
LABORERS - ZONE 3 (BUILDING & SITE)	12/1/2025	\$37.75	\$9.90	\$9.25	\$8.32	\$0.00	\$65.22
	6/1/2026	\$39.05	\$9.90	\$9.25	\$8.32	\$0.00	\$66.52
	12/7/2026	\$40.35	\$9.90	\$9.25	\$8.32	\$0.00	\$67.82
	6/7/2027	\$41.75	\$9.90	\$9.25	\$8.32	\$0.00	\$69.22
	12/6/2027	\$43.15	\$9.90	\$9.25	\$8.32	\$0.00	\$70.62
	6/5/2028	\$44.65	\$9.90	\$9.25	\$8.32	\$0.00	\$72.12
	12/4/2028	\$46.15	\$9.90	\$9.25	\$8.32	\$0.00	\$73.62
For apprentice rates see "Apprentice- LABORER"							
WAGON DRILL OPERATOR (HEAVY & HIGHWAY) LABORERS	6/1/2025	\$36.50	\$9.90	\$9.25	\$6.31	\$0.00	\$61.96
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	12/1/2025	\$37.74	\$9.90	\$9.25	\$6.31	\$0.00	\$63.20
	6/1/2026	\$39.04	\$9.90	\$9.25	\$6.31	\$0.00	\$64.50
	12/1/2026	\$40.33	\$9.90	\$9.25	\$6.31	\$0.00	\$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
WATER METER INSTALLER PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2024	\$49.21	\$9.55	\$10.10	\$7.00	\$0.00	\$75.86
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"							

**Outside Electrical**

<b>Classification</b>	<b>Effective Date</b>	<b>Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
EQUIPMENT OPERATOR OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 For apprentice rates see "Apprentice- LINEMAN"	9/1/2019	\$44.67	\$8.00	\$12.55	\$0.00	\$0.00	\$65.22
GROUNDMAN OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 For apprentice rates see "Apprentice- LINEMAN"	9/1/2019	\$30.58	\$8.00	\$5.48	\$0.00	\$0.00	\$44.06
GROUNDMAN / TRUCK DRIVER OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 For apprentice rates see "Apprentice- LINEMAN"	9/1/2019	\$39.97	\$8.00	\$10.96	\$0.00	\$0.00	\$58.93
HEAVY EQUIPMENT OPERATOR OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 For apprentice rates see "Apprentice- LINEMAN"	9/1/2019	\$47.01	\$8.00	\$13.22	\$0.00	\$0.00	\$68.23
JOURNEYMAN LINEMAN OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42	9/1/2019	\$51.71	\$8.00	\$15.55	\$0.00	\$0.00	\$75.26

**Apprentice: JOURNEYMAN LINEMAN****Effective Date: 9/1/2019**

<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
1	60.00	\$31.03	\$8.00	\$3.43	\$0.00	\$0.00	\$42.46
2	65.00	\$33.61	\$8.00	\$3.51	\$0.00	\$0.00	\$45.12
3	70.00	\$36.20	\$8.00	\$3.59	\$0.00	\$0.00	\$47.79
4	75.00	\$38.78	\$8.00	\$5.16	\$0.00	\$0.00	\$51.94
5	80.00	\$41.37	\$8.00	\$5.24	\$0.00	\$0.00	\$54.61
6	85.00	\$43.95	\$8.00	\$5.32	\$0.00	\$0.00	\$57.27
7	90.00	\$46.54	\$8.00	\$7.40	\$0.00	\$0.00	\$61.94

TELEDATA CABLE SPLICER OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42	2/4/2019	\$30.73	\$4.70	\$0.92	\$2.25	\$0.00	\$38.60
TELEDATA LINEMAN/EQUIPMENT OPERATOR OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42	2/4/2019	\$28.93	\$4.70	\$0.89	\$2.25	\$0.00	\$36.77
TELEDATA WIREMAN/INSTALLER/TECHNICIAN OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42	2/4/2019	\$28.93	\$4.70	\$0.89	\$2.25	\$0.00	\$36.77
TRACTOR-TRAILER DRIVER OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42 OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42	9/1/2019	\$44.67	\$8.00	\$12.55	\$0.00	\$0.00	\$65.22

**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.

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## 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 AreasSTATE:Goals (percent)

## 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 **3**

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: MA20250019 05/16/2025

Superseded General Decision Number: MA20240019

State: Massachusetts

Construction Type: Highway

County: Hampden County in Massachusetts.

#### HIGHWAY CONSTRUCTION PROJECTS

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	<ul style="list-style-type: none"><li>. Executive Order 14026 generally applies to the contract.</li><li>. The contractor must pay all covered workers at least \$17.75 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2025.</li></ul>
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	<ul style="list-style-type: none"><li>. Executive Order 13658 generally applies to the contract.</li><li>. The contractor must pay all covered workers at least \$13.30 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2025.</li></ul>

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <http://www.dol.gov/whd/govcontracts>.

Modification Number	Publication Date
0	01/03/2025
1	04/11/2025
2	05/16/2025

ENGI0004-019 12/01/2024

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
Group 1.....	\$ 57.03	33.20
Group 2.....	\$ 56.40	33.20

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

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

Group 1: Broom/Sweeper; Crane; Gradall; Post Driver  
 (Guardrail/Fences)  
 Group 2: Bulldozer; Grader/Blade

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 \* ENGI0098-010 12/01/2024

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
Group 1.....	\$ 42.88	31.04+A
Group 2.....	\$ 42.57	31.04+A
Group 4.....	\$ 39.12	31.04+A

Footnote:

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

## POWER EQUIPMENT OPERATORS CLASSIFICATIONS

Group 1: Backhoe/Excavator/Trackhoe; Bobcat/Skid Steer/Skid Loader; Loader

Group 2: Milling Machine; Paver (Asphalt, Aggregate, and Concrete)

Group 4: Roller

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 IRON0007-027 03/16/2024

	Rates	Fringes
IRONWORKER (ORNAMENTAL AND STRUCTURAL) .....	\$ 39.51	32.98

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LABO0596-006 12/01/2021

	Rates	Fringes
LABORER (Traffic Control: Flagger) .....	\$ 24.50	23.96

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LABO0999-002 12/02/2024

	Rates	Fringes
LABORER (Common or General) .....	\$ 35.00	28.87

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PAIN0035-023 07/01/2024

	Rates	Fringes
PAINTER (Steel) .....	\$ 56.76	36.00

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SUMA2014-009 01/11/2017

	Rates	Fringes
CARPENTER, Includes Form Work....	\$ 33.03	20.02
CEMENT MASON/CONCRETE FINISHER...	\$ 52.13	20.89
ELECTRICIAN.....	\$ 47.13	13.41
IRONWORKER, REINFORCING.....	\$ 46.21	21.27
LABORER: Asphalt, Includes Raker, Shoveler, Spreader and Distributor.....	\$ 33.10	18.09

LABORER: Concrete Saw (Hand Held/Walk Behind).....	\$ 44.43	14.18
LABORER: Landscape.....	\$ 44.11	18.85
OPERATOR: Forklift.....	\$ 51.63	0.00
OPERATOR: Mechanic.....	\$ 48.14	17.02
OPERATOR: Piledriver.....	\$ 43.87	18.04
PAINTER: Spray (Linestriping)....	\$ 38.30	17.43
TRAFFIC CONTROL: Laborer-Cones/ Barricades/Barrels - Setter/Mover/Sweeper.....		
	\$ 43.73	15.06
TRUCK DRIVER: Concrete Truck....	\$ 33.69	15.79
TRUCK DRIVER: Dump Truck.....	\$ 43.81	5.39
TRUCK DRIVER: Flatbed Truck.....	\$ 48.53	0.00

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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>.



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)).

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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", "UAVG", "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.

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## 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](mailto: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](mailto: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](mailto: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"

DOCUMENT A00801

**SPECIAL PROVISIONS****LONGMEADOW-SPRINGFIELD****Federal Aid Project No. STP-0032(045)X****Resurfacing and Intersection Improvements on Longmeadow Street (Route 5)  
and Converse Street (0.84 Miles)**

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 *2025 Standard Specifications for Highways and Bridges*, the *Supplemental Specifications* contained in this book, the *Construction Standard Details* in effect as of June, 2025, the *1990 Standard Drawings for Signs and Supports*, the *2015 Overhead Signal Structure and Foundation Standard Drawings*, the *2009 Manual on Uniform Traffic Control Devices (MUTCD) with Revisions 1, 2, and 3* and the *November 2022 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 shall consist of intersection improvements at the intersections of Converse Street and Laurel Street, Converse Street and Longmeadow Street and Longmeadow Street and Forest Glen Road/Western Drive. These improvements will include new and improved turn lanes and traffic signal reconstruction. Work will also consist of improved bicycle and pedestrian accommodation, new signage and pavement markings.

**SUBSECTION 7.05 INSURANCE REQUIREMENTS****B. Public Liability Insurance**

The insurance requirements set forth in this subsection are in addition to the requirements of the Standard Specifications and supersede all other requirements.

**Paragraphs 1 and 2**

The Massachusetts Department of Transportation and applicable railroads shall be named as additional insureds.

**Paragraph 4**

Asbestos Liability Insurance shall be obtained for this Project. The Contractor and the Massachusetts Department of Transportation shall be named as additional insureds.

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**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](mailto:massdotspecifications@dot.state.ma.us) The MassDOT proposal file number and municipality is to be placed in the subject line.

**REMOVING AND STACKING OF MATERIALS**

The Contractor shall deliver all existing salvaged and other materials required to be removed and stacked, to 31 Pondsides Road, Longmeadow DPW, or other location as applicable to the Town of Longmeadow or MassDOT and as required by the Engineer. No separate payment will be made for this work, but all costs in connection therewith shall be included in the prices bid for various Contract Items. The Contractor shall coordinate with the respective town DPW Office to schedule drop-off time and location.

A steel plate, gravel borrow and 3" of hot mix asphalt shall be furnished and placed on the structures so that the existing roadway can be cold planed. The contractor is responsible for the temporary storage of the castings until they are reset.

**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.

**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.

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## **PROPRIETARY PRODUCTS**

MassDOT has approved the use of the following proprietary products on this contract pursuant to M.G.L. c. 30, § 39M(b):

[ITEMS 816.01, 816.02 AND 816.03, Applied Information (AI), Model AI-500-085-02 FMU with 4G LTE modem and 4-Port Ethernet Switch]

Approval letter has been filed with MassDOT.

## **BIDDERS LIST**

Pursuant to the provisions of 49 CFR 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.

## **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 2.0 Million 18-kip (80-kn) ESALs.

## **NOTIFICATION OF FUNDING SOURCES FOR WORK TO BE PAID BY OTHERS**

This Contract contains work that shall be paid by the ***Town of Longmeadow***. The said ***Town of Longmeadow*** shall be responsible for construction costs associated with a Non-Participating Agreement with MassDOT.

This Contract has an agreement with the ***Town of Longmeadow***, whereas when the construction costs for the contract scope exceed the total participating contract bid price by more than ten percent (10%), the City/Town shall be responsible for the amount over 110% of the total participating contract bid price.

**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.

**WORK SCHEDULE**

(Supplementing Subsection 7.09)

Work on this Project is restricted to a normal 8-hour day, 5-day week. The time of 8 hour shift may be adjusted if approved by both the Engineer and the City in writing.

No EXISTING lanes should close during peak hours from 7am–9am and 4pm–6pm. Full width of roadway shall remain open outside of working hours.



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**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.

**NOTICE TO OWNERS OF UTILITIES**

(Supplementing Subsection 7.13)

Written notice shall be given by the Contractor to all public service corporations or municipal and State officials owning or having charge of publicly or privately owned utilities of his intention to commence operations affecting such utilities 72 hours in advance of the commencement of such operations. The Contractor shall, at the same time, file a copy of such notice with the Engineer.

A list of public and private utilities can be found on the MassDOT website at:  
<https://www.mass.gov/info-details/utility-contacts-by-district-and-municipality>

**Select District 2**

Select the City of Springfield and/or the Town of Longmeadow and then locate the utility

Town officials are shown at website <https://www.mass.gov/lists/massachusetts-cities-and-towns> and select the required City/Town website.

State Police are shown at website <https://www.mass.gov/info-details/massachusetts-state-police-troop-boundaries>. Select the area of jurisdiction to find the local station.

**District Utility/Constructability Engineer**

District	Contact	Phone	Email
2	Paul Kelly	857-368-2066	Paul.Kelly@dot.state.ma.us

The Contractor will cooperate fully with all utility companies private or public. It is understood that the Contractor has considered in his bid the existence of the various utilities and no additional compensation will be allowed for any delays, inconvenience, or damage sustained by him due to any interference by said utilities.

At locations where the proposed drainage crosses the existing gas mains care should be taken during excavation to avoid undermining or damaging the existing gas mains. If the existing gas main is required to be undermined, the Contractor shall keep the trench width to a minimum and provide in-place support to gas mains as approved by the representative of the utility or as directed by the Engineer.

**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.

By December 31, 2025, 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.

**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.

**ENVIRONMENTAL PERMITTING**

Environmental permits have not been obtained, as no work (either temporary or permanent) is proposed to occur in water or wetland resource areas. If Contractor erection, demolition, storage, or other procedures require work to occur in or otherwise impact water, wetland resource areas, buffer zones, etc. the Contractor is advised that no associated work can occur until all required environmental permits have been obtained. The Contractor must notify the District 2 Highway Direction 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 through 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 obtain the environmental permits. As a supplement to Section 7.00 of the Standard Specification, the Contractor is reminded that no debris of any type shall be allowed to enter water or wetland resource areas, either temporarily or permanently.

## **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.

**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

**MAINTENANCE OF TRAFFIC SIGNALS**

The Contractor shall provide all labor, equipment and material required for the total maintenance of all existing and proposed traffic signal control equipment, within the project limits, including damage by automobile accidents, unless otherwise specified under Subsection 7.17 "Traffic Accommodation" of the Standard Specifications, as amended, in which case Subsection 7.17 will govern. These provisions will apply to the signalized locations included as part of the Contract from the date of written notice given to the Engineer that the Contractor will begin work on the signals until the date when the Engineer shall recommend acceptance of the completed project. This written notice must be given before the Contractor may proceed with any work on the specified traffic signal system. For the purpose of these paragraphs, the phrase "Traffic Signal Control Equipment" is intended to include, but is not limited to, controllers, detectors, signal housings, supporting structures, cabinets, wires, conduit and all other ancillary electrical equipment used for traffic control. The cost of maintenance of signals shall be deemed to be included in the various traffic signal contract items, and no additional payments shall be made therefore, except as provided by Subsection 7.17 of the Standard Specifications as amended.



## **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 for Transportation Projects in the Range of the Indiana Bat and Northern Long-Eared Bat revised February 5, 2018 and amended March 31, 2023.

On June 2, 2023, Normandeau, on behalf of MassDOT Highway Division Environmental Services, conducted a northern long-eared bat summer presence/absence survey using acoustic detection methods, in accordance with the 2023 survey guidelines. The survey confirmed the presence of NLEB and/or TCB, and as stated within the survey guidelines, the survey is valid for five years. If additional stressor producing work is proposed by the Contractor past this date, additional review is required by the MassDOT Highway Division's Environmental Services Section, and additional review and restrictions may be required by the USFWS.

On behalf of FHWA, the lead federal agency for Section 7 consultation, MassDOT submitted a FHWA, FRA, FTA Programmatic Consultation for Transportation Projects affecting NLEB or Indiana Bat to the USFWS through the Information for Planning and Consultation (IPaC) webpage. Therefore, the project has completed Section 7 consultation through 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.**
- When installing new or replacing existing permanent lights, use downward-facing, full cut-off lens lights (with same intensity or less for replacement lighting); or for those transportation agencies using the BUG system developed by the Illuminating Engineering Society, be as close to 0 for all three ratings with a priority of "uplight" of 0 and "backlight" as low as practicable.

### **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.*

**NORTHERN LONG-EARED BAT AND TRICOLORED BAT PROTECTION** (Continued)

- 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 shall be conducted during the active season: **April 15 to October 31**.
- No tree cutting shall be conducted during the active season: **April 15 to October 31**, or if cutting inside of this timeframe is required, tree removal is limited to 10 or fewer trees per project at any time of year within 100 feet of existing road/rail surface and outside of documented roosting/foraging habitat or travel corridors; and a visual emergence survey must be conducted by *MassDOT Highway Division's Environmental Services Section or appointed representative* with **no bats observed**.
- Do not remove **documented** or NLEB and/or TCB roosts that are still suitable for roosting, or trees within 0.25 miles of roosts, or **documented** foraging habitat any time of year.
- 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.

**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.

**NOTE:** The requirements for manufactured products indicated in paragraph (2) above are not in effect for this contract.

## **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.

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**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.

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**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.

**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.

## SECTION 722 CONSTRUCTION SCHEDULING DESCRIPTION

### 722.20 General

The Contractor's approach to prosecution of the Work shall be disclosed to the Department by submission of a Critical Path Method (CPM) schedule and a cost/resource loaded Construction Schedule as defined by the schedule type set forth below. These requirements are in addition to any requirements imposed in other sections.

This section establishes the requirement for scheduling submissions. There are four schedule types identified as types A, B, C and D.

All schedules shall be prepared and submitted in accordance with this specification and the instructions contained in the Construction Schedule Toolkit located on the MassDOT-Highway Division website at <https://www.mass.gov/info-details/massdot-highway-contractors-schedule-toolkit>.

#### Type A –

- Schedule Planning Session
  - Baseline CPM Schedule
  - Monthly Update CPM Schedule
  - Short-term Construction Schedule
  - Contract Schedule Update Meeting
  - Cost-loaded & Resource Loaded CPM
  - Resources Graphic Reporting
  - Cash Flow Projections from the CPM
  - Cash Flow Charts
  - Monthly Projected Spending Report (PSR)
  - Contractor-furnished CPM software and computer

#### Type B –

- Schedule Planning Session
  - Baseline CPM Schedule
  - Monthly Update CPM Schedule
  - Short-term Construction Schedule
  - Contract Schedule Update Meeting
  - Cost-loaded & Resource Loaded CPM
  - Monthly Projected Spending Report (PSR)
  - Contractor-furnished CPM software and computer

#### Type C –

- Schedule Planning Session
- Baseline CPM Schedule
- Monthly Update CPM Schedule
- Short-term Construction Schedule
- Contract Schedule Update Meeting
- Monthly Projected Spending Report (PSR)
- Contractor-furnished CPM software and computer

**SECTION 722** (Continued)**Type D -**

- Bar chart schedule updated monthly or at the request of the Engineer
- Short-term Construction Schedule
- Monthly Projected Spending Report (PSR)

**EQUIPMENT, PERSONNEL****722.40 General****A. Software Requirements**

The Contractor shall use Primavera P6 computer scheduling software.

In addition to the requirements of Section 740 – Engineer’s Field Office and Equipment, the Contractor shall provide to the Department one (1) copy of the scheduling software, one (1) software license and one (1) computer capable of running the scheduling software for the duration of the Contract. This computer and software shall be installed in the Engineer’s Field Office. The computer and software shall be maintained and serviced at no additional cost to the Department.

**B. Scheduler Requirements**

The Scheduler shall be approved by the Engineer.

For Type A, B and C Schedules the name of the Contractor’s Project Scheduler together with his/her qualifications shall be submitted to the Department for approval by the Engineer within seven (7) Calendar Days after NTP. The Project Scheduler shall have a minimum of five (5) years of project CPM scheduling experience, three (3) years of which shall be on projects of similar scope and value as the project for which the Project Scheduler is being proposed. References shall be provided from past projects that can attest to the capabilities of the Project Scheduler.

**SCHEDULING METHODS****722.60 General****A. Schedule Planning Session**

The Contractor shall conduct a schedule planning session prior to submission of the Baseline Schedule. This session will be attended by the Department and its consultants. During this session, the Contractor shall present its planned approach to the project including, but not limited to:

1. the Work to be performed by the Contractor and its subcontractors;
2. the planned construction sequence and phasing; planned crew sizes;
3. summary of equipment types, sizes, and numbers to be used for each work activity;
4. all early work related to third party utilities;
5. identification of the most critical submittals and projected submission timelines;
6. estimated durations of major work activities;
7. the anticipated Critical Path of the project and a summary of the activities on that Critical Path;
8. a summary of the most difficult schedule challenges the Contractor is anticipating and how it plans to manage and control those challenges;

**SECTION 722** (Continued)

9. a summary of the anticipated quarterly cash flow over the life of the project.

This will be an interactive session and the Contractor shall answer all questions that the Department and its consultants may have. The Contractor shall provide a written summary of the information presented and discussed during the session to the Engineer. The Contractor's Baseline Schedule and accompanying Schedule Narrative shall incorporate the information discussed at this Schedule Planning Session.

**B. Schedule Reviews by the Department**

1. Baseline Schedule Reviews

The Engineer will respond to the Baseline Schedule Submission within thirty (30) Calendar Days of receipt providing comments, questions and/or disposition that either accepts the schedule or requires revision and resubmittal. Rejected Baseline Schedules shall be resubmitted within fifteen (15) Calendar Days after receipt of the Engineer's comments.

2. Contract Progress Schedule / Monthly Update Reviews / Recovery Schedules

The Engineer will respond to each submittal within twenty-one (21) Calendar Days. Rejected schedules shall be resubmitted by the Contractor within five (5) Calendar Days after receipt of the Engineer's comments.

The Engineer's review comments shall not be construed as direction to change the Contractor's means and methods. The review and acceptance of the CPM schedule does not relieve the Contractor of the responsibility for accomplishing the work within the contract required completion dates. Omissions and errors in the accepted CPM schedule shall not excuse performance less than that required by the Contract.

**722.61 Schedule Content and Preparation Requirements**

All schedules shall be prepared and submitted in accordance with the instructions contained in the Construction Schedule Toolkit located on the MassDOT-Highway Division website at:

<https://www.mass.gov/info-details/massdot-highway-contractors-schedule-toolkit>

and the following:

**A. LOGIC**

The schedules shall divide the Work into activities with appropriate logic ties to show:

1. conformance with the requirements of this Section and Division I, Subsection 8.02 - Schedule of Operations
2. the Contractor's overall approach to the planning, scheduling, and execution of the Work
3. conformance with any additional sequences of Work required by the Contract Documents, including, but not limited to, Subsection 8.03 - Prosecution of Work and Subsection 8.06 – Limitations of Operations.

**SECTION 722** (Continued)**B. ACTIVITIES**

The schedule shall clearly define the progression of the Work from the Notice to Proceed (NTP) to Contractor Field Completion (CFC) by using separate activities, or including attributes within appropriate activities, to address each of the following:

1. Notice to Proceed
2. Work Breakdown Structure
3. The Critical Path is clearly defined and organized.
4. Float shall be clearly identified.
5. Detailed activities to satisfy permit requirements.
6. Subcontractor approvals at fifteen (15) Calendar Days from submittal to response
7. The preparation and submission of shop drawings, procedures, and other required submittals, with a planned duration that is to be demonstrated to the Engineer as reasonable.
8. The review and return of shop drawings, procedures, and other required submittals, approved or with comments, the duration of which shall be thirty (30) Calendar Days, unless otherwise specified or as approved by the Engineer.
9. Procurement of fabricated materials and equipment with long lead times, including time for review and approval of submittals required before procuring and fabricating.
10. Each component of the Work defined by specific activities.
11. Right-of-Way (ROW) takings that have been identified in the Contract.
12. Early Utility Relocation (by others) that has been identified in the Contract.
13. Interfaces with adjacent work, utility companies, other public agencies, sensitive abutters, and/or any other third-party work affecting the Contract.
14. Utility work to be performed in accordance with the Project Utility Coordination (PUC) Form as provided in Section 8.14 - Utilities Coordination, Documentation and Monitoring Responsibilities
15. Access Restraints – restrictions on access to areas of the Work that are defined by the Department in the bid package, in Subsection 8.06 – Limitations of Operations or elsewhere in the Contract
16. Limitations of Work – time of year restrictions and any other limitations identified in the contract
17. Traffic work zone set-up and removal, night work and phasing
18. Material Certifications
19. Milestones listed in Subsection 8.03 - Prosecution of Work or elsewhere in the Contract Documents
20. For Type A and B Contracts only: All items to be paid for, including all Unit Price and Lump Sum pay items, shall be identified by activity. This shall include all non-construction activities such as engineering work; purchase of permanent materials and equipment, purchase of structural steel stock, equipment procurement, equipment delivery to the site or storage location and the representative amount of overhead/indirect costs that was included in the Contractor's Bid Prices.

**SECTION 722** (Continued)

21. Contractor's request for validation of FBU (ready to open to traffic)
22. Full Beneficial Use (FBU) Contract Milestone per the following requirements: The majority of contract Work has been completed and the asset(s) has been opened for full multi-modal transportation use, except for limited contract work items that do not materially impair or hinder the intended public use of the transportation facility. All anticipated lane takings have been completed, except for minor, short term work items and as defined in Subsection 8.03 - Prosecution of Work
23. The Department's confirmation of completed work to allow for FBU.
24. Contractor's request for validation of Substantial Completion
25. Department generated punch list of twenty-one (21) Calendar Days
26. Substantial Completion Contract Milestone as defined in the standard specifications.
27. Punch list Completion Period of at least thirty (30) Calendar Days per the requirements of Subsections 5.11 - Final Acceptance, 7.15 - Claims Against Contractors for Payment of Labor, Materials and Other Purposes
28. Contractor confirmation that all punchlist work and documentation has been completed.
29. Physical Completion of the Work Contract Milestone per the requirements of Subsections 5.11 - Final Acceptance and 8.03 - Prosecution of Work
30. Documentation Completion per the requirements of Subsections 5.11 - Final Acceptance and 8.03 - Prosecution of Work
31. Contractor Field Completion Contract Milestone (which can also be considered the completion date) per the following requirements: All physical contract Work is complete including punchlist. The Contractor has fully de-mobilized from field operations and as defined in Subsection 5.11

**C. EARLY AND LATE DATES**

Early Dates shall be based on proceeding with the Work or a designated part of the Work exactly on the date when the corresponding Contract Time commences. Late Dates shall be based on completing the Work or a designated part of the Work exactly on the corresponding Contract Time, even if the Contractor anticipates early completion.

**D. DURATIONS**

Activity durations shall be in Work Days. Planned Original Durations shall be established with consideration of resources and production rates that correspond to the Contractor's Bid Price. Within all of the Department-required schedules, the Contractor shall plan the Work using durations for all physical construction activities of no less than one (1) Work Day and no greater than fourteen (14) Work Days, unless approved by the Engineer as part of the Baseline Schedule Review.

**SECTION 722** (Continued)

Should there be an activity with a duration that is determined by the Engineer to be unreasonable, the Contractor will be asked to provide a basis of the duration using bid documents, historic production rates for similar work, or other form of validation that is acceptable to the Engineer. Should the Contractor and the Engineer be unable to agree on reasonable activity durations, the Engineer will, at a minimum, note the disagreement in the Baseline Schedule Review along with a duration the Engineer considers reasonable and the basis for that duration. A schedule that contains a substantial number of activities with durations that are deemed unreasonable by the Engineer will not be accepted.

**E. MATERIALS ON HAND**

The Contractor shall identify in the Baseline Schedule all items of permanent materials (Materials On Hand) for which the Contractor intends to request payment prior to the incorporation of such items into the Work.

**F. ACTIVITY DESCRIPTIONS**

The Contractor shall use activity descriptions in all schedules that clearly describe the work to be performed using a combination of words, structure numbers, station numbers, bid item numbers, work breakdown structure (WBS) and/or elevations in a concise and compact label.

**G. ACTIVITY IDENTIFICATION NUMBERS**

The Contractor shall use the activity identification numbering system specified in the MassDOT Highway Division Contractor Construction Schedule Toolkit.

**H. ACTIVITY CODES**

The Contractor shall use the activity codes specified in the MassDOT Highway Division Contractor Construction Schedule Toolkit.

**I. CALENDARS**

Different calendars may be created and assigned to all activities or to individual activities. Calendars define the available hours of work in each Calendar Day, holidays and general or project-specific non-Work Days such as Fish Migration Periods, time-of-year (TOY) restrictions and/or area roadway restrictions. All calendars shall extend two years beyond the current project completion date.

Project Special Provisions identify specific calendar restrictions some examples of special calendars include, but are not limited to:

- Winter Shutdown Period, specific work is required by separate special provision to be performed during the winter. See Special Provision 8.03 (if applicable)
- Peak traffic hours on heavily traveled roadways. This shall be from 6:30 am to 9:30 am and from 3:30 pm to 7:00 pm, unless specified differently elsewhere in the Contract.
- Special requirements by sensitive abutters, railroads, utilities and/or other state agencies as defined in the Contract.
- Planting seasons for trees, shrubs and grasses and wetlands mitigation work.

**SECTION 722** (Continued)

- Cape Cod and the Islands Summer Roadway Work Restrictions: A general restriction against highway and bridge construction is enforced between Memorial Day and Labor Day, unless otherwise directed by the Engineer. Cape Ann Summer Roadway Work Restrictions: While there are no general restrictions for Cape Ann as there are for Cape Cod and the Islands, project-specific restrictions may be enforced.
- Turtle and/or Fish Migration Periods and/or other in-water work restrictions: Refer to the Project Special Provisions for specific restrictions.
- Working over Waterways Restricted Periods.
- Night-time paving and striping operations, traffic, and temperature restrictions.
- Utility Restrictions shall be as specified within the Contract.

**J. FLOAT**

For the calculation of float in the CPM schedule, the setting for *Retained Logic* is required for all schedule submissions, starting with the Baseline Schedule Submission. Should the Contractor have a reason to propose that an alternative calculation setting such as *Progress Override* be used, the Contractor shall obtain the Engineer's approval prior to modifying to this setting.

**K. COST AND RESOURCE LOADING (Types A and B only)**

For all Type A and B Schedules, the Contractor shall provide a cost and resource-loaded schedule with an accurate allocation of the costs and resources necessary to complete the Work. The costs and resources shall be assigned to all schedule activities in order to enable the Contractor to efficiently execute the Contract requirements and the Engineer to validate the original plan, monitor progress, provide cash flow projections, and analyze delays.

1. Each schedule activity shall have an assigned cost that accurately represents the value of the Work. Each schedule activity shall have its resources assigned to it by craft and the anticipated hours to accomplish the work. Each schedule activity's equipment resources shall be assigned to it by equipment type and hours operated. Front-loading or other unbalancing of the cost distribution will not be permitted.
2. The sum of the cost of all schedule activities shall be equal to the Contractor's Bid Price.
3. Indicating the labor hours per individual, per day, by craft and equipment hours/day will be acceptable.
4. The Engineer reserves the right to use the cost-loading as a means to resolve changes, disputes, time entitlement evaluations, increases or decreases in the scope of Work, unit price renegotiations and/or claims.
5. For all Type A and B Schedules, all subnets, fragnets, Proposal Schedules, and Recovery Schedules shall be cost and resource- loaded to help to quickly validate and monitor the duration of the Work to be performed.
6. For Type A Schedules, cost-loading of the schedule will also be used for cash flow projection purposes.
7. The cost-loading of each activity shall indicate the portion of the cost for that activity that is applicable to a specific bid item (cost account.) The total cost for each cost account must equal the bid item price.



**SECTION 722** (Continued)**L. NOT TO BE USED IN THE CONTRACTOR'S CPM SCHEDULE**

1. Milestones or constraint dates not specified in the Contract.
2. Scheduled work not required for the accomplishment of a Contract Milestone
3. Use of activity durations, logic ties and/or sequences deemed unreasonable by the Engineer.
4. Delayed starts of follow-on trades.
5. Float suppression techniques.
6. Leads such as leads, lags, SS, SF, & FF relationships without the expressed permission of the Department.

**722.62 Submittal Requirements**

All schedules shall be prepared and submitted in accordance with the requirements listed below.

Each monthly Contract Progress Schedule submittal shall be uniquely identified.

Each Submission shall, at a minimum, include the following:

- a. Narrative
- b. Schedule submittals shall be signed by the Scheduler
- c. Schedule Printout - All Activities
- d. Schedule Printout - Critical Path Layout
- e. Schedule Printout - Remaining Work
- f. Schedule Printout - Top 3 Float Path
- g. Work Breakdown Structure (WBS) Summary
- h. Project Spending Report (PSR) in Portable Document Format (.PDF)
- i. Project Spending Report (PSR) in Microsoft Excel spreadsheet (.XLS)
- j. Oracle Primavera P6 Schedule File (.XER)

All digital file submittals will be labeled with the following information.

- Contract Number
- Project Number
- Project locations (i.e., town(s))
- Brief description
- Submittal description (i.e., UP07)
- Data Date (MM-DD-YY)
- File Description (i.e., Critical Path)

Example: C110464 (P606309) - Orange Route 2 over 202 – UP23 (07-15-22) - Critical Path

**A. Narratives**

A written narrative shall be submitted with every schedule submittal. The narrative shall:

1. itemize and describe the flow of work for all activities on the Critical Path in a format that includes any changes made to the schedule since the previous Contract Progress Schedule / Monthly Update or the Baseline Schedule, whichever is most recent.
2. provide a description of any specification requirements that are not being followed. Identify those that are improvements and those that are not considered to be meeting the requirements.

**SECTION 722** (Continued)

3. provide all references to any Notice of Delay that has been issued, within the time period of the Contract Progress Schedule Update, by letter to the Engineer. Note that any Notice of Delay that is not issued by letter will not be recognized by the Engineer. See Subsection 722.64.A – Notice of Delay.
4. provide a description of each third-party utility's planned vs. actual progress and note any that are trending late or are late per the durations and commitments as provided in the PUC Form; provide a description of the five (5) most important responses needed from the Department and the need date for the responses in order to maintain the current Schedule of Record.
5. provide a description of all critical issues that are not within the control of the Contractor or the Department (third party) and any impact they had or may have on the Critical Path.
6. provide a description of any possible considerations to improve the probability of completing the project early or on time.
7. compare Early and Late Dates for activities on the Critical Path and describe reasons for changes in the top three (3) most critical paths.
8. describe the Contractor's plan, approach, methodologies, and resources to be employed for completing the various operations and elements of the Work for the top three (3) most critical paths. For update schedules, describe and propose changes to those plans and verify that a Proposal Schedule is not required.
9. describe, in general, the need for shifts that are not 5 days/week, 8 hours/day, the holidays that are inserted into each calendar and a tabulation of each calendar that has been used in the schedule.
10. describe any out-of-sequence logic and provide an explanation of why each out-of-sequence activity does not require a correction, if one has not been provided, and an adequate demonstration that these changes represent the basis of how these activities will be built, including considerations for resources, dependencies, and previously approved production rates.
11. identify any possible duration increases resulting from actual or anticipated unit price item quantity overruns as compared to the baseline duration, with a corresponding suggestion to mitigate any possible delays to the Critical Path. If the delay is anticipated to impact the Critical Path, refer to Subsections 4.06 – Increased or Decreased Contract Quantities and 8.10 – Determination and Extension of Contract Time for Completion and submit a letter to the Engineer notifying of a potential delay.
12. include a schedule log consisting of the name of the schedule, the data date and the date submitted.
13. include and describe any notifications, communications and coordination meetings with third-parties such as utility companies that occurred from the last update including personnel names, job titles and contact information, date of meeting(s)/correspondence(s), topics discussed, and reasons the third party provided for deviations from the PUC form.

**SECTION 722** (Continued)**B. CPM Bar Charts**

One (1) timescaled bar chart containing all activities shall be prepared and submitted using a scale that yields readable plots and that meets the requirements of Subsection 722.61 – Schedule Content and Preparation Requirements. Activities shall be linked by logic ties and shown on their Early Dates. Critical Paths shall be highlighted, and Total Float shall be shown for all activities.

A second timescaled bar chart shall also be prepared containing only the Critical Path or, if the Critical Path is not the longest path, the Longest Path using a scale that yields readable plots and that meets the requirements of Subsection 722.61 – Schedule Content and Preparation Requirements. Activities shall be linked by logic ties and shown on their Early Dates. Total Float shall be shown for all activities.

**C. Detailed Activity Schedule Comparisons**

A Detailed Activity Schedule Comparison (DASC) is a simple reporting tool in the format of a graphical report that will provide Resident Engineers with immediate, timely and up-to-date information. The DASC consists of an updated bar chart that overlays the current time period's bar chart onto the previous time period's bar chart for an easily read comparison of progress during the present and previous reporting periods.

**D. Activity Cost Report and Monthly Cash Flow Projections (Type A only)**

With each Contractor Quantity Estimate (CQE), the Contractor shall submit an Activity Cost Report and Cash Flow Projection that includes all activities grouped by Contract Bid Item.

The Activity Cost Report shall be generated from the Schedule of Record and shall be the basis of the Monthly Cash Flow Projection. Within each contract Bid Item, activities shall be sequenced by ascending activity identification number and shall show:

1. activity ID and description,
2. forecast start and finish dates for each activity and,
3. when submitted as a revised schedule, actual start, and finish dates for each completed activity.
4. any variance to the estimated contract quantity shall be shown.

**E. Resource Graphs (Type A only)**

Monthly and cumulative resource graphs for the remaining Contract period using the Early Dates and Late Dates in the Contract Progress Schedule shall be included as part of each schedule submittal.

**SECTION 722** (Continued)**F. Projected Spending Reports**

A Projected Spending Report (PSR) shall be prepared and submitted monthly. The PSR shall indicate the monthly spending (cash flow) projection for each month from NTP to Contractor Field Completion (CFC). Each month's actual spending shall be calculated using all CQEs paid during that month. The Projected Spending Report (PSR) shall be depicted in a tabular format and provided in both an .XLS and .PDF.

**722.63 Progress Schedule Requirements****A. Baseline Schedule**

The Baseline Schedule shall be due thirty (30) Calendar Days after Notice to Proceed (NTP). The Baseline Schedule shall only reflect the Work awarded to the Contractor and shall not include any additional work involving Extra Work Orders or any other type of alleged delay. The Baseline Schedule shall be prepared and submitted in accordance with Subsections 722.61 - Schedule Content and Preparation Requirements and 722.62 - Submittal Requirements. Once the Baseline Schedule has been accepted by the Engineer, with or without comments, it shall represent the as-planned schedule for the Work and become the Contract Progress Schedule of Record until such time as the schedule is updated or revised under Subsections 722.63.C - Contract Progress Schedules / Monthly Updates, 722.64.C - Recovery Schedules and 722.64.D - Proposal Schedules.

The Cost and Resource-Loading information (Types A and B only) shall be provided by the Contractor within forty-five (45) Calendar Days after NTP.

The Engineer's review comments on the Baseline Schedule and the Contractor's responses to them will be maintained for the duration of the Contract and will be used by the Engineer to monitor the Contractor's work progress by comparing it to the Contract Progress Schedule / Monthly Update.

**B. Interim Progress-Only Schedule Submissions**

The first monthly update of the Contract Progress Schedule/Monthly Update is due within seventy (70) Calendar Days after Notice to Proceed (NTP.) The Baseline Schedule review period ends at sixty (60) Calendar Days after NTP, see Subsection 722.60.B - Schedule Reviews by the Department. If the Baseline Schedule has not been accepted within sixty (60) Calendar Days after NTP, an Interim Progress-Only Schedule shall be due within seventy (70) Calendar Days after NTP. The purpose of the Interim Progress-Only Schedule is to document the actual progress of all activities, including non-construction activities, from NTP until the Baseline Schedule is accepted.

**SECTION 722** (Continued)**C. Contract Progress Schedules / Monthly Updates**

The first Contract Progress Schedule shall be submitted by the Contractor no later than seventy (70) Calendar Days after NTP. The data date for this first Progress Schedule shall be two months (approximately sixty (60) Calendar Days) after NTP. Subsequent Progress Schedules shall be submitted monthly.

Each Contract Progress Schedule shall reflect progress up to the data date. Updated progress shall be limited to asbuilt sequencing and asbuilt dates for completed and inprogress activities. Asbuilt data shall include actual start dates, remaining Work Days and actual finish dates for each activity, but shall not change any activity descriptions, the Original Durations, or the Original Resources (as planned at the time of bid), without the acceptance of the Engineer. If any activities have been completed out-of-sequence, the Contractor shall propose new logic ties for affected in-progress and future activities that accurately reflect the previously approved sequencing. Alternatively, the Contractor may submit to the Engineer for approval an explanation of why an out-of-sequence activity does not require a correction and an adequate demonstration that the changes accurately represent how the activities will be built, including considerations for resources, dependencies, and previously approved production rates. Once approved by the Engineer, the Contractor may incorporate the changes in the next Contract Progress Schedule/Monthly Update with the affected activities clearly identified and explained in the Schedule Narrative.

No revisions to logic ties, sequence, description, or duration of future activities; or planned resource costs shall be made without prior approval by the Engineer.

Any proposed logic changes for in-progress or future activities shall be submitted to the Engineer for approval before being incorporated into a Contract Progress Schedule. The logic changes must be submitted using a Proposal Schedule or a schedule fragnet submission. Once approved by the Engineer, the Contractor may incorporate the logic in the next Contract Progress Schedule/Monthly Update with the affected activities clearly identified and explained in the Schedule Narrative.

For any proposed changes to the original sequence, description or duration of future activities, the Contractor shall submit to the Engineer for approval an explanation of how the proposed description or duration change reflects how the activity will be progressed, including considerations for resources and previously approved production rates. Any description or duration change that does not accurately reflect how the activity will be progressed will not be approved by the Engineer. Once approved by the Engineer, the Contractor may incorporate the changes in the next Contract Progress Schedule/Monthly Update with the affected activities clearly identified and explained in the Schedule Narrative.

Contract Progress Schedules that extend performance beyond the Contract Time or beyond any Contract Milestone shall not be approved by the Engineer. The Contractor shall submit a Recovery Schedule, or a Time Entitlement Analysis, if any Contract Progress Schedule/Monthly Update indicates a failure to meet the Contract Dates.

**SECTION 722** (Continued)**D. Short-Term Construction Schedule**

The Contractor shall provide a Short-Term Construction Schedule that details daily work activities, including any multiple shift work that the Contractor intends to conduct, in a spreadsheet format. The daily activities shall directly correspond to the Contract Progress Schedule activities, with a matching reference to the activity identification number in the Contract Progress Schedule and may be at a greater level of detail. The Short-Term Construction Schedule shall be submitted every two weeks. It shall display all work for a thirty-five (35) Calendar Day period consisting of completed work for the two (2) week period prior and all planned work for the following three (3) week period. The initial submission shall be provided no later than thirty (30) Calendar Days after NTP or as required by the Engineer.

The Contractor shall be prepared to discuss the Short-Term Construction Schedule, in detail, with the Engineer in order to coordinate field inspection staff requirements, the schedule of work affecting abutters and any corresponding work with affected utilities. Short-Term Construction Schedules shall be prepared and submitted in accordance with Subsections 722.61 - Schedule Content and Preparation Requirements and 722.62 - Submittal Requirements.

**722.64 Impacted Schedule Requirements****A. Notice of Delay**

The Contractor shall notify the Engineer in writing, with copies to the District and State Construction Engineers, within fifteen (15) of the start of any delays to the Critical Path that are caused by actions or inactions that were not within the control of the Contractor. Delay notifications that are not provided in a letter to the Engineer, such as a delay notification in the schedule narrative, will not be recognized as contractual notice in the determination of any Time Extension related to the impacts to the work associated with this specific alleged delay. Should such a delay continue for more than one (1) week, the Contractor shall note it in the Schedule Narrative until the delay is no longer impacting the Critical Path for the completion of the Contract Milestones. The Engineer will evaluate the alleged delay and its impact and will respond to the Contractor within ten (10) Calendar Days after receipt of a notice of delay.

**B. Time Entitlement Analysis**

A Time Entitlement Analysis (TEA) shall consist of a descriptive narrative, prepared in accordance with Subsection 722.62.A - Narratives, and an as-built CPM schedule, which may be in the form of a schedule fragnet that has been developed from the project's Contract Progress Schedule of Record, and illustrates the impact of a delay to the Critical Path, Contract Milestones and/or Contract Completion Date as required in Subsection 8.10 - Determination and Extension of Contract Time for Completion. TEAs shall also be used to determine the schedule impact of proposed Extra Work Orders (EWO) as also required in Subsection 8.10.

TEAs shall be prepared and submitted in accordance with the requirements of Subsections 722.61 - Schedule Content and Preparation Requirements and 722.62 - Submittal Requirements and shall be based on the Contract Progress Schedule of Record applicable at the start of the delay or impact from an EWO. A TEA fragnet must start with a specific new activity describing the work contained in either a Notice of Delay previously submitted to the Department per Subsection 722.64.A - Notice of Delay or an EWO.

**SECTION 722** (Continued)

TEAs shall be submitted:

1. as part of any Extra Work Order that may impact Contract Time,
2. with a request for a Time Extension,
3. within fifteen (15) Calendar Days after a request for a TEA by the Engineer for any other reason.

A TEA shall be submitted to the Engineer before any Time Extension is granted to the Contractor. Time Extensions will not be granted unless the TEA accurately reflects an evaluation of all past delays and the actual events that occurred that impacted the Critical Path. The TEA must also demonstrate a plan for the efficient completion of all of the remaining work through an optimized CPM Schedule. The analysis shall include all delays, including Contractor-caused delays, and shall be subdivided into timeframes and causes of delays.

TEAs shall incorporate any proposed activities, logic ties, resource considerations, and activity costs required to demonstrate the schedule impacts most efficiently in addition to detailing all impacts to existing activities, logic ties, the Critical Path, Contract Milestones, and the Contract Completion Date. In addition, TEAs shall accurately reflect any changes made to activities, logic ties, restraints, and activity costs, necessitated by an Extra Work Order or other schedule impact, for the completion of the remaining work. The Contractor shall provide TEAs that demonstrate that all delays have been mitigated to the fullest extent possible without requiring an Equitable Adjustment to the original bid basis.

All TEAs shall clearly indicate any overtime hours, additional shifts and the resources that are proposed to be incorporated in the schedule. The Engineer shall have final discretion over the use of overtime hours and additional shifts. The Engineer shall have the right to require that overtime hours and/or additional shifts be used to minimize the duration of Time Extensions if it is determined to be in the best interest of the Department to do so.

When accepted, the changes included in a TEA shall be incorporated into the next Contract Progress Schedule per the requirements of Subsection 722.63.C - Contract Progress Schedules / Monthly Updates. During the review of any TEA, all Contract Progress Schedules shall continue to be submitted as required.

The Engineer may request that the Contractor prepare a Proposal Schedule or a Recovery Schedule to further mitigate any delays that are shown in the accepted TEA or Contract Progress Schedule.

**C. Recovery Schedules**

The Contractor shall promptly report to the Engineer all schedule delays during the prosecution of the Work. Contract Progress Schedules that predict performance extended beyond the Contract Time or beyond any Contract Milestone shall not be approved as the schedule of record. This requirement is critical to the Department's ability to make informed decisions regarding Contract Time and costs.

The Contractor shall submit a Recovery Schedule within fifteen (15) Calendar Days of a Contract Progress Schedule submission that shows failure to meet the Contract Dates unless a recovery schedule is waived by the Department. Waiving the recovery schedule does not relieve the contractor of the responsibility for the delay. The Department may revoke the waiver of a Recovery Schedule, at which time a Recovery Schedule shall be submitted within fifteen (15) Calendar Days of the Contractor being notified.

Changes represented in accepted Recovery Schedules shall be incorporated into the next Contract Progress Schedule.

**SECTION 722** (Continued)**D. Proposal Schedules**

A Proposal Schedule is an alternative schedule used to evaluate proposed changes to the Contract scope or significant alternatives to previously approved approaches to complete the Work, which may include changes to activity durations, logic, and sequence. For Types A and B Schedules, the Proposal Schedule shall be cost and resource loaded.

A Proposal Schedule may be requested by the Department at any time or may be offered by the Contractor. The Engineer may request that the Contractor prepare a Proposal Schedule to further mitigate any delays that are shown in an accepted TEA or Contract Progress Schedule.

The Contractor shall submit the Proposal Schedule within thirty (30) Calendar Days of a request from the Department.

The Proposal Schedule shall not be considered a Schedule of Record until the logic, durations, narrative, and basis of the Proposal Schedule have been accepted by the Engineer. If the Proposal Schedule took the form of a fragnet, it must be incorporated into the Contract Progress Schedule of Record showing the current progress of all other activities and the impacts/results of the changes made by the Proposal Schedule before the Proposal Schedule is accepted by the Department.

Proposal Schedules shall clearly indicate any proposed acceleration including overtime hours, additional shifts, and the resources that are proposed to be incorporated in the schedule. The Engineer shall have final discretion over the use of overtime hours and additional shifts. Proposal Schedules that contain a cost element shall be submitted with a separate Cost Proposal.

Changes represented in the accepted Proposal Schedules shall be incorporated into the next Contract Progress Schedule. During the review of any Proposal Schedule, all Contract Progress Schedules shall continue to be required every month.

**E. Disputes**

All schedules shall be submitted, reviewed, dispositioned, and accepted in the timely manner specified herein so as to provide the greatest possible benefit to the execution of this Contract.

The Contractor may dispute a decision by the Engineer by filing a claim notice within seven (7) days after the Contractor's request for additional time has been denied or if the Contractor does not accept the number of days granted in a time extension. The Contractor's claim notice shall include a revised time entitlement analysis that sufficiently explains the basis of the time-related claim. Failure to submit the required time entitlement analysis with the claim notice shall result in denial of the Contractor's claim. A determination on the Contractor's claim shall be in accordance with Subsection 7.16 Claims of Contractor for Compensation. Pending resolution of any dispute, the last schedule accepted by the Engineer will remain the Contract Schedule of Record.



**SECTION 722** (Continued)**722.65 Schedule Type D Requirements**

This section is to detail the requirements for Type D Schedules and is separate from the requirements listed above. These schedules are intended for a project in which a more formal schedule would not be practical.

Schedules for Type D projects shall be submitted for each work assignment. The Schedule Type D shall be submitted electronically in .XLS and .PDF format and meet the following requirements. The schedule requirements for work assignments that are anticipated to last three weeks or less shall conform to the requirements for Short-term Construction Schedules below.

Work assignments that are anticipated to last longer than three weeks shall submit a bar chart baseline and provided update schedules upon request of the engineer as required under Bar Chart Schedule below in addition to meeting the Short-term Construction schedule requirements.

**A. Bar Chart Schedule**

A Bar Chart that shall include the following:

- Work Assignment start date.
- Activities to identify.
  - Major work operations broken down to be no longer than 14 days.
  - Procurement of fabricated materials and equipment with long lead times, including time for review and approval of submittals required before procuring and fabricating.
  - The preparation and submission of shop drawings, procedures, and other required submittals, with a planned duration that is to be demonstrated to the Engineer as reasonable.
  - The review and return of shop drawings, procedures, and other required submittals, approved or with comments, the duration of which shall be shown as thirty (30) Calendar Days,
  - Detailed activities to satisfy permit requirements.
  - Subcontractor approvals at fifteen (15) Calendar Days from submittal to response
  - Project Close out activities including a 21-calendar day creation of a punchlist activity and 30 calendar day minimum completion of punchlist activity.
- Interfaces with adjacent work, utility companies, other public agencies, sensitive abutters, and/or any other third-party work affecting the Contract.
- Access Restraints – restrictions on access to areas of the Work
- Traffic work zone set-up and removal, night work and phasing
- Contract Milestones including Full beneficial Use, Substantial Completion and Contractor Field Completion

The Bar Char Schedule shall be provided at the beginning of the project and updated with each work order created for the project.

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**SECTION 722** (Continued)**B. Short-Term Construction Schedule**

The Contractor shall provide a Short-Term Construction Schedule that details daily work activities, including any multiple shift work that the Contractor intends to conduct, in a spreadsheet format. The daily activities shall directly correspond to the Contract Progress Schedule activities, with a matching reference to the activity identification number in the Contract Progress Schedule and may be at a greater level of detail. See schedule toolkit for suggested format.

The Short-Term Construction Schedule shall be submitted every two weeks. It shall display all work for a thirty-five (35) Calendar Day period consisting of completed work on the assignment for the two week period prior and all planned work for the following three week period. The initial submission shall be provided no later than thirty (30) Calendar Days after NTP or as required by the Engineer.

The Contractor shall be prepared to discuss the Short-Term Construction Schedule, in detail, with the Engineer in order to coordinate field inspection staff requirements, the schedule of work affecting abutters and any corresponding work with affected utilities.

**C. Project Spending Report (PSR)**

A Projected Spending Report (PSR) shall be prepared and submitted monthly. The PSR shall be for all active work assignments, broken down by work assignment. The PSR shall indicate the monthly spending (cash flow) projection for each month from NTP to Contractor Field Completion (CFC). Each month's actual spending shall be calculated using all CQEs paid during that month. The Projected Spending Report (PSR) shall be depicted in a tabular format and provided in both an .XLS and .PDF

**SECTION 722** (Continued)**COMPENSATION****722.80 Method of Measurement****Schedule of Operations (Type A, B and C)**

The project bid documents specify the fixed-price amounts to be paid to the Contractor for the Project Schedule requirements contained herein. Each bidder shall include this fixed price bid item amounts in their bid. Failure to do so may be grounds for the rejection of the bid.

This fixed price amount is for payment purposes only and is separate from what the Department considers to be the Contractor's General Condition costs. If the Contractor deems it necessary to include additional costs to provide all of the requirements of this section, these additional costs shall be included in the Contractor's overall bid price.

All required schedule-related work, including, but not limited to computers, computer software, the planning and coordination with utilities, training, schedule preparation and schedule submittals will be paid for under the fixed price amount.

Twenty percent (20%) of this pay item will be paid upon the Engineer's acceptance of the Contractor's Baseline Schedule, prepared and submitted in accordance with Subsection 722.63.A.

The remaining eighty percent (80%) of this pay item will be paid in equal monthly installments distributed across the Contract Duration from Notice to Proceed (NTP) to Contractor Field Completion (CFC), less the 2 months required for the submittal and review of the Baseline Schedule in accordance with the following formula:

$$\text{Monthly Payment} = \frac{\text{Remaining Fixed Price amount (80\% of the Item Cost.)}}{\text{Contract Duration in whole months} - 2 \text{ months}}$$

The Schedule of Operations pay item will be adjusted to pay for only the actual quantity of schedules that have been submitted in accordance with this section.

Should there be a Time Extension granted to the Contractor, the Engineer may provide an Equitable Adjustment for additional Contract Progress Schedule Updates at intervals directed by the Engineer. The monthly payment will be the basis for this Equitable Adjustment.

**Schedule of Operations (Type D)**

For projects assigned with Type D schedule requirements, all scheduling work shall be considered incidental to the project with no separate payment under this section.

**SECTION 722** (Continued)**722.81 Basis of Payment**

The timely and accurate submission of the Baseline Schedule is critical to the Contract and the Department's ability to make informed decisions. Only payments under Item 740 - Engineer's Field Office and Item 748 - Mobilization will be made until the Baseline Schedule is accepted by the Engineer.

All required schedule-related work, including, but not limited to computers, computer software, the planning and coordination with utilities, training, schedule preparation and schedule submittals (including monthly progress schedules, short-term schedules, project spending reports, TEAs, recovery schedules or impacted schedules) shall be included in this work.

No payment for any other pay item will be processed beyond seventy-five (75) Calendar Days from Notice to Proceed (NTP) until the Baseline Schedule is accepted by the Engineer. Until the Engineer's acceptance of the Baseline Schedule, the combined total of all payments made to the Contractor will be limited to an amount no greater than the total price for Item 748 - Mobilization or 3% of the contract price, whichever is less.

All Contract Progress Schedule Updates submitted later than ten (10) Calendar Days after the CQE (Contract Quantity Estimate) completion date, or greater than forty (40) Calendar Days from the Data Date of the previous submission, will be deemed to be no longer useful and will not qualify for payment. The late submission of Impacted schedules, including TEAs, recovery schedules and proposal schedules will result in the forfeiture of the monthly payment for the month in which they were due and subsequent months until the submission is made. Late submission of missed submittals will not result in recovery of the previously forfeited portion of the Schedule of Operations Fixed Price Payment Item.

Failure to submit schedules as and when required may result in the forfeiture of that portion of the Schedule of Operations Fixed Price Payment and/or the withholding of the full or partial CQE payments by the Engineer.

Failure to submit schedules that are acceptable to the Engineer may result in the forfeiture of that portion of the Schedule of Operations Fixed Price Payment and/or the withholding of the full or partial CQE payments by the Engineer.

The Schedule of Operations pay item will be adjusted to pay for only the actual quantity of schedules that have been submitted in accordance with this section.

The Contractor's failure or refusal to comply with the requirements of this Section shall be reasonable evidence that the Contractor is not prosecuting the Work with due diligence and may result in the Engineer withholding of full or partial payments of all work performed.

**722.82 Payment Items**

722.1	SCHEDULE OF OPERATIONS (TYPE A) - FIXED PRICE \$ _____	LUMP SUM
722.2	SCHEDULE OF OPERATIONS (TYPE B) - FIXED PRICE \$ _____	LUMP SUM
722.3	SCHEDULE OF OPERATIONS (TYPE C) - FIXED PRICE \$ _____	LUMP SUM

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**ITEM 102.511      TREE PROTECTION – ARMORING AND PRUNING      EACH**

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The work under this item shall conform to the relevant provisions of Subsection 771 of the Standard Specifications and the following:

Tree protection – armoring and pruning shall be used for instances where construction activity (the use of heavy equipment), comes within proximity to potentially damage tree trunk(s) or limbs.

The work shall include the furnishing and installing of temporary tree trunk protection, minor limb pruning, or removal of lower tree limbs to prevent injury to the tree from construction equipment and activities; as shown on the Drawings; and/or as required by the Engineer.

**REFERENCES**

If requested, the Contractor shall provide to the Engineer one copy of the latest edition of the American National Standards Institute (ANSI) A300 Standard Practices for Tree, Shrub, and Other Woody Plant Maintenance: Part 1-Pruning and Part 5-Construction Management Standard. Provision of reference shall be incidental to this item.

**MATERIALS**

Trunk armoring shall be such that it prevents damage to the trunk from construction equipment. Material used for trunk armoring or mounting shall be such that installation and removal shall not damage the trunk.

Acceptable trunk armoring materials shall include two by four (2x4) wood cladding, mounted with wire or metal strapping, or when duration of construction activities is less than three months, slotted corrugated plastic pipe, mounted with duct tape. Eight (8) ounce untreated burlap shall be used to wrap the tree trunk prior to installation of cladding.

Alternative armoring methods or materials may be acceptable if approved by the Engineer.

The height of tree trunk cladding shall be measured from the base of the tree (including root flare) to the bottom of the first branch, or to a height of eight (8) feet, or as may be required by the Engineer.

**METHODS OF WORK**

Prior to construction activities, the Engineer, Contractor, and the Arborist (if item is included in the contract), shall review trees noted on the Drawings to be protected. Final decision and selection of trees to be armored and/or pruned shall be per the Engineer.

Care shall be taken to avoid damage to the bark during installation and removal of armoring. Trunk armoring shall be maintained such that it is effective for as long as required or replaced when materials are found to be damaged or ineffective, as determined by the Engineer. Replacement, if required, shall be incidental to the work. Armoring shall be removed immediately upon completion of work activities adjacent to the protected tree(s).

**ITEM 102.511** (Continued)

Pruning of limbs shall conform to the techniques and standards of the most recent ANSI A300 standards.

**DAMAGES OR LOSS**

If trees designated for protection under this item are damaged, including root damage from unapproved trespassing onto the root zone, the Contractor shall, at his own expense, secure the services of an Arborist, described in Item 102.55. The Arborist shall be approved by MassDOT.

If, based on the recommendation of the Arborist, the Engineer determines that damages can be remedied by corrective measures, such as repairing trunk or limb injury; soil compaction remediation; pruning; soil injection fertilization; and/or watering; the damage shall be repaired as soon as possible, within the appropriate season for such work and according to industry standards.

If, based on the recommendation of the Arborist, the Engineer determines that damages are irreparable, or that the damages are such that the tree is sufficiently compromised to pose a future safety hazard, the tree shall be removed. Tree removal shall include cleanup of all wood, grinding of the stump to a depth sufficient to plant a replacement tree or plant, removal of all chips from the stump site, and filling the resulting hole with topsoil. Such tree removal(s), grinding, debris removal, and topsoil filling, shall be at the Contractor's expense.

Tree removal from improper or inadequate tree protection shall result in the Engineer assessing the Contractor monetary damages consistent with industry standards for assessed value and/or replacement.

**METHOD OF MEASUREMENT AND BASIS OF PAYMENT**

Item 102.511 will be measured and paid at the contract unit price per EACH tree to be armored and pruned. This will include full compensation for all labor, equipment, materials, and incidental costs required for the satisfactory completion of the work and the subsequent removal and satisfactory disposal of the protective materials upon completion of the contract or as required by the Engineer.

Payment for work under this item will be scheduled as follows:

- 40% of the value shall be paid upon installation of trunk armoring and completion of pruning work, if required.
- 60% of the value shall be paid at the end of construction operations that would potentially damage the tree and after protection materials have been removed and properly disposed of by the Contractor. In the event of repairable damages, payment shall be made after the completion of remediation measures.

No separate payment will be made for costs of remedial actions, including Arborist services, tree removal, but all costs in connection therewith shall be included in the Contract unit price bid.

Tree damages assessed, due to lack of or improper tree and plant protective measures being taken, shall be deducted from the contract price of the work.

**ITEM 102.513****AIR EXCAVATION AND ROOT PRUNING****FOOT**

Item 102.513 Air Excavation and Root Pruning is for the services of excavating soil with an air pressure tool in order to expose tree roots, and for associated services and materials necessary to complete the work of pruning, backfilling with existing soil, watering, mulching, and fertilizing. This item shall include the furnishing and operating the air excavating tool.

Associated Item: All references to Arborist herein shall refer to the Arborist under Item 102.55 Arborist. Arborist shall meet the requirements as specified under that Item and shall be compensated under that Item.

Trees to be air spaded shall be those shown on the plans and/or as determined necessary by the Engineer per the recommendations of the Arborist.

**REFERENCES**

The standards from American National Standards Institute (ANSI): A300 (Part 8)-2013 Root Management with special attention to Section 84 shall apply to this work. If requested, the Contractor shall provide to the Engineer one copy of this reference. Provision of reference shall be incidental to this item.

**METHODS**

Air excavation and pruning work shall be performed by or overseen by the Arborist.

Air excavation of soil and root pruning shall occur any time prior to equipment work within the root zone of marked trees.

Air excavation shall be done along the limit of proposed excavation. Trench shall be of sufficient width to observe and cut roots and shall be to the depth of proposed excavation. Immediately following air excavation, roots shall be pruned.

Following pruning, roots shall immediately be fully covered with backfill and immediately watered. Roots shall continue to be watered and fertilized as directed by the Arborist.

**METHOD OF MEASUREMENT AND BASIS OF PAYMENT**

Item 102.513 will be measured and paid per foot where air spading, pruning, watering, and fertilizing are performed. This item will include full compensation for all labor, equipment, materials, and incidentals required for the satisfactory completion of the work.

Arborist services shall be per Item 102.55 Arborist and compensated under that Item.

**ITEM 102.521****TREE AND PLANT PROTECTION FENCE****FOOT**

The work under this Item shall conform to the relevant provisions of Subsections 644 and 771 of the Standard Specifications and the following:

Work under this item shall consist of furnishing, installing, and maintaining tree and plant protection fence(s) in a vertical and taut position; removing and resetting fencing as may be required; and final removal of protection fence(s) at the completion of construction activities, or as otherwise required by the Engineer.

The purpose of the fencing is to signify a construction work-free zone and physical barrier, thereby preventing damage to tree roots, tree trunks, soil, and all other vegetation within this delineated Tree and Plant Protection Zone (TPPZ), as shown on the Drawings, as required by the Engineer, and as described herein.

Protection shall be for the duration of the construction activities unless otherwise required by the Engineer.

**MATERIALS**

Tree and plant protection fence(s) shall provide a minimum forty-eight (48) inch tall barrier, that remains vertical and taut. The Fence shall be orange plastic safety fence (recommended where high visibility is necessary), or wooden snow fencing, or other approved material. Posts and anchoring materials shall be incidental to the work.

Per requirements of the Engineer, additional posts, deeper post depths, and/or additional attachments shall be used if the fabric or fence sags, leans or otherwise is not providing visible or physical protection to the TPPZ.

**REFERENCES**

If requested, the Contractor shall provide to the Engineer one copy of the American National Standards Institute (ANSI) A300 Standard Practices for Tree, Shrub, and Other Woody Plant Maintenance Part 1, Pruning and Part 5, Construction Management Standard. Provision of reference shall be incidental to this item.

**ESTABLISHMENT OF THE TPPZ**

Fencing shall be used to delineate and establish the TPPZ, adjacent to construction areas, staging areas, stockpile areas, as shown on the Drawings, and/or as required by the Engineer.

Fencing shall be located as close to the work zone limit and as far from tree trunk(s) and plants as possible to maximize the area to be protected. Fence shall run parallel and adjacent to construction activity to create a barrier between the work zone and the root zone or designated limit of plants and soils to be protected.



**ITEM 102.521 (Continued)**

When construction activities surround (or have the potential to surround) trees or plants to be protected, a circular enclosure shall be used. In these instances, the TPPZ limit shall be the drip line of each tree or as close as possible to the drip line, and/or as shown on the Drawings. The drip line is defined as the outermost limit of tree canopy.

The Contractor shall not engage in any construction activity within the TPPZ without the approval of the Engineer. Activities may include operating, moving, or storing equipment, supplies, or materials; and locating temporary facilities, including trailers or portable toilets. Accessing or traversing the TPPZ shall not be permitted.

**METHOD OF WORK**

TPPZ fencing shall be installed prior to any construction work or staging activities. Fence(s) shall be repositioned where and as necessary for optimum tree and plant protection. Repositioning shall be incidental to this item. TPPZ fencing shall not be moved without prior approval by the Engineer.

The TPPZ shall be protected at all times from compaction of the soil; damage of any kind to trunks, bark, branches, leaves, and roots of all plants; and contamination of the soil with construction materials, debris, silt, fuels, oils, and any chemicals substance.

After construction activities are completed, or when required by the Engineer, fencing, stakes, and other anchoring materials, if any, shall be removed and disposed off-site by the Contractor.

**REQUIRED WORK WITHIN THE TPPZ**

In the event that grading, trenching, utility work, or storage is unavoidable within the TPPZ, the Engineer shall be notified. Measures may be required for tree protection and preservation, including air spading; the use of six (6) inch depth of wood chips or approved matting for root protection; pruning of branches; and/or trunk protection. These protection measures shall be paid under applicable contract items.

Landscaping work specified within the TPPZ shall be accomplished by hand tools. Where handwork is not feasible, with permission of the Engineer, work shall be conducted with the smallest mechanized equipment necessary.

**TREE AND PLANT INJURY OR LOSS**

If the TPPZ is encroached by construction activity without approval, at the discretion of the Engineer, the Contractor may be required to provide a more durable barrier (e.g., Jersey Barriers, chain link fence (if not already in use) to secure the area. Costs of furnishing and installing additional or more durable barrier(s) shall be borne by the Contractor.

In such cases of encroachment, soils shall be considered compacted and tree root injury will be assumed. Action shall be taken as specified below.

**ITEM 102.521** (Continued)

In the event that trees designated for protection under this item are injured, including root injury from unapproved trespassing onto the root zone, the Contractor shall, at his own expense, secure the services of an Arborist, described under Item 102.55. The Arborist shall be approved by MassDOT.

In the event of spills, compaction or injury, the Contractor shall take corrective action immediately using methods approved by the Engineer, in coordination with the Arborist.

If, based on the recommendations of the Arborist, the Engineer determines that injuries can be remedied by corrective measures, such as repairing trunk or limb injury, soil compaction remediation, pruning, and/or watering; the injury shall be repaired as soon as possible, within the appropriate season for such work, and according to industry standards.

If, based on the recommendations of the Arborist, the Engineer determines that injuries are irreparable, or that the injuries are such that the tree is sufficiently compromised to pose a future safety hazard, the tree shall be removed. Tree removal shall include cleanup of all wood, grinding of the stump to a depth sufficient to plant a replacement tree or plant, removal of all chips from the stump site, and filling the resulting hole with topsoil. Such tree removal(s), grinding, debris removal, and filling, shall be at the Contractor's expense.

Tree removal from improper or inadequate protection of the TPPZ shall result in the Engineer assessing the Contractor monetary damages consistent with industry standards for assessed value and/or replacement.

Shrubs removals from improper or inadequate protection of the TPPZ shall be replaced with plants of similar species and equal size or the largest size plants reasonably available. The Engineer shall approve the size, quality, and quantity of the replacement plant(s). Each replacement shall include a minimum of one year of watering and establishment care, specified under Subsection 771.

**METHOD OF MEASUREMENT AND BASIS OF PAYMENT**

Tree and Plant Protection Fence will be measured by the FOOT, complete in place, by the length along the top of the fence.

Tree and plant protection fence will be paid for under the contract unit price per FOOT, complete in place and shall include all materials, labor, and equipment required to furnish, install, anchor, maintain, and remove the fence upon completion, as described herein. Posts, temporary footings, anchoring and removal upon completion, shall be incidental to this item.

No separate payment will be made for costs of remedial actions, including addition of more durable barriers, Arborist services, tree or plant removal, shrub replacement and establishment, but all costs in connection therewith shall be included in the Contract unit price bid.

**ITEM 102.521** (Continued)

Tree damages assessed, due to lack of or improper tree and plant protective measures being taken, shall be deducted from the contract price of the work.

Payment for work under this item will be scheduled as follows:

- Forty (40) percent of the value payment will be made upon installation of fencing.
- Sixty (60) percent of the value payment will be made when fencing materials have been maintained to function as specified, for the intended duration, and removed and disposed off-site at the completion of protection measure requirement.

**ITEM 102.55****ARBORIST****HOUR****DESCRIPTION**

The work under this Item is for the services of a Certified Arborist. Arborist shall be an International Society of Arboriculture (ISA) Certified Arborist or a Massachusetts Certified Arborist. The Arborist shall have at least 10 years of experience in tree care, including tree protection during construction, and shall demonstrate a familiarity with the American National Standards Institute (ANSI) A300 Standard Practices for Tree, Shrub, and Other Woody Plant Maintenance Part 1 Pruning, Part 5 Construction Management Standards, and Part 9 Tree Risk Assessment.

The Arborist's general responsibilities include protecting high priority trees within and adjacent to the project limits, stating areas, and access routes; recommending removal of diseased, damaged or otherwise unhealthy trees that pose a potential safety hazard; evaluating effects of construction on future health of trees close to proposed work; and recommending and/or overseeing tree work and care.

The Arborist for this item shall not be from the same company as the company responsible for selective clearing or tree removal work.

For projects with multiple phases, projects where construction activities (work or stockpiling) shifts, or when otherwise directed by the Engineer, the Arborist shall re-evaluate conditions and provide follow-up recommendations.

**SUBMITTALS**

- A. Contractor shall submit to the Engineer for approval by MassDOT Landscape Design the qualifications and experience of the Arborist. Submittal shall include copy of current certification and a resume summarizing specific construction experience (including relevant MassDOT projects) for a minimum of five projects.
- B. Arborist's Report documenting recommendations shall be submitted to the Engineer and an electronic copy forwarded to MassDOT Landscape Design Section. Report shall include the following:

**SCOPE OF WORK**

The Arborist shall be responsible for the following tasks:

- Initial Evaluation and Report
  - review and modify, if necessary, tree protection measures shown on the drawings
  - review and mark limits of protective fencing for trees and groups of trees to be retained;
  - review and recommend protection measures for high priority trees;
  - submit a marked-up Construction Plan that briefly notes recommendations and decisions made in the field;
  - submit a corresponding report including photo documentation;
- Oversight
  - direct or execute pruning of branches and/or roots, air spading, and/or other tree care operations

**ITEM 102.55** (Continued)**METHODS**

Prior to any work, the Arborist shall walk the site with the Contractor, the Engineer, the Town Tree Warden, and, if specified, the MassDOT Landscape Architect, to review trees, limits of construction activities, and other concerns. Where required for proper assessment of tree impacts, limits of work shall be staked or otherwise marked in the field prior to the site walk.

Trees to be removed shall be painted or otherwise marked.

Trees to be retained shall be marked such that it does not mar or damage the tree and such that marker is not easily removed. As applicable to the work and scope of the project, trees designated for removal or to be retained shall be noted on the plan and/or in the arborist's report and photographed.

Trees designated to remain that are damaged or removed by construction activities shall be noted and photographed for inclusion in inspection reports submitted to the Engineer.

**MEASUREMENT AND BASIS OF PAYMENT**

Item 102.55 will be measured for payment by the Hour of time spent onsite.

Item 102.55 will be paid at the contract unit price per hour upon submittal and acceptance of the reports described above.

**ITEM 153.            CONTROLLED DENSITY FILL - EXCAVATABLE            CUBIC YARD**

Work under this Item shall conform to the relevant provisions of Subsection 150 of the Standard Specifications and the following:

Controlled density fill (CDF) shall be used under the control of the Engineer.

Controlled density fill material shall conform to Section M4.08.0. Controlled Density Fill and shall be Type 1E – Very Flowable (Excavatable).

This item shall be used in drainage and conduit trench crossings located within the roadway as required by the Engineer when compaction using conventional methods is unusually difficult as determined by the Engineer due to obstructions.

Controlled Density Fill shall be placed within the specified limits as directed by the Resident Engineer.

Controlled Density Fill when placed in direct contact with water pipe as directed by the Engineer shall be encased with polyethylene wrap.

**METHOD OF MEASUREMENT**

Item 153. Controlled Density Fill – Excavatable, will be measured for payment per cubic yard of material complete in place within the specified limits as directed.

**BASIS OF PAYMENT**

Item 153. shall be paid at the Contract unit price per Cubic Yard of material, complete in place, which price shall include all material, labor, equipment, and incidental costs required to complete the work as described and as required by the Engineer.

**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****HOURLY**

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 Department 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 through 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).

<b><u>ITEM 181.11</u></b>	<b><u>DISPOSAL OF UNREGULATED SOIL</u></b>	<b><u>TON</u></b>
<b><u>ITEM 181.12</u></b>	<b><u>DISPOSAL OF REGULATED SOIL – IN-STATE FACILITY</u></b>	<b><u>TON</u></b>
<b><u>ITEM 181.13</u></b>	<b><u>DISPOSAL OF REGULATED SOIL – OUT-OF-STATE FACILITY</u></b>	<b><u>TON</u></b>
<b><u>ITEM 181.14</u></b>	<b><u>DISPOSAL OF HAZARDOUS WASTE</u></b>	<b><u>TON</u></b>

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:

**ITEMS 181.11 through 181.14 (Continued)**

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).

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.

**ITEMS 181.11 through 181.14 (Continued)**

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. 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.

**ITEMS 181.11 through 181.14 (Continued)**

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.

**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.

**ITEMS 181.11 through 181.14 (Continued)****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.

**ITEM 182.1****INSPECTION AND TESTING FOR  
ASBESTOS****LUMP SUM**

The work shall include the inspecting and testing of all materials suspected of containing asbestos. When any demolition is required to enable the inspection and testing of the suspected material it will be considered incidental to this Item and the Contractor must perform all asbestos handling and testing in accordance with the regulations stated below.

Dust suppression in the form of light water sprays, foams, dust suppressants and calcium chloride will be implemented as required to control dusting during any disturbance of asbestos suspected material. Alternatively, intrusive activities may be reduced or curtailed under high wind or heavy rain conditions, which in the opinion of the Health And Safety Plan (HASP) may pose a safety hazard to the workers.

The Contractor shall employ the services of a Massachusetts licensed "Asbestos Inspector" to inspect the material to determine whether or not "ITEM 182.2 REMOVAL OF ASBESTOS" is required. Should the asbestos inspector determine laboratory testing is required, a state certified laboratory shall be used to perform all necessary tests.

**REGULATIONS**

U.S. Department of Labor, Occupational Safety and Health Administration, (OSHA) including but not limited to:

- 29 CFR 1910 Section 1001 and 29 CFR 1926 Section 58 Occupational exposure to Asbestos, Tremolite, Anthophyllite and Actinolite, Final Rule
- 29 CFR 1910 Section 134 Respiration Protection
- 29 CFR 1926 Construction Industry
- 29 CFR 1910 Section 2 Access to Employee Exposure and Medical Records
- 29 CFR 1910 Section 1200 Hazard Communication
- 29 CFR 1910 Section 145 Specifications for Accident Prevention Signs and Tags

U.S. Environmental Protection Agency, (EPA) including but not limited to:

- 40 CFR 762, CPTS 62044, FRL 2843-9, Federal Register Vol. 50 no.134, July 12, 1985 p.28530 - 28540 Asbestos Abatement Projects Rule
- 40 CFR 61 Subpart A Regulation for Asbestos
- 40 CFR 61 Subpart M (Revised Subpart B) National Emission Standard for Asbestos

**ITEM 182.1**(Continued)

U.S. Department of Transportation 49 CFR 172 and 173

Massachusetts Department of Labor Standards Regulations, (DLS) including but not limited to:

453 CMR 6.00 Removal, Containment and Encapsulation of Asbestos

Massachusetts Department of Environmental Protection (DEP) including but not limited to (supplementing Subsection 7.01):

310 CMR 7.00, Section 7.09 Odor and Dust, Section 7.10 Noise, Section 7.15 Air Pollution Control Regulations

310 CMR 18.00 and 19.00 Solid Waste Regulations

Massachusetts Division of Industrial Safety 45 CMR 10.00

Local Requirements including but not limited to those of Health Departments, Fire Departments and Inspection Services Departments

Wherever there is a conflict or overlap of the above references, the most stringent provision shall apply.

**BASIS OF PAYMENT**

Item 182.1 will be paid for at the Contract unit price per Lump Sum, which price shall include all labor, materials, tools, equipment, and all incidental costs required to complete the work as described and as required by the Engineer.

No separate payment will be made for the protection of general public, private property, the proper inspecting and testing of the material, but all costs in connection therewith shall be included in the Contract unit price bid.

**ITEM 182.2****REMOVAL OF ASBESTOS****FOOT**

The work shall include the removal and satisfactory disposal of existing asbestos. The Contractor's attention is directed to the fact that existing asbestos shall be inspected and tested prior to removal, to determine if special removal and disposal is required. The Contractor shall follow all the rules and regulations stated in "ITEM 182.1 INSPECTION AND TESTING FOR ASBESTOS". If asbestos is present, the Contractor shall follow all the rules and regulations stated in the section "REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING MATERIALS", under this item. The Contractor should notify and coordinate his/her efforts with the proper utility accordingly.

**REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING MATERIALS**

This section specifies the requirements for the handling and removal of asbestos containing material. The Contractor must perform all asbestos handling and removal work in accordance with these specifications and the following additional requirements.

U.S. Department of Labor, Occupational Safety and Health Administration, (OSHA) including but not limited to:

- 29 CFR 1910 Section 1001 and 29 CFR 1926 Section 58 Occupational exposure to Asbestos, Tremolite, Anthophyllite and Actinolite, Final Rule
- 29 CFR 1910 Section 134 Respiration Protection
- 29 CFR 1926 Construction Industry
- 29 CFR 1910 Section 2 Access to Employee Exposure and Medical Records
- 29 CFR 1910 Section 1200 Hazard Communication
- 29 CFR 1910 Section 145 Specifications for Accident Prevention Signs and Tags

U.S. Environmental Protection Agency, (EPA) including but not limited to:

- 40 CFR 762, CPTS 62044, FRL 2843-9, Federal Register Vol. 50 no.134, July 12, 1985 p.28530 - 28540 Asbestos Abatement Projects Rule
- 40 CFR 61 Subpart A Regulation for Asbestos
- 40 CFR 61 Subpart M (Revised Subpart B) National Emission Standard for Asbestos

U.S. Department of Transportation 49 CFR 172 and 173

Massachusetts Department of Labor Standards, (DLS including but not limited to:

- 454 CMR 28.00 Removal, Containment and Encapsulation of Asbestos

Massachusetts Department of Environmental Protection (DEP) including but not limited to (supplementing Subsection 7.01):

- 310 CMR 7.00, Section 7.09 Odor and Dust, Section 7.10 Noise, Section 7.15 Air Pollution Control Regulations
- 310 CMR 18.00 and 19.00 Solid Waste Regulations

Massachusetts Division of Industrial Safety 45 CMR 10.00

**ITEM 182.2** (Continued)

Local Requirements including but not limited to those of Health Departments, Fire Departments and Inspection Services Departments

Wherever there is a conflict or overlap of the above references, the most stringent provision shall apply.

All asbestos material shall be removed and properly disposed of by a contractor or subcontractor with a current Massachusetts Abatement Contractors License issued by the Department of Labor Standards. Work shall be supervised by a competent person as required by OSHA in 29 CFR 1926 to ensure regulatory compliance. This person must have completed a course at an EPA Training Center or equivalent course in asbestos abatement procedures, have had a minimum of four years on-the-job training and meet any additional requirements set forth in 29 CFR 1926 for a Competent Person. This person must also be certified by the Commonwealth as an Asbestos Supervisor and Asbestos Project Designer as required by 454 CMR 28.00.

Asbestos removal work shall be coordinated with all other work under the contract and shall be completed prior to performing any activities which could disturb the asbestos material or produce airborne asbestos fibers.

Dust suppression in the form of light water sprays, foams, dust suppressants and calcium chloride will be implemented as required to control dusting during trenching and excavation. Alternatively, intrusive activities may be reduced or curtailed under high wind or heavy rain conditions, which in the opinion of the Health and Safety Plan (HASP) may pose a safety hazard to the workers.

**NOTIFICATION AND PERMITS**

The Contractor shall prepare a formal pre-notification form at least ten (10) days prior to the start of asbestos removal work. This form must be submitted to the appropriate Regional Office of the Massachusetts Department of Environmental Protection and to the U.S. Environmental Protection Agency Region I Air and Hazardous Material Division. A copy of the submitted forms must be provided to the Engineer and kept at the work site.

Prior to starting any work, the Contractor shall also obtain any required asbestos removal permit(s) from the city/town. A copy of the permit(s) must be provided to the Engineer and posted at the work site.

The Contractor shall also obtain and pay all other applicable asbestos waste transportation and disposal permits, licenses and fees.

**STANDARD OPERATING PROCEDURES**

The standard operating procedure shall ensure the following:

1. Proper site security including posting of warning signs and restricting access to prevent unauthorized entry into the work spaces.
2. Proper protective clothing and respiratory protection prior to entering the work spaces.

**ITEM 182.2** (Continued)

3. Safe work practices including provisions for communications; exclusion of eating, drinking, smoking, or use of procedures or equipment that would in any way reduce the effectiveness of respiratory protection or other engineering controls.
4. Proper exit practices from the work space through the showering and decontamination facilities.
5. Removing asbestos containing material in ways that minimize release of fibers.
6. Packing, labeling, loading, transporting and disposing of contaminated material in a way that minimizes or prevents exposure and contamination.
7. Emergency evacuation of personnel, for medical or safety (fire and smoke) so that exposure will be minimized.
8. Safety from accidents in the work space, especially from electrical shocks, slippery surfaces and entanglements in loose hoses and equipment.
9. Provisions for effective supervision and OSHA - specified personnel air monitoring for exposure during work.

**REQUIRED SUBMITTALS**

The Contractor shall submit to the Engineer the following listed items at least ten (10) calendar days prior to the start of asbestos work. No asbestos removal work activities shall commence until these items are reviewed by the Engineer, unless otherwise waived. Submittals shall be clearly labeled and in sufficient detail to enable the Engineer to form an opinion as to its conformity to the specifications.

1. Name, experience and DLS certification of proposed Supervisors and Foreman responsible for asbestos work.
2. Summary of workforce by disciplines and a notarized statement documenting that all proposed workers, by name, have received all required medical exams and have been properly trained and certified for asbestos removal work, respirator use and appropriate Massachusetts DLS, EPA and OSHA standards.
3. Notarized statement that workers are physically fit and able to wear and use the type of respiratory protection proposed for the project. Notarized certification signed by an officer of the abatement contracting firm that exposure measurements, medical surveillance and worker training records are being kept in conformance with 29 CFR 1926.



**ITEM 182.2** (Continued)

4. Written plan of action and standard operating procedures (HASP) to include: location and layout of decontamination areas; sequencing of asbestos work; detailed schedule of work activities by date and interface with other project activities which affect work performance; methods used to assure safety and security; worker protection and exposure monitoring; contingency and emergency evacuation procedures; detailed description of methods to be employed to control pollution; waste handling procedures.
5. Written respiratory protection program specifying level of protection intended for each operation required by the project and details of daily inspection and maintenance elements.
6. Copies of the U.S. EPA, State and local asbestos removal pre-notification forms. If applicable, lists and copies of all permits, licenses, or manifests which will be applied for and used.
7. Name, location and applicable approval certificates for primary and secondary landfill for disposal of asbestos-containing or asbestos contaminated waste. Name, address and license number(s) of hauler permitted to transport waste. (Submit copies of completed manifests upon disposal).

The Contractor must provide copies of daily inspection and record logs upon request of the Engineer, at any time during project. This information will include but is not limited to work area entry data, respirator inspections and maintenance, HEPA-exhaust inspections and maintenance and other work applicable activities or reports of accidents or unusual events.

**METHOD OF MEASUREMENT:**

Item 182.2 will be measured by the FOOT for the complete removal and disposal of the asbestos containing material.

**BASIS OF PAYMENT:**

Item 182.2 will be paid for at the Contract unit price per FOOT, which price shall include all labor, materials, tools, equipment, and all incidental costs required to complete the work specified above and as required by the Engineer.

No separate payment will be made for the protection of general public, private property, the proper inspecting and testing of the material, but all costs in connection therewith shall be included in the Contract unit price bid.

**ITEM 204****GUTTER INLET****EACH**

The work under this item shall conform to the relevant provisions of Subsection 201 of the Standard Specifications and the following:

Gutter Inlet shall be constructed to the line and grade as shown on the plans or as required by the Engineer.

Gutter Inlets shall be placed on a bedding foundation of 6 inches crushed stone as approved by the Engineer to stabilize the foundations in accordance with Subsection 150.68. Excavation shall be included in the cost of the structure.

**METHOD OF MEASUREMENT**

Item 204 will be measured for payment per Each gutter inlet installed complete in place regardless of depth and approved.

**BASIS OF PAYMENT**

Item 204 will be paid at the contract unit price, per each, in which the price shall include all labor, material, equipment and incidental costs required to complete the work.

Compensation for crushed stone bedding will be measured by the ton under Item 156.

No separate payment will be made for excavation regardless of depth, but all costs in connection therewith shall be included in the Contract unit bid price.

**ITEM 220.8****SANITARY STRUCTURE REMODELED****EACH**

The Work under this item shall conform to the relevant provisions of Subsection 220 of the Standard Specifications and the following:

The work under this Item consists of remodeling municipality sanitary structures when the line or grade or both the line and grade of the structure changes by more than 6 inches to the proposed lines and grades as shown on the drawings or as required by the Engineer.

The Contractor shall contact the Town of Longmeadow Public Works & Utilities a minimum of 48 hours prior to performing any work on the sanitary structures.

Existing castings shall be retained unless determined by the Engineer to unsuitable for reuse. Work shall include remodeling existing sanitary structures, including brick and mortar, concrete collar and frames to allow the frame to be set to the proposed line and grade. All associated work shall conform to the Municipality's requirements.

**METHOD OF MEASUREMENT**

Item 220.8 will be measured for payment in place per Each sanitary structure remodeled, complete and approved.

**BASIS OF PAYMENT**

Item 220.8 will be paid at the contract unit price, per each, in which the price shall include all labor, material, equipment and incidental costs required to complete the work.

**ITEM 223.1****FRAME AND GRATE (OR COVER)  
REMOVED AND STACKED****EACH**

The work under this Item shall conform to the relevant provisions of Subsection 220 of the Standard Specifications, and the following:

Work under this item shall also include the removing and stacking of castings that are within the roadway surface prior to the pavement reconstruction operation and also stacking of existing castings that are to be permanently removed from the project as called out on the plans.

The existing castings on all drainage manholes, sewer manholes and catch basins that are within the designated pavement milling operation area shall be removed and stacked within the project limits. Existing castings will not be stored along the edge of the road. No additional compensation will be allowed for transportation or temporary storage of the castings.

For rebuilt/remodeled structures within the milled limits, these will have their castings stacked under 223.1.

Castings on Town structures called on the plans as **ADJ.** (Adjusted) that are not suitable for reuse as determined by the Engineer shall be removed and stacked under Item 223.1 and shall remain the property of the Town and transported to the former DPW facility at 31 Pondside Road.

**METHOD OF MEASUREMENT**

Item 223.1 will be measured for payment by the unit Each. Each frame and grate or frame and cover will be measured as one unit Each.

**BASIS OF PAYMENT**

Item 223.1 will be paid at the contract unit price, per each, in which the price shall include all labor, material, equipment, transportation, offloading, stacking and incidental costs required to complete the work.

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**ITEM 271.12    12 INCH AND UNDER PIPE REMOVED AND DISCARDED                      FOOT**

The work under this item shall conform to the relevant provisions of Sections 140, 150 and 270 of the Standard Specifications and the following:

The work shall consist of removing and discarding existing utility pipe that is 12 inches in diameter and under as required and as designated on the Plans to be removed and are located outside the pay limits of excavation required under other items of Work.

Pipes removed and discarded, as directed, will be measured in place as the actual length of pipe removed and discarded.

Trench excavation greater than a depth of 5.0 feet and rock excavation will be measured as specified in Subsection 140.80 for Class B Trench Excavation and Class B Rock Excavation, respectively.

Removal of drain lines shown on the Plans to be existing within the same trench limits as proposed drain lines shall be removed as incidental work when proposed drain lines are relocated for the convenience of the Contractor.

Backfill and compaction for trenches 5.0 feet or less in depth shall be included in the work. Backfill for the part of a trench which is more than 5.0 feet in depth shall be included in the item for Class B Trench Excavation.

If borrow material is used for backfilling, it will be paid for at the contract unit price per cubic yard of the kind of borrow required.

Existing utility pipes designated on the plans to be removed and are located within the excavation limits of other work shall be considered incidental to that item of work. Over excavation required for trenches 5.0 feet or less in total depth shall be measured under Item 141. Class A Trench Excavation. Over excavation for trenches more than 5.0 feet in total depth shall be measured under Item 142. Class B Trench Excavation.

**METHOD OF MEASUREMENT**

Item 271.12 will be measured in place by the foot.

**BASIS OF PAYMENT**

Item 271.12, 12 inch and under pipe removed and stacked will be paid for at the Contract unit price per foot, which price shall include all labor, materials, equipment and incidental costs required to complete the work.

Item 271.12 will be measured for payment in accordance with Subsection 270.80.

Item 271.12 will be paid at the Contract unit price per foot of 12 Inch and Under Pipe Removed and Discarded, which price shall include all labor, materials, equipment, existing utility support and incidental costs required to complete the work.

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<b><u>ITEM 482.4</u></b>	<b><u>SAWCUTTING PORTLAND CEMENT CONCRETE</u></b>	<b><u>FOOT</u></b>
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The work under this item shall conform to the relevant provisions of Section 482 of the Standard Specifications and the following:

The work shall consist of sawcutting the existing concrete (trolley) pavement structure in conformity to the details shown on the Plans or as required by the Engineer.

**METHOD OF MEASUREMENT**

Item 482.4 will be measured for payment per Foot along the cutline regardless of the number of passes.

**BASIS OF PAYMENT**

Item 482.4 will be paid for at the contract unit price per Foot, which price shall constitute full all labor, materials, equipment and all other incidental costs for the proper completion of the work.

**ITEM 697.1****SILT SACK****EACH**

Work under this item shall conform to the relevant provisions of Subsections 227 and 670 of the Standard Specifications and the following:

The work under this item includes the furnishing, installation, maintenance and removal of a reusable fabric sack to be installed in drainage structures for the protection of wetlands and other resource areas and the prevention of silt and sediment from the construction site from entering the storm water collection system. Devices shall be ACF Environmental (800)-448-3636; Reed & Graham, Inc. Geosynthetics (888)-381-0800; The BMP Store (800)-644-9223; or approved equal.

**CONSTRUCTION**

Silt sacks shall be installed in retained existing and proposed catch basins and drop inlets within the project limits and as required by the Resident Engineer.

The silt sack shall be as manufactured to fit the opening of the drainage structure under regular flow conditions, and shall be mounted under the grate. The insert shall be secured from the surface such that the grate can be removed without the insert discharging into the structure. The filter material shall be installed and maintained in accordance with the manufacturer's written literature and as directed by the Engineer.

Silt sacks shall remain in place until the placement of the pavement overlay or top course and the graded areas have become permanently stabilized by vegetative growth. All materials used for the filter fabric will become the property of the Contractor and shall be removed from the site.

The Contractor shall inspect the condition of silt sacks after each rainstorm and during major rain events. Silt sacks shall be cleaned periodically to remove and dispose of accumulated debris as required. Silt sacks, which become damaged during construction operations, shall be repaired or replaced immediately at no additional cost to the Department.

When emptying the silt sack, the contractor shall take all due care to prevent sediment from entering the structure. Any silt or other debris found in the drainage system at the end of construction shall be removed at the Contractor's expense. The silt and sediment from the silt sack shall be legally disposed of offsite. Under no condition shall silt and sediment from the insert be deposited on site and used in construction.

All curb openings shall be blocked to prevent stormwater from bypassing the device.

All debris accumulated in silt sacks shall be handled and disposed of as specified in Section 227 of the Standard Specifications

**COMPENSATION**

Silt sacks will be measured and paid at the Contract unit price per each, complete in place, which price shall include all labor, materials, equipment and incidental costs required to complete the work. No separate payment will be made for removal and disposal of the sediment from the insert, but all costs in connection therewith shall be included in the Contract unit price bid.

**ITEM 701.2**    **CEMENT CONCRETE PEDESTRIAN CURB RAMP**    **SQUARE YARD**

The work under this Item shall conform to the relevant provisions of Subsection 701 of the Standard Specifications and the following:

Detectable Tactile warning surface color shall be “brick red”.



**ITEM 740. ENGINEER'S 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 system 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
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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 756.****NPDES STORM WATER POLLUTION  
PREVENTION PLAN****LUMP SUM**

This Item addresses the preparation and implementation of a Storm Water Pollution Prevention Plan required by the National Pollutant Discharge Elimination System (NPDES) and applicable Construction General Permit (CGP) issued by the U.S. Environmental Protection Agency (EPA).

Pursuant to the Federal Clean Water Act, construction activities which disturb one acre or more are required to apply to the EPA for coverage under the NPDES General Permit for Storm Water Discharges from Construction Activities. The Contractor shall be fully responsible for compliance with the most recently issued CGP and any subsequent revisions. Should a fine or damages be assessed against it, or MassDOT, as a result of a local, state, or federal enforcement action due to non-compliance with the CGP, the Contractor shall take full responsibility.

The NPDES CGP requires the submission of a Notice of Intent (NOI) to the EPA prior to the start of construction (defined as any activity which disturbs land, including clearing and grubbing). There is a fourteen (14) day review period commencing from the date on which EPA enters the Notice into their database. Based on the review of the NOI, EPA may require additional information, including but not limited to, the submission of the Storm Water Pollution Prevention Plan (SWPPP) for review. Work may not commence on the project until final authorization has been granted by EPA. Any additional time required by EPA for review of submittals will not constitute a basis for claim of delay.

In addition, if the project discharges to an Outstanding Resource Water, vernal pool, or is within a coastal ACEC as identified by the Massachusetts Department of Environmental Protection (DEP), a separate notification to DEP is required. DEP may also require submission of the Storm Water Pollution Prevention Plan for review and approval. Filing fees associated with the notification to DEP and, if required, the SWPPP filing to DEP shall be paid by the Contractor.

The CGP also requires the preparation and implementation of a SWPPP in accordance with the afore-mentioned statutes and regulations. The Plan will include the CGP conditions and detailed descriptions of controls of erosion and sedimentation to be implemented during construction. The contractor shall prepare the SWPPP and update it as necessary. The Contractor shall submit the Plan to the Engineer for approval at least four (4) weeks prior to any site activities. It is the responsibility of the Contractor to comply with the CGP conditions and the conditions of any state Wetlands Protection Act Order, Water Quality Certification, Corps of Engineers Section 404 Permit and other environmental permits applicable to the project and to include in the SWPPP the methods and means necessary to comply with applicable conditions of said permits.

It is the responsibility of the Contractor to complete the SWPPP in accordance with the EPA CGP, provide all information required, and obtain any and all certifications as required by the CGP. Any amendments to the SWPPP required by site conditions, schedule changes, revised work, regulations, construction methodologies, and the like are the responsibility of the Contractor. Amendments will require the approval of the Engineer prior to implementation.

**ITEM 756.** (Continued)

In addition to the CGP requirements for inspections, MassDOT requires inspection of all erosion controls and site conditions on a weekly basis. Inspections are also required at portions of sites that discharge to sediment or nutrient impaired or high quality waters per the CGP when each incidence of rainfall exceeding 0.25 inches in twenty-four hours or after snowmelt discharge from a storm event that produces 3.25 inches or more of snow within twenty-four hours occurs. The CGP requires that inspections be performed by a qualified individual as outlined in the CGP. MassDOT requires proof of completion of a 4 hour minimum sedimentation and erosion control training class current to the latest CGP. This individual can be, but not limited to, someone that is either a certified inspector, certified professional, or certified storm water inspector. The documentation shall be included as an appendix in the SWPPP. The inspector's qualifications shall be submitted to the Engineer for approval prior to beginning any work. This individual shall be on-site during construction to perform these inspections. In addition, if the Engineer determines at any time that the inspector's performance is inadequate, the Contractor shall provide an alternate inspector. Written weekly inspection forms, storm event inspection forms, and Monthly Summary Reports must be completed and provided to the Engineer. Monthly Summary Reports must include a summary of construction activities undertaken during the reporting period, general site conditions, erosion control maintenance and corrective actions taken, the anticipated schedule of construction activities for the next reporting period, any SWPPP amendments, and representative photographs.

The Contractor is responsible for preparation of the Plan, all SWPPP certifications, inspections, reports and any and all corrective actions necessary to comply with the provisions of the CGP. The Standard Specifications require adequate erosion control for the duration of the Contract. All control measures must be properly selected, installed, and maintained in accordance with manufacturer specifications and good engineering practices. If periodic inspections or other information indicates a control has been used inappropriately or is no longer adequate, it is the responsibility of the Contractor to replace or modify the control for site conditions at no additional cost to the Department. Contractor must maintain all control measures and other protective measures in effective operating conditions and shall consider replacement of erosion controls for each construction season.

The work under this item shall also include the preparation, submission and implementation of a Flood Contingency Plan. The plan shall address the potential need for the temporary relocation of construction and auxiliary equipment situated within the 1% annual chance of flooding zone to designated upland locations above the Base Flood Elevation during flood events. The Flood Contingency Plan shall address any additional MassDEP-required information requirements, as applicable. The Flood Contingency Plan shall be submitted to the Engineer for review and approval at the same time as the SWPPP.

This Item addresses acceptable completion of the SWPPP, any revisions/amendments required during construction, preparation of monthly reports and Flood Contingency Plan. In addition, any erosion controls beyond those specified in bid items which are selected by the

**ITEM 756.** (Continued)

Contractor to facilitate and/or address the Contractor's schedule, methods and prosecution of the work shall be considered incidental to this item.

The CGP provides specific requirements for temporary and final stabilization. This shall be incorporated into the project schedule. The permit defines specific deadline requirements for Initial Stabilization ("immediately", i.e., no later than the end of the next work day following the day when earth-disturbing activities have temporarily or permanently ceased) and for Complete Stabilization Activities (no later than 14 calendar days after the initiation of stabilization). Stabilization criteria for vegetative and non-vegetative measures are provided in the CGP.

The CGP requires the submission of a Notice of Termination (NOT) from all operators when final stabilization has been achieved, as well as removal and proper disposal of all construction materials, waste and waste handling devices, removal of all equipment and construction vehicles, removal of all temporary stormwater controls, etc. Approval of final stabilization by the Engineer and confirmation of submission of the NOT will be required prior to submission of the Resident Engineer's Final Estimate. The permittee shall use EPA's website to prepare and submit the NOT.

**BASIS OF PAYMENT**

Item 756 will be paid for at the Contract unit price Lump Sum, which price shall include all labor, materials, equipment, SWPPP & Flood Contingency Plan preparation, revisions/addenda during construction, monthly reports, filing fees, and all incidental costs required to complete the work.

Payment of 50% of the Lump Sum price of this item will be made upon acceptance of the NPDES Stormwater Pollution Prevention Plan & Flood Contingency Plan.

Payment of 40% of the Lump Sum price of this item will be will be paid in equal monthly installments distributed across the time remaining in the accepted baseline schedule until substantial completion.

The remaining 10% of the Lump Sum price of this Item will be paid following accepted submission of a Notice of Termination (NOT) when final stabilization has been achieved.

**ITEM 811.251****ELECTRIC HANDHOLE-17 X 30 INCHES****EACH**

The work under this Item shall conform to the relevant provisions of Subsection 801 of the Standard Specifications and shall consist of the furnishing and installation of polymer concrete electric handhole boxes for street lighting fixtures. Eversource Electric must approve the item for use in addition to the Engineer via the submittal process.

**SUBMITTALS**

1. The Contractor shall submit product details of the item showing nominal size and finish to the Engineer within 30 days of Notice To Proceed.
2. The contractor shall submit the qualifications of a licensed electrician installer in Massachusetts with 3 year of experience with similar outdoor installations.

**MATERIALS**

Precast polymer concrete electric handhole box of nominal dimensions 17"W x 30"L x 18"D complete with fastener accessories. Item 811.251 shall be traffic rated. The item shall be top opening. Acceptable examples are made by the following manufacturers, or the item may be sourced from an approved equal by the Engineer and Eversource Electric.

The following manufacturers are suitable:

Highline by Oldcastle Infrastructure Avon, CT 1(860)673-3291 <a href="http://www.oldcastleinfrastructure.com">www.oldcastleinfrastructure.com</a>	CDR Ormond Beach, FL 386-615-9606 <a href="http://www.cdrsistemas.com">www.cdrsistemas.com</a>	Quazite by Hubbell Power Systems Centralia, MO 573-682-5521 <a href="https://www.hubbell.com/hubbellpowersystems/en/hps-brands/quazite">https://www.hubbell.com/hubbellpowersystems/en/hps-brands/quazite</a>
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**CONSTRUCTION METHODS**

The contractor shall conform to the relevant provisions of Subsection 801 and the manufacturer's installation specifications. All work shall be compliant with the National Electrical Code and all applicable state and local electrical codes.

**METHOD OF MEASUREMENT**

Item 811.251 will be measured for payment by Each electric handhole 17 inch by 30 inch, installed, complete in place.

**ITEMS 811.251** (Continued)**BASIS OF PAYMENT**

Item 811.251 will be paid for at the Contract unit price per Each, which price shall include all labor, materials, tools, equipment, and all incidental costs required to complete the work.

Conduit will be paid for separately under Item 804.3.

Separate measurement for wire will not be made but shall be considered incidental to the item of work to which it pertains.

**ITEM 812.09**                      **LIGHT STANDARD FOUNDATION PRECAST**                      **EACH**

The work under this Item shall conform to the relevant provisions of Subsections 801 and 901 of the Standard Specifications and the following:

The work shall consist of furnishing and installing new precast light standard foundations in place per the plans and details. The top shall have a 3/4"-inch chamfer.

**MATERIALS**

- M4.02.00 Cement Concrete
- M8.01.0 Steel Reinforcement

The contractor source materials from manufacturers included on MassDOT's Qualified Construction Materials List (QCML) found at <https://www.mass.gov/lists/qualified-construction-materials-list-qcml>

Cement concrete mix for Light Standard Foundations, Precast shall be 4,000 PSI, 610.

**METHOD OF MEASUREMENT**

Item 812.09 will be measured for payment by Each light precast foundation furnished and installed, complete in place.

**BASIS OF PAYMENT**

Item 812.09 will be paid for at the Contract unit price per Each, which price shall include all labor and materials, excavation, compaction and backfill to furnish and install precast light pole foundations including all reinforcing rods, conduit elbows or sweeps, etc and hoops as shown on the Standard Drawings, and per the recommendations of the manufacturer's Structural Engineer.

<b><u>ITEM 816.01</u></b>	<b><u>TRAFFIC SIGNAL RECONSTRUCTION</u></b> <b><u>LOCATION NO. 1</u></b>	<b><u>LUMP SUM</u></b>
<b><u>ITEM 816.02</u></b>	<b><u>TRAFFIC SIGNAL RECONSTRUCTION</u></b> <b><u>LOCATION NO. 2</u></b>	<b><u>LUMP SUM</u></b>
<b><u>ITEM 816.03</u></b>	<b><u>TRAFFIC SIGNAL RECONSTRUCTION</u></b> <b><u>LOCATION NO. 3</u></b>	<b><u>LUMP SUM</u></b>

The work under these items shall conform to the relevant provisions of Sections 800 and 900 of the Standard Specifications, The 2009 Manual On Uniform Traffic Control Devices, with Revisions 1, 2, and 3 and the November 2022 Massachusetts Amendments to the MUTCD, Engineering Directive E-16-001, The *Overhead Signal Structure & Foundation Standard Drawings*, dated December 2015, and the following:

The work shall include the installation of new traffic control signals and traffic equipment at the following intersections:

- Location No. 1: Longmeadow Street and Forest Glen Road (*Signal Reconstruction*)  
Location No. 2: Longmeadow Street and Converse Street (*Signal Reconstruction*)  
Location No. 3: Converse Street and Laurel Street (*Signal Reconstruction*)

Work includes furnishing all necessary labor, materials and equipment required to install, complete in place and ready for operation, a traffic signal system as described herein and as shown on the plans. The intersection traffic signals shall operate as a fully actuated traffic control system, capable of operating as a closed loop system.

*NOTE: All traffic signal equipment including but not limited to signal posts, bases, signal heads, visors (outside), backplates, doors, mast arms, controller cabinets (exterior); pushbutton saddles, service meter socket boxes, optical preemption detectors, hardware, rigid mounting brackets, banding used to attach equipment to poles and mast arms, and all other appurtenances shall be factory coated BLACK*

Individual items of work shall include furnishing and installing all or part of the following items: ATC traffic signal controllers with ATC cabinet assemblies; controller/cabinet bench testing; software licenses (traffic signal operations, vehicle detection); signal support foundations with anchor bolts; video vehicle detectors and processors; pull boxes; and housings; accessible pedestrian signals with countdown timers and non-movable push buttons; a complete emergency vehicle priority control system and all necessary wiring, mounting assemblies, equipment grounding and bonding, ground rods, and a new service connection. A list of major items required is included on the contract plans.

A list of the major components of the traffic signal system is included in the plans. Traffic signal operation and signalized intersection approaches shall be in conformance with the MUTCD throughout construction except when the intersections are under police control. The Contractor shall submit any proposed interim traffic lane and traffic signal arrangements at intersections that deviate from the existing or proposed arrangements to the Engineer for approval.



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**ITEMS 816.01, 816.02 AND 816.03** (Continued)

Local intersection traffic signal cable shall be #14 AWG.

The Contractor shall make all necessary arrangements with the electric utility company for the service connections or for any main power cut off when necessary, and bear all charges incurred hereby.

Materials installed under these items shall be an approved item from MassDOT's Qualified Traffic Control Equipment (QTCE). See the Department's website: <https://www.mass.gov/lists/massdot-qualified-traffic-control-equipment-qtce>

**Existing Installations**

The existing signal installations to be modified under these Items shall be maintained in operation throughout the construction period and until the modified signals are ready for operation.

If an existing signal is to be turned off temporarily to allow controller switchover or controller/cabinet rewiring, police detail(s) shall be used to control traffic at the intersection.

The Contractor shall be required to keep records of dates when traffic signal posts are installed and when traffic signals are put on flashing and stop and go. These records are to be submitted to the Engineer by the first of each month. If required, the Contractor shall make all electrical arrangements with the utility company and also make arrangements with cable company for providing power, wireless ethernet and cellular service to the controllers.

Once construction is completed and the modified signals are in operation, unused items of the old signals shall be completely removed and stacked as directed by the Engineer in accordance with Subsection 815.65. Old cable and unusable materials shall be disposed of by the Contractor.

The Contractor shall carefully remove, transport and stack all material that, in the opinion of the Engineer, is salvageable to the Town of Longmeadow Department of Public Works at 170 Dwight Road. The Contractor shall coordinate with the Engineer to schedule drop-off time a minimum of 48-hours in advance.

**Foundations**

Signal support foundations shall be constructed in accordance with the design provided by the Engineer. Controller cabinet foundations shall be constructed in accordance with the applicable requirements of Section 901 and as modified on the plans.

**ITEMS 816.01, 816.02 AND 816.03 (Continued)**

MAST ARM LOCATION KEY								
NO.	STATION/OFFSET	INTERSECTION	MAST ARM SIZE	SOIL BORING NO.	SOIL TYPE	FOUNDATION DIAMETER	FOUNDATION DEPTH	TIE BARS
1*	4+80.11/ 30.65' LT	LONGMEADOW/ CONVERSE	30.00'	B-1	WET SAND (LOOSE)	3'-6"	15'-0"	#5 @9"
2*	4+76.20/ 34.32' RT	LONGMEADOW/ CONVERSE	20.00'	B-2	WET SAND (LOOSE)	3'-6"	11'-6"	#5 @9"
3*	5+57.88/ 39.41' RT	LONGMEADOW/ CONVERSE	30.00'	B-3	WET SAND (LOOSE)	3'-6"	15'-0"	#5 @9"
4*	5+64.57/ 36.21' LT	LONGMEADOW/ CONVERSE	30.00'	B-4	WET SAND (LOOSE)	3'-6"	15'-0"	#5 @9"
5*	24+78.90/ 34.68' LT	LONGMEADOW/ FOREST GLEN	40.00'	B-5	WET SAND (LOOSE)	3'-6"	15'-0"	#5 @9"
7*	24+99.71/ 49.17 RT	LONGMEADOW/ FOREST GLEN	35.00'	B-7	WET SAND (LOOSE)	4'-6"	16'-6"	#5 @6"
9*	117+38.65/27 .02' LT	CONVERSE/ LAUREL	25.00'	B-9	WET SAND (LOOSE)	3'-6"	13'-0"	#5 @9"
10*	118+18.96/42 .09' LT	CONVERSE/ LAUREL	35.00'	B-10	WET SAND (LOOSE)	3'-6"	15'-0"	#5 @9"
11*	118+31.32/25 .64' RT	CONVERSE/ LAUREL	20.00'	B-11	WET SAND (LOOSE)	3'-6"	11'-6"	#5 @9"
12*	117+55.69/44 .62' RT	CONVERSE/ LAUREL	25.00'	B-12	WET SAND (LOOSE)	3'-6"	13'-0"	#5 @9"

\*Ornamental

The top forming of cast-in-place units shall extend downward for a minimum of 24" on the side of any foundation. The lower portions of all foundations shall be placed directly against undisturbed earth. Forms or reinforcing for foundations shall neither be set nor shall concrete be placed until the excavation has been inspected by the Engineer and approval to proceed has been given. The Contractor shall request written approval from the Engineer in advance of the placement of any concrete for foundations of traffic signal poles, mast arms and controller cabinets.

Concrete foundations shall be constructed of 4000 psi, 565 Cement Concrete. **The Contractor shall submit shop drawings of any bolt circle details for approval by the Engineer.** Anchor bolts shall be set accurately, and tops shall be formed neatly.

Where soil conditions are such that, in the opinion of the Engineer, the typical foundation design is not suitable, an alternative design shall be provided by the Design Engineer. If utilities or other underground obstructions are encountered, the Contractor shall backfill the area to its original condition until an alternate design has been provided by the Design Engineer and approved by MassDOT.

No separate payment will be made for work considered incidental to the excavation, including but not limited to, mast arm foundations, dewatering, etc. but all costs in connection therewith shall be included in the various contract items.

Mast arm foundation locations shall conform to minimum MAAB dimensions and shall not obstruct a sidewalk or crosswalk so that passage by a physically-challenged person is impaired.

**ITEMS 816.01, 816.02 AND 816.03** (Continued)**Service Connection**

It shall be the Contractor's responsibility to contact the utility company. The electric company (refer to utility contacts) will furnish the connection and power at the locations shown on the Contract Drawings. The service connection shown on the plans is only approximate. The electric company will connect and disconnect power as required. No work shall be done in manholes or on power poles without a representative of the electric company being present. The Contractor will be responsible for coordinating work with the electric company.

The utility will provide a stub conduit connection at the underground structure, furnish the wire and make the connection from the power source to the meter socket. The Contractor will install the conduit connecting the stub connection to the controller cabinet foundation.

The Contractor shall furnish and install, or cause to be installed, all service equipment to the satisfaction of the electric utility company. It shall also be the Contractor's responsibility to pay all charges to the utility company for performing the work previously described.

Openings where cables enter the bottom of the controller cabinet and each pull box shall be sealed with approved elastic sealing compound.

No direct reimbursement will be made under this contract to the Contractor for payments made to electric company, it being understood that full compensation for any payment made by the Contractor to the utility company will be included in the contract prices bid.

Grounding Cable - Grounding cable shall be bare copper No. 8 AWG wires.

**Bench Testing**

Prior to installation in the street, the Contractor shall perform bench testing of the proposed completed controllers/cabinet assemblies and the proposed controller units in the presence of MassDOT and the Engineer at the Contractors facility prior to installation in the field. Refer to Appendix "A" for the ATC/ATCC test plans to be executed by the Contractor in the presence of the Engineer. Any issues identified during the testing will be successfully mitigated and successfully retested by the Contractor in the presence of MassDOT and the Engineer prior to installation.

The Vendor/Manufacturer shall provide this testing facility within New England. In order for the Vendor/Manufacturer's facility to be acceptable for testing, it must be clean, air conditioned/heated, have signal displays and other equipment needed for simultaneous testing of up to five (5) controller units/cabinet assemblies at a time supplied as part of this project.

The Vendor/Manufacturer shall set up the controllers to operate test displays on all field signal circuits used for the signal sequence shown on the plans. The Vendor/Manufacturer shall make available to the Engineer and MassDOT complete and accurate copies of the as-built wiring diagrams for each cabinet assembly prior to inspection. Cabinet wiring diagrams shall depict the

**ITEMS 816.01, 816.02 AND 816.03** (Continued)

complete and actual wiring of the entire cabinet assembly as supplied for each location; the submission of generic wiring diagrams shall not be allowed. In addition, a hard copy of all programming data resident in each of the devices at the time of inspection shall be furnished to the Engineer. The services of a test engineer shall be made available by the Contractor during the entire test process at no additional cost.

**Advanced Transportation Controllers (ATC)**

All controllers shall be shelf-mounted, solid state, menu driven, keyboard units conforming to the ATC 5201 v06.25 Advanced Transportation Controller (ATC) Standard. The controllers shall be supplied with all necessary interfaces needed to support Advanced Transportation Controller Cabinet (ATCC) / Serial Interface Unit (SIU) communications. All controllers shall be supplied with an internal real-time clock/calendar capable of daily, weekly, and yearly events time programming. All controllers shall be designed and supplied to provide the number of phases and sequencing as shown on the plans without any auxiliary equipment. All controllers shall be supplied as follows:

- Contain ATC API operational software conforming to ATC 5401 Standard v02.
- Be configured to operate in an ATCC 5301 v02 cabinet platform.
- Be supplied with the appropriate version of the Linux operating system, Board Support Package (BSP) and internal processing levels necessary to support connected vehicle (CV) as well as local and system operations.
- Shall include all licenses to support CV applications (SPaT) and SPM applications. These licenses shall be included with the controller.
- Shall include all licenses to allow for use of graphical user interface as well as standard display.
- Shall be fully compliant with NTCIP 1201 and 1202 standards.
- Shall support a minimum of 8 vehicle/pedestrian phases and 8 overlaps.
- Include a minimum of 3 High Speed USB 2.0 ports.
- Include a minimum of 3 10/100BaseT, RJ45 Ethernet connector ports.
- Shall be supplied with 2 SDLC ports, at a minimum.
- The SDLC ports shall be fully functional and operate simultaneously with all other ports.
- The SDLC ports shall support the following baud rates:
  - SDLC Port
    - Asynchronous Rates (bps) 1200 / 2400 / 4800 / 9600 / 19.2k / 38.4k / 57.6k / 115.2k / 230.4k
  - SDLC Port (SIU)
    - Synchronous Rates (bps) 153.6k / 614.4k
- All data communication connectors shall be supplied and installed with an outer boot molded cover designed specifically for the connector to ensure physical protection for the connector wire terminations. There shall be no exposed wires visible between the connector and the cable insulated jacket.
- Shall contain real-time context sensitive HELP screens.

**ITEMS 816.01, 816.02 AND 816.03** (Continued)

- Shall include a time-of-day, day-of-week, week-of-year scheduler.
- Shall include dedicated phase detection inputs, pedestrian detection inputs, and system detection inputs.
- Shall be supplied with the ability to provide 12 unique preemption/priority inputs.
- Shall contain the ability to alter the controller unit's internal database using a built-in front panel keyboard, using a computer connected to the controller unit with a USB cable or an Ethernet cable, and remotely using a central management system application. In addition, a remote access system shall be provided using Telnet and/or HTTPS.
- Shall include an internal database which stores all configurable parameters, including but not limited to phase timings, phase sequencing, overlaps, coordination parameters, preemption and priority parameters, time base parameters, communications parameters, detection parameters, flashing operation parameters, and security parameters.
- Shall include detector failure algorithms that initiates user defined actions when user defined criteria are met.
- Shall be supplied with the ability to generate user defined alarms and alerts.
- Shall be supplied with programming documentation fully defining the coding (compiler and C libraries) used to create the ATC controller applications residing in the unit.
- Shall be supplied with the source code used to produce and support the Linux kernel environment (Board Support Package).
- Shall be supplied with a manufactures Software Development tool Kit (SDK) for supplied firmware version to allow for future system modifications/expansions.
- Supplied with a -40°C to 74°C operating temperature range
- Supplied with a -40°C to 85°C storage temperature range
- Able to operate in an environment of between 10% to 95% relative humidity (non-condensing)
- Able to operate between 89 VAC to 135 VAC, 60 Hz
- No additional hardware, software items and/or subscription fees/costs shall be needed/allowed to satisfy the requirements as defined in these specifications
- Meet the functional requirements of the NEMA TS-2, 2016 Standard, including all amendments.
- Shall have connectors for all external input/output functions that are rigidly defined by the ATC, NTCIP and applicable national standards.
- Based on application, connectors for external input/output functions shall be identical in quantity, size, type, configuration, and pinout for all manufacturer's units used in the project.
- Shall be supplied with all necessary hardware and software elements needed to fully support Connected Autonomous Vehicle (CAV) operations utilizing dual mode DSRC/5G communications.

**ITEMS 816.01, 816.02 AND 816.03** (Continued)

- Shall be supplied with all necessary ATC hardware, software elements and instruction procedures needed to facilitate the extraction and processing of the SPM data.
- Support Flashing Yellow Arrow (FYA) and Flashing Red Arrow (FRA) operation with the ability to provide a minimum of 6 flashing pairs.
- Contain the ability to alter the controller unit's internal database using a built-in front panel keyboard, using a computer connected to the controller unit with a USB cable or an Ethernet cable, and remotely using the central management system application.
- Be supplied and installed with the ability to collect, store, and report various measures of effectiveness (MOE's).
- Shall collect and process all 255 high resolution enumerations as defined in the report entitled "Indiana Traffic Signal Hi Resolution Data Enumerations", most current version. This data will be processed in the controller and available via download from the controller USB Ethernet port or, if available, via system communications. At a minimum, the controller shall be set up to provide the following performance reports:
  - Approach delay
  - Preemption events
  - Transit Priority Events
  - Split Monitor
  - Approach Volumes
  - Purdue Coordination Diagrams
  - Arrivals on Red
  - Arrivals on Green
  - Phase Termination
  - Pedestrian Delay
- Shall be able to backup and restore ATC programming data to a USB memory device connected to the front of the controller. No additional software shall be required to perform this function.
- Shall be able to upgrade the ATC firmware via USB memory device connected to the front of the controller. No additional software shall be required to perform this function.
- The ATC unit shall not utilize internal logic processing or script programming to directly control conditional timing or operation of vehicle or pedestrian field signal circuits.
- The Contractor at time of submission shall submit from the manufacturer the latest ATC firmware release notes as part of the shop drawing submission.
- All controllers shall be supplied with the latest firmware. The use of older firmware shall not be allowed unless directed by the Engineer.

**ITEMS 816.01, 816.02 AND 816.03** (Continued)

- All controllers supplied and installed as part of this project shall be provided with Transit Signal Priority (TSP) operation without the need for additional software, hardware, data key device or any recurring licensing fees. The TSP algorithm shall be fully programmable to extend a phase or reduce a vehicle phase depending on user defined settings. This function shall be available for operation during both coordinated and free operation, and shall include the following:
  - TSP shall support a minimum of six priority routines.
  - The TSP program shall be capable of extending the priority phase green time and truncating the non-priority phase(s) green when a priority call is received by the ATC unit.
  - TSP operation shall not cause the ATC unit to skip any phases that have active vehicle/pedestrian demand.
  - Emergency vehicle preemption (EVP) shall override TSP operation.
  - The TSP program shall have the ability to delay and/or extend priority calls.
  - The TSP program shall have the ability to support user defined time periods between servicing valid priority calls.
  - All TSP events shall be logged (time/date stamped) in the ATC unit.
  - The TSP algorithm shall allow for non-TSP phases to be conditionally truncated based on the absence of a concurrent pedestrian service of the non-TSP phase.
  - It shall be possible to user define in the traffic controller a minimum time between responses to priority calls.
- TSP Coordinated Operation – Under coordinated operation, the controller shall modify existing signal operation to accommodate a priority call. This may include modification to per phase termination points established under normal coordinated control. During a priority event, per phase coordination modes shall remain in effect. Priority and non-priority phase duration shall be user programmable per coordination pattern.
- TSP Non-Coordinated (Free operation) – Upon receipt of a valid priority call, the controller shall either extend the priority phase or reduce the non-priority(s). These settings for the adjusted green times shall be user defined, on a per phase basis, and adjustable on a time-of-day basis.

**ATC Cabinet (ATCC)**

Proposed cabinets shall be either an ATC/NEMA 4 door “P” size (44” W x 26” D x 67” H), ATC/NEMA two door “P” size (44” W x 26” D x 56” H), or an ATC/NEMA “M” two door size (“36”W x 17”D x 63”H) as shown on the plans. The cabinets shall conform to requirements defined in the Advanced Transportation Controller Cabinet (ATCC) 5301 v02 Standard. The cabinet sizes and functional requirements shall conform to the NEMA TS2 -2016 Standard, Section 7. The cabinets shall have a natural brushed aluminum finish.

**ITEMS 816.01, 816.02 AND 816.03** (Continued)

The traffic signal control equipment shall be enclosed within a dust and moisture-proof aluminum housing with an auxiliary door in door feature. The door hinge pins shall be made of stainless steel. All cabinets shall be configured to eliminate arc flash. All electrical equipment shall be dead front, no open terminals, busbars, breakers, or exposed terminal strips. All cabinet switches and circuit breakers shall be permanently labeled as to function. All cabinets shall be designed, constructed, and installed with all necessary provisions to comply with the latest NFPA 70E requirements. All electrically live parts over 50 volts shall be covered with Lexan or a suitable physical barrier to eliminate the possibility of arc flash.

The lock for the police door switch compartments shall unlock with a skeleton style (#1) key. The lock for the main door(s) of the cabinet shall unlock with a Corbin #2 key. Two sets of two keys (main door/police door) shall be furnished with each cabinet.

All cabinets shall be supplied with a permanent label mounted on the upper portion of the inside front main door which shall contain the name of the cabinet manufacturer, controller manufacturer, model/part number and year/month of assembly.

All cabinets shall be supplied with a GFCI duplex outlet, as well as a multi-outlet strip. All AC+ line cords shall contain a white flexible label with black lettering permanently affixed to the plug end of the cord depicting the device/ assembly that it is connected to, i.e., ATC, FMU, video detection etc.

All ATC/NEMA 4 door “P” size cabinets, ATC/NEMA 2 door “P” size cabinets and ATC/NEMA “M” two door cabinets shall be provided with two removable lifting eyes for placing the cabinet on its foundation. Each eye opening shall have a minimum diameter of 0.75 inches. Each lifting eye shall be able to support a weight limit of 1,000 pounds.

All ATC/NEMA 4 door “P” size cabinets, ATC/NEMA 2 door “P” size cabinets and ATC/NEMA “M” two door cabinets shall be equipped by the with an internal cable management system. The cable management system shall be comprised of nonconductive channels designed to facilitate wire and cable routing within an electrical enclosure.

For the ATC/NEMA 4 door “P” size cabinets, the shelving used on the power side of the cabinet shall be designed with sufficient strength to support two batteries per shelf for back-up power elements. The shelves shall be designed and constructed to fully support the weight of two 12V batteries on each shelf without deflection.

**Cabinet Configuration** - All ATC/NEMA four door “P” size cabinets and ATC/NEMA 2 door “P” size cabinets shall be supplied with two side-by-side, 19” rack cages which shall extend from the bottom to the top of the cabinets.



**ITEMS 816.01, 816.02 AND 816.03** (Continued)

The ATC/NEMA four door “P” size cabinets front left side shall provide for user interface to the in-cabinet equipment including the front panel of the controller, the cabinet status displays and detection system control interfaces. The cabinet rear shall provide access for termination of field cables and shall only be accessed for installation and for cabinet troubleshooting. The left-side rack of the cabinet relative to facing the cabinet from the front, to be referred to as the “Control” side, shall house the control devices such as the Controller, Cabinet Monitor Unit (CMU) and Auxiliary Display Unit (ADU), switch packs and the power distribution panel. As such, this rack shall be referred to as the “Control” side of the cabinet. The right-side rack of the cabinet relative to facing the cabinet from the front, to be referred to as the “Power and Auxiliary” side, shall house the spare card cage assembly, battery back-up devices (if required), communications elements and future ancillary devices.

**Cabinet Doors** -The ATC/NEMA four door “P” cabinets shall be supplied with four main doors: two on the front face and two on the back face. Each door shall open independently with an independent center post latching for each of the four doors. The front control side door shall be defined as the “primary” door; the remaining three (3) main doors shall be defined as “secondary” doors. The ATC/NEMA two door “P” size cabinets shall be supplied with two front facing doors. The left side door shall be defined as the “primary” door; the right side door shall be defined as the “secondary” door.

All main doors for each of the three cabinet types shall be provided with a stop to limit door opening to both  $90^\circ$  and  $180^\circ \pm 10^\circ$ . The door stop bars shall be a captive type mechanism that serves to keep the bars in contact with the cabinet at both stop bar ends and provided with a catch that can be operated when the doors reach these 2 positions and shall hold the doors open securely until released. The cabinets shall be supplied with a three-point draw roller latching system consisting of the following latching points:

- a. Center of the cabinet (lock)
- b. Top of the cabinet – controlled by door handle
- c. Bottom of the cabinet – controlled by door handle

The latching points on the top and bottom of the main cabinet doors shall remain in the locked position until the door locks are disengaged. The locking mechanisms shall be equipped with nylon rollers to secure the top and bottom of the doors. The door locking mechanism shall be constructed such that it closes freely without obstruction with any internal cabinet device, shelf, rack system or internal metal support element.

All cabinets shall be supplied with a  $\frac{3}{4}$ ” diameter shank, stainless steel latching handle for each door. The latching handle shall have a provision for padlocking the door in a closed position. The cabinets shall have a pliable seal composed of caulking compound or mastic installed between the cabinet bases and the concrete foundations and in between the riser base and the cabinet to prevent dust and dirt from entering the cabinets.

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**ITEMS 816.01, 816.02 AND 816.03** (Continued)

**Extension Bases** – All cabinet types shall be supplied with a 6” high riser aluminum base that elevates the cabinet above the cabinet foundations. The color and finish of the base shall match the color and finish of the main cabinet supports.

**Internal Cabinet Lighting** – All three cabinet types shall be supplied with white LED light panels which shall automatically illuminate via a door open switch whenever any of the main cabinet doors are opened.

For ATC/NEMA four door “P” size cabinets and ATC/NEMA two door “P” size cabinets, the LED panels shall produce a minimum of 1,000 lumens on the Control side of the cabinet and 1,000 lumens on the Power/Auxiliary side of the cabinet and be protected by a clear shatterproof shield. The cabinets shall contain four light panels: two at the top of each rack assembly and two at the underside of the bottom shelf of each rack assembly. LED light panel mounting brackets shall be installed such that they do not interfere with the unused rack mounting holes which could potentially conflict with the installation of future rack mounted devices. There shall be two switches on each of the four main doors. The first door switch shall activate the LED panels. The second door switch shall be used to monitor when the door has been opened. The front control side door monitoring switch shall be connected to one of the door status inputs of the controller. The door monitoring switches for the remaining door(s) shall be connected to the second door status input to the controller. The door status inputs shall log a report event everytime any one of main doors were opened.

**Cabinet Fans** - Each of the three cabinet types shall be provided with thermostatically controlled ventilating fans and throwaway glass fiber air filters. The electric fans shall have ball or roller bearings and shall have a capacity of 100 ft<sup>3</sup> per minute. The fans shall be rated for continuous duty with a minimum service life of 3 years. The fan blades shall be supplied with a safety screen to prevent accident contact with the blades. The ventilating system shall be designed to prevent the entrance of rain, snow, dust, and insects. The fans and vents shall be arranged in such a manner that the air intake is at the cabinet bottoms and the exhaust is at the cabinet tops. The air intake shall be rain tight and covered with a removable glass fiber air filter. The removable air filter shall be firmly held in place with aluminum louvered backing plate such that cracks, and openings are eliminated to ensure that all air is filtered.

Each of the cabinet types shall contain two fans. For the ATC/NEMA four door “P” size cabinet, the thermostat panel shall be mounted to the top, rear of the cabinet’s 19” equipment rack and oriented to be clearly visible allowing user adjustable temperature settings from a minimum of 70°F to 140°F and capable of activating the fans within plus or minus five degrees of the set temperature; the thermostat shall be initially set to 100°F. Any exposed terminals shall be covered to protect a technician’s hand.

For ATC/NEMA four door “P” size cabinets and ATC/NEMA 2 door “P” size cabinets there shall be two intake vents provided with the cabinet, one in each front door. For the ATC/NEMA single door “M” size cabinets, one intake vent shall be provided on the main door.

**ITEMS 816.01, 816.02 AND 816.03** (Continued)

**Cabinet Switches/Manual Control** – All cabinets shall be supplied with a single police door panel. For ATC/NEMA four door “P” size and ATC/NEMA 2 door “P” size cabinets it shall be located in the middle area of the front door on the Power and Auxiliary side. For the ATC/NEMA single door “M” size cabinets it shall be located in the middle of the main door. The switches shall be mounted in the police panel and labelled as to function. The three switches shall be supplied as follows:

- a. Signal On/Off
- b. Signal/Flash
- c. Manual/Auto with cord

The manual control cord shall be a coiled type, sealed weatherproof covered hand switch extending to six feet when fully stretched. The cord shall be fastened to the cabinet via a compression type connector to provide strain relief for the cord’s electrical connections. The police door panel shall be of sufficient size so as to store the manual control cord when panel door is closed.

Each cabinet shall be supplied with a technician’s panel switch assembly. For ATC/NEMA four door “P” size cabinets and ATC/NEMA 2 door “P” size cabinets it shall integrated into the lower output file rack assembly. For the ATC/NEMA single door “M” size cabinets it shall be located on the back of the police door panel. This assembly shall be supplied with the following switches:

- a. Flash/Auto (Allows the controller to cycle while flashing)
- b. Signals On/Off (Allows the controller to cycle with signal displays being dark)
- c. Stop Time Normal/On (Provides the ability to manually activate a controller stop time input)

**Cabinet Power** - The main cabinet circuit breaker shall be rated at 30 amps. Circuit breakers shall be approved and listed by the UL. All circuit breakers shall be quick-make, quick-break on either automatic or manual operation. Contacts shall be silver alloy enclosed in an arc quenching chamber. Overload tripping of breakers shall not be influenced by an ambient temperature range of from 0 to +158°F. The electrical current rating shall be stenciled on the support panel adjacent to each fuse and circuit breaker installed within the cabinet.

**Pull-Out Drawers** - Each cabinet shall contain a pull-out drawer, 19” wide with sufficient strength to hold a laptop computer. The standard drawings for each cabinet type shows the location of the slide out drawer.

**Spare Lateral Rack (SLR)** – The ATC/NEMA four door “P” size cabinets and ATC/NEMA 2 door “P” size cabinets shall be supplied with a Spare Lateral Rack (SLR) (empty cage) assembly. This rack assembly shall not be wired to any cabinet device, but rather used to store spare rack mounted cabinet devices such as switch packs, Serial Interface Units (SIUs), CMUs and phase selectors. This spare rack assembly shall be located at the top of the Power and Auxiliary rack. The rear of the assembly shall contain unterminated edge connectors which shall serve to hold the spare plug-in devices in place during storage.

**ITEMS 816.01, 816.02 AND 816.03** (Continued)

**Electric Meter Trim** - The cabinets shall be supplied and installed with an electric service meter socket trim and electrical service disconnect switch mounted on the exterior of the cabinet. The meter and disconnect switch shall be installed centered on the side of the cabinet without doors such that it is not less than 48 inches nor more than 60 inches above final grade. The Contractor shall coordinate with the local electric utility company to determine the appropriate type of electric service meter socket trim and electrical conductors to be used. The line side cable shall be routed external to the cabinet from the ground to a 50 amp disconnect switch, then continuing to the bottom of the electric service meter socket trim, all through rigid steel conduit furnished and installed by the Contractor. The load side cable shall be routed through the cabinet and terminated on the line side of the main cabinet circuit breaker. The cable shall be routed through the interior of the cabinet such that it does not block or enter into available rack space in a ATC/NEMA four door "P" size cabinet preventing that space from being used either by equipment supplied as part of the project, or future equipment that would be installed in the rack system. The cable shall be routed between the edge of the rack system and the cabinet side wall, along the bottom of the cabinet and below the bottom opening of the doors. Care shall be taken by the Contractor when installing the electric service meter socket trim and electrical service disconnect switch so that there is no damage inflicted on installed devices or the rack system during the installation. All metal shavings produced during the drilling of the access hole for the electric service shall be removed from the cabinet interior by the Contractor. The Contractor shall install appropriate bushings to all cabinet penetrations. All wiring shall comply with all applicable local electrical codes as well as the National Electric Code.

**Back of Door Documentation** - Each cabinet shall be supplied with a laminated door sticker. This sticker shall be permanently affixed to the inside front control side of the cabinet door. At a minimum, the sticker shall contain the following information:

- a. Vehicle / Pedestrian detection information including all detector channel assignments, phases assigned, approaches and cabinet termination points.
- b. Per approach preemption information including channel, approach/direction and termination points.
- c. Field termination chart showing per approach/per phase numbering of all signal circuits.
- d. Signal phasing and signal plan with intersection geometry and signal head designations.

The back of the main front door shall contain a resealable, heavy-duty opaque plastic envelope with two grommets that provide mounting to two integrated hooks installed on the back side of the front cabinet door. The heavy-duty plastic envelope will be used to store cabinet wiring diagrams and operations manuals that cannot be accommodated in the pull-out draw storage tray.

**Input and Output Channels** - The ATC/NEMA four door "P" size cabinets and ATC/NEMA two door "P" size cabinet shall be supplied with 32 output channels and 48 input channels. The input channel rack assemblies shall consist of two (2) 24 channel units. The output channel rack assembly shall consist of two (2) 16 channel units. The ATC/NEMA single door "M" size cabinet shall be supplied with 16 output channels and 24 input channels.

**ITEMS 816.01, 816.02 AND 816.03 (Continued)**

**Input Channel Assignments** - The first detector rack in a NEMA cabinet and the first and second detector rack in the ATC cabinet shall be used for inductive loop detectors or other non-invasive applications (preemption, isolators, confirmation strobes). The remaining detector channels (NEMA #17- #64; ATC Cabinet #49- #120) shall be used for non-invasive detectors (video/radar).

**Output Channel Assignments** - Each cabinet shall be configured, per type, to provide the following output channel assignments:

Channel	Outputs (32 Channel)	Outputs (16 Channel)
Channels 1 – 8	Phases 1 -8	Phases 1 -8
Channels 9 – 12	Flashing Yellow Arrow	Flashing Yellow Arrow/Overlaps/ Confirmation Strobe / As needed
Channels 13- 16	Pedestrians	Pedestrians
Channels 17 – 20	Overlaps	N/A
Channels 21 +	As needed	N/A
Channel 32	Confirmation strobe if required	N/A

The Contractor shall assess the per output channel electrical load requirements for ATC cabinets. If required, the cabinet shall be configured to distribute the electrical load for a single phase circuit between separate output channels. For example, at locations with an exclusive pedestrian phase with 8 or more pedestrian heads, the current draw for this many signal heads may exceed the maximum limit of the output current for an individual channel (switch pack circuit).

**Detector Test Switch Panels** - Each cabinet type shall be supplied with a detector test switch panel. There shall be a total of 48 switches to allow for the manual placement of detector calls into the controller. Each switch shall be clearly labelled as to input channel. Each switch position shall correspond to the same controller input; switch one is for controller input channel one, switch two is for controller input channel 2, etc. The detector switch panel shall be comprised of switches that are wired directly to the corresponding input channels on the rack assemblies. Each switch shall be supplied with a red LED indicator to be illuminated whenever a channel input is active via the three-position detector switch. The use of an SIU internal to the detector test switch panel, or the use of input rack isolator cards to provide this capability is not allowed. The switches shall be three position type and function as follows:

- a. Up Position = Provides a constant call
- b. Center Position = Normal operation (Phase receives call from detectors)
- c. Down Position = Provides a momentary call

**ITEMS 816.01, 816.02 AND 816.03** (Continued)

**Standard ATC Cabinet Devices** - A Cabinet Monitor Unit (CMUs) and Auxiliary Display Unit (ADUs) shall be supplied and installed in each cabinet. The CMUs and ADUs shall conform to requirements defined in the Advanced Transportation Controller Cabinet (ATCC) 5301 v02 standard. The CMU/ADU units supplied and installed as part of this project shall support 32 channels. All configuration programming shall be resident in a non-volatile Datakey device. Each CMU shall be supplied with a Datakey programmer and associated software. The Datakey programming software shall include a set-up wizard which shall assist the user with the initial set up of the device. The Contractor shall program the Datakey with data entries appropriate for each intersection. The CMU shall be programmed to activate load current monitoring on all active vehicle and pedestrian circuits. The CMU shall be programmed using the set-up wizard supplied with the CMU. The Contractor shall supply documentation stating that the set-up wizard was used for the CMU programming. Any deviations made by the Contractor to the CMU programming data generated by the set-up wizard shall be documented with reason(s) why the deviations were required; these deviations shall be documented and included with the cabinet. All programming resident on the Datakey shall be included in the hardcopy.

A cabinet power supply shall be supplied and installed in each cabinet. The cabinet power supply shall comply with ATCC 5301 v02.

The Contractor shall reconfigure the default username and passwords on all communications / control equipment within the ATC Controller and Cabinet. This includes but is not limited to the ATC traffic controller, ATC ancillary equipment, video detection equipment, Ethernet switches, and routers. The new username and passwords shall be created in coordination with the agency IT staff and or as directed by the Engineer; no manufacture default level passwords shall be allowed.

All SDLC cables used to interconnect devices within the cabinet shall be supplied with factory installed protective wire covers to protect the connector side of the cables. The use of Contractor supplied/installed cable protector covers shall not be allowed.

The Contractor shall utilize network communications encryption settings on all forms of wired Ethernet data paths. No "in the clear" communications shall be allowed. At a minimum all wired Ethernet connections shall meet 802.1AE standards. The Contractor shall supply and configure a Cyber Intrusion and Prevention Device (CIPD) in each ATC cabinet. The CIPD shall prevent any unauthorized access / connections to the traffic control system. Upon detection of unauthorized attempts, the CIPD shall notify the agency via SMS message and or email and log the event. The CIPD shall be installed prior to any remote access device.

The Contractor shall coordinate with the agencies Information Technology and Operational Technology (IT/OT) staff and or the Engineer for final configuration of the CIPD. No direct access to the traffic system shall be allowed without the installation of a CIPD and or Router/Firewall.

**ITEMS 816.01, 816.02 AND 816.03** (Continued)**Surge Suppression**

Electrical filtering/surge protection shall be supplied and installed in each cabinet in accordance with ATCC 5301 v02 requirements and the manufacturer's recommendations. At a minimum, surge suppression shall be provided for incoming electric utility power conductors, all signal control circuits, vehicle detection, pedestrian detection, communications, and preemption system terminations. The use of a single fuse for surge suppression shall not be allowed.

Each cabinet shall be electrically bonded and grounded to comply with Section 643, the National Electrical Code (NEC) and the National Electrical Safety Code (NESC), latest versions of each document.

Each in-cabinet current interrupting device (controller unit, flasher, and all other devices) shall be equipped with a suitable radio interference suppressor installed at the input power point. Interference suppressors shall be designed to minimize interference in both broadcast and aircraft frequencies.

Suppressors shall be designed for 125 percent of the total connected load and shall meet standards of the UL and the EIA.

**Field Monitoring Unit (FMU)**

In each of the cabinets the Contractor shall furnish and install a Field Monitoring Unit (FMU) and software, as well as all needed accessories required for a full and complete installation, including but not limited to power adapters, Ethernet cables, and interface cables, as described herein.

The FMU shall be manufactured by Applied Information (AI), Model AI-500-085-02 FMU with 4G LTE modem and 4-Port Ethernet Switch, or approved equal. If another product is proposed, Contractor shall submit a test unit to the agency for evaluation along with conducting a live demonstration of the FMU functionality and shall submit test plans demonstrating the proposed device meets or exceeds all items in this specification prior to acceptance by MassDOT.

The Contractor shall request from MassDOT and or the Engineer the IP addresses for each device connected to the FMU. All devices with Ethernet ports within the controller cabinet shall be connected to the FMU.

The FMU shall be intergrated into MassDOT existing MassDOT Critical Operations Multi-jurisdictional Modular System (MCOMMS) cloud-based management system.

The FMU shall be configured to connect to MassDOT existing traffic signal network as directed by the Engineer.

**ITEMS 816.01, 816.02 AND 816.03** (Continued)

This work shall consist of furnishing, installing, configuring, and testing an FMU that meets the following requirements:

- A. The FMU shall operate independent of the brand/type of intersection controller, video or thermal detection system and battery backup system (if applicable) and any in cabinet web accessed device deployed in the traffic cabinet.
- B. The FMU shall function correctly between -34 degrees C and +74 degrees C.
- C. The FMU shall have at least five (5) other FMU installations within the New England area.
- D. The FMU shall be provided with appropriately rated connectors that allows the FMU to be exchanged by unplugging connectors, without tools.
- E. The Contractor shall develop a test plan that fully demonstrates that all requirements as defined in these specifications have been met. The test plan shall define in detail each test, and the expected result of each test. The test plan shall be submitted as part of the shop drawings and shall be subject to revisions based on review and comment by the agency and the design consultant. Where applicable, the Contractor shall provide manufacturer certificates of compliances to verify that the unit supplied meets a specific requirement.
- F. The FMU shall monitor and log all Controller and cabinet faults and/or alarms.
- G. The FMU shall be wired directly to the cabinet.
- H. The FMU shall have an internal cellular modem running at 4G LTE.
  - The Cellular modem shall be designed to be replaced / upgraded to 5G service when available.
- I. The FMU shall incorporate an integrated GPS and cell modem.
- J. The configuration of the FMU shall be accomplished by accessing the internal web server with a browser. It shall be possible to configure the FMU without any special software.
- K. The FMU shall be powered via a standard 120 VAC input power.



**ITEMS 816.01, 816.02 AND 816.03** (Continued)

- L. The FMU shall allow for the routing of the controller configuration packets to and from the controller by Ethernet for any type of controller utilized by the agency. In this way, it shall be possible to configure the controller and utilize the controller specific software to interrogate the controller, and the FMU shall provide the redundant communications pipeline (where applicable) which allows this to be accomplished.
- M. The FMU shall be connected via a RJ-45 Ethernet cable to the Ethernet Switch (if applicable).
- N. The FMU shall be configured to allow for the remote display and control of the connected traffic signal controller via the FMU manufacturer cloud hosted web-based software. This feature shall not require the end user to create a separate VPN connection to the FMU.
- O. The FMU shall be configured to provide access to view the detection system, including the video image of each approach, via the FMU web-based software. This feature shall not require the end user to create a separate VPN connection to the FMU.
  - The remote streaming of the video detection camera shall be done via the FMU manufacturer's website. The streaming shall be able to stream at 10 frames per second or greater.
- P. The FMU shall be configured to provide SPaT message broadcast from the ATC controller using the FMU manufacturer mobile app.
- Q. The FMU shall be configured to provide remote access to all devices within the traffic control cabinet that have a web interface via the FMU web-based software. This feature shall not require the end user to create a separate VPN connection to the FMU.
- R. The FMU shall perform a load test of the connected Battery Backup System (BBS) batteries on a scheduled or on demand basis (if applicable).
- S. The FMU shall, within the size limitations above, include a battery and battery charging/monitoring circuit to allow the FMU to function correctly even when all power to the intersection has failed. The battery shall continue to power the FMU for a minimum of 5 hours after all power has failed to the intersection.
- T. The FMU shall incorporate an integrated GPS which will allow the FMU to geo-locate itself on the FMU management software map, without configuration.

**ITEMS 816.01, 816.02 AND 816.03 (Continued)**

- U. The FMU shall be connected to the traffic signal controller to provide GPS time sync pulse for the traffic signal internal clock.
- V. The FMU shall operate without requiring a static IP address. The only configuration required at the FMU is to enter the URL of where the FMU management software is hosted.
- W. In the event that the cell service is interrupted or is not available, the FMU shall store any events that occur in its internal memory and forward these events automatically to the FMU management software when the cell service is restored. In this way, a complete record of events at the device can be maintained even if cell service is interrupted for a period of time. The system shall store 5,000 events.
- X. The FMU shall utilize HTTP and HTTPS protocols, and XML data structures, for communication with the FMU management software. In this way the data shall be scalable for future expansion and competition. The use of custom proprietary protocols is not permitted.
- Y. The FMU shall include Ethernet communications via an Ethernet Port with RJ45 connector.
- Z. The FMU shall include an integrated four port Ethernet switch.
- AA. The FMU shall be supplied and installed to include weatherproof antennas to support operations.
- BB. The FMU shall be supplied, installed, and configured by the Contractor with map display management software that has the following features:
  - The FMU shall include a scrollable, zoomable map display, with the intersections and other monitored devices shown as representative icons on the map. The map shall include the ability to see the intersections using Google Streetview or similar.
  - The alarm status of the intersection shall be clearly indicated on the icon on the map so that the user can see at a glance which intersections are in an alarm condition.
  - The map display shall also include a list of intersections, with the number and priority of alarms indicated on the list. Intersections in high priority alarm shall be moved to the top of the list, followed by medium priority, low priority and then finally by intersections not in an alarm state.

**ITEMS 816.01, 816.02 AND 816.03** (Continued)

- The icons shall dynamically change to be able to clearly indicate if an intersection is offline.
- Clicking on the icon on the map shall expose a display window with the current parameters of the intersection shown.
- The default map display position and zoom shall be configurable by user so that the user's view will default to show the intersections that the user is responsible for managing.
- The map view shall have the ability to show Google traffic overlays on the map.

CC. The FMU shall be supplied, installed, and configured by the Contractor with intersection detail display management software that has the following features:

- It shall be possible to drill down, either from the map icon or from the list, to a device level detail for the intersection. The cabinet shall be fully wired to support the following parameters that shall be monitored and displayed:
  - The alarm status, with priority indicated, and a text description of the alarm (if an alarm is present for this device).
    - The time since the last communication with the device.
    - The following parameters (real time values, minimum for the day values, maximum for the day values, and average for the day values).
      - The AC mains voltage (value)
      - The battery back-up voltage (value)
      - The cabinet temperature (value)
      - The cabinet humidity (value)
      - The presence of AC power (OK or Fail)
      - The flashing status of the intersection (OK or Flashing)
      - Stop Time status (OK or Stop Time Active)
      - The cabinet door status (Open or Closed)
      - The intersection fan status (Fan on or Fan off)
- It shall be possible to view graphs of each of the value parameters in graphical form over the most recent two-week period. This includes real time graphs of:
  - The AC mains voltage
  - The battery back-up voltage
  - The cabinet temperature
  - The cabinet humidity

**ITEMS 816.01, 816.02 AND 816.03** (Continued)

- DD. The FMU shall be supplied, installed, and configured by the Contractor with a diagnostics and log display management software that meets or exceeds the following:
- From the device level detail within the FMU management software, it shall be possible to drill down to get the raw data; the error logs; and the communications logs to allow a technician to fault-find problems.
  - It shall be able to filter the logs by Device; by Device Type and/or by Group as well as between dates.
  - It shall be able to print these selected logs to a local printer or a PDF file.
  - It shall be able to export these logs to Excel on the local computer for further analysis.
- EE. The FMU shall be supplied, installed, and configured by the Contractor with an alarm management software that meets or exceeds the following:
- The FMU management software shall have a comprehensive alarm generation capability.
  - It shall be able to configure alarms to be generated on any parameter that indicates a value that is out of tolerance, including analog values, digital values, and enumerated values.
  - Alarms shall be configurable to be of Low, High or Critical Priority.
  - The alarm priority shall be displayed throughout the FMU management software, on all displays using color codes such as red-critical; yellow-high; and amber-low to indicate the priority of the alarm.
  - The current active alarms shall be accessible for viewing via an expandable window, to observe which alarms are active and when the alarm occurred. The highest priority alarms shall rise to the top of the list.
- FF. The FMU shall be supplied, installed, and configured by the Contractor with alerts management software that meets or exceeds the following:
- The FMU management software shall have a comprehensive alerting function to enable the response personnel to be notified when an abnormal situation has occurred.
  - It shall be able to configure alerts to one or more personnel for each alarm. This will cause, as selected, an SMS and/or an email to be sent to the person when an alarm occurs.
  - The alert notification system shall be configurable by the system user to optionally send via email and/or via SMS message when an alarm clears.
  - The SMS and email alerts shall be issued within 30 seconds of the occurrence of an event which results in an alert being issued.

**ITEMS 816.01, 816.02 AND 816.03** (Continued)

- GG. The FMU shall be supplied, installed, and configured by the Contractor with connectivity and server management software that meets or exceeds the following:
- The Contractor shall supply the FMU with the FMU manufacturers 10-year options for Connectivity and Service, as part of the purchase price. The Connectivity and Service agreement shall include at a minimum:
    - Cellular Connectivity
    - No cellular overage charges
    - Video Streaming via the manufacturer's web based interface
    - Extended warranty on the hardware for the period of the Connectivity and Service Agreement
    - Over-the-air software updates
    - Over-the-air security updates
    - Remote Front Panel of the connected traffic signal controller
    - SPaT message broadcast to mobile device application
    - Future Connected Vehicles Service
- HH. The FMU shall be configured for SPaT data.
- II. The FMU shall be supplied with the unlimited video/data streaming service.
- JJ. The FMU shall be configured with Traffic Signal Controller remote front panel access.
- KK. The FMU shall be configured to supply streaming video from the detection system.
- LL. At the time of the shop drawing submittal, Contractor shall supply a detailed list of available FMU functions for the agency consideration.

**Cabinet Documentation (Hard Copy/ Flash Drive)**

For each cabinet the Contractor shall supply a full set of cabinet wiring diagrams. The wiring diagrams shall depict all of the as-built cabinet wiring routing and terminations. Each in-cabinet device (switches, relays, connectors, surge protection devices, etc.) shall be labeled on the wiring diagram as to the function the device serves.

Three copies of the database programming for all in cabinet devices shall be provided with each cabinet. The database programming sheets shall reflect as-built programming resident in each unit at the time of acceptance. A printout of the databases contained in the controller, CMU, Preemption, Video Detection, or any other equipment shall be provided to the Engineer. The databases shall be provided in both hard copy printouts and on a USB "thumb drive."

Operating and maintenance manuals for all in cabinet devices shall be provided in both electronic format as well as hard copy.

**ITEMS 816.01, 816.02 AND 816.03** (Continued)**Spare Equipment**

Each Cabinet shall be supplied with the following spare equipment:

- A full complement of switch packs, switch packs shall comply with ATCC 5301 v02.
- A full complement of flashers, flashers shall comply with ATCC 5301 v02.
- A full complement of Serial Interface Units (SIU), (SIU) shall comply with ATCC 5301 v02.
- A full complement of flash transfer relays, flash transfer relays shall comply with ATCC 5301 v02.
- two (2) additional SIU's, thirty-two (32) additional Phoenix connectors,
- one (1) additional CMU USB datakey programmer tool with software shall be supplied.

All spare equipment required to be supplied with the cabinets shall be stored in the SLR and any additional spare equipment shall be placed on the Power and Auxiliary side shelves. No spare equipment shall be placed on the interior cabinet foundation.

**Wiring and Service Connections**

All conduit runs shall be sealed with an approved sealing compound at all manholes, handholes, pullboxes, junction boxes, cabinets and foundations to form a complete duct system. Sealing foam materials shall not be accepted on this contract.

**Vehicle Detector**

Description:

The work under this heading shall consist of furnishing and installing Video Vehicle Detection System of type as shown on the plans or as directed and in accordance with these specifications:

Required Submittals:

Shop Drawings:

Submit 3 copies of shop drawings for the Video Vehicle Detection System and all hardware accessories in accordance with these specifications and the contract general requirements.

**ITEMS 816.01, 816.02 AND 816.03** (Continued)**Materials:**

All items and materials furnished shall be new, unused, current production models installed and operational in a user environment and shall be items currently in distribution.

The video vehicle detection system shall use a single fisheye camera to monitor all approaches.

This system shall include two (2) sets of the following equipment:

- All the detection system components such as the camera dome, processor unit, input/output cables, bishop's crook arm and self-leveling bracket and other hardware to install the camera and control units
- Data collection modules to collect Vehicle and Pedestrian data
- Each of the bishop's crook brackets shall be supplied with 2 rigid mounting brackets with triple cable clamps.
- An outdoor rated TFT-LCD display unit with VGA connector, VGA cable, shelf mount stand, and power supply
- A wireless router and a USB mouse

**Warranty and Training:**

All the components shall be warrantied by the Manufacturer for three (3) years from the date of final acceptance and all the software (including detection, pedestrian data collection, and turning movement data collection) shall be upgraded for 3 years at no additional cost.

The video detection system shall be warranted against manufacturing defects in materials and workmanship. It shall also be warranted for any manufacturer's hardware upgrades during this period irrespective of the functionality during this period. A written warranty shall be provided by the vendor for repair and/or replacement of all the components in this item. The video detection supplier shall provide all documentation necessary to maintain and operate the system.

**ITEMS 816.01, 816.02 AND 816.03** (Continued)**CONSTRUCTION METHODS**

The product manufacturer or supplier of the video detection system shall supervise the installation and the testing of the video equipment. The contractor shall install, make fully operational, and test the video vehicle detection system to operate the intersection drawings and this specification. The detection equipment shall be installed either in an existing or in a new controller cabinet. In TS2 cabinets, the processor unit shall be wired to receive all the required inputs and outputs. All the equipment shall be wired in the cabinet in a neat manner.

The camera position should be carefully adjusted to accommodate the field conditions such as any existing utility lines and other hardware blocking the view or any sun or lighting related issues. The camera mounting location and position shall accommodate error free detection under all lighting conditions. When required based on the intersection geometry, sun shade due to buildings, any trees or items blocking the view of one of the approaches the second camera installation may be needed and will be decided at the time of installation by the Engineer. Any unused components shall be returned to the supplier in original boxes.

**Accessible Pedestrian Signals**

Accessible pedestrian signals shall combine an ADA compliant push button with an audible pedestrian signal in one unit. The push button shall provide tactile and audible indication of the WALK interval and emit a locating tone during the WALK and DON'T WALK intervals. A sunlight-visible LED shall confirm when the button is pushed and remain on until the WALK phase goes into effect.

Accessible pedestrian signals shall include frame with standard sign, ADA compliant push button, mounting hardware, and control unit with the following field selectable options:

- Locating Tone
- Extended Push Activation
- Audible rapid "TICKS" (default), "CUCKOO", "CHIRP", or "WALK SIGN IS ON" voice message during the walk cycle
- Selectable times for duration of walk cycle sound
- Fixed or automatic volume adjustment of all sounds.

Under automatic adjustment the volume of the locating tone and audible sounds automatically adjust in relation to ambient noise levels. The volume of the locating tone and audible sounds are to be field adjusted prior testing and final acceptance.



**ITEMS 816.01, 816.02 AND 816.03 (Continued)****Wiring Diagrams (Permanent Signal Control Installation)**

Five sets of wiring diagrams for each control cabinet and all accessories shall be furnished including one Mylar reproducible copy and an electronic CADD file for each control cabinet when installed. All actual and potential terminal strip connections shall be shown. Accessory equipment includes flashers, switches, relays, detectors, etc.

All identification on the diagrams shall be as installed, and all field labeling shall be consistent with the diagrams. Furthermore, the format symbols, identifications, operating sequence, etc. common to all the intersection wiring diagrams shall be standardized and consistent with industry standards. Before acceptance of the job, the five copies of all operating and maintenance manuals and complete and accurate parts lists shall be supplied.

**Traffic Signal Led Module**

All signal and pedestrian displays shall be equipped with LED signal modules. All red, amber, green, and pedestrian signal housings with the exception of optically programmed and fiber optic housings and shall conform to the following where applicable:

- ITE's Vehicle Traffic Control Signal Heads – Light Emitting Diode (LED) Arrow Traffic Signal Supplement, Dated January 2008
- ITE's Vehicle Traffic Control Signal Heads – Light Emitting Diode (LED) Circular Signal Supplement, Dated June 27, 2005.
- ITE's Pedestrian and Countdown Signal Modules Compliant to PTCSI - Part 2 Light Emitting Diode (LED), Dated, February 2011
- On the MassDOT List of Qualified Traffic Control Equipment, Section 815: Traffic Control Signals

For an LED module to be installed on this project, the LED module shall have approval from the MassDOT Traffic Control Products Approved Equipment Committee and be included on the Qualified Traffic Control Equipment List prior to the date of this proposal

To prevent the LED module warranty from being voided, the connecting leads on the module shall not be cut. The original LED module leads shall be connected to the signal head terminal block as continuous wire without splices.

The LED signal module will be replaced or repaired by the manufacturer if it exhibits one of the following:

- A failure due to workmanship or material defects within the first 60 months of field operation.
- A greater than 40 percent light output degradation or a fall below the minimum intensity levels (as defined by the latest ITE performance specifications) within the first 36 months of field operation

**ITEMS 816.01, 816.02 AND 816.03** (Continued)**Emergency Vehicle Pre-emption**

All new controller units furnished under this Contract shall be capable of providing transit vehicle priority in addition to emergency vehicle preemption. Full priority logic will be integrated with coordination so that transit priority will not disrupt coordination. The controller units will have the capability of interfacing with and accepting input from the optical emergency preemption systems at each location.

**Contractor shall coordinate with the Longmeadow Fire Departments prior ordering the equipment.**

When optical energy impulses are received at the intersection, control of the signals shall transfer to the controller's internal pre-emption logic which shall cause the signal controller to show a selected display identical to one of the color interval displays normally available as specified, which will indicate a red signal to all conflicting movements to grant the emergency vehicle exclusive right of way through the intersection without cross street conflict. After the vehicle has passed through the intersection, control of the signals shall then return to normal operation which shall restore the appropriate timings that were in effect prior to pre-emption.

The following description of work specifies the responsibilities involved in the installation of optical emergency vehicle pre-emption.

The Contractor is required to supply material and labor required or shown for the complete installation of optical pre-emption equipment at this project. Intersection pre-emption equipment required includes optical detectors, cable, interfacing equipment to the controller, making electrical connections and all required incidentals.

The following are the operational requirements of the optical emergency vehicle pre-emption system:

Emergency Vehicle Design Speed for pre-emption controlled approaches shall be 30 mph. Operating sequence as specified shall be initiated when the optical detector receives optical energy of the required repetition rate from an emitter.

Detector shall transform the optical energy signals into electrical signals and transmit the electrical signals to the controller for processing.

Controller shall not respond to optical energy signals from another authorized vehicle.

The optical detector cable shall meet the specifications of the system manufacturer.

The Contractor shall bear responsibility for performing the following field supervision and turn-on services:

The Contractor shall select the proper quantity and place and method of installing all components to comply with the operational requirements shown in the pre-emption schedule included in these special provisions.

**ITEMS 816.01, 816.02 AND 816.03** (Continued)

The Contractor shall instruct personnel in the procedures of installation.

The Contractor shall be available to assist, supervise and check all wiring to insure proper operation.

The Contractor shall perform a final check out to include initial adjustment of range and timing to acceptable standards.

The Contractor shall initiate documentation for as-built drawings.

The Contractor shall demonstrate the system and instruct the drivers of emergency vehicles and other authorities in the operation of the system.

The representative shall instruct maintenance personnel in routine maintenance and minor troubleshooting of the system.

Any operation problems occurring within the next 30 days shall be corrected by the Contractor or by a Field Service representative if the Contractor cannot do so.

The cost of these field supervision and turn-on services shall be included in the Lump Sum Bid Price, and no additional payment shall be made therefore.

Pre-emption System Design and Documentation shall include the following:

Provide the installing agency with location for detector installation.

Provide the controller manufacturer, Engineer and owner with electrical diagrams.

The installer shall install the equipment consistent with the pre-emption equipment, the manufacturer's recommended installation procedures and electrical diagrams in a neat and workmanlike manner.

The pre-emption equipment manufacturer shall be responsible for operational checkouts of the specified pre-emption functions prior to final acceptance and approval by the Engineer.

Operating checkouts include the following:

Verify that priority system timing and range are properly set.

Pre-emption equipment warranties are put into effect.

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**ITEMS 816.01, 816.02 AND 816.03 (Continued)****Signal Housings**

Vehicular Signal Heads - All indications shall be equipped with a standard **tunnel** visor and black 5" non-louvered backplates with 3" yellow reflective tape borders. The reflective tape shall not extend into or cover any part of the non-louvered area.

Vehicular Signal Heads - Mounting hardware for side-of-shaft mounting shall be heavy-duty blind shaft clamps with couplings. The final adjustment of the facing of signals shall be made as directed by the Engineer after all the signals are operating, but prior to installing the through bolt above.

**Pedestrian Signal Heads and Indications**

This specification refers to definitions and practices described in "Pedestrian Traffic Control Signal Indications" published in the Equipment and Materials Standards of the Institute of Transportation Engineers, referred to in this document as "PTCSI."

Module Installation: Installation of a module into existing signal housing shall not require the use of special tools. The module shall connect directly to existing electrical wiring system.

Minimum Message Bearing Surface Size: The minimum size of the message bearing surface of a module shall be 16 in x 16 in.

**LED Signal Module**

Module Installation: A module shall be capable of replacing the existing optical components or signal module in a signal housing, or shall provide a complete replacement of the signal head.

Hard Coat (Optional): The module lens may be hard coated or otherwise made to comply with the UV material exposure and weathering effects requirements of the Society of Automotive Engineers (SAE) J576.

Unlit Illumination: When not energized, the WALKING PERSON (symbolizing WALK) and UPRaised HAND (symbolizing DONT WALK) symbols shall not be readily visible to pedestrians at the far end of the crosswalk that the pedestrian signal head indications control.

Replaceable Lens: The module lens may be a replaceable part, without the need to replace the complete LED signal module.

Countdown Display (For Modules with Countdown): The countdown pedestrian signal module shall be made up of two digits and shall be located next to the associated upraised hand symbol.

Pedestrian Change Interval: The countdown pedestrian signal shall display the time remaining, in seconds, beginning at the start of the pedestrian change interval and ending at the termination of the pedestrian change interval. Countdown displays shall not be used during the walk interval. After the countdown displays zero, the display shall remain dark until the beginning of the next pedestrian change interval.

**ITEMS 816.01, 816.02 AND 816.03** (Continued)

**Countdown Range:** The countdown display shall be capable of counting down from 99 to 0. Leading zeros on numbers less than 10 shall be blanked (i.e. Displaying 09, 08, 07 ... 01, 00 is unacceptable). Numbers less than 10 shall be displayed in the right hand digit of the countdown display.

**Display of the “1” Digit:** The display of the digit “1” must be displayed in the right hand portion of the digit segment.

**Learning Cycle:** The countdown learning cycle may only be initiated after the initial installation; a return from a power failure greater than 2 seconds; a repeated demand to change programming; or after preemption. During the learning cycle, the countdown display shall remain blank. The learning cycle shall not last more than two complete cycles.

**Countdown Timer:** During the pedestrian change interval, the display of each number in the countdown sequence; the interval from the display of one number to the display of the subsequent number in the sequence; and the display of the “0” at the end of the countdown cycle (before going blank) shall be 1 second  $\pm$  0.04 seconds. At no point in time during the countdown interval shall the digit display go entirely blank.

**Preemption:** If the pedestrian change interval is interrupted or shortened as a part of a transition into a preemption sequence (Re: Section 4E.10 MUTCD 2009), the countdown pedestrian signal display should be discontinued and go dark upon activation of the preemption transition.

The stored countdown timing value that represents duration of the Pedestrian Change Interval shall be determined by measuring the time in seconds between the end of the WALK indication and the start of the solid DONT WALK indication.

**Symbol Configurations:** The configurations of the walking person icon, the upraised hand icon and numeric digits are illustrated on the plans.

**Environmental Resistance:** All exposed components of a module shall be suitable for prolonged exposure to the environment, without appreciable degradation that would interfere with function or appearance. As a minimum, selected materials shall be rated for service for a period of a minimum of 60 months in a south-facing Arizona Desert installation.

**Operating Temperature Range:** A module shall be rated for use throughout an ambient operating temperature range, measured at the exposed rear of the module, of -40°C (-40°F) to +74°C (+165°F).

**Moisture Intrusion:** A module shall be protected against dust and moisture intrusion, including rain and blowing rain.

**UV Resistance:** The module lens shall not crack, craze, or yellow due to solar UV irradiation

**ITEMS 816.01, 816.02 AND 816.03** (Continued)**CONSTRUCTION**

Configuration: A module shall be a self-contained device, not requiring on-site assembly for installation into existing signal housing. The power supply for the module may be either integral or packaged as a separate component.

Shock and Vibration Resistance: Assembly and manufacturing processes for the module shall be designed to ensure all internal LED and electronic components are adequately supported to withstand mechanical shock and vibration due to high winds and other sources.

**MATERIALS**

Materials: Materials used for the lens and module construction shall conform to ASTM specifications for the materials where applicable.

Flammability Resistance: Enclosures containing either the power supply or electronic components of the module shall be made of UL94V0 flame retardant materials. The module lens is excluded from this requirement.

**Module Identification**

Identification Label: Each module shall be identified on the backside with the manufacturer's name, model, operating characteristics and serial number. The operating characteristics of each symbol shall be identified and shall include the nominal operating voltage and stabilized power consumption as defined in Section 6.3.5 in watts and volt-amperes. The operating characteristics of the countdown shall be for the countdown displaying the "88" digits. The identification labels shall be permanent in nature and must last and be legible through the operating life of the module(s) through its normal operating conditions and environment.

PTCSI Conformance Label: Modules conforming to all non-optional requirements of this specification may have the following statement on an attached label: "Manufactured in Conformance with the ITE Pedestrian Traffic Control Signal Indicators - Light Emitting Diode (LED) Signal Modules Date of Latest Publication".

**Pullbox**

Pullboxes shall conform to Subsection 801 and SD2.031 of the Standard Drawings for Traffic Signals and Highway Lighting.

**Maintenance of Existing Traffic Signal System**

Included under these items is the maintenance of the existing signal system. Existing signal system is to remain operational during the entire construction period until the proposed system is activated. Such work shall include, if necessary, temporary erection and wiring of relocated controller cabinet, signal posts, traffic signal housings and all other work required to maintain the existing signal systems.

**ITEMS 816.01, 816.02 AND 816.03** (Continued)

The Contractor shall pay for the use of police details necessary to control traffic at this location due to failure of the existing system caused by operations of the Contractor.

The Contractor shall schedule his/her work to prevent/reduce unreasonable and unnecessary traffic congestion by installing and have ready for operation new traffic signal equipment before removing existing traffic signal equipment. The Contractor shall not leave any phase without detection for a period longer than two (2) weeks.

It shall be the responsibility of the Contractor to provide all labor, equipment and material required for the maintenance or full repair of all temporary and proposed traffic control equipment within the project limits, including damage by automobile accident, from the date of written notice given to the Engineer that the Contractor will work on or near an existing signal, until the date when the District Highway Director shall recommend acceptance of the completed project. This written notice must be given before the Contractor may proceed with any traffic signal system work.

For the purpose of these paragraphs, the phrase "Traffic Signal Control Equipment" is intended to include, but is not limited to: controllers, detectors, signal housings, supporting structures, cabinets, wires, conduit and all other ancillary electrical equipment used for traffic control.

**Final Inspection and Acceptance**

Upon successful completion of the 30-day testing period wherein the traffic signal installation has operated for 30 days without failure, the contractor shall notify the Engineer. The Engineer will make a final inspection of the installation in the presence of the Department, the City and the Contractor. An inspection check will be made to ensure that all equipment, materials, installation and operations are in accordance with the construction contract, plans and specifications. Items to be checked will include, but not be limited to, traffic controller operation, controller cabinet equipment, detection equipment type and operation, signal and detector loop wiring, documents (wiring diagrams, as-built plans, instruction manuals, parts lists, warranties, grounding resistivity test report, loop detector test report, etc.), signs, and pavement markings, and street hardware (posts, bases, housings, mast arms, brackets, pull boxes, etc.).

The Engineer will notify the Contractor in writing of any items in which the inspection reveals that the work is incomplete, defective, or does not otherwise meet the project specifications. The Contractor shall perform the corrective actions necessary to achieve final acceptance by the City. These corrective actions shall be done by and at the expense of the Contractor, and within 15 days of the date of the inspection report, unless otherwise approved in writing by the Department.

**As-built Plans**

As-built drawings shall be supplied to MassDOT, and the Town of Longmeadow before acceptance of the traffic signals in accordance with Subsection 815.67. The Contractor shall supply the Engineer with marked-up plans or hand sketches to indicate equipment that has been installed in a location that differs from the contract drawings. Conduit shall be drawn with ties to enable future dig-safe requests.

**ITEMS 816.01, 816.02 AND 816.03** (Continued)**COMPENSATION**

Items 816.01, 816.02, and 816.03 will be paid for at their respective Contract Lump Sum price, which price shall include all labor, material, equipment and incidental costs required to complete work.

The cost of maintenance of the proposed traffic signal equipment until final acceptance shall be deemed to be included and no additional payments shall be made.

All tests and any necessary repairs and replacements required to produce a fault-free traffic control system shall be included in the respective lump sum bid price for this item.

Conduit will be paid separately under Item 804.3, 3-inch Electrical Conduit Type NM-Plastic (UL).

Pull boxes will be paid separately under Item 811.31.



**ITEM 816.90****TRAFFIC CONTROL SIGNAL REMOVED  
AND TRANSPORTED****LUMP SUM**

The work under this item shall conform to the relevant provisions of Section 800 of the Standard Specifications and the following:

The work under this Item includes removing existing traffic control signals and appurtenances at the locations designated on the Plans and as required by the Engineer. The existing traffic control signals and appurtenances, if determined to be in suitable condition, shall remain the property of the Town of Longmeadow. The Contractor shall advise the owner that the material is available and arrange for transport. Traffic control signals to be removed and transported shall be removed, and transported to the Town DPW yard and offloaded and stacked on dunnage per the direction of the Town Engineer without additional compensation.

The work shall include the Traffic control signals and appurtenances to be removed and transported at the following intersections:

Location No. 1: Longmeadow St/Forest Glen Rd/Western Ave  
Location No. 2: Longmeadow St/Converse St/Englewood Rd  
Location No. 3: Converse St/Laurel St

Existing traffic control signals and appurtenances shall only be removed once the proposed traffic control signal is operational, or provision made for temporary traffic control and the Engineer has given approval for their removal.

If the Engineer determines that any part of the traffic control signals and appurtenances are unsuitable for reuse, or if the owner decides to abandon part or all such materials, said materials shall become the property of the Contractor, and he shall dispose of them away from the site. Compensation for the removal and disposal of unsuitable or abandoned material shall be included under this Item.

**BASIS OF PAYMENT**

Item 816.90 will be paid at the Contract Unit Lump Sum Bid Price per for the three traffic control signals locations to be removed and transported. The Contract Unit Price Bid shall include all materials, excavation, labor, equipment and incidental costs required to complete the work.

**ITEM 817.8****ORNAMENTAL TRAFFIC SIGNAL SUPPORTS****LUMP SUM**

The work under this Item shall conform to the relevant provisions of Section 800 of the Standard Specifications, the 2009 Manual on Uniform Traffic Control Devices (MUTCD). The work under this Item shall conform to all requirements of Items 816.01, 816.02 and 816.03, Traffic Signal Reconstruction with the following revisions:

The work of this item shall be to furnish the ornamental mast arm poles, fittings, clamps and required accessories in accordance with the Standard Specifications and design criteria. The quantity of ornamental traffic signal supports furnished shall be as shown on the traffic control signal major item list.

Soil boring logs with soil type recommendations are furnished in the plans. These soil type recommendations were used to select the standard foundation designs specified in the Contract drawings. In the event that the Contractor encounters soil conditions or ledge which prevent the use of the specified MassDOT standard foundation type, the Contractor is responsible for notifying the Design Engineer, who will select and design an alternative foundation type that conforms with AASHTO Standards. Alternative foundation types could include spread footings, coring and socketing into rock or other foundations previously used to support similar loads, within reason.

The Contractor shall request written approval from the Engineer before the placement of any concrete for foundations of mast arms, signal posts, and cabinets.

In the event that the Contractor encounters soil conditions or ledge which prevent the use of the specified MassDOT standard foundation type, the Contractor is responsible for notifying the Design Engineer, who will select and design an alternative foundation type that conforms with AASHTO Standards. Alternative foundation types could include spread footings, coring and socketing into rock or other foundations previously used to support similar loads, within reason.

Prior to installation, the Contractor shall notify the Engineer in writing of his selection of mast arm footing size

The intent of this item is to provide ornamental structures that match those that are installed at the Converse St/Dickinson St intersection to the east of the project limits. As a minimum this ornamental equipment shall meet the following requirements:

**Mast Arm/Pole**

Pole Shaft:	Tapered steel shaft, decorative 16-flute with handhole at base
Mast Arm:	Tapered steel arm, curved, upswept with 5' rise, decorative flute
Pole Base:	Anchor base
Pole Top:	Cap
Hardware:	Stainless steel

**ITEM 817.8** (Continued)

For painting requirements refer to the heading titled “Equipment Finish and Color” under Item 816.01.

The poles shall conform to the latest edition of the AASHTO (American Association of State Highway and Transportation Officials) Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals criteria for a wind zone of 130 mph with a 50 year Design Life using Fatigue Category No. 2 and in accordance with the Massachusetts Department of Transportation - Highway Division Overhead Signal Structure Standard Drawings, dated December 2015.

Acceptance of mast arm pole will be contingent upon review and approval of shop drawings submitted by the Contractor.

Any mast arm pole that deviates from the MassDOT’s Standard Drawings shall require the submission of longhand design calculations by the Contractor with the shop drawings. The Contractor shall provide a set of calculations, stamped by a Structural Engineer registered in the Commonwealth of Massachusetts, along with plans and specifications for review by the Engineer.

The pole shaft shall be fabricated from commercial quality hot rolled steel. The shaft shall have only one (1) longitudinal, automatically, electrically welded joint and shall have no intermediate horizontal joints or welds. Only one (1) length of steel sheet shall be used, which shall be formed into a continuously tapered shaft, having a taper of approximately 0.14” per foot.

After forming and welding, the tapered shaft shall be longitudinally cold rolled over a hardened steel mandrel under sufficient hydraulic pressure to flatten the weld and increase the physical characteristics of the shaft. The shaft shall meet the chemical and physical properties of ASTM A595 Grade A, having minimum yield strength of 55,000 psi. The cold rolling process shall form a 16 flute cross section for the pole upright shaft. The 16 fluted strain poles shall have 16 equally spaced Doric flutes, sharp and clear-cut throughout the entire length of the shaft.

The base plate shall conform to ASTM A36. It shall telescope the shaft and be attached by means of two continuous welds, one on the inside of the base at the end of the shaft, the other one on the outside at the top of the base. ITEMS 817.8 (Continued)

Included with each pole shall be steel anchor bolts, complete with double hex nuts and washers. Nuts, washers and threaded areas of anchor bolts shall be fully hot-dipped galvanized to ASTM A153. Anchor bolts shall have minimum yield strength of 55,000 psi.

The pole shaft shall be furnished with a 4”x8” reinforcing handhole frame and a 1/2” – 13 UNC grounding provision.

Each pole shall be provided with a pole cap. The pole top shall be mechanically attached to the top of the shaft to provide access for wiring signals secured by a J-hook wire support; also provided. Material shall conform to the requirements of AA-319 aluminum.

**ITEM 817.8** (Continued)

Couplings shall be welded into the pole for supporting pole side mounted banners, signs, and traffic or pedestrian signals as required. The installer shall supply angular orientations and vertical spacing of the couplings. No stainless-steel banding shall be used.

All welding is to be performed in accordance with the requirements of AWS D1.1 in a shop certified to the American Institute of Steel Construction (AISC) Category SBR. The shop performing the work shall also be an approved fabricator of steel traffic poles for the Commonwealth of Massachusetts.

Poles, arms and other structural steel items shall be hot dipped galvanized to the requirements of ASTM A123. After galvanizing, the poles shall be baked at 375 degrees for two hours to remove entrapped hydrogen gas. The galvanized surfaces will then be solvent wiped to an SSPC-SP-1. After wiping, the galvanized exterior surfaces will be brush blasted to an SSPC-SP-7. Apply one coat of polyamide epoxy primer similar to Sherwin Williams DFT of 4-6 mils to all exterior surfaces. Finish paint with one coat of polyurethane enamel corothane, similar to Sherwin Williams polane 2.8 plus or hi-solids polyurethane to a DFT of 2-3 mils. After finish painting, each pole shall be wrapped in ripple kraft paper and packaged in corrugated cardboard prior to shipment.

Finish painted color of all signal supports shall be gloss black.

**COMPENSATION**

Item 817.8 will be paid at the Contract Unit Lump Sum Bid Price which price shall include full compensation for furnishing all labor, materials, tools, and equipment required to fabricate and transport the ornamental mast arm poles to the job site, shop drawings, submittals, and incidental cost required to complete the work.

The cost for installation of these items including their foundations shall be included under the respective lump sum Item 816.01, Traffic Signal Reconstruction Location No. 1, lump sum Item 816.02, Traffic Signal Reconstruction Location No. 2, or lump sum Item 816.03 Traffic Signal Reconstruction Location No.

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<b><u>ITEM 823.70</u></b>	<b><u>HIGHWAY LIGHTING POLE AND LUMINAIRE REMOVED AND RESET</u></b>	<b><u>EACH</u></b>
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The work under this Item shall conform to the relevant provisions of Subsection 820 of the Standard Specifications, these Special Provisions, the Plans and as follows:

This work includes carefully removing existing street lighting post, bracket arms, luminaires, handholes, underground conduit, wire. The work also includes resetting the equipment at the locations shown within the utility plans or the direction of the Engineer. The cost for any damage to this equipment, due to the Contractor's operations shall be repaired by the Contractor to the satisfaction of the Engineer without additional compensation.

The Contractor shall remove all identified existing street lighting bases, posts, bracket arms and luminaires. The contractor shall remove existing conduit, wire and handhole to the removed street light and install new conduit (2" Electrical Conduit, Type NM Plastic), wire and handhole (as required) to the new location identified. It is the responsibility of the contractor to have Eversource disconnect and reconnect the service to the street light.

The Contractor shall verify that the minimum clear path of 36 inches excluding the width of the curb can be maintained before installing the street light foundations and light poles.

The contractor is responsible for maintaining street lighting on Longmeadow Street and Converse Street within the areas that are currently lit during evening hours.

It is the responsibility of the contractor to have Eversource disconnect all unused power to the street lights circuits identified for removal. The contractor shall provide an affidavit at the conclusion of the contract stating that all the street lights, pull box and handhole covers were checked for and are free of any stray voltage and all unused circuits were de-energized permanently by Eversource. The contractor shall disconnect all the identified existing underground street light circuits at the point of attachment at the Eversource service connection point.

### **METHOD OF MEASUREMENT**

Item 823.70 will be measured for payment by the Each Highway Lighting Pole and Luminaire unit removed and reset.

### **BASIS OF PAYMENT**

Item 823.70 will be paid at the Contract unit bid price per Each, which price shall include all labor, materials, equipment, conduits, wire, and equipment required for proper relocation and energizing, and incidental costs required to complete the work.

Proposed light pole foundations will be paid under Item 812.09 which price shall also include removal and disposal of existing foundations.

**ITEM 852.11**  
**ITEM 852.12****TEMPORARY PEDESTRIAN BARRICADE**  
**TEMPORARY PEDESTRIAN CURB RAMP****FOOT**  
**EACH****DESCRIPTON**

Work under these items consist of furnishing, deploying, maintaining in proper operating conditions, and removing temporary pedestrian barricades and temporary pedestrian ramps as part of a Temporary Pedestrian Access Route (TPAR) in order to guide pedestrians around a fully- or partially-closed sidewalk. These devices are intended to prevent pedestrians from entering the work area and to prevent pedestrians from inadvertently entering the vehicle travel lane by providing visual and physical separation between each space.

**MATERIALS**

The Temporary Pedestrian Barricade shall have a continuous bottom rail or edge no more than two (2) inches above the ground and eight (8) inches in height (minimum) to accommodate cane users, have a smooth and continuous hand railing along the top edge no less than 32 inches above the ground and not obstruct or project into the pedestrian path of travel. Barricade walls shall be nearly vertical and generally within the same plane.

If exposed to traffic, Temporary Pedestrian Barricades shall be crashworthy.

The Temporary Pedestrian Curb Ramp shall provide a 48 inch minimum width, with a firm, stable, and non-slip surface. Protective edging with a two (2) inch minimum height shall be installed when the curb ramp or landing platform has a vertical drop of six (6) inches or greater.

The Temporary Pedestrian Curb Ramp walkway and landing area surface shall be of a solid, continuous, contrasting color abutting up to the existing sidewalk.

If a Temporary Pedestrian Curb Ramp leads to a crosswalk, a detectable warning pad must be used at the base of the ramp; if it leads to a protected path that does not conflict with vehicular traffic then a detectable pad shall not be used.

**CONSTRUCTION METHODS**

The Temporary Pedestrian Barricade shall be placed in an area that will provide pedestrians with a TPAR on a smooth, continuous hard surface for its entirety. The geometry and alignment of the facility shall meet the applicable requirements of the “Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities” and the Massachusetts Architectural Access Board.

The recommended width of the TPAR is 60 inches, but if constraints exist a minimum clear width of 48 inches shall be provided along its entirety. If a 60 inch width cannot be accommodated in full, a 60 inch by 60 inch passing space shall be provided every 200 feet or less along the TPAR.

Turning areas shall be 60 inches by 60 inches minimum.

**ITEMS 852.11 AND 852.12** (Continued)

Lateral joints between any surfaces shall not exceed 0.5 inches. Lateral edges may be vertical up to 0.25 inches high and shall be beveled at 1V:2H between 0.25 inches and 0.5 inches.

The TPAR shall be kept clear of debris, snow, and ice and the Temporary Pedestrian Barricades and Temporary Pedestrian Curb Ramps shall not obstruct drainage.

Removal and/or resetting of Temporary Pedestrian Barricades and Temporary Pedestrian Curb Ramps shall be considered incidental.

**COMPENSATION**

Payment for Temporary Pedestrian Barricades will be made at the contract price per foot installed in place, including all incidental items. This price shall include the cost of furnishing, installing, resetting, removal, and maintaining in good working condition.

Payment for Temporary Pedestrian Curb Ramps will be made at the contract price per each unit installed in place, including all incidental items. This price shall include the cost of furnishing, installing, resetting, removal, and maintaining in good working condition.

**ITEM 864.1      GREEN FRICTION SURFACE FOR BIKE LANES    SQUARE FOOT**

The work under this Item shall conform to the relevant provisions of Subsection 860 of the Standard Specifications and the following:

The work under this Item shall consist of furnishing and placing a Green Friction Surface (GFS) for bicycle safety, for bike boxes and approaches, lanes and other areas such as driveway crossings at intersection and as identified in the Contract Drawings.

Green Friction Surface may also be used to mask an existing legend in locations shown on the Drawings or as required by the Engineer.

The GFS shall be comprised of furnishing and installing a green color surface per Manual of Uniform Traffic Control Devices (MUTCD), and as shown on the plans.

The acceptable manufacturers and products and/or an equal manufactured project are as follows:

**Traffic Calming USA**

TrafficGrip (Coated Stone – Color Coated Aggregates)

Resin-based binder with color aggregate binding system

Description: TrafficGrip bike lane green stone is applied using epoxy. Our product is warranted for 4 years against UV fading (*Link: TrafficGrip Colored aggregate data sheet pdf*).

Contact: Glyn Owen (glyn@trafficalmingusa.com)

(770) 550-4044

317 A, NorthPoint Parkway

Acworth, Georgia, 30102

<https://trafficalmingusa.com/>

**Ennis-Flint**

CycleGrip®MMA

Methyl-Methacrylate (MMA)

Description: Green color lane surface ideal for long lane areas with low to high vehicle traffic including cross-over points such as parking lot entries/exits along the corridor.

Contact: Scott Seeley (sseeley@ennistraffic.com)

(800) 331-8118 ext. 3619

115 Todd Court

Thomasville, NC 27360

<https://www.ppg.com/en-US/traffic/products>



**ITEM 864.1** (Continued)**Transpo Industries, Inc.**

Color-Safe®

Methyl-Methacrylate (MMA)

Description: Color-Safe® is your solution for long lasting bike paths, bus lanes, crosswalks, and pedestrian areas. It is an MMA based material that outperforms paint and epoxies in color retention and durability. Color-Safe® is available in standard and custom PMS colors and capable of full cure in a wide range of temperatures.

Contact: Michael S. Stenko (Mstenko@transpo.com)

(914) 636-1000

20 Jones Street

New Rochelle, NY 10801

<https://transpo.com/products/pavement-marking/bike-lanes/>

**QUALITY CONTROL****A. General**

The installer shall submit a minimum of three projects with the owner's contact information on which Green Friction Surface for Bike safety has been placed within the past three years. An installer who does not meeting this minimum shall be allowed if they are certified by the manufacturer to install and a manufacturer's representative is onsite during installations.

**B. Quality Control (QC) Plan**

The QC plan for furnishing and installing the Green Friction Surface shall detail installer's key personnel, equipment, materials, proposed methods of installation, materials blending procedures, Monitoring of ambient temperature, proposed methods of curing and corrective action plan. The Contractor shall submit a QC plan with any pertinent shop drawings and product literature and materials safety data to the Engineer for approval at least 30 days prior to placement of the Control Section.

The Contractor shall include at least one (1) friction testing of surfaces, as-installed on the Project (see Control Section).

**C. Control Section**

The Contractor shall construct a controls section with a minimum area of one square yard to represent The Green Friction Surface for Bike Lane. The green color, the surface texture, materials and installation, shall be presented for acceptance and approval by the Engineer and the Town of Longmeadow prior to installation. The control section may be constructed as a Green Friction Surface on the project and if accepted may remain as part of completed work.

**ITEM 864.1** (Continued)**EQUIPMENT AND APPLICATION REQUIREMENTS****A. Construction Requirements**

A manufacturer's representative shall be present at the jobsite during construction of the control section. All construction operations shall meet the manufacturer's recommendations. Final approval will be given by the Engineer.

**B. Weather Limitations**

Green Friction Surface for Bike Lane shall not be placed on any wet surface when the ambient temperature and humidity or the pavement temperature is below the manufacturer's recommendations or when the anticipated weather conditions would prevent the proper application and curing of the surface treatment as required by the manufacturer's representative.

**C. Surface Preparations**

The surface shall be clean, dry and free of all dust, oil, debris and any other material that might interfere with the bond to the existing surface as recommended by the manufacturer's representative. The manufacturer's specification shall control the installation on any new HMA pavement paved in the previous 30 days with motor vehicle traffic of 60 days without motor vehicle traffic.

The Contractor shall pre-treat any joints and cracks per the manufacturer's recommendation.

All existing edge line pavement markings that are adjacent to the GFS location shall be covered and protected as approved by the Engineer prior to performing surface preparation. GFS shall not be placed over existing pavement markings or rumble strips. Lane line pavement markings that conflict with GFS installation shall be removed by methods approved by the manufacturer's representative. Any existing edge line pavement markings that are damaged during the GFS application process shall be replaced at the Contractor's expenses per direction of the Engineer.

GFS shall be allowed to cure for the minimum duration as recommended by the binder component supplier's specification and during that time the application areas shall be closed to all vehicles and Contractor's equipment traffic. After placement and cure of the GFS, the Contractor shall test the finished surface to detect unbonded areas.

Excess and loose aggregate shall be removed from the travel way and shoulders in such a way that the GFS is not damaged or disturbed. Excess aggregate that can be reused shall be clean, uncontaminated, and dry, if it is to be re-used in the GFS application.

Utilities, drainage structures, curbs and any other structures within or adjacent to the treatment location shall be protected against the application of the GFS materials.

**ITEM 864.1** (Continued)**D. Surface Friction**

The Contractor shall meet as a minimum the friction value as given below:

- ASTM E-274, Skid Resistance of Paved Surfaces using a standard ribbed full scale tire at a speed of 40 mph (FN40R), and has a minimum FN40R value of 35.

OR

- ASTM E-1911, Measuring Paved Surface Frictional Properties Using the Dynamic Friction Tester (DFT), at a speed of 40 mph (DFT40), and has a minimum DFT40 value of 40.

**E. Application Methods**

GFS shall be applied in accordance with the manufacturer's recommendations. The GFS can be applied by either mechanical or manual techniques.

**METHOD OF MEASUREMENT**

Item 864.1 will be measured for payment by the total SQUARE FOOT area of Green Friction Surface for Bike Lane and shall be the actual number of square feet installed, complete in place.

**BASIS OF PAYMENT**

Item 864.1 will be paid for at the Contract unit price per SQUARE FOOT, which price include all labor, materials, tools, equipment, testing and incidental items required to complete the work.

**ITEM 865.16****PREFORMED THERMOPLASTIC  
BIKE LANE MARKINGS – WHITE SYMBOLS****EACH**

The work under this Item shall conform to the relevant provisions of Subsection 860 of the Standard Specifications and the following:

The purpose of this item is to provide and install precut 90 mil thick colored bike lane markings with the intent of having a longer effective life span to reduce maintenance. All pavement marking materials supplied under this Item shall be lead chromate free.

**SUBMITTALS**

Product data from manufacturer shall be submitted prior to any construction or application. This data shall show conformance to material specifications stated below.

**MATERIALS**

The white symbols shall be one of the following or approved equal:

- 1) PreMark by Ennis-Flint  
Bicycle Rider Bike Lane Green 4'w x 7'h - PM6902766(+)VG  
Bike Straight Arrow Bike Lane Green 4'w x 7'h - PM6902763VG
- 2) RAE Preformed Thermoplastic Products:  
Item #PR-TH-4065 & 4067
- 3) SWARCO Preformed Thermoplastic Markings:  
Item # 3572 & 4067

The markings must be composed of an ester modified rosin resistant to degradation by motor fuels, lubricants etc. in conjunction with aggregates, pigments, binders, abrasives, and glass beads which have been factory produced as a finished product, and meets the requirements of the current edition of the Manual on Uniform Traffic Control Devices for Streets and Highways. The thermoplastic material conforms to AASHTO designation M249-79 (98), with the exception of the relevant differences due to the material being supplied in a preformed state.

Glass beads shall conform to MassDOT standard material specification M7.01.07 and be applied by the single drop method using AASHTO M 247 Type 1 glass beads sprayed or dropped on pavement marking material.

**Pigments:**

White: The material shall be manufactured with sufficient titanium dioxide pigment to meet FHWA Docket No. FHWA-99-6190 Table 5 and Table 6 as revised and corrected.

**ITEM 865.16** (Continued)

Heating indicators: The top surface of the material (same side as the factory applied surface beads) shall have regularly spaced indents. These indents shall act as a visual cue during application that the material has reached a molten state so satisfactory adhesion and proper bead embedment has been achieved and a post-application visual cue that the installation procedures have been followed.

Skid Resistance: The surface of the preformed thermoplastic material shall contain factory applied non-skid material with a minimum hardness of 8 (Mohs scale). Upon application the material shall provide a minimum skid resistance value of 60 BPN when tested according to ASTM E 303

Thickness: The material must be supplied at a minimum thickness of 90 mils (2.29 mm) or 125 mils (3.15 mm).

Retroreflectivity: The preformed retroreflective marking materials upon application shall exhibit adequate and uniform nighttime retroreflectivity. The marking materials shall have the following retroreflectivity as measured using a Delta LTL 2000 or LTL-X Retroreflectometer:

White preformed reflective marking materials—minimum of 275 mcd·m<sup>-2</sup>·lx<sup>-1</sup>

Note: Initial retroreflection and skid resistance are affected by the amount of heat applied during installation. When ambient temperatures are such that greater amounts of heat are required for proper installation, initial retroreflection and skid resistance levels may be affected.

Environmental Resistance: The material must be resistant to deterioration due to exposure to sunlight, water, salt or adverse weather conditions and impervious to oil and gasoline.

Abrasives: The abrasives and surface beads must be applied in an alternating arrangement across the surface of the material so that the surface is covered in what is best described as a “checkerboard” pattern of glass beads and abrasive materials. The abrasive material must have a minimum hardness of 8 (Mohs scale).

**METHOD OF CONSTRUCTION:**

Asphalt: The materials shall be applied using the propane torch method recommended by the manufacturer. The material must be able to be applied without minimum requirements for ambient and road temperatures and without any preheating of the pavement to a specific temperature. The material must be able to be applied without the use of a thermometer. The pavement shall be clean, dry and free of debris. Supplier must enclose application instructions with each box/package.

PACKAGING: The preformed thermoplastic markings shall be placed in protective plastic film with cardboard stiffeners where necessary to prevent damage in transit. Linear material must be cut to a maximum of 3' long pieces. Legends and symbols must also be supplied in flat pieces. The cartons in which they are packed shall be non-returnable and shall not exceed 40" in length and 25" in width, and be labeled for ease of identification. The weight of the individual carton must not exceed seventy (70) pounds. A protective film around the box must be applied in order to protect the material from rain or premature aging.

**ITEM 865.16** (Continued)

**METHOD OF MEASUREMENT**

Item 865.16 Preformed Thermoplastic Bike Lane Markings – White Symbols will be measured in place per Each symbol applied.

**BASIS OF PAYMENT**

Item 856.16, Preformed Thermoplastic Bike Lane Markings – White Symbols will be paid by the unit EACH symbol applied which price shall include all labor, materials, equipment and incidental costs required to complete the work.

<b><u>ITEM 868.106</u></b>	<b><u>6 INCH WET REFLECTIVE RECESSED WHITE LINE (THERMOPLASTIC)</u></b>	<b><u>FOOT</u></b>
<b><u>ITEM 868.112</u></b>	<b><u>12 INCH WET REFLECTIVE RECESSED WHITE LINE (THERMOPLASTIC)</u></b>	<b><u>FOOT</u></b>
<b><u>ITEM 868.124</u></b>	<b><u>24 INCH WET REFLECTIVE RECESSED WHITE LINE (THERMOPLASTIC)</u></b>	<b><u>FOOT</u></b>
<b><u>ITEM 869.106</u></b>	<b><u>6 INCH WET REFLECTIVE RECESSED YELLOW LINE (THERMOPLASTIC)</u></b>	<b><u>FOOT</u></b>
<b><u>ITEM 869.112</u></b>	<b><u>12 INCH WET REFLECTIVE RECESSED YELLOW LINE (THERMOPLASTIC)</u></b>	<b><u>FOOT</u></b>

The work to be completed under these items shall conform to the relevant provisions of Subsection 860 of the Standard Specifications and the following:

The work shall consist of grooving a slot in the pavement surface and the furnishing and installation of wet reflective thermoplastic pavement markings.

### **MATERIALS**

Wet reflective thermoplastic pavement markings shall consist of a liquid binder, first drop beads or elements to provide dry and wet retro reflectivity, and second drop glass beads to improve the durability of the pavement marking, reduce track-free times, and provide supplementary dry retroreflectivity.

The Contractor shall use one of the following binders or approved equivalents:

1. Ennis-Flint Hydrocarbon Thermoplastic;
2. Integrated Traffic Systems iTherm® Hydrocarbon;
3. Ozark Materials Hydrocarbon Thermoplastic; or
4. SWARCO Hydrocarbon Thermoplastic.

The Contractor shall use one of the following first drop beads or elements, or approved equivalents:

1. 3M™ All Weather Series 90S Elements;
2. Ennis-Flint HP300 Glass Beads;
3. Potters VISIMAX® Glass Bead System; or
4. SWARCO MEGALUX-BEADS®.

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 shall have a minimum refractive index of 1.51 when tested in accordance with AASHTO M247.

**ITEMS 868.106 through 869.112** (Continued)

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

**CONSTRUCTION METHODS****Installation of Groove**

Prior to cutting out the grooves for all recessed lines, the Contractor shall use a chalk line or other suitable method to layout the proposed pavement markings on the surface course so that the Engineer can inspect the locations. Once the Engineer has inspected and approved of the proposed striping layout, the grooves for the proposed pavement markings may be cut. No pavement grooving shall be done without the prior approval of the Engineer.

Groove position shall be a minimum of 4 inches from the edge of the pavement marking to any longitudinal pavement joints. The groove shall not be installed on bridge joints, on drainage structures, or in other areas identified by the Engineer. The groove shall not be installed continuously for intermittent pavement markings, but only where markings are to be applied.

The use of gang stacked diamond cutting blades to grind a smooth square slot is required for producing all grooves. The spacers between blade cuts shall be such that there will be less than a 10 mil rise in the finished groove between the blades. The acceptability of the surface texture will be determined by the Engineer.

The diamond grinder shall have an articulating head so that the slots are installed correctly on grades and super elevated sections.

Grooves that are ground deeper or wider than the specified allowable limits shall be repaired per the direction of the Engineer at no additional cost. Grooves that are ground too shallow, too narrow, or with unacceptable rises between blade cuts shall be reground to the correct size, depth, and surface finish at no additional cost. Slots ground out of alignment shall be patched using an approved method and materials.



**ITEMS 868.106 through 869.112** (Continued)

Grooves shall be 1 inch  $\pm$  ¼ inch wider than the pavement marking material. Groove depth shall be 150 mils  $\pm$  5 mils, unless otherwise approved by the Engineer. Depth shall be consistent across the full width of the groove. Depth plates shall be provided by the Contractor to the Engineer to assure that desired groove depth is achieved.

Grooves shall be clean, dry, and free of laitance, oil, dirt, grease, paint or other foreign contaminants. Shrouds and a vacuum apparatus shall be included as part of the grinder to remove larger pieces of pavement that are ground out. If water is used to clean the groove or the grooving process takes place during rainfall, a minimum of 24 hours of dry time is required prior to the placement of pavement markings.

After the depth, width, length, and surface condition has been approved by the Engineer, an air lance shall be used to remove fine particles from the groove. Air compressors shall initially be blown out away from the application area to prevent compressor condensation build-up from entering the groove. The Contractor shall prevent traffic from traversing the grooves and re-clean grooves, as necessary, prior to application of pavement markings at no additional cost to the Department.

All grooves must be given final approval by the Engineer prior to the placement of pavement markings.

**Installation of Wet Reflective Thermoplastic**

Installation of wet reflective thermoplastic pavement markings shall conform to the Manufacturer's specifications and the following:

Application rate for binder and all beads and elements shall consider final pavement surface composition and smoothness in advance of application to ensure proper wet film thickness and embedment of all beads and elements. 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 thermoplastic binder shall be 90 mils  $\pm$  5 mils. The line thickness shall be met across at least the middle ⅔ of the pavement marking width. Depth plates 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.

**ITEMS 868.106 through 869.112** (Continued)

First and second drop beads and/or elements 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 and elements should be embedded in the binder to a depth of approximately 50% of their diameter.

Drop rate for first drop bead or element shall be per the Manufacturer's specifications. Drop rate for second drop glass bead shall be 6.4-10.2 lbs. per gallon.

Newly installed pavement markings shall be protected from tracking during the setting period per Subsection 860.63.

Once the installed pavement markings have been open for traffic for a minimum of 48 hours, the Contractor shall perform retroreflectance 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. The following tests shall be performed during the measurement and sampling process:

1. ASTM E1710 (*Standard Test Method for Measurement of Retroreflective Pavement Marking Materials with CEN-Prescribed Geometry Using a Portable Retroreflectometer*); and
2. ASTM E2177 (*Standard Test Method for Measuring the Coefficient of Retroreflected Luminance ( $R_L$ ) of Pavement Markings in a Standard Condition of Wetness*).

The average initial retroreflectance readings shall exceed the following minimum values:

	*White Markings	*Yellow Markings
ASTM E1710 (Dry)	475 mcd/lux/m <sup>2</sup>	375 mcd/lux/m <sup>2</sup>
ASTM E2177 (Wet Recovery)	375 mcd/lux/m <sup>2</sup>	300 mcd/lux/m <sup>2</sup>

\*Observation Angle = 1.05°, Entrance Angle = 88.8°

Pavement markings with measured average initial retroreflectance 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.

**ITEMS 868.106 through 869.112** (Continued)**Pavement Marking Asset Management**

Upon completion of the pavement marking installation, the following data shall be tabulated by the Contractor:

1. Retroreflectance readings, including date(s), time(s), and location(s) where readings took place;
2. Liquid binder type(s) and application rate;
3. Reflective element type and drop rate;
4. Date of groove installation;
5. Lot, batch number, or any other material identifiers and manufacturing information;
6. Date and time of final liquid marking installation;
7. Highway location (including direction) of installation;
8. Air and pavement temperature during application;
9. Measured material application thickness, depth of groove; and
10. Any other pertinent information that may assist MassDOT with Quality Control.

Results for all readings shall be provided within 10 business days of testing to the Engineer, with a second copy sent to:

State Traffic Engineer  
Attention: Pavement Marking Installation & Testing  
10 Park Plaza, Room 7210  
Boston, MA 02116

The cost to prepare and submit this data shall be considered incidental to the cost of the items.

**METHOD OF MEASUREMENT**

Wet reflective recessed thermoplastic pavement markings will be measured per FOOT, complete in place, as specified under Subsection 860.80.

**BASIS OF PAYMENT**

Wet reflective recessed thermoplastic pavement markings will be paid at the respective contract unit price per FOOT. The contract prices shall include all material, labor, equipment, and all incidental costs required to complete.

**ITEM 874.2****TRAFFIC SIGN REMOVED AND RESET****EACH**

The work under this item shall conform to the relevant provisions of Subsections 828 and 840 of the Standard Specifications, supplemented by the following:

The Contractor shall carefully remove and reset all designated existing signs including attachment hardware and sign support posts located as needed and where directed by the Engineer. Any signs that are shown to be removed and reset that will be impacted during other construction activities shall be removed and stored in a secure location until the construction activity near the proposed reset sign location is completed.

The work to be done under this item shall include the dismantling, removal, transporting and resetting of the existing signs at the location indicated on the plans. The work also includes removal and disposal of the existing sign supports and foundations.

The Contractor shall completely remove the sign and post and reset said sign and post at the new location. If existing sign and/or post are not suitable for reuse as determined by the Engineer, the Contractor shall provide new sign and/or post under items 832. and/or 847.1 respectively. New attachment hardware shall be furnished as necessary to replace any missing or unusable existing hardware.

Existing sign and/or post damaged by the Contractor's operations shall be replaced in-kind by the Contractor at no additional compensation.

Included under this item are warning, regulatory, and route marker signs and miscellaneous directional signs.

The Contractor shall backfill with compacted gravel all holes resulting from the removal of the existing signs and their foundations and restores the area to match existing conditions of adjacent areas. The existing signs shall not be removed and reset without the permission of the Engineer.

**METHOD OF MEASUREMENT**

Item 874.2 will be measured for payment by Each traffic sign removed and reset, complete in place.

**BASIS OF PAYMENT**

Item 874.2 will be paid for at the contract unit price per Each, which price shall constitute full compensation for dismantling, loading, transporting and resetting of the signs as designated above, the excavation, removal and disposal of their supports and foundations, gravel backfill, and all incidental costs required to complete the work. The Contractor shall not be paid for removing and resetting signs multiple times within areas of construction for convenience.

New sign posts for any reset signs determined to be unsuitable for reuse as shown on the plans will be paid separately under Item 847.1.

**ITEM 874.4****TRAFFIC SIGN REMOVED AND STACKED****EACH**

The work under this item shall consist of the dismantling, removing, transporting and stacking of all existing street, warning, regulatory and guide, and miscellaneous signs and their supports, as directed by the Engineer.

Also included is the excavation of the existing foundations. If in the opinion of the Engineer, the existing foundation will not interfere with new construction, it may be removed to a depth of 6 inches below the existing ground, the hole backfilled with gravel and compacted, and the existing surfaces restored or replaced in kind.

All re-usable sign material within the Town of Longmeadow Layout, in the opinion of the Engineer, shall be stacked at the Town DPW yard at 170 Dwight Road.

The existing signs shall not be removed until the new signs and structures replacing them are ready for traffic unless otherwise directed by the Engineer.

**METHOD OF MEASUREMENT**

Item 874.4 will be measured for payment by Each traffic sign removed and stacked.

**BASIS OF MEASUREMENT**

Item 874.4 will be paid at the Contract unit price per Each, which price shall be full compensation for dismantling, removing, transporting and stacking of the signs and their supports, excavation and disposal of the existing foundation, supplying and placing of gravel backfill and compaction, and all incidental costs required to complete the work.

**ITEM 874.85****PRIVATE SIGN REMOVED AND RESET****EACH**

The work shall consist of removing and resetting as directed for the “Welcome to Springfield” sign.

The existing sign is to be maintained and reset in the specified location on the plans, unless the Engineer, with approval by the City of Springfield, determines that the proposed sign is better suited at another location. The sign shall be reconstructed at the new location similar to the existing condition. No cement concrete foundation is required unless determined by the Engineer. The Contractor shall take care in protecting the sign from damage during removal. The sign shall be stored in a secure location off-site. The contractor may re-use the existing wood posts unless determined by the Engineer the existing wood post are unsuitable for reuse. If the posts are unable to be re-used, the contractor shall replace and re-install new posts in kind. This shall include any dowels, finials, or other decorative elements on the sign posts. An historic image obtained from “Street View” of the existing sign is shown below.

**METHOD OF MEASUREMENT**

Item 874.85 will be measured for payment per EACH Private Sign Removed and Reset in its final location, complete in place.

**BASIS OF PAYMENT**

Item 874.85 will be paid per EACH, which price shall constitute full compensation for removal, resetting, protecting, storing, transportation, new wood posts if needed, and all other incidental cost for the proper completion of this item.

Any damage to the sign shall be repaired or sign replaced in kind by the contractor at no additional cost.

**ITEM 912.4****DRILLED AND GROUTED #4 DOWELS****EACH**

The work under this Item shall conform to the relevant provisions of Subsection 476 of the Standard Specifications, plan details and the following.

The work shall consist of drilling, placement, and grouting dowels in the existing concrete (trolley) pavement structure in conformity to the details shown on the Plans or as required by the Engineer. All reinforcing steel shall be rolled from new built steel conforming to the requirements of AASHTO M31 Grade 60. All reinforcing steel dowels shall be epoxy coated.

**METHOD OF MEASUREMENT**

Item 912.4 will be measured per Each Drilled and Grouted #4 Dowel installed, complete in place and accepted. Anchoring shall use non-adhesive cementitious grout.

**BASIS OF PAYMENT**

Item 912.4 will be paid for at the contract unit price per Each Dowel, which price shall constitute full compensation for placement, and all other incidental costs for the proper completion of the work.

Holes for dowels shall be drilled by the Contractor without extra compensation.

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# DETAIL SHEETS

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HED-618

SHEET 1 OF 20 SHEETSPROJECT NO. 608881

THE COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF TRANSPORTATION – HIGHWAY DIVISION  
TEN PARK PLAZA, BOSTON, MA

**-PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET-**

TOWN-CITY Longmeadow - Springfield  
YEAR 2025  
Sta 2+09 to Sta 32+50

ROAD Longmeadow Street & Converse Street  
CLASS Principal / Minor Arterial  
DATE June 2025

Earth Excavation	13,600 Cu Yards	Gravel for Full Depth Constr	3,045 Cu Yards
Class "A" Rock Excavation	150 Cu Yards	Gravel for RCP Installation	230 Cu Yards
Class "B" Rock Excavation	45 Cu Yards	Gravel for Sidewalks & Ramps	1,655 Cu Yards
Class "A" Trench Excavation	40 Cu Yards	Gravel for Driveways	715 Cu Yards
Class "B" Trench Excavation	150 Cu Yards	Gravel for Curbing	475 Cu Yards
		+25% Swell	1,530 Cu Yards
		Dense Graded Crushed Stone	1,550 Cu Yards
		Crushed Stone	440 Tons
		Loam Borrow	1,830 Cu Yards

**Pavement Notes:**

**Proposed Pavement Milling And Overlay**

Longmeadow St/ Columbus Ave/ Woodlawn Pl: AREA = 12,550 SY

Milling: 2" Pavement Milling  
Surface: 1-3/4" Superpave Surface Course - 12.5 Polymer (SSC - 12.5 - P) Over  
2-1/4" Superpave Intermediate Course – 12.5 (SIC - 12.5)

Forest Glen Road/ Laurel Street/ Englewood Road: AREA = 3,605 SY

Milling: 1-3/4" Pavement Fine Milling  
Surface: 1-3/4" Superpave Surface Course - 12.5- Polymer (SSC - 12.5 - P)

PROJECT NO. 608881**-PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET-**TOWN LongmeadowROAD Longmeadow Street and Converse StreetYEAR 2025DATE 6/16/2025**Proposed Full Depth Construction**Longmeadow St/ Columbus Ave/ Forest Glen RdAREA = 3,465 SY

Surface: 1-3/4" Superpave Surface Course - 12.5 Polymer (SSC - 12.5 - P) Over  
Intermediate: 2 1/4 " Superpave Intermediate Course – 12.5 (SIC - 12.5)  
Base: 4 " Superpave Base Course - 37.5 (SBC - 37.5) Over  
Subbase: 4 " Dense Graded Crushed Stone Over  
8" Gravel Borrow, Type b.

Laurel St /Converse StAREA = 9,300 sy

Surface: 1-3/4" Superpave Surface Course - 12.5 Polymer (SSC - 12.5 - P) Over  
Intermediate: 1-3/4 " Superpave Intermediate Course – 12.5 (SIC - 12.5) Over  
Base: 3-1/2" Superpave Base Course - 37.5 (SBC - 37.5) Over  
Subbase: 4 " Dense Graded Crushed Stone Over  
8" Gravel Borrow, Type b.

**Proposed Full Depth Construction (Less Than 4.0' Wide)**AREA = 960 SYLongmeadow St/ Columbus Ave/ Forest Glen Rd/ Laurel St

Surface: 1-3/4" Superpave Surface Course - 12.5 Polymer (SSC - 12.5 - P) Over  
Intermediate: 2 1/4 " Superpave Intermediate Course – 12.5 (SIC - 12.5) Over  
Base: 6" High Early Strength Cement  
Concrete Base Course – 4000 psi, 610, 3/4" Over  
Subbase: 8" Gravel Borrow, Type b.

PROJECT NO. 608881**-PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET-**TOWN LongmeadowROAD Longmeadow Street and Converse StreetYEAR 2025DATE 6/16/2025**Proposed Cement Concrete Sidewalk****AREA = 6,380 SY**

Surface: 4" Cement Concrete  
Air Entrained 4000psi, 3/4", 610

Subbase: 8" Gravel Borrow, Type b

**Proposed Cement Concrete Pedestrian Curb Ramp****AREA = 555 SY**

Surface: 4" Cement Concrete  
Air Entrained 4000psi, 3/4", 610

Subbase: 8" Gravel Borrow, Type b

**Proposed Hot Mix Asphalt Driveway****AREA = 3,215 SY**

Surface: 1-1/2" Superpave Surface Course - 9.5 (SSC - 9.5) Over  
2-1/2" Superpave Intermediate Course - 12.5 (SIC - 12.5)

Subbase: 8" Gravel Borrow, Type b

**Proposed Cement Concrete Driveway & Sidewalk Through Driveway****AREA = 570 SY**

Surface: 6" Cement Concrete  
Air Entrained 4000psi, 3/4", 610

Subbase: 8" Gravel Borrow, Type b

NOTES: Asphalt emulsion for tack coat and HMA joint adhesive shall be applied per Subsection 450.

Excavated material determined to be suitable for reuse by the Engineer shall be substituted for gravel borrow as approved by the Engineer.

Provide 2% minimum cross-slopes in normal crown sections.

PROJECT NO. 608881**-PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET-**TOWN LongmeadowROAD Longmeadow Street and Converse StreetYEAR 2025DATE 6/16/2025**ITEM 101. CLEARING AND GRUBBING**

At the following locations and any locations called out on the construction plans and/or as required by the Engineer.

Street Name	Begin	End	Side
Columbus Ave Sidewalk	26+00	31+00	RT
Forest Glen Rd Sidewalk	200+00	205+20	LT

**ITEM 102.1 TREE TRIMMING**

At the following locations and any locations called out on the construction plans and/or as required by the Engineer.

Street Name	Station	Side	Station	Side
Forest Glen Rd	200+60	LT	201+90	LT

**ITEM 102.511 TREE PROTECTION – ARMORING AND PRUNING**

For protection and trimming of trees/limbs over the shared use path and/or as specified by the Engineer.

**ITEM 102.521 TREE AND PLANT PROTECTION FENCE**

At the following stations and/or where required by the Engineer.

Street Name	From		To	
	Station	Side	Station	Side
Longmeadow St	7+64	RT	8+52	RT
Longmeadow St	14+52	LT	14+86	LT

PROJECT NO. 608881**-PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET-**TOWN LongmeadowROAD Longmeadow Street and Converse StreetYEAR 2025DATE 6/16/2025**ITEM 103. TREE REMOVED – DIAMETER UNDER 24 INCHES**

At the following stations and/or where required by the Engineer and are not to be measured and paid for in clearing and grubbing areas.

Street Name	Station	Side
Columbus Avenue	26+41	RT
Columbus Avenue	26+74	RT
Columbus Avenue	28+47	RT

**ITEM 104. TREE REMOVED – DIAMETER 24 INCHES AND OVER**

At the following stations and/or where directed by the Engineer and are not to be measured and paid for in clearing and grubbing areas.

Street Name	Station	Side
Longmeadow Street	22+20	LT 27 “ OAK

**ITEM 105. STUMP REMOVED**

At the following stations and/or where directed by the Engineer.

<u>Street Name</u>	<u>Station</u>	<u>Side</u>
CONVERSE STREET	103+09	LT
FOREST GLEN ROAD	203+60	RT

**ITEM 127.1 REINFORCED CONCRETE EXCAVATION**

For the removal of the trolley track concrete base

<u>Street Name</u>	<u>Station</u>
LONGMEADOW ST	14+65
LONGMEADOW ST	20+20
CONVERSE ST	22+60
CONVERSE ST	25+40

**ITEM 141. CLASS A TRENCH EXCAVATION**

To be used for r drainage pipe removals if they are outside the limits of new proposed pipe trench as described under Item 272.12, and as required by the Engineer.

PROJECT NO. 608881**-PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET-**TOWN LongmeadowROAD Longmeadow Street and Converse StreetYEAR 2025DATE 6/16/2025**ITEM 146. DRAINAGE STRUCTURE REMOVED**

For removal of CB's and DMH's at the following locations, as needed for old existing structures to be replaced, and as directed by the Engineer.

Street Name	Station	Offset	Side	Type
Longmeadow Street	3+77.78	14.59	LT	CB
Longmeadow Street	5+60.00	27.53	LT	CB
Longmeadow Street	8+89.15	47.14	RT	CB
Longmeadow Street	9+24.22	59.37	RT	CB
Longmeadow Street	9+99.33	28.74	RT	CB
Longmeadow Street	9+99.51	16.96	RT	CB
Longmeadow Street	14+64.78	17.40	LT	CB
Longmeadow Street	14+73.31	38.50	RT	CB
Longmeadow Street	14+75.21	88.44	RT	CB
Longmeadow Street	15+00.43	87.97	RT	CB
Longmeadow Street	15+04.62	31.54	RT	CB
Longmeadow Street	15+35.51	17.41	RT	CB
Longmeadow Street	19+41.01	24.59	RT	CB
Longmeadow Street	19+79.05	24.69	RT	CB
Longmeadow Street	20+32.68	24.7	RT	CB
Longmeadow Street	22+55.68	19.62	LT	CB
Longmeadow Street	22+71.72	22.84	RT	CB
Longmeadow Street	24+86.89	41.08	RT	CB
Converse Street	102+07.31	17.15	RT	CB
Converse Street	103+99.54	20.41	RT	CB
Converse Street	103+99.79	10.62	LT	CB
Converse Street	107+19.27	13.01	LT	CB
Converse Street	107+34.86	13.73	RT	CB
Converse Street	110+19.90	13.37	LT	CB
Converse Street	110+33.44	13.95	RT	CB
Converse Street	110+98.28	13.19	LT	CB
Converse Street	112+69.41	13.75	RT	CB
Converse Street	113+30.89	13.30	LT	CB
Converse Street	113+35.38	14.68	RT	CB
Converse Street	115+59.63	13.30	LT	CB



PROJECT NO. 608881**-PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET-**TOWN LongmeadowROAD Longmeadow Street and Converse StreetYEAR 2025DATE 6/16/2025**ITEM 146.** (Continued)

Converse Street	115+74.67	14.35	RT	CB
Converse Street	116+33.84	18.82	LT	CB
Converse Street	116+35.78	14.27	RT	CB
Converse Street	117+34.37	17.02	RT	CB
Converse Street	118+34.41	16.41	LT	CB
Converse Street	121+39.20	14.58	LT	CB
Converse Street	121+39.99	12.49	RT	CB
Laurel Street	306+61.90	13.56	LT	CB
Laurel Street	306+80.84	14.24	RT	CB
Forest Glen Road	202+72.24	12.34	RT	CB
Forest Glen Road	200+28.56	43.22	LT	DMH
Forest Glen Road	200+45.29	38.78	LT	DMH
Converse Street	118+29.89	19.26	LT	DMH
Longmeadow Street	14+68.98	12.23	RT	DMH

**ITEM 151.** **GRAVEL BORROW**

All gravel borrow is to be Type b.

**ITEM 156.** **CRUSHED STONE**

Shall be used to replace unsuitable material as determined by the Engineer for drainage structure foundation, drainage and water pipes bedding, and as needed for miscellaneous drainage work during realignment, and/or as required by the Engineer.

**ITEM 182.1** **INSPECTION AND TESTING FOR ASBESTOS****ITEM 182.2** **REMOVAL OF ASBESTOS**

As needed for the removal of anticipated AC Drain Pipe, traffic signal conduit, and as required by the Engineer

PROJECT NO. 608881**-PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET-**TOWN LongmeadowROAD Longmeadow Street and Converse StreetYEAR 2025DATE 6/16/2025**ITEM 201. CATCH BASIN**

New catch basin as specified at the following locations on the Drainage and Utility Plan Sheets, and as directed by the Engineer.

<b><u>Structure</u></b>				
<b><u>Name</u></b>	<b><u>Station</u></b>	<b><u>Offset</u></b>	<b><u>Side</u></b>	
CB-1	103+19.09	40.921	RT	
CB-2	102+55.36	38.263	LT	
CB-3	104+01.44	15.748	RT	
CB-4	104+08.94	23.901	LT	
CB-5	106+94.70	14.979	LT	
CB-6	107+22.35	14.965	LT	
CB- 7	107+40.38	15.017	RT	
CB-8	110+08.09	14.958	LT	
CB-9	110+50.17	14.947	RT	
CB-10	111+04.52	15.133	LT	
CB-11	112+55.31	14.924	LT	
CB-12	112+63.84	14.924	LT	
CB-13	113+30.83	15.032	LT	
CB-14	113+35.53	15.882	RT	
CB-15	115+59.09	14.973	LT	
CB-16	115+60.83	15.022	RT	
CB-17	116+36.60	15.441	RT	
CB-18	116+42.07	14.919	LT	
CB-19	117+29.93	18.942	RT	
CB-20	304+54.03	19.979	LT	
CB-21	304+58.51	23.222	RT	
CB-22	118+83.58	19.51	RT	
CB-23	118+83.90	28.55	LT	
CB-24	121+32.98	17.442	LT	
CB-25	121+40.54	15.525	RT	
CB-26	306+62.32	19.653	LT	
CB-27	306+80.96	18.744	RT	
CB-28	303+41.52	19.949	LT	
CB-29	303+41.92	19.837	RT	
CB-30	307+50.80	15.712	LT	
CB-31	4+93.15	25.203	LT	
CB-32	5+52.08	30.9	LT	
CB-33	7+87.23	21.844	LT	

PROJECT NO. 608881**-PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET-**TOWN LongmeadowROAD Longmeadow Street and Converse StreetYEAR 2025DATE 6/16/2025**ITEM 201.** (Continued)

CB-34	8+89.15	47.144	RT
CB-35	9+91.55	14.991	RT
CB-36	9+92.47	24.494	LT
CB-37	9+99.25	29.796	RT
CB-38	10+40.21	24.687	LT
CB-39	14+64.52	15.029	LT
CB-40	14+74.33	88.521	RT
CB-41	15+36.55	15.01	RT
CB-42	19+57.73	14.948	RT
CB-43	20+46.51	15.02	LT
CB-44	20+49.80	15.712	RT
CB-45	22+52.51	24.191	LT
CB-46	24+19.72	29.839	LT
CB-47	200+96.65	14.973	RT
CB-48	201+01.02	26.143	LT
CB-49	25+57.53	35.61	RT
CB-50	28+33.31	33.923	LT
CB-51	28+29.71	25.964	LT
CB-52	202+72.10	15.04	RT

**ITEM 202.** **MANHOLE**

New drainage manholes as specified at the following locations on the Drainage and Utility Plan Sheets, and as directed by the Engineer.

<b><u>Structure Name</u></b>	<b><u>Station</u></b>	<b><u>Offset</u></b>	<b><u>Side</u></b>
DMH-6	116+39.54	0.19	LT
DMH-9	118+79.41	13.82	LT
DMH-11	10+40.04	18.15	LT
DMH-13	5+07.05	20.30	LT
DMH-14	14+16.43	19.42	LT
DMH-15	14+65.99	5.94	LT
DMH-17	14+87.98	36.13	RT
DMH-18	14+89.85	87.50	RT
DMH-19	20+16.23	8.16	LT
DMH-20	20+30.02	15.72	RT
DMH-21	20+50.40	22.27	RT
DMH-25	25+13.63	38.92	RT
DMH-30	9+99.36	13.82	RT
DMH-32	14+68.88	12.26	RT

PROJECT NO. 608881**-PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET-**TOWN Longmeadow  
YEAR 2025ROAD Longmeadow Street and Converse Street  
DATE 6/16/2025**ITEM 202.2 MANHOLE (9 TO 14 FOOT DEPTH)**

New drainage manholes as specified at the following locations on the Drainage and Utility Plan Sheets, and as directed by the Engineer.

<u>Structure Name</u>	<u>Station</u>	<u>Offset</u>	<u>Side</u>
DMH-1	103+14.79	34.178	RT
DMH-4	110+08.71	0.975	LT
DMH-5	112+64.24	0.916	LT
DMH-7	121+28.17	13.512	LT

**ITEM 204. GUTTER INLET**

New gutter inlet as specified at the following locations on the Drainage and Utility Plan Sheets, and as directed by the Engineer.

<u>Street Name</u>	<u>Station</u>	<u>Offset</u>	<u>Side</u>
GI-1	15+01.63	86.79	RT
GI-2	22+71.27	27.69	RT
GI-3	202+36.46	26	LT
GI-4	3+72.19	18.42	LT
GI-5	15+03.66	34.62	RT
GI-6	204+65.34	15.34	LT

**ITEM 220.3 DRAINAGE STRUCTURE CHANGE IN TYPE**

Drainage structures change in type at the following locations on the Drainage and Utility Plan Sheets, and as directed by the Engineer.

<u>Street Name</u>	<u>Station</u>	<u>Offset</u>	<u>Side</u>	<u>Type</u>
CONVERSE ST	102+59.88	14.3	LT	CB TO DMH
CONVERSE ST	102+80.43	45	RT	CB TO DMH
LONGMEADOW ST	8+19.75	16.9	LT	CB TO DMH
LONGMEADOW ST	8+88.92	56.9	RT	CB TO DMH
LONGMEADOW ST	9+96	19.1	LT	CB TO DMH
LONGMEADOW ST	10+65.79	17.8	LT	CB TO DMH
LONGMEADOW ST	22+69.15	16.4	RT	CB TO DMH
LONGMEADOW ST	24+32.80	41.3	RT	CB TO DMH
LONGMEADOW ST	28+33.50	24.1	RT	CB TO DMH
LONGMEADOW ST	28+36.31	20.5	LT	CB TO DMH
FOREST GLEN RD	100+89.93	15.4	LT	CB TO DMH
FOREST GLEN RD	204+72.41	12.4	LT	CB TO DMH
FOREST GLEN RD	204+71.61	12.2	LT	CB TO DMH
LAUREL ST	307+39.95	12.8	LT	CB TO DMH

PROJECT NO. 608881**-PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET-**TOWN LongmeadowROAD Longmeadow Street and Converse StreetYEAR 2025DATE 6/16/2025**ITEM 220.5 DRAINAGE STRUCTURE REMODELED**

Drainage structures remodeled at the following locations on the Drainage and Utility Plan Sheets, and as directed by the Engineer.

<u>Street Name</u>	<u>Station</u>	<u>Offset</u>	<u>Side</u>	<u>Type</u>
LONGMEADOW ST	3+75.51	18.6	RT	CB
LONGMEADOW ST	8+19.65	16.3	RT	CB
LONGMEADOW ST	9+27.17	44.5	RT	CB
LONGMEADOW ST	8+88.92	56.7	RT	DMH
LONGMEADOW ST	14+71.84	38.7	RT	CB
LONGMEADOW ST	24+93.70	26	LT	CB
LONGMEADOW ST	30+27.10	22.2	RT	CB
CONVERSE ST	104+05.15	6	RT	DMH
CONVERSE ST	106+69.55	14.9	RT	CB
CONVERSE ST	107+00.85	1	LT	DMH
CONVERSE ST	110+68.30	1	LT	DMH
CONVERSE ST	113+36.36	0	CT	DMH
CONVERSE ST	115+60.10	1.11	LT	DMH
CONVERSE ST	117+29.91	19.5	LT	CB
CONVERSE ST	117+32.90	10.5	LT	DMH
CONVERSE ST	117+41.10	4.2	RT	DMH
CONVERSE ST	117+59.40	19.6	LT	DMH
CONVERSE ST	117+89.11	11.4	LT	DMH
CONVERSE ST	118+37.78	14.9	RT	CB
LAUREL ST	303+41.92	19.9	LT	CB
LAUREL ST	303+41.93	19.8	RT	CB

**ITEM 220.7 SANITARY STRUCTURE ADJUSTED**

Sanitary structures adjusted at the following locations on the Drainage and Utility Plan Sheets, and as directed by the Engineer.

<u>Street Name</u>	<u>Station</u>	<u>Offset</u>	<u>Side</u>	<u>Type</u>
LONGMEADOW ST	4+35.22	7.5	LT	SMH
LONGMEADOW ST	6+60.73	7	RT	SMH
LONGMEADOW ST	8+08.15	10	LT	SMH
LONGMEADOW ST	7+98.67	46	LT	SMH
LONGMEADOW ST	8+94.24	5	LT	SMH
LONGMEADOW ST	13+02.40	81	RT	SMH
LONGMEADOW ST	13+75.66	7	LT	SMH

PROJECT NO. 608881**-PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET-**TOWN Longmeadow  
YEAR 2025ROAD Longmeadow Street and Converse Street  
DATE 6/16/2025**ITEM 220.7** (Continued)

LONGMEADOW ST	16+96.47	11	LT	SMH
LONGMEADOW ST	20+08.78	3	LT	SMH
LONGMEADOW ST	23+05.18	3	RT	SMH
LONGMEADOW ST	23+29.49	22	LT	SMH
LONGMEADOW ST	25+19.95	42	LT	SMH
FOREST GLEN RD	202+80.63	8	RT	SMH
FOREST GLEN RD	204+11.73	11	RT	SMH
CONVERSE RD	103+28.77	51	RT	SMH
CONVERSE RD	107+03.33	11	RT	SMH
CONVERSE RD	110+03.90	12.7	RT	SMH
CONVERSE RD	113+05.46	12.2	RT	SMH
CONVERSE RD	116+06.25	9	RT	SMH
CONVERSE RD	117+11.00	14.6	RT	SMH
CONVERSE RD	117+74.80	19.6	RT	SMH
CONVERSE RD	118+02.25	1.6	RT	SMH
CONVERSE RD	119+12.36	13.9	RT	SMH
CONVERSE RD	121+20.39	1	LT	SMH
LAUREL ST	302+94.64	12	RT	SMH
LAUREL ST	304+48.12	1.5	LT	SMH
LAUREL ST	307+66.28	1	RT	SMH
LAUREL ST	307+70.82	0.5	LT	SMH

**ITEM 220.8** **SANITARY STRUCTURE REMODELED**

Sanitary structures remodeled at the following locations on the Drainage and Utility Plan Sheets, and as directed by the Engineer.

<u>Street Name</u>	<u>Station</u>	<u>Offset</u>	<u>Side</u>	<u>Type</u>
LONGMEADOW ST	22+76.29	21.82	RT	SMH
LONGMEADOW ST	23+27.07	22.35	LT	SMH
CONVERSE ST	117+08.40	14.5	RT	SMH
CONVERSE ST	118+01.76	1.21	RT	SMH

**ITEM 221.** **FRAME AND COVER**

At drainage structures change in type from catch basins to manholes and as directed by the Engineer.

**ITEM 222.1** **FRAME AND GRATE – MASSDOT CASCADE TYPE**

To be installed with all proposed inlet drainage structures, and/or as directed by the Engineer.

PROJECT NO. 608881**-PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET-**TOWN LongmeadowROAD Longmeadow Street and Converse StreetYEAR 2025DATE 6/16/2025**ITEM 223.1 FRAME AND GRATE (OR COVER) REMOVED AND STACKED**

Remove and stack all existing grates and covers to be replaced with Items #221 and 222.1, as called out on the Drainage & Utility Plans and/or as directed by the Engineer.

**ITEM 252.12 12 INCH CORRUGATED PLASTIC PIPE****Longmeadow Rd Sta 14+16**

This item is intended to match in kind connection to the existing PVC drain pipe. The Contractor shall verify existing conditions before ordering materials.

**ITEM 272.12 12 INCH AND UNDER PIPE REMOVED AND DISCARDED**

Pipe removed and stacked at the following locations on the Drainage and Utility Plan Sheets and/or as directed by the Engineer

Street Name	Station Begin	Station End	Diameter
Longmeadow St	14+70	14+73	8
Longmeadow St	14+70	15+03	10
Longmeadow St	14+73	14+75	12
Longmeadow St	24+32	24+87	8
Converse St	107+19	107+35	8
Converse St	110+18	110+34	8
Converse St	110+18	110+67	10
Converse St	112+65	112+65	8
Converse St	113+31	113+31	8
Converse St	115+59	115+74	8
Converse St	115+74	116+36	12
Converse St	118+34	118+38	8

**ITEM 303.06 6 INCH DUCTILE IRON WATER PIPE (MECHANICAL JOINT)**

Ductile iron water pipe as specified at the following locations on the Drainage and Utilities Plan Sheets and/or as directed by the Engineer.

Street Name	Station Begin	Station End	Side
Laurel Street	304+72	304+72	LT

PROJECT NO. 608881**-PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET-**TOWN LongmeadowROAD Longmeadow Street and Converse StreetYEAR 2025DATE 6/16/2025**ITEM 309. DUCTILE IRON FITTINGS FOR WATER PIPE**

Ductile iron fittings for water pipe as specified at the following locations on the Drainage and Utilities Plan Sheets and/or as directed by the Engineer.

Street Name	Station	Offset	Side	Type
Laurel Street	304+72	20	LT	6" Sleeve

**ITEM 402. DENSE GRADED CRUSHED STONE FOR SUB-BASE**

For full depth roadway/widening  $\geq 4'$  construction areas, drainage pipe trench installation in mill & overlay areas, and as shown on Construction Plans and/or as directed by the Engineer.

**ITEM 431. HIGH EARLY STRENGTH CEMENT CONCRETE BASE COURSE**

For full depth box widening  $< 4'$  as shown on the construction plans, typical sections and/or as directed by the Engineer.

**ITEM 451. HMA FOR PATCHING**

For pavement repair in pavement overlay areas that need patching prior to the overlay as well as for permanent trench repair during underground utility work and as directed by the Engineer.



PROJECT NO. 608881**-PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET-**TOWN LongmeadowROAD Longmeadow Street and Converse StreetYEAR 2025DATE 6/16/2025**ITEM 476.1 CEMENT CONCRETE PAVEMENT**

<u>Street Name</u>	<u>Station</u>
LONGMEADOW ST	14+65
LONGMEADOW ST	20+20
CONVERSE ST	22+60
CONVERSE ST	25+40

For the repair of the concrete trolley base. Match existing thickness.

**ITEM 509. GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS – STRAIGHT**

For use at Pedestrian Curb Ramps, Driveway transition curb, termini to match existing edge of roadway at Limits of Work, and as directed by the Engineer:

**ITEM 580. CURB REMOVED AND RESET**

Remove and reset all existing granite curb that is suitable for reuse.

**ITEM 710.4 BOUND – PLAIN GRANITE**

To be installed at the following locations and as shown on the Construction Plans and/or as directed by the Engineer.

<u>Street Name</u>	<u>Station</u>	<u>Offset</u>	<u>Side</u>
Converse Street	118+27	50.0	LT
Laurel Street	304+71	28.4	RT
Laurel Street	305+50	28.7	RT

PROJECT NO. 608881**-PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET-**TOWN LongmeadowROAD Longmeadow Street and Converse StreetYEAR 2025DATE 6/16/2025**ITEM 811.22 ELECTRIC HANDHOLE – SD2.022**

As shown on the Utility Plans and/or as directed by the Engineer.

<u>Street Name</u>	<u>Station</u>	<u>Offset</u>	<u>Side</u>
LONGMEADOW ST	4+83.14	24.02'	RT
LONGMEADOW ST	5+10.68	45.5'	LT
LONGMEADOW ST	5+30.66	47.9'	RT
LONGMEADOW ST	5+51.58	36.1'	LT
LONGMEADOW ST	24+73.19	28.52'	LT
FOREST GLEN ST	200+56.27	28.42'	LT
CONVERSE ST	117+50.79	27.02'	RT
CONVERSE ST	117+50.80	31.6'	LT
CONVERSE ST	118+14.39	24.51'	RT
CONVERSE ST	118+18.77	46.62'	LT

**ITEM 811.251 ELECTRIC HANDHOLE – 17 X 30 INCHES**

As shown on the Utility Plans and/or as directed by the Engineer.

<u>Street Name</u>	<u>Station</u>	<u>Offset</u>	<u>Side</u>
LONGMEADOW ST	24+25.50	36.24'	RT

**ITEM 812.09\* LIGHT STANDARD FOUNDATION PRECAST**

For installation of standard light foundations as shown on the Utility Plans and/or as directed by the Engineer

<u>Street Name</u>	<u>Station</u>	<u>Side</u>
LONGMEADOW ST	3+86.60	RT
LONGMEADOW ST	19+66.36	RT
LONGMEADOW ST	21+93.88	LT
LONGMEADOW ST	24+7.31	RT
FOREST GLEN RD	202+55.55	LT
FOREST GLEN RD	204+55.37	LT
LONGMEADOW ST	26+57.88	LT
LONGMEADOW ST	27+56.95	LT
LONGMEADOW ST	28+56.66	LT
LONGMEADOW ST	29+56.07	LT

PROJECT NO. 608881**-PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET-**TOWN LongmeadowROAD Longmeadow Street and Converse StreetYEAR 2025DATE 6/16/2025**823.70****HIGHWAY LIGHTING POLE AND LUMINAIRE REMOVED AND RESET**

As specified at the following locations, shown on the Utility Plans and/or as directed by the Engineer.

Street Name	Station	Side
LONGMEADOW ST	3+86.60	RT
LONGMEADOW ST	19+66.36	RT
LONGMEADOW ST	21+93.88	LT
LONGMEADOW ST	24+7.31	RT
FOREST GLEN RD	202+55.55	LT
FOREST GLEN RD	204+55.37	LT

**ITEM 865.16** **PREFORMED THERMOPLASTIC BIKE LANE MARKINGS – WHITE SYMBOLS**

As shown on the Pavement Marking and Signing Plans and/or as directed by the Engineer.

Street Name	Station	Side
Longmeadow St	2+48	LT
Longmeadow St	2+49	RT
Longmeadow St	3+81	RT
Longmeadow St	4+62	LT
Longmeadow St	5+65	RT
Longmeadow St	5+96	LT
Longmeadow St	8+17	LT
Longmeadow St	9+63	LT
Longmeadow St	9+71	RT
Longmeadow St	12+23	RT
Longmeadow St	13+31	LT
Longmeadow St	15+56	LT
Longmeadow St	16+62	RT
Longmeadow St	19+72	LT
Longmeadow St	20+62	RT
Longmeadow St	22+14	RT
Longmeadow St	22+69	LT
Longmeadow St	23+88	RT
Longmeadow St	24+56	LT
Longmeadow St	24+98	RT

PROJECT NO. 608881**-PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET-**TOWN LongmeadowROAD Longmeadow Street and Converse StreetYEAR 2025DATE 6/16/2025**ITEM 865.16** (Continued)

Street Name	Station	Side
Longmeadow St	25+90	RT
Longmeadow St	26+88	RT
Longmeadow St	26+08	LT
Longmeadow St	28+80	RT
Longmeadow St	28+80	LT
Longmeadow St	30+66	LT
Forest Glen Rd	201+10	RT
Forest Glen Rd	201+10	LT
Forest Glen Rd	202+00	LT
Converse St	102+83	RT
Converse St	103+09	LT
Converse St	103+73	RT
Converse St	105+36	LT
Converse St	107+50	RT
Converse St	108+00	LT
Converse St	110+00	LT
Converse St	110+50	RT
Converse St	113+50	RT
Converse St	114+63	LT
Converse St	116+47	RT
Converse St	117+04	RT
Converse St	117+26	LT
Converse St	118+52	RT
Converse St	118+58	LT
Converse St	121+28	RT
Converse St	121+57	LT
Laurel St	303+28	RT
Laurel St	303+54	LT
Laurel St	304+70	RT
Laurel St	304+80	LT
Laurel St	307+15	RT
Laurel St	307+35	LT

**874.85****PRIVATE SIGN REMOVED AND RESET**

Designation	Street	Station	Side
WELCOME TO SPRINGFIELD	Longmeadow	26+00	RT

PROJECT NO. 608881

**-PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET-**

TOWN Longmeadow

YEAR 2025

ROAD Longmeadow Street and Converse Street

DATE 6/16/2025

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**903.**

**3000 PSI, 1.5 INCH, 470 CEMENT CONCRETE**

For construction of a thrust block at the relocated hydrant and/or as directed by the Engineer.

PROJECT NO. 608881

**-PRELIMINARY ESTIMATE OF QUANTITIES - DETAIL SHEET-**

TOWN Longmeadow

YEAR 2025

ROAD Longmeadow Street and Converse Street

DATE 6/16/2025

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# PROJECT UTILITY COORDINATION FORM

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## Project Utilities Coordination (PUC) Form

CONTACTS AND GENERAL UTILITY INFORMATION

3/20/2025  
Revision  
Date:

<b>City/Town:</b> Longmeadow	<b>Project File #:</b> 608881	<b>PUC Completed by:</b> Paul Kelly	<b>Utility Pole Set:</b> Eversource/Verizon
<b>Route/Street:</b> Longmeadow St/Converse St/ Rte 5	<b>Resident Engineer:</b>	<b>Mass DOT PM:</b> Kimberley Sloan	<b>Scheduled Ad Date:</b> 5/3/2025
			<b>Total Poles Relocated:</b> 8

7/2/2025  
PRINTED

Consultant:	Utility Company	Contact	Office #	Cell #	Contact:		Cell #	Reimbursement		Notes		Potential for District Initiated Early Relocation *		Utilities On Bridge/Structure		Utilities	
					Steve Savaria			Yes	No	Agreement	Non-Reimb	YES	NO	YES	NO	UG	OH
	Eversource	Nicholas Langone						X		X			X		X	X	
	Verizon	Paul Styspeck	413-787-1845					X					X		X	X	
	Comcast	Joe Chafer	413-233-6989					X					X		X	X	
	Eversource Gas	Bryan Meccariello							X		X		X		X	X	
	Access Plus	Jason Cummins							X				X		X	X	

### Utility Relocation Notes for MassDOT Contractor

Unless otherwise noted by Contract, the MassDOT Contractor is to provide the District Construction Office with 7 Calendar Days advance notification in order to validate the current progress and provide the required 30 Days advance notice-to-proceed for the first Utility - and each subsequent Utility. These advance notifications are to be identified in the Contractor's Schedules (Pre-Con preparation, Baseline, Subnets, and Updated/Monthly Schedules) as specified in Subsection 8.02 (for DBB Contracts) and/or Section 9 (of DB Contracts). Note: The durations included below do not include these lead-times. See Additional Important Basis notes for Contractor - on last PUC Form page.

### Additional notes:

Eversource has requested a 90 day lead time to order materials

### Suggested Sequence of Relocation (Based on Consultant proposed construction staging)

The sequence as detailed on the following pages is based on the consultants proposed staging plan. This information was compiled through meetings that included all of the utilities listed below along with the designer and the (Insert Municipality here). The information provided is the best available information prior to project advertisement.

Is 'enabling' (prep) work, by the Contractor, necessary prior to the start of the first series of utility relocations:

	Yes	No
	X	

Has any of the Utility work been identified to work concurrently

	Yes	No
	X	

7/2/2025  
PRINTED

RESPONSIBLE PARTY	DESCRIPTION - Utility Relocation Phases, Tasks and Activities	Estimated Duration (Work Days) by Utilities (Lead time not included)	Concurrent / Exclusive Utility Work				Access Restraint & Limitations of Operations Notes	
			Contractor note: In planning and executing the work, the Access Restraints listed in the Special Provisions, takes precedence over the checklist in these 4 columns.				Should an AR be considered for the Contractor ?	
			Exclusive Utility on site	Concurrent Utilities	Contractor Off-Site	Contractor Concurrent	Potential Access Restraint (Yes/No)	Reason/Note (optional)
Stage : 1 Phase :A	Enabling work by the Contractor - Contractor needs to verify and approve proposed utility pole locations with RE		Utility working with no other utilities in vicinity	Utility working with other utilities on site	No Contractor physical constructions on-site (while Utility is Contractor and Utility are working on-site - but NOT in the same vicinity			
	UTILITY OPERATIONS - Aerial relocation							
Task-1	Eversource/Verizon Install new poles and anchors							
	u Eversource Installs new 55' pole and anchors	2		X		X	No	
	u Verizon Installs new poles and anchors	17		X		X	No	
	u Eversource Transfer all cables and equipment to new poles	10	X			X	No	
	u Eversource Place Riser Conduits and Service Connections	10	X			X	No	
	Sub-Total	39						
Task-2	UTILITY OPERATIONS - Aerial relocation							
	Access Plus Town Fiber Optic Cable							
	u Access Plus Town Fiber Optic Cable Transfer to new poles	1	X			X	No	
	Sub-Total	1						
Task-3	UTILITY OPERATIONS - Aerial relocation							
	Comcast							
	u Comcast Run New Strand	1	X			X	No	
	u Comcast Run New Coax	3	X			X	No	
	u Comcast Splice New Coax	3	X			X	No	
	u Comcast De-Lash/Re-Lash Fibers	3	X			X	No	
	u Comcast Trench new conduit and pull cable	5	X			X	No	
	u Comcast Wreck Out Old Strand and Coax	2	X			X	No	
	Sub-Total	17						
Task-4	UTILITY OPERATIONS - Aerial relocation							
	Verizon							
	u Verizon Place Pole Guywire	1	X			X	No	
	u Verizon Place/Remove/Recon Drop Wire	1	X			X	No	
	u Verizon Splice/Trim Out Cable	4	X			X	No	
	u Verizon Line Transfer, Relocate, and Relash Cable	10	X			X	No	
	u Verizon Place Riser Conduits and Service Connections	5	X			X	No	
	Sub-Total	21						
Task-5	Verizon							
	u Verizon Remove old poles	4	X			X	No	
	Sub-Total	4						
Task-6	UTILITY OPERATIONS - Underground							
	Eversource Electric							
	u Eversource Electric Removes Underground Transformer at intersection of Longmeadow St and Converse St and installs Pad Mounted Transformer and associated conduit work.	10	X			X	No	
	UTILITY OPERATIONS - Underground							
	Eversource Electric							
	u Eversource Electric Removes and Resets Street Lights on Columbus Ave (Bases, Conduit and Wiring)	10	X			X	No	
Stage : 1 Phase :B	Enabling work by the Contractor - complete grading work for sidewalk construction and/or places binder course in areas where structures/gates are to be adjusted.							
	UTILITY OPERATIONS - Underground							
	Verizon, Eversource and Comcast							
	u Verizon adjusts structures	5		X		X	No	
	u Eversource Gas adjusts gas gates	5		X		X	No	
	u Eversource adjusts structures	5		X		X	No	
	u Comcast Adjusts structures	5		X		X	No	
	Sub-Total	20						
	Total	122						

IMPORTANT BASIS NOTES - FOR CONTRACTOR

RESPONSIBLE PARTY	DESCRIPTION - Utility Relocation Phases, Tasks and Activities	Estimated Duration (Work Days) by Utilities (Lead time not included)				Concurrent / Exclusive Utility Work Contractor note: In planning and executing the work, the Access Restraints listed in the Special Provisions, takes precedence over the checklist in these 4 columns.				Access Restraint & Limitations of Operations Notes Should an AR be considered for the Contractor?	
		Exclusive Utility on site	Concurrent Utilities	Contractor Off-Site	Contractor Concurrent	Contractor Concurrent	Contractor Concurrent	Contractor Concurrent	Potential Access Restraint	(Yes/No)	Reason/Note (optional)
C = Contractor U = Utility Co.		Utility working with no other utilities in vicinity	Utility working with other utilities on site	No Contractor physical operations on-site (while Utility is construction)	Contractor and Utility are working on-site - but NOT in the same vicinity						
1	Unless otherwise specified in the MassDOT Construction Contract, or unless specifically noted within this PUC Form, these durations (herein) are based upon the Contractor providing <i>unimpeded access</i> to the Utility company to perform Utility relocations (see Note 5 - Access).										
2	"Concurrent Utilities" operations noted herein, are to signify those Utility Company operations that can be worked concurrently (e.g. Utility A and Utility B work on-site together) - MassDOT and the Contractor are to prepare NTPs to Utilities accordingly.										
3	"Potential Access Restraints" noted within this PUC Form are for planning purposes. See MassDOT Contract for Contractual Access Restraints (refer to Subsections 8.02, 8.03, and/or 8.06 for Design Bid Build Contracts and Volume II Section 9 for Design Build Contracts).										
4	Utility non-work periods - For planning purposes, the durations above contain some non work days (contingency) for New England conditions (precipitation, high temperatures, low temperatures, snow, ice). Gas line work however, typically has a seasonal restriction and can NOT be installed from 15-November to 15-March. Municipally Owned Electric and Gas Utilities are also restricted from proceeding from 15-November to 15-March. The Contractor shall (and the CTD plan) reflect this calendar restriction within the schedule (unless otherwise note).										
5	Access - Unless otherwise noted in the Contract, and in addition to the 'enabling' notes above, the Contractor must provide safe and unimpeded access (for trucks, lifts, cranes, etc.) to the Utilities, to allow for the proposed relocation(s) - including but not limited to snow removal, clearing and grubbing, guard rail removal, barrier removal, tree removal, and grading.										
6	For all MassDOT construction contracts issued after January 2014, the new Utility Coordination/documentation specification is required. This is Section 8.14 in Design-Bid-Build Contracts (see Design-Build Index reference for applicable section #).										
7	Prior to starting any and all enabling work for Utilities, the Contractor is to plan in advance with submittals and approved durations.										
8	* Potential District Initiated Early Utility Relocation - if noted herein, the District reserves the right to initiate early utility relocation in advance of the Contract NTP. In submitting a bid price and in the development/basis of the Baseline Schedule, the Contractor shall not plan the Work with the potential benefit of any form of 'early utility relocation.' As a requirement of the Baseline submission, unless otherwise noted in this Specification, the earliest that the first Utility company is to receive the 30 days advance notification to mobilize to the site, will be 7 calendar days after the pre-construction meeting and never sooner than 7 days after the Contract NTP.										
9											

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DOCUMENT A00811

# **WATERING LOG for MassDOT Plantings**

Watering Log for MassDOT Plantings

Project Description:

Contract No:

Project No:

Notes:

Plant Locations/s:  
(Attach planting  
plan/s as  
necessary)

	Separate logs shall be kept to track areas or plants with different watering schedules. Trees shall receive a minimum of 10 gallons with each watering and shrubs a minimum of 5 gallons. Provide note that if watering is not performed as scheduled due to rain. Record date of rainfall and amount.											
Date Watered												
Landscape Contractor Initial												
Prime Contractor Initial												
Date Watered												
Landscape Contractor Initial												
Prime Contractor Initial												

Each week, following watering, Log shall be submitted to the MassDOT Engineer.  
6/15/2018

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: LONGMEADOW-SPRINGFIELDProject File Number: 608881Contract Number: 130937Project Description: Resurfacing and Intersection Improvements on Longmeadow Street (Route 5) and Converse Street (0.84 Miles)

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](mailto: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 A00875

**POLICY DIRECTIVE P-22-001  
AND  
POLICY DIRECTIVE P-22-002**

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Number: P-22-001  
Date: 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

LONGMEADOW-SPRINGFIELD

For: **Resurfacing and Intersection Improvements on Longmeadow Street (Route 5)  
and Converse Street (0.84 Miles)**

COMMONWEALTH OF MASSACHUSETTS

## LOCATION

The work referred to herein is in the Town and City of LONGMEADOW and SPRINGFIELD on 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:

Longmeadow Street**Beginning – Station 02+09.46 +/-****Ending –Station 32+50.00 +/- (Columbus Avenue)**Engelwood Road**Limit of Work – Station 100+66.77 +/-**Converse Street**Limit of Work – Station 121+83.52 +/-**Western Drive**Limit of Work – Station 401+00.00 +/-**Forest Glen Road**Limit of Work – Station 205+18.89 +/-**Laurel Street**Limit of Work – Station 301+80.85 +/-****Limit of Work – Station 307+96.27 +/-**

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 **1007 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 15<sup>th</sup>.

The Work of this project is described by the following Items and quantities.

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Project # 608881		Contract # 130937		
Location : LONGMEADOW				
Description : Resurfacing and Intersection Improvements on Longmeadow Street (Route 5) and Converse Street (0.84 Miles)				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
101.	0.1	CLEARING AND GRUBBING  AT _____ PER ACRE		
102.1	130	TREE TRIMMING  AT _____ PER FOOT		
102.511	117	TREE PROTECTION - ARMORING AND PRUNING  AT _____ EACH		
102.513	500	AIR EXCAVATION AND PRUNING  AT _____ PER FOOT		
102.521	260	TREE AND PLANT PROTECTION FENCE  AT _____ PER FOOT		
102.55	40	ARBORIST  AT _____ PER HOUR		
103.	3	TREE REMOVED - DIAMETER UNDER 24 INCHES  AT _____ EACH		
104.	1	TREE REMOVED - DIAMETER 24 INCHES AND OVER  AT _____ EACH		
105.	2	STUMP REMOVED  AT _____ EACH		

Project # 608881		Contract # 130937		
Location : LONGMEADOW				
Description : Resurfacing and Intersection Improvements on Longmeadow Street (Route 5) and Converse Street (0.84 Miles)				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
120.	13,600	EARTH EXCAVATION  AT _____ PER CUBIC YARD		
121.	150	CLASS A ROCK EXCAVATION  AT _____ PER CUBIC YARD		
127.1	7	REINFORCED CONCRETE EXCAVATION  AT _____ PER CUBIC YARD		
141.	40	CLASS A TRENCH EXCAVATION  AT _____ PER CUBIC YARD		
141.1	130	TEST PIT FOR EXPLORATION  AT _____ PER CUBIC YARD		
142.	150	CLASS B TRENCH EXCAVATION  AT _____ PER CUBIC YARD		
144.	45	CLASS B ROCK EXCAVATION  AT _____ PER CUBIC YARD		
146.	44	DRAINAGE STRUCTURE REMOVED  AT _____ EACH		
150.	50	ORDINARY BORROW  AT _____ PER CUBIC YARD		

Project # 608881		Contract # 130937		
Location : LONGMEADOW				
Description : Resurfacing and Intersection Improvements on Longmeadow Street (Route 5) and Converse Street (0.84 Miles)				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
151.	7,700	GRAVEL BORROW  AT _____ PER CUBIC YARD		
153.	60	CONTROLLED DENSITY FILL - EXCAVATABLE  AT _____ PER CUBIC YARD		
156.	440	CRUSHED STONE  AT _____ PER TON		
170.	24,400	FINE GRADING AND COMPACTING - SUBGRADE AREA  AT _____ PER SQUARE YARD		
180.01	1	ENVIRONMENTAL HEALTH AND SAFETY PROGRAM  AT _____ LUMP SUM		
180.02	40	PERSONAL PROTECTION LEVEL C UPGRADE  AT _____ PER HOUR		
180.03	80	LICENSED SITE PROFESSIONAL SERVICES  AT _____ PER HOUR		
181.11	8,180	DISPOSAL OF UNREGULATED SOIL  AT _____ PER TON		
181.12	3,690	DISPOSAL OF REGULATED SOIL - IN-STATE FACILITY  AT _____ PER TON		

Project # 608881		Contract # 130937		
Location : LONGMEADOW				
Description : Resurfacing and Intersection Improvements on Longmeadow Street (Route 5) and Converse Street (0.84 Miles)				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
181.13	3,690	DISPOSAL OF REGULATED SOIL - OUT-OF-STATE FACILITY  AT _____ PER TON		
181.14	820	DISPOSAL OF HAZARDOUS WASTE  AT _____ PER TON		
182.1	1	INSPECTION AND TESTING FOR ASBESTOS  AT _____ LUMP SUM		
182.2	90	REMOVAL OF ASBESTOS  AT _____ PER FOOT		
184.1	0.5	DISPOSAL OF TREATED WOOD PRODUCTS  AT _____ PER TON		
201.	69	CATCH BASIN  AT _____ EACH		
202.	14	MANHOLE  AT _____ EACH		
202.2	4	MANHOLE (9 TO 14 FOOT DEPTH)  AT _____ EACH		
204.	6	GUTTER INLET  AT _____ EACH		

Project # 608881		Contract # 130937		
Location : LONGMEADOW				
Description : Resurfacing and Intersection Improvements on Longmeadow Street (Route 5) and Converse Street (0.84 Miles)				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
220.	17	DRAINAGE STRUCTURE ADJUSTED  AT _____ EACH		
220.2	15	DRAINAGE STRUCTURE REBUILT  AT _____ PER FOOT		
220.3	14	DRAINAGE STRUCTURE CHANGE IN TYPE  AT _____ EACH		
220.5	11	DRAINAGE STRUCTURE REMODELED  AT _____ EACH		
220.7	28	SANITARY STRUCTURE ADJUSTED  AT _____ EACH		
220.8	4	SANITARY STRUCTURE REMODELED  AT _____ EACH		
220.85	5	SANITARY STRUCTURE REBUILT  AT _____ PER FOOT		
221.	32	FRAME AND COVER  AT _____ EACH		
222.1	69	FRAME AND GRATE - MASSDOT CASCADE TYPE  AT _____ EACH		

Project # 608881		Contract # 130937		
Location : LONGMEADOW				
Description : Resurfacing and Intersection Improvements on Longmeadow Street (Route 5) and Converse Street (0.84 Miles)				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
223.1	69	FRAME AND GRATE (OR COVER) REMOVED AND STACKED  AT _____ EACH		
227.3	50	REMOVAL OF DRAINAGE STRUCTURE SEDIMENT  AT _____ PER CUBIC YARD		
227.31	200	REMOVAL OF DRAINAGE PIPE SEDIMENT  AT _____ PER FOOT		
227.4	40	MASONRY PLUG  AT _____ PER SQUARE FOOT		
238.12	40	12 INCH DUCTILE IRON PIPE  AT _____ PER FOOT		
241.12	2,690	12 INCH REINFORCED CONCRETE PIPE CLASS III  AT _____ PER FOOT		
241.24	25	24 INCH REINFORCED CONCRETE PIPE CLASS III  AT _____ PER FOOT		
241.30	75	30 INCH REINFORCED CONCRETE PIPE CLASS III  AT _____ PER FOOT		
252.12	6	12 INCH CORRUGATED PLASTIC PIPE  AT _____ PER FOOT		



Project # 608881		Contract # 130937		
Location : LONGMEADOW				
Description : Resurfacing and Intersection Improvements on Longmeadow Street (Route 5) and Converse Street (0.84 Miles)				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
272.12	420	12 INCH AND UNDER PIPE REMOVED AND DISCARDED  AT _____ PER FOOT		
303.06	10	6 INCH DUCTILE IRON WATER PIPE (MECHANICAL JOINT)  AT _____ PER FOOT		
309.	35	DUCTILE IRON FITTINGS FOR WATER PIPE  AT _____ PER POUND		
347.1	50	1 INCH COPPER TUBING TYPE K  AT _____ PER FOOT		
357.10	5	10 INCH GATE BOX  AT _____ EACH		
358.	41	GATE BOX ADJUSTED  AT _____ EACH		
358.15	5	GATE BOX REMOVED AND DISCARDED  AT _____ EACH		
376.2	1	HYDRANT - REMOVED AND RESET  AT _____ EACH		
381.	2	SERVICE BOX  AT _____ EACH		

Project # 608881		Contract # 130937		
Location : LONGMEADOW				
Description : Resurfacing and Intersection Improvements on Longmeadow Street (Route 5) and Converse Street (0.84 Miles)				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
381.3	54	SERVICE BOX ADJUSTED  AT _____ EACH		
402.	1,550	DENSE GRADED CRUSHED STONE FOR SUB-BASE  AT _____ PER CUBIC YARD		
415.2	16,160	PAVEMENT FINE MILLING  AT _____ PER SQUARE YARD		
431.	960	HIGH EARLY STRENGTH CEMENT CONCRETE BASE COURSE  AT _____ PER SQUARE YARD		
443.	55	WATER FOR ROADWAY DUST CONTROL  AT _____ PER 1000 GALLONS		
450.231	2,940	SUPERPAVE SURFACE COURSE - 12.5 POLYMER (SSC - 12.5 - P)  AT _____ PER TON		
450.31	3,120	SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC -12.5)  AT _____ PER TON		
450.42	2,600	SUPERPAVE BASE COURSE - 37.5 (SBC - 37.5)  AT _____ PER TON		
451.	335	HMA FOR PATCHING  AT _____ PER TON		

Project # 608881		Contract # 130937		
Location : LONGMEADOW				
Description : Resurfacing and Intersection Improvements on Longmeadow Street (Route 5) and Converse Street (0.84 Miles)				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
452.	4,200	ASPHALT EMULSION FOR TACK COAT  AT _____ PER GALLON		
453.	34,250	HMA JOINT ADHESIVE  AT _____ PER FOOT		
472.	410	TEMPORARY ASPHALT PATCHING  AT _____ PER TON		
476.1	7	CEMENT CONCRETE PAVEMENT  AT _____ PER CUBIC YARD		
482.4	120	SAWCUTTING PORTLAND CEMENT CONCRETE  AT _____ PER FOOT		
482.5	4,400	SAWCUTTING ASPHALT PAVEMENT FOR BOX WIDENING  AT _____ PER FOOT		
506.	7,235	GRANITE CURB TYPE VB - STRAIGHT  AT _____ PER FOOT		
506.1	2,640	GRANITE CURB TYPE VB - CURVED  AT _____ PER FOOT		
506.2	17	GRANITE CURB TYPE VB - SPLAYED END  AT _____ EACH		

Project # 608881		Contract # 130937		
Location : LONGMEADOW				
Description : Resurfacing and Intersection Improvements on Longmeadow Street (Route 5) and Converse Street (0.84 Miles)				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
509.	290	GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS - STRAIGHT  AT _____ PER FOOT		
509.1	450	GRANITE TRANSITION CURB FOR PEDESTRIAN CURB RAMPS - CURVED  AT _____ PER FOOT		
514.	20	GRANITE CURB INLET - STRAIGHT  AT _____ EACH		
516.	8	GRANITE CURB CORNER TYPE A  AT _____ EACH		
580.	1,050	CURB REMOVED AND RESET  AT _____ PER FOOT		
594.	1,610	CURB REMOVED AND DISCARDED  AT _____ PER FOOT		
595.	10	CURB INLET REMOVED AND DISCARDED  AT _____ EACH		
630.2	10	HIGHWAY GUARD REMOVED AND DISCARDED  AT _____ PER FOOT		
652.048	2	48 INCH CHAIN LINK FENCE END POST  AT _____ EACH		

Project # 608881		Contract # 130937		
Location : LONGMEADOW				
Description : Resurfacing and Intersection Improvements on Longmeadow Street (Route 5) and Converse Street (0.84 Miles)				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
658.	20	INDIVIDUAL LINE POST - OPTION  AT _____ EACH		
666.	300	CHAIN LINK FENCE REMOVED AND RESET  AT _____ PER FOOT		
697.1	71	SILT SACK  AT _____ EACH		
701.	6,380	CEMENT CONCRETE SIDEWALK  AT _____ PER SQUARE YARD		
701.1	570	CEMENT CONCRETE SIDEWALK AT DRIVEWAYS  AT _____ PER SQUARE YARD		
701.2	555	CEMENT CONCRETE PEDESTRIAN CURB RAMP  AT _____ PER SQUARE YARD		
702.	720	HOT MIX ASPHALT SIDEWALK OR DRIVEWAY  AT _____ PER TON		
710.4	3	BOUND - PLAIN GRANITE  AT _____ EACH		
722.2	1	SCHEDULE OF OPERATIONS (TYPE B) - FIXED PRICE \$77500  AT Seventy Seven Thousand Five Hundred Dollars LUMP SUM	\$77,500.00	\$77,500.00

Project # 608881		Contract # 130937		
Location : LONGMEADOW				
Description : Resurfacing and Intersection Improvements on Longmeadow Street (Route 5) and Converse Street (0.84 Miles)				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
740.	36	ENGINEER'S FIELD OFFICE AND EQUIPMENT (TYPE A)  AT _____ PER MONTH		
748.	1	MOBILIZATION  AT _____ LUMP SUM		
751.	1,830	LOAM FOR ROADSIDES  AT _____ PER CUBIC YARD		
756.	1	NPDES STORMWATER POLLUTION PREVENTION PLAN  AT _____ LUMP SUM		
765.	13,200	SEEDING  AT _____ PER SQUARE YARD		
804.3	1,330	3 INCH ELECTRICAL CONDUIT TYPE NM - PLASTIC -(UL)  AT _____ PER FOOT		
811.22	10	ELECTRIC HANDHOLE - SD2.022  AT _____ EACH		
811.251	1	ELECTRIC HANDHOLE - 17 X 30 INCHES  AT _____ EACH		
811.31	8	PULL BOX 12 X 12 INCHES - SD2.031  AT _____ EACH		

Project # 608881		Contract # 130937		
Location : LONGMEADOW				
Description : Resurfacing and Intersection Improvements on Longmeadow Street (Route 5) and Converse Street (0.84 Miles)				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
812.09	10	LIGHT STANDARD FOUNDATION PRECAST  AT _____ EACH		
816.01	1	TRAFFIC SIGNAL RECONSTRUCTION LOCATION NO. 1  AT _____ LUMP SUM		
816.02	1	TRAFFIC SIGNAL RECONSTRUCTION LOCATION NO. 2  AT _____ LUMP SUM		
816.03	1	TRAFFIC SIGNAL RECONSTRUCTION LOCATION NO. 3  AT _____ LUMP SUM		
816.90	1	TRAFFIC CONTROL SIGNAL REMOVED AND TRANSPORTED  AT _____ LUMP SUM		
817.8	1	ORNAMENTAL TRAFFIC SIGNAL SUPPORTS  AT _____ LUMP SUM		
823.70	6	HIGHWAY LIGHTING POLE AND LUMINAIRE REMOVED AND RESET  AT _____ EACH		
831.	74	ROADSIDE GUIDE SIGN (D6/D8) - ALUMINUM PANEL (TYPE A)  AT _____ PER SQUARE FOOT		
832.	630	WARNING-REGULATORY AND ROUTE MARKER - ALUMINUM PANEL (TYPE A)  AT _____ PER SQUARE FOOT		

Project # 608881		Contract # 130937		
Location : LONGMEADOW				
Description : Resurfacing and Intersection Improvements on Longmeadow Street (Route 5) and Converse Street (0.84 Miles)				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
841.6	1	SUPPORTS FOR GUIDE SIGN (I-2A-5 INCH TUBULAR POST) STEEL  AT _____ EACH		
847.1	104	SIGN SUP (N/GUIDE)+RTE MKR W/1 BRKWAY POST ASSEMBLY - STEEL  AT _____ EACH		
848.1	11	SIGN SUP (N/GUIDE)+RTE MKR W/2 BRKWAY POST ASSEMBLIES-STEEL  AT _____ EACH		
850.41	175	ROADWAY FLAGGER  AT _____ PER HOUR		
851.1	447	TRAFFIC CONES FOR TRAFFIC MANAGEMENT  AT _____ PER DAY		
852.	950	SAFETY SIGNING FOR TRAFFIC MANAGEMENT  AT _____ PER SQUARE FOOT		
852.11	300	TEMPORARY PEDESTRIAN BARRICADE  AT _____ PER FOOT		
852.12	10	TEMPORARY PEDESTRIAN CURB RAMP  AT _____ EACH		
853.1	8	PORTABLE BREAKAWAY BARRICADE TYPE III  AT _____ EACH		



Project # 608881		Contract # 130937		
Location : LONGMEADOW				
Description : Resurfacing and Intersection Improvements on Longmeadow Street (Route 5) and Converse Street (0.84 Miles)				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
854.016	23,550	TEMPORARY PAVING MARKINGS - 6 INCH (PAINTED)  AT _____ PER FOOT		
856.	694	ARROW BOARD  AT _____ PER DAY		
856.12	180	PORTABLE CHANGEABLE MESSAGE SIGN  AT _____ PER DAY		
859.	41,063	REFLECTORIZED DRUM  AT _____ PER DAY		
864.04	880	PAVEMENT ARROWS AND LEGENDS REFLECTORIZED WHITE (THERMOPLASTIC)  AT _____ PER SQUARE FOOT		
864.1	9,950	GREEN FRICTION SURFACE FOR BIKE LANES  AT _____ PER SQUARE FOOT		
865.16	52	PREFORMED THERMOPLASTIC BIKE LANE MARKINGS - WHITE SYMBOLS  AT _____ EACH		
868.106	13,940	6 INCH WET REFLECTIVE RECESSED WHITE LINE (THERMOPLASTIC)  AT _____ PER FOOT		
868.112	560	12 INCH WET REFLECTIVE RECESSED WHITE LINE (THERMOPLASTIC)  AT _____ PER FOOT		

Project # 608881		Contract # 130937		
Location : LONGMEADOW				
Description : Resurfacing and Intersection Improvements on Longmeadow Street (Route 5) and Converse Street (0.84 Miles)				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
868.124	2,510	24 INCH WET REFLECTIVE RECESSED WHITE LINE (THERMOPLASTIC)  AT _____ PER FOOT		
869.106	9,610	6 INCH WET REFLECTIVE RECESSED YELLOW LINE (THERMOPLASTIC)  AT _____ PER FOOT		
869.112	1,200	12 INCH WET REFLECTIVE RECESSED YELLOW LINE (THERMOPLASTIC)  AT _____ PER FOOT		
874.	24	STREET NAME SIGN  AT _____ EACH		
874.2	19	TRAFFIC SIGN REMOVED AND RESET  AT _____ EACH		
874.4	53	TRAFFIC SIGN REMOVED AND STACKED  AT _____ EACH		
874.85	1	PRIVATE SIGN REMOVED AND RESET  AT _____ EACH		
901.3	4	4000 PSI, 1.5 INCH, 565 CEMENT CONCRETE FOR POST FOUNDATION  AT _____ PER CUBIC YARD		
903.	1	3000 PSI, 1.5 INCH, 470 CEMENT CONCRETE  AT _____ PER CUBIC YARD		

Project # 608881		Contract # 130937		
Location : LONGMEADOW				
Description : Resurfacing and Intersection Improvements on Longmeadow Street (Route 5) and Converse Street (0.84 Miles)				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
912.4	32	DRILLED AND GROUTED #4 DOWELS  AT _____ EACH		
970.	100	DAMP-PROOFING  AT _____ PER SQUARE FOOT		
Total Qty: 285,207.6				

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## DOCUMENT B00853

## SCHEDULE OF PARTICIPATION BY DISADVANTAGED BUSINESS ENTERPRISES (DBES)

PRIME BIDDER: \_\_\_\_\_

DATE OF BID OPENING: \_\_\_\_\_ PROJECT NO.: 608881FEDERAL AID PROJECT NO. STP-0032(045)XPROJECT LOCATION: LONGMEADOW - SPRINGFIELD

Name, Address, and Phone Number(s) of DBE	Name of Activity	(a) <sup>†</sup> DBE Contractor Activity Amount <i>Construction Work</i>	(b) DBE Other Business Amount <i>Services, Supplies, Material</i>	(c) Total amount eligible for credit under rules in Section 6 of Document 00719 - DBE Special Provisions
Total Bid Amount	TOTALS:	\$	\$	\$
\$	DBE Percentage of Total Bid:	%	%	%

<sup>†</sup>Column (a) must be at least one-half of the DBE participation goal. Attach additional sheets as necessary.Is MassDOT Document B00855 (Joint Check Approval) being submitted for any of the above? ☐ Yes ☐ No☐ Not Known at This TimeWill any of the contractors listed above be using a third party (i.e. manufacturer) to deliver materials or perform any portion of work by a third party? ☐ Yes ☐ No

**CERTIFICATION:** I HEREBY DECLARE, TO THE BEST OF MY KNOWLEDGE, THAT **I HAVE READ THE SPECIAL PROVISIONS FOR PARTICIPATION BY DISADVANTAGED BUSINESS ENTERPRISES - DOCUMENT 00719.** BOTH THIS SCHEDULE AND THE RELEVANT AND ACCOMPANYING LETTER(S) OF INTENT ARE IN FULL COMPLIANCE WITH THE PROVISIONS OF, AND IN ACCORDANCE WITH, TITLE 49 CODE OF FEDERAL REGULATIONS, PART 26 (49 CFR Part 26).

SIGNATURE: \_\_\_\_\_ DATE \_\_\_\_\_

NAME AND TITLE (*PRINT*): \_\_\_\_\_

EMAIL ADDRESS: \_\_\_\_\_ TEL NO.: \_\_\_\_\_

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DOCUMENT B00854

DISADVANTAGED BUSINESS ENTERPRISES (DBE) PARTICIPATION  
LETTER OF INTENT

(To be completed by the DBE – Page 1 of 2)

TO: \_\_\_\_\_ (Prime Bidder)

FROM: \_\_\_\_\_ (DBE Firm)

RE: PROJECT NO.: 608881 FEDERAL AID PROJECT NO.: STP-0032(045)XPROJECT LOCATION: LONGMEADOW - SPRINGFIELD

DATE OF BID OPENING: \_\_\_\_\_

I, \_\_\_\_\_, authorized signatory of the above-referenced DBE firm hereby declare:  
*Print Name*

1. My company is currently certified as a Disadvantaged Business Enterprise (DBE) by the Massachusetts Supplier Diversity Office (“SDO”), formerly known as the State Office of Minority and Women Business Assistance (SOMWBA), as a: (check all applicable, see Section 1 of the Special Provisions For Participation By Disadvantaged Business Enterprises, MassDOT Document 00719 additional guidance is available at Title 49, Code of Federal Regulations, Part 26.55 (49 CFR Part 26.55)):

( ) CONTRACTOR      ( ) REGULAR DEALER      ( ) BROKER  
( ) MANUFACTURER      ( ) TRUCKING OPERATIONS      ( ) PROFESSIONAL SERVICES

2. My firm has the ability to manage, supervise and perform the activity described on page 2 of this Letter of Intent. If you are awarded the contract, my company intends to enter into a contract with your firm to perform the items of work or other activity described on the following sheet for the prices indicated.
3. There have been no changes affecting the ownership, control or independence of my company since my last certification review on \_\_\_\_\_, 20\_\_\_\_. If any such change is planned or occurs prior to my company's completion of this proposed work, I will give prior written notification to your firm and to the Massachusetts Department of Transportation (“MassDOT”) Office of Civil Rights and SDO.
4. I have read the MassDOT proposal for the Project which may be entitled “Project Contract Documents and Special Provisions” or the draft “Contract” which includes MassDOT Document 00719, and acknowledge that my company will comply with that document and the requirements of 49 CFR Part 26.
5. For the purpose of obtaining subcontractor approval from MassDOT, my firm will provide to you:

A. **The following construction work:**

- (i) a resume, stating the qualifications and experience, of the superintendent or foreperson who will supervise on site-work;
- (ii) a list of equipment owned or leased by my firm for use on this project; and
- (iii) a list of all projects (public or private) upon which my firm is currently performing, is committed to perform, or intends to make a commitment to perform. I shall also include, for each project: the name and telephone number of a contact person for the contracting authority, person, or organization; the dollar value of the work; a description of the work; and my firm's work schedule for the project.

B. **The following services, materials or supplies:**

- (i) a written agreement and invoices for the materials or supplies, and any other documents evidencing the terms of providing such items;
- (ii) information concerning brokers fees and commissions for providing services or materials; and
- (iii) a statement concerning whether my firm intends or will be required to use a joint check arrangement; and any other documents that may be required by MassDOT.

\_\_\_\_\_  
DBE Company Authorized Signature

Date \_\_\_\_\_

DISADVANTAGED BUSINESS ENTERPRISES (DBE) PARTICIPATION  
LETTER OF INTENT  
(To be completed by the DBE – Page 2 of 2)

DATE OF BID OPENING: \_\_\_\_\_

PROJECT NUMBER: 608881FEDERAL AID PROJECT NUMBER: STP-0032(045)XPROJECT LOCATION: LONGMEADOW - SPRINGFIELD

PRIME BIDDER: \_\_\_\_\_

DBE COMPANY NAME: \_\_\_\_\_

<u>Item number</u> if applicable	<u>NAICS</u> <u>Code</u>	<u>Description of Activity</u> with notations such as Services, or Brokerage, Installation Only, Material Only, or Complete	<u>Quantity</u>	<u>Unit Price</u>	<u>Amount</u>
TOTAL AMOUNT:					

*Please give full explanations, attach additional sheets if necessary.*

I HEREBY VERIFY THAT \_\_\_\_\_ WILL SOLELY  
(DBE company name)  
PERFORM THE WORK, OR PROVIDE THE SERVICES OR MATERIALS, AS DESCRIBED ABOVE.

DBE AUTHORIZED SIGNATURE: \_\_\_\_\_

NAME AND TITLE (PRINT): \_\_\_\_\_

TELEPHONE NUMBER: \_\_\_\_\_ FAX NUMBER: \_\_\_\_\_

EMAIL ADDRESS: \_\_\_\_\_

\*\*\* END OF DOCUMENT \*\*\*

Rev'd 9/20/19



DOCUMENT B00855

## DBE JOINT CHECK ARRANGEMENT APPROVAL FORM

(to be submitted by Prime Contractor)

Contract No: 130937 Project No. 608881 Federal Aid No.: STP-0032(045)XLocation: LONGMEADOW - SPRINGFIELD Bid Opening Date: \_\_\_\_\_Project Description: Resurfacing and Intersection Improvements on Longmeadow Street (Route 5) and Converse Street (0.84 Miles)

We have received the attached request for the use of a joint check arrangement from \_\_\_\_\_, a DBE on the above- referenced Contract and \_\_\_\_\_, a Material Supplier/Vendor for the subject Contract. The DBE has complied with the requirements of 49 CFR Part 26.55(c)(1). In particular, the DBE has:

- a written agreement with the material supplier/vendor;
- applied for credit with the subject material supplier and has supplied the vendor's response;
- shown that it will place all orders to the subject material supplier/vendor;
- made and retains all decision-making responsibilities concerning the materials; and
- provided a Joint Check Agreement that is acceptable to MassDOT;

As the Contractor for the Project, we agree to issue joint checks (made payable to the Material Supplier/Vendor and the DBE) for payment of sums due pursuant to invoices from the Supplier/Vendor and DBE.

**Contractor:**\_\_\_\_\_  
Company Name\_\_\_\_\_  
Signature  
Duly Authorized\_\_\_\_\_  
Printed Name\_\_\_\_\_  
Date\_\_\_\_\_  
Title**SubContractor:**\_\_\_\_\_  
Company Name\_\_\_\_\_  
Signature –  
Duly Authorized\_\_\_\_\_  
Printed Name\_\_\_\_\_  
Date\_\_\_\_\_  
Title

\*\*\* END OF DOCUMENT \*\*\*

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DOCUMENT B00856

## JOINT VENTURE AFFIDAVIT

*(All Firms)*

- All Information Requested By This Schedule Must Be Answered. Additional Sheets May Be Attached.
- If, there is any change in the information submitted, the Joint Venture parties must inform MassDOT Pre-Qualifications Office (and, if one of the companies is a DBE, the Director of Contract Compliance, Office of Civil Rights) *prior* to such change, in writing, either directly or through the Prime Contractor if the Joint Venture is a subcontractor.
- If the Joint Venture Entity will be the bidder on a prime Contract, it must bid and submit all required documents (insurance, worker's compensation, bonds, etc.) in the name of the Joint Venture Entity.

**I. Name of Joint Venture:** \_\_\_\_\_

Type of Entity if applicable (Corp., LLC): \_\_\_\_\_ Filing State \_\_\_\_\_

Address of joint venture: \_\_\_\_\_

Phone No(s) for JV Entity: \_\_\_\_\_ E-mail: \_\_\_\_\_

Contact Person(s) \_\_\_\_\_

Tax ID/EIN of Joint Venture: \_\_\_\_\_ Vendor Code: \_\_\_\_\_

**II. Identify each firm or party to the Joint Venture:**

Name of Firm: \_\_\_\_\_

Address: \_\_\_\_\_

Phone : \_\_\_\_\_ E-mail: \_\_\_\_\_

Contact person(s) \_\_\_\_\_

Name of Firm: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_ E-mail: \_\_\_\_\_

Contact Person(s) \_\_\_\_\_

**III. Describe the role(s) of the each party to the Joint Venture:**\_\_\_\_\_  
\_\_\_\_\_

- IV. Attach a copy of the Joint Venture Agreement.** The proposed Joint Venture Agreement should include specific details including, but not limited to: (1) the contributions of capital and equipment; (2) work items to be performed by each company's forces, (3) work items to be performed under the supervision of any DBE Venturer; (4) the commitment of management, supervisory and operative personnel employed by the DBE to be dedicated to the performance of the Project; and (5) warranty, guaranty, and indemnification clauses.

**V. Attach any applicable Corporate or LLC Votes, Authorizations, etc.**

**VI. Ownership of the Joint Venture:**

A. What is the percentage(s) of each company's ownership in the Joint Venture?

ownership percentage(s): \_\_\_\_\_

ownership percentage(s): \_\_\_\_\_

B. Specify percentages for each of the following (provide narrative descriptions and other detail as applicable):

1. Sharing of profit and loss: \_\_\_\_\_

2. Capital contributions:

(a) Dollar amounts of initial contribution: \_\_\_\_\_

(b) Dollar amounts of anticipated on-going contributions: \_\_\_\_\_

(c) Contributions of equipment (specify types, quality and quantities of equipment to be provided by each firm): \_\_\_\_\_

4. Other applicable ownership interests, including ownership options or other agreements, which restrict or limit ownership and/or control:

5. Provide copies of all other written agreements between firms concerning bidding and operation of this Project or projects or contracts.

6. Identify all current contracts and contracts completed during the past two (2) years by either of the Joint Venture partners to this Joint Venture:

**VII. Control of and Participation in the Joint Venture.** Identify by name and firm those individuals who are, or will be, responsible for and have the authority to engage in the following management functions and policy decisions. (Indicate any limitations to their authority such as dollar limits and co-signatory requirements.):

A. Joint Venture check signing:

\_\_\_\_\_  
\_\_\_\_\_

B. Authority to enter Contracts on behalf of the Joint Venture:

\_\_\_\_\_  
\_\_\_\_\_

C. Signing, co-signing and/or collateralizing loans:

\_\_\_\_\_  
\_\_\_\_\_

## D. Acquisition of lines of credit:

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## E. Acquisition and indemnification of payment and performance bonds:

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## F. Negotiating and signing labor agreements:

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G. Management of contract performance. (*Identify by name and firm only*):

1. Supervision of field operations: \_\_\_\_\_
2. Major purchases: \_\_\_\_\_
3. Estimating: \_\_\_\_\_
4. Engineering: \_\_\_\_\_

**VIII. Financial Controls of Joint Venture:**

## A. Which firm and/or individual will be responsible for keeping the books of account?

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## B. Identify the "Managing Partner," if any, and describe the means and measure of their compensation:

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## C. What authority does each firm have to commit or obligate the other to insurance and bonding companies, financing institutions, suppliers, subcontractors, and/or other parties participating in the performance of this Contract or the work of this Project?

---

**IX. Personnel of Joint Venture:** State the approximate number of personnel (by trade) needed to perform the Joint Venture's work under this Contract. Indicate whether they will be employees of the majority firm, DBE firm, or the Joint Venture.

	Firm 1 (number)	Firm 2 (number)	Joint Venture (number)
Trade			
Professional			
Administrative/Clerical			
Unskilled Labor			

Will any personnel proposed for this Project be employees of the Joint Venture?: \_\_\_\_\_

If so, who: \_\_\_\_\_

A. Are any proposed Joint Venture employees currently employed by either firm?

Employed by Firm 1: \_\_\_\_\_ Employed by firm 2 \_\_\_\_\_

B. Identify by name and firm the individual who will be responsible for Joint Venture hiring: \_\_\_\_\_

**X. Additional Information.** Please state any material facts and additional information pertinent to the control and structure of this Joint Venture.

**XI. AFFIDAVIT OF JOINT VENTURE PARTIES.** The undersigned affirm that the foregoing statements and attached documents are correct and include all material information necessary to identify and explain the terms and operations of our Joint Venture and the intended participation of each firm in the undertaking. Further, the undersigned covenant and agree to provide to MassDOT current, complete and accurate information regarding actual Joint Venture work, payments, and any proposed changes to any provisions of the Joint Venture, or the nature, character of each party to the Joint Venture. We understand that any material misrepresentation will be grounds for terminating any Contract awarded and for initiating action under Federal or State laws concerning false statements.

\_\_\_\_\_  
Firm 1

\_\_\_\_\_  
Firm 2

\_\_\_\_\_  
Signature  
Duly Authorized

\_\_\_\_\_  
Signature  
Duly Authorized

\_\_\_\_\_  
Printed Name and Title

\_\_\_\_\_  
Printed Name and Title

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

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