

## COMMONWEALTH OF MASSACHUSETTS



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# CONTRACT DOCUMENTS AND SPECIAL PROVISIONS

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PROPOSAL NO.	613779-131469
P.V. =	\$2,587,000.00
PLANS	NO

FOR

**Scheduled and Emergency Deck and Joint Repairs at Various Locations****in****DISTRICT 4**

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

This Proposal to be opened and read:

**TUESDAY, AUGUST 26, 2025 at 2:00 P.M.**

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## DOCUMENT 00010

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\*\*\* END OF DOCUMENT \*\*\*

DOCUMENT 00102

**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 26, 2025 at 2:00 P.M. \*\***

**DISTRICT 4**

**Scheduled and Emergency Deck and Joint Repairs at Various Locations**

**\*\*Date Subject to Change**

PROJECT VALUE = \$2,587,000.00

Bidders must be pre-qualified by the Department in the BRIDGE - CONSTRUCTION or BRIDGE - DECK REPAIRS 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.

**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.

**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 342.1. MassDOT posts the **Price Adjustments** on their Highway Division’s website at

<https://www.mass.gov/massdot-contract-price-adjustments>

This Contract contains Price Adjustments for steel. See Document 00813 - PRICE ADJUSTMENT FOR STRUCTURAL STEEL AND REINFORCING STEEL for their application and base prices.

MassDOT projects are subject to the rules and regulations of the Architectural Access Board (521 CMR 1.00 et seq.)

Prospective bidders and interested parties can access this information and more via the internet at [WWW.COMMBUYS.COM](http://WWW.COMMBUYS.COM).

BY: Monica G. Tibbits-Nutt, Secretary and CEO, MassDOT  
Jonathan L. Gulliver, Administrator, MassDOT Highway Division  
SATURDAY, JULY 19, 2025

## DOCUMENT 00210

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

July 1, 1981, updated October 2016

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

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

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

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

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

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

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

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

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



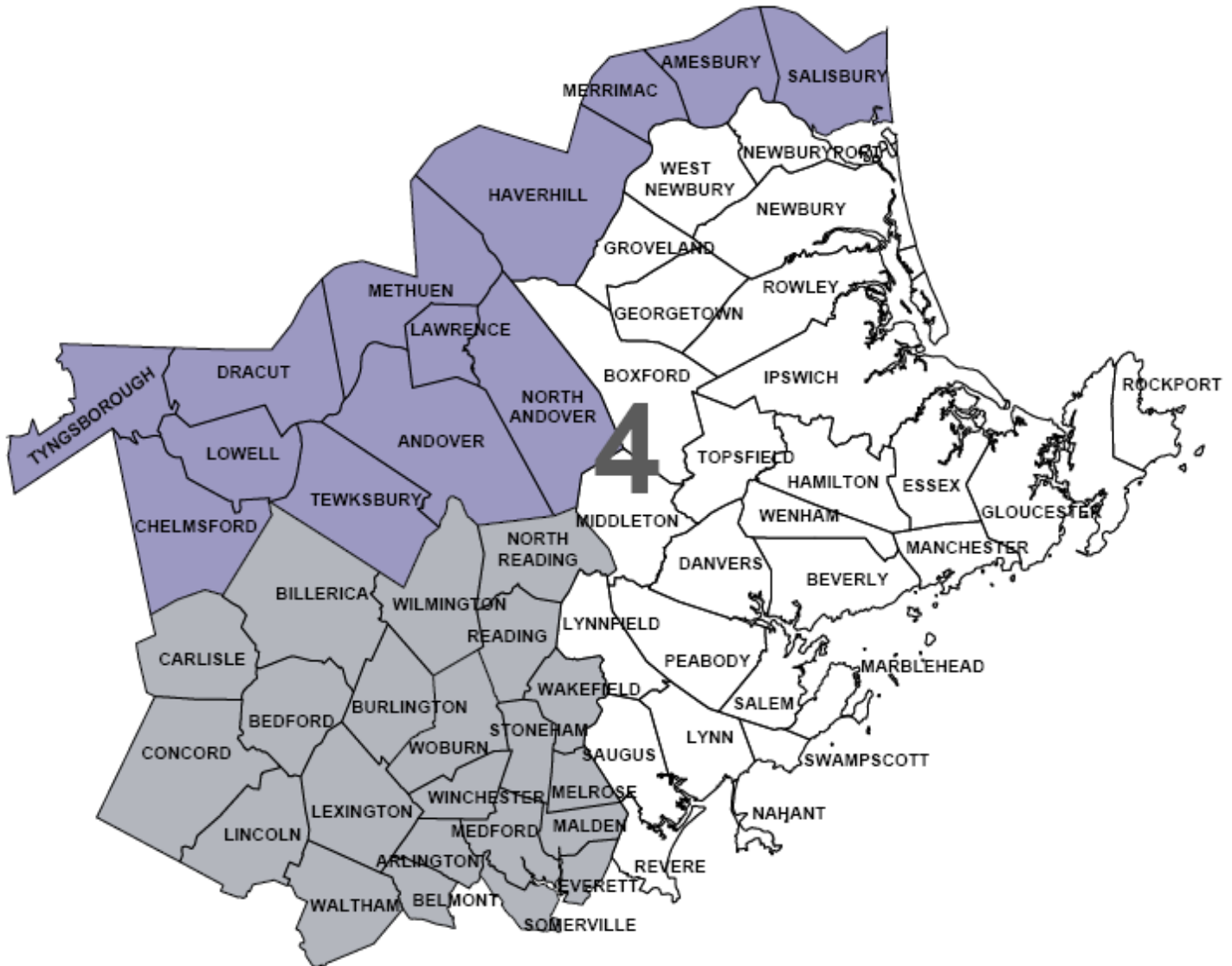
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DOCUMENT 00331

## LOCUS MAP

### DISTRICT 4

#### Scheduled and Emergency Deck and Joint Repairs at Various Locations



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

Date: \_\_\_\_\_

City/Town: \_\_\_\_\_

Contractor: \_\_\_\_\_

Project: \_\_\_\_\_

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

F.A. No. \_\_\_\_\_

Contract Number: \_\_\_\_\_

Bid Price: \_\_\_\_\_

Notice to Proceed: \_\_\_\_\_

Funds: State: \_\_\_\_\_ Fed Aid: \_\_\_\_\_

Current Contract Completion Date: \_\_\_\_\_

Date Work Started: \_\_\_\_\_

Date Work Completed\*: \_\_\_\_\_

Contractor's Superintendent: \_\_\_\_\_

Division: (indicates class of work) Highway: \_\_\_\_\_ Bridge: \_\_\_\_\_ Maintenance: \_\_\_\_\_

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

	Excellent 10	Very Good 9	Average 8	7	Fair 6	5	Poor 4	% Rating
<b>1. Workmanship</b>								x 2=
<b>2. Safety</b>								x 2=
<b>3. Schedule</b>								x 1.5=
<b>4. Home Office Support</b>								x 1=
<b>5. Subcontractors Performance</b>								x 1=
<b>6. Field Supervision/ Superintendent</b>								x 1=
<b>7. Contract Compliance</b>								x 0.5=
<b>8. Equipment</b>								x 0.5=
<b>9. Payment of Accounts</b>								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/DateContractor Requests Meeting with the District: No ☐Yes ☐

Date Meeting Held: \_\_\_\_\_

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





DOCUMENT 00440

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

Date: \_\_\_\_\_

City/Town: \_\_\_\_\_

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

Project: \_\_\_\_\_

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

F.A. No.: \_\_\_\_\_

Contract Number: \_\_\_\_\_

Prime Contractor \_\_\_\_\_

Current Contract Completion Date: \_\_\_\_\_

Date Work Started: \_\_\_\_\_

Date Work Completed\*: \_\_\_\_\_

Subcontractor's Superintendent: \_\_\_\_\_

Type of Work Performed by Subcontractor: \_\_\_\_\_

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

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

## 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

\*\*\* END OF DOCUMENT \*\*\*

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 00718

SPECIAL PROVISION FOR PARTICIPATION BY MINORITY OR WOMEN'S BUSINESS ENTERPRISES  
AND SERVICE- DISABLED VETERAN- OWNED BUSINESS ENTERPRISES(Implementing Chapter 102, Section 24 and  
Chapter 273, Section 124, of the Acts of 1994 and Chapter 56, Sections 1 to 5 of the Acts of 2010  
and subsequent Acts)

Revised: September 27, 2021

## I. PARTICIPATION

## M/WBE PARTICIPATION GOAL

On this Contract, the Massachusetts Department of Transportation (MassDOT) has established a goal for participation by Minority or Women Business Enterprise(s) (M/WBE). One half of the goal shall be met in the form of contractor activity. This goal shall remain in effect throughout the life of the Contract.

☒ Design-Bid-Build Projects: M/WBE Participation Goal 12%  
(One half of this goal shall be met in the form of Subcontractor construction activity)

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

## SDVOBE PARTICIPATION BENCHMARK

On this Contract, the Massachusetts Department of Transportation (MassDOT) has established a goal for participation by Service- Disabled Veteran- Owned Business Enterprise(s) (SDVOBE). This goal shall remain in effect throughout the life of the Contract.

☐ Design-Bid-Build Projects: SDVOBE Participation Goal \_\_\_\_%

☐ Design-Build Projects: SDVOBE Design Participation Goal \_\_\_\_% and SDVOBE Construction Participation Goal \_\_\_\_%

## II. POLICY

It is the policy of the MassDOT that Minority, Women Business Enterprises (M/WBEs) and Service- Disabled Veteran- Owned Business Enterprises (SDVOBEs) have equal opportunity to receive and participate in the performance of its state funded Contracts.

## III. M/WBE and SDVOBE OBLIGATION

The Contractor agrees to take all necessary and reasonable steps to ensure that MBE, WBE, and SDVOBEs have the maximum opportunity to compete for, and to perform, Department Contracts.

## IV. FAILURE TO COMPLY WITH M/WBE OR SDVOBE REQUIREMENTS

All Contractors and Subcontractors are hereby advised that failure to carry out the requirements of these Provisions constitutes a breach of Contract which may result in termination of the Contract, a determination that the Contractor or Subcontractor be barred from bidding on Department Contracts for up to three (3) years, or any other remedy as the Department may impose under Section XIV of these Special Provisions.

## V. REQUIRED SUBCONTRACT PROVISIONS

The Prime Contractor shall include the Provisions of Sections II, III, and IV above in every subcontract making those provisions binding on each subcontractor, supplier, manufacturer, consultant or service provider.

## VI. DEFINITIONS

For the purpose of these Special Provisions, the terms listed below are defined as follows:

Minority Business Enterprise or MBE means any individual, business organization, or non-profit corporation certified as a MBE by the Supplier Diversity Office (SDO), formerly known as the State Office of Minority and Women Business Assistance (SOMWBA), or by the Department for the purposes of a particular bid or proposal to be submitted to the Department.

Women Business Enterprise or WBE means any individual, business or organization, or non-profit corporation certified as a WBE by SDO, or by the Department for the purposes of a particular bid or proposal to be submitted to the Department.

Service- Disabled Veterans- Owned Businesses or SDVOBE means a business not less than 51 percent of which is owned by one or more service- disabled veterans or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more service-disabled veterans; and the management and daily business operations of which are controlled by one or more service- disabled veterans or, in the case of a veteran with permanent and severe disability, the spouse or permanent caregiver of such veteran.

"Contractor activity" means any work, including but not limited to, construction, demolition, renovation, survey, test boring services, or maintenance work performed under the Contract.

"Approved Joint Venture" means a joint venture between M/WBEs and non-M/WBEs, or SDVOBEs and non-SDVOBEs, which has been established for the purpose of participation on a particular contract, where:

1. The M/WBE or SDVOBE partner(s) shares in the ownership, control, management responsibilities, risks and profits of the joint venture; and
2. The Joint Venture has been approved by the Department for M/WBE or SDVOBE participation on the particular contract.

"Equipment Rental Firm" means a firm that owns equipment and assumes actual and contractual responsibility to rent said equipment to perform a useful function of the work of the contract consistent with normal industry practice.

"Material Supplier" means a vendor engaged in sales to the highway construction industry from an established place of business or source of supply, which:

- (a) Manufactures goods from raw materials or substantially alters them before resale, or
- (b) Provides and maintains a storage facility for materials used in the work, consistent with normal industry practice.

"Department" means the Massachusetts Department of Transportation (MassDOT).

"SDO" means the Massachusetts Supplier Diversity Office.

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## VII. ELIGIBILITY of M/WBEs

Only firms, *OTHER THAN THE PRIME CONTRACTOR*, which have been certified by SDO and/or the Department as eligible to participate on state funded contracts as MBEs or WBEs may be used on this contract for credit toward the toward the M/WBE participation goal.

1. SDO Directory of Certified M/WBEs: The Supplier Diversity Office publishes a Directory of certified MBE and WBEs. This Directory can be obtained from SDO at <https://www.sdo.osd.state.ma.us/>. This site lists those firms which have been certified as minority owned (MBEs) or women owned (WBEs) in accordance with the criteria of 425 CMR 2.00 et seq to participate as M/WBEs on state funded contracts. It also lists the kinds of work in which each firm engages but does not constitute an endorsement of the quality or performance of any business and does not represent Department subcontractor approval.
2. Application for Certification by the Department for a Particular Project: A firm which has (1) submitted a fully completed M/WBE application to SDO at least 30 days previously, (2) has provided in a timely manner, any additional information which may have been requested by SDO, and (3) can provide evidence, satisfactory to the Department, of a bidder's conditional commitment to subcontract with the firm, if certified, may apply directly to the MassDOT Office of Civil Rights to be certified for participation on the particular contract.
3. Joint Venture Approval: To obtain recognition as an approved joint venture between M/WBEs and non-M/WBEs, the Joint Venture must provide to the MassDOT Office of Civil Rights, at least 14 business days before the bid opening date, the Joint Venture Affidavit Document B00847, and a copy of the Joint Venture Agreement, which shall include a detailed breakdown of the following:
  - (a) Capital participation by the M/WBE,
  - (b) Specific equipment to be provided to the Joint Venture by the M/WBE,
  - (c) Specific responsibilities of the M/WBE in the management of the Joint Venture,
  - (d) Workforce and specific skills to be provided to the Joint Venture by the M/WBE, and
  - (e) Percentage distribution to the M/WBE of the projected profit or loss incurred by the Joint Venture.
  - (f) The Joint Venture shall provide all such additional information as may be requested by the Department for the purpose of determining joint venture eligibility.

## VIII. ELIGIBILITY of SDVOBEs

Only firms, *OTHER THAN THE PRIME CONTRACTOR*, which have demonstrated that they are listed as a service-disabled veteran- owned small businesses within the VetBiz database may be used on this contract for credit toward the SDVOBE participation goal.

1. VetBiz Database: The website, located at [www.VetBiz.gov](http://www.VetBiz.gov), listing verified service- disabled veteran- owned businesses.
2. Joint Venture Approval: To obtain recognition as an approved joint venture between SDVOBEs and non-SDVOBEs, the joint venture must provide to the MassDOT Office of Civil Rights, at least 14 business days before the bid opening date, an application for joint venture participation approval, and a copy of the Joint Venture Agreement, which shall include a detailed breakdown of the following:
  - (a) Capital participation by the SDVOBE,
  - (b) Specific equipment to be provided to the joint venture by the SDVOBE,
  - (c) Specific responsibilities of the SDVOBE in the management of the Joint Venture,
  - (d) Workforce and specific skills to be provided to the joint venture by the SDVOBE, and

- (e) Percentage distribution to the SDVOBE of the projected profit or loss incurred by the Joint Venture.
- (f) The Joint Venture shall provide all such additional information as may be requested by the Department for the purpose of determining joint venture eligibility.

#### IX. COUNTING M/WBE PARTICIPATION AND SDVOBE BENCHMARKS TOWARDS M/WBE AND SDVOBE GOALS

In order for M/WBE participation and SDVOBE benchmarks to count toward the Contract goal, the M/WBE and SDVOBE must have independently managed, supervised and performed the Contract work with its own workforce, equipment and resources. M/WBE and SDVOBE participation which fulfills these requirements shall be counted toward meeting the M/WBE and SDVOBE goals in accordance with the following rules:

- 1 If a firm has been determined to be an eligible MBE, WBE or SDVOBE, the total dollar value of the contract performed by the M/WBE or SDVOBE is counted toward the applicable goal as follows:
  - a. Except as provided below, in Section IX (1)(g), work performed by a M/WBE or a SDVOBE Prime Contractor shall not be counted toward the M/WBE or SDVOBE goal, and all Prime Contractors, including M/WBE or SDVOBE Prime Contractors, must comply with the M/WBE and SDVOBE requirements of this Contract.
  - b. For a M/WBE or SDVOBE material supplier, sixty percent (60%) of the amount to be paid for materials and supplies required under this Contract shall be credited toward the goal.
  - c. For a M/WBE or SDVOBE who provides a bonafide service such as professional, technical, consultant or managerial services and assistance in the procurement of essential personnel, facilities, equipment, materials, or supplies required for performance of the contract, reasonable fees or commissions charged for the service shall be listed, but the cost of items themselves shall not be credited.
  - d. For a M/WBE or SDVOBE hauler, trucker, or delivery service, which is not also the manufacturer of or a regular dealer in the materials and supplies, reasonable fees charged for delivery of materials and supplies required on the job site shall be credited; the cost of the materials and supplies themselves shall not be credited.
  - e. For a M/WBE or SDVOBE who provides any bonds or insurance specifically required for the performance of the contract, reasonable fees or commissions charged for such service shall be listed, but the face amount or actual premium paid for the bond or insurance shall not be credited.
  - f. The Department shall determine if the fees or commissions listed in accordance with paragraphs (c), (d), and (e) are not excessive as compared with fees or commissions customarily allowed for similar services.
  - g. That portion of the contract total dollar value equal to the percentage of ownership and control of the M/WBE partner(s) or SDVOBE partner(s) in an approved Joint Venture shall be counted toward the Contract goal, except that credit for M/WBE and SDVOBE participation in an approved Prime Joint Venture shall not exceed one half of the Contract goal.

#### X. JOINT CHECK POLICY

1. 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 M/WBE or SDVOBE third party such as a regular dealer of material or supplies. The Prime Contractor issues the check as payor to the M/WBE or SDVOBE 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 M/WBE or SDVOBE. MassDOT has established criteria to ensure that M/WBEs or SDVOBEs are in fact performing a commercially useful function ("CUF") while using a joint check arrangement. Contractors and M/WBEs or SDVOBEs must meet and conform to these conditions and criteria governing the use of joint checks.

2. In the event that a Contractor, M/WBE or SDVOBE Subcontractor desires to use a joint check, MassDOT will require prior notice and will closely monitor the arrangement for compliance. MassDOT may allow a joint check arrangement and give credit to a Contractor for use of the M/WBE or SDVOBE 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 (M/WBEs, SDVOBE and non-M/WBEs or non-SDVOBEs); 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 M/WBE or SDVOBE (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.
3. Other factors MassDOT may consider:
  - Whether there is a requirement by the Prime Contractor that a M/WBE or SDVOBE should use a specific vendor or supplier to meet their Subcontractor specifications;
  - Whether there is a requirement that a M/WBE or SDVOBE use the Prime Contractor's negotiated price;
  - The independence of the M/WBE or SDVOBE;
  - 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 M/WBE or SDVOBE has made an effort to establish alternate arrangements for following periods ( i.e., the M/WBE or SDVOBE 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 M/WBE or SDVOBE remain responsible for compliance with all other elements of the Special Provisions, and must still be able to prove that a commercially useful function is being performed for the Contractor.

#### XI. JOINT CHECK PROCEDURES

- The M/WBE or SDVOBE 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 B00846) and by notification on the M/WBE Letter of Intent (Document B00843) or SDVOBE Letter of Intent (Document B00845), 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 Contractor and M/WBE or SDVOBE must have:
  - (a) a written agreement with the material supplier/vendor;
  - (b) applied for credit with the subject material supplier and has supplied the vendor's response;

- (c) shown that it will place all orders to the subject material supplier/vendor;
  - (d) made and retains all decision-making responsibilities concerning the materials; and
  - (e) provided a Joint Check Agreement that is acceptable to MassDOT;
- The MassDOT Office of Civil Rights will review the request and render a decision as part of the approval process for M/WBE or SDVOBE 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 M/WBE or SDVOBE 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 M/WBE or SDVOBE (i.e. if possible, funds or the joint check should be processed by the M/WBE or SDVOBE and sent by the M/WBE or SDVOBE 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 M/WBE or SDVOBE 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 M/WBE or SDVOBE Program policies and procedures as part of the Subcontractor approval process.

## XII. AWARD DOCUMENTATION AND PROCEDURES

1. The two lowest bidders/the two bidders with the lowest price per quality score point, including any M/WBE bidder or SDVOBE bidder, shall submit, by the close of business on the third business day after the bid opening, a completed Schedule of M/WBE and SDVOBE participation, in the form attached, which shall list:
  - a. The full company name, address and telephone number of each M/WBE or SDVOBE with whom the bidder intends to make a commitment;
  - b. The Contract item(s), by number(s) and quantity(ies), if applicable, or specific description of other business activity to be performed by each M/WBE or SDVOBE 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 Section XII of these Special Provisions.
  - c. The total dollar amount to be paid to each M/WBE or SDVOBE. (Bidders are cautioned that at least one half of the participation goal must be met with Contract work.)
  - d. The total dollar amount to be paid to each M/WBE or SDVOBE which is eligible for credit toward the M/WBE or SDVOBE goal under the crediting rules set out in Section IX.
  - e. The total creditable M/WBE or SDVOBE participation as a percentage of the total bid price.
2. All firms listed on the Schedule must be currently certified.
3. The two lowest bidders/the two bidders with the lowest price per quality score point shall submit with their Schedules of Participation, fully completed, signed Letters of Intent from each of the M/WBEs or SDVOBEs listed on the Schedule. The Letters of Intent shall be in the form attached and shall identify specifically the contract activity the M/WBE or SDVOBE proposes to perform, expressed as contract item number, if applicable, description of the activity, 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.

4. Evidence of good faith efforts will be evaluated by the Department in the selection of the lowest responsible bidder/best value bidder. All information requested by the Department for the purpose of evaluating the bidder's efforts to achieve the goal must be provided within three calendar days and must be accurate and complete in every detail. The apparent low bidder's/best value bidder's attainment of the M/WBE or SDVOBE goal or a satisfactory demonstration of good faith efforts is a prerequisite for Award of the Contract.
5. 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 on the Schedule of Participation, and provide the required Letters of Intent for, M/WBE or SDVOBE 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 the Department, that good faith efforts were made to achieve the goal.
6. If the Department finds that the percentage of M/WBE or SDVOBE participation submitted by the bidder on its Schedule does not meet the Contract goal, or that the 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 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.
7. If, after administrative reconsideration, the Department 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.
8. Actions which constitute evidence of good faith efforts to meet the M/WBE or SDVOBE goals include, but are not limited to, all of the following examples:
  - a. Efforts made to select portions of the work proposed to be performed by M/WBEs or SDVOBEs in order to increase the likelihood of achieving the stated goal, including, where appropriate, but not limited to, breaking down contracts into economically feasible units to facilitate M/WBE and SDVOBE participation. The value of such work is required to at least equal the M/WBE and SDVOBE goal.
  - b. Reasonable written notification prior to the opening of bids soliciting individual M/WBEs or SDVOBEs interested in participation in the contract as subcontractors, regular dealers, manufacturers, consultants, or service providers and identifying the specific items or type of work being solicited.
  - c. Written notification to M/WBE or SDVOBE economic development assistance agencies and organizations which provide assistance in recruitment and placement of M/WBEs and SDVOBEs, describing the type of work, supplies or services being considered for M/WBE or SDVOBE subcontracting on this contract.
  - d. Efforts made to negotiate with M/WBEs or SDVOBEs for specific items of work including evidence of:
    - (1) The names, addresses, telephone numbers of M/WBEs or SDVOBEs who were contacted, the dates of initial contact and whether initial solicitations of interest were followed up by contacts with M/WBEs or SDVOBEs to determine with certainty whether the M/WBEs or SDVOBEs were interested. Personal or phone contacts are expected.
    - (2) A description of the information provided by the M/WBEs or SDVOBEs regarding the plans and specifications and estimated quantities for portions of the work to be performed.
    - (3) A statement of why additional agreements with M/WBEs or SDVOBEs were not reached.
    - (4) Documentation of each M/WBE or SDVOBE contacted but rejected and the reasons for the rejection.
  - e. Absence of any agreements between the Contractor and the M/WBE or SDVOBE in which M/WBE or SDVOBE promises not to provide subcontracting quotations to other bidders.
  - f. Efforts made to assist the M/WBEs or SDVOBEs that need assistance in obtaining bonding, insurance, or lines of credit required by the Contractor.

- g. Documentation that qualified M/WBEs or SDVOBEs are not available, or are not interested.
  - h. Attendance at any meeting scheduled by the Department to encourage better Contractor-M/WBE or Contractor- SDVOBE relationships and/or to inform M/WBEs or SDVOBEs of forthcoming M/WBE or SDVOBE utilization opportunities.
  - i. Advertisement, in general circulation media, in trade association publications and in disadvantaged business enterprise-focused media, of interest in utilizing M/WBEs or SDVOBEs and the area of interest.
  - j. Efforts to effectively use the services of available minority community organizations; women organizations, veteran organizations, minority, women disadvantaged and veteran contractor's groups; local, state and federal disadvantaged business assistance offices; and other organizations that provide assistance in recruitment and placement of M/WBEs or SDVOBEs.
9. The demonstration of good faith efforts must establish that the Contractor has actively and aggressively sought out M/WBEs or SDVOBEs to participate in the project and has taken all actions which could be reasonably expected to achieve the goal. Examples of circumstances or actions not acceptable as reasons for failure to meet the M/WBE or SDVOBE goal, include, but are not limited to:
- a. The M/WBE or SDVOBE was unable to provide performance and/or payment bonds.
  - b. The M/WBEs or SDVOBEs commercially reasonable bid was rejected based on price.
  - c. The M/WBE or SDVOBE would not agree to perform items of work at the unit bid price.
  - d. The Contractor does not want to subcontract a percentage of the work sufficient to meet the goal.
  - e. Solicitation by mail or fax only.

### XIII. COMPLIANCE

- 1. All activity performed by a M/WBE or SDVOBE for credit toward the Contract goal must be performed, managed and supervised by the M/WBE or SDVOBE. Prime Contractor shall not enter into, or condone, any other arrangement.
- 2. The Prime Contractor shall not perform with its own organization, or assign to any other business, any activity designated for the M/WBEs or SDVOBEs named on the Schedule submitted by the Prime Contractor under Section IX, or under Section XII(6), without the approval of the Department in accordance with the requirements of Sections XIII(6) and XIII(10).
- 3. The Department may suspend payment for any activity which was not performed by the M/WBE or SDVOBE to whom the activity was committed on the approved Schedule of Participation, or which was not performed in accordance with the requirements of Section XIII(1).
- 4. The Department retains the right to approve or disapprove all subcontractors. Requests by the Prime Contractor for approval of participation by a M/WBE or SDVOBE subcontractor for credit toward the Contract goal must include, in addition to any other requirements for subcontractor approval, the following:
  - a. A copy of the proposed subcontract. The subcontract must be for at least the dollar amount, and for the work described, in the Prime Contractor's Schedule of Participation.
  - b. A resume stating the qualifications and experience of the M/WBE or SDVOBE 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.
  - c. A Schedule of Operations indicating when the M/WBE or SDVOBE is expected to perform the work.

- d. A list of (1) equipment owned by the M/WBE or SDVOBE to be used on the Project, and (2) equipment to be leased by the M/WBE or SDVOBE for use on the Project.
  - e. A list of: (1) all projects (public and private) which the M/WBE or SDVOBE is currently performing, (2) all projects (public and private) to which the M/WBE or SDVOBE is committed, (3) all projects (public and private) to which the M/WBE or SDVOBE 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 M/WBEs or SDVOBEs work schedule for each project.
5. If, pursuant to the subcontractor approval process, the Department finds that a M/WBE or SDVOBE subcontractor does not have sufficient experience or resources to perform, manage and supervise work of the kind proposed in accordance with the requirements of Section XIII(1), approval of the M/WBE or SDVOBE subcontractor may be denied. In the event of such denial, the Prime Contractor shall proceed in accordance with the requirements of Sections XIII(6) and XIII(10).
  6. If, for reasons beyond its control, the Prime Contractor cannot comply with its M/WBE or SDVOBE commitment in accordance with the Schedule of participation submitted under Section IX and the terms of these Special Provisions, the Prime Contractor shall submit to the Department the reasons for its inability to comply with its obligations under Section I and shall submit, and request approval for, a revised Schedule of Participation. If approved by the Department, the revised Schedule shall govern the Prime Contractor's performance in meeting its obligations under these special provisions.
  7. A Prime Contractor's compliance with the participation goal in Section I shall be determined by reference to the required percentage of the total Contract price, including any additions and modifications thereto, provided, however, that no decrease in the dollar amount of a bidder's commitment to any M/WBE or SDVOBE shall be allowed without the approval of the Department.
  8. If the Contract amount is increased, the Prime Contractor shall submit a revised Schedule of Participation in accordance with Sections XIII(6) and XIII(10).
  9. In the event of the decertification of a M/WBE or SDVOBE participating or scheduled to participate on the contract for credit toward the goal, the Contractor shall proceed in accordance with Sections XIII(6) and XIII(10).
  10. The Prime Contractor shall notify the Department immediately of any facts which come to its attention indicating that it may or will be unable to comply with any aspect of its M/WBE or SDVOBE obligation under this Contract.
  11. Any notice required by these Special Provisions shall be given in writing to the Resident Engineer and the district designated Compliance Officer with a copy to the Director of Compliance, Office of Diversity and Civil Rights, 10 Park Plaza, Room 3170, Boston MA 02116.
  12. The Prime Contractor and its subcontractors shall comply with the Department's Electronic Reporting System Requirements (Contract Document 00821) and submit all information required by the Department related to the M/WBE Special Provisions and SDVOBE Special Provisions through the Equitable Business Opportunity Solution (EBO). The Department reserves the right to request reports in the format it deems necessary anytime during the performance of the Contract.
  13. The Contractor shall pay each M/WBE or SDVOBE for satisfactory performance of its Contract no later than 10 days from receipt of payment for the work from the Department. Any delay or postponement of payment to the M/WBEs or SDVOBEs must be for good cause and only with the prior approval of the Department.
  14. The Department may withhold the Contractor's next periodic payment if each M/WBE or SDVOBE is not paid in accordance with Section XIII(13).
  15. The Department may require specific performance of the Prime Contractor's commitment under the Contract by requiring the Prime Contractor to subcontract with a M/WBE or SDVOBE for any contract or specialty item.

#### XIV. SANCTIONS

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

1. Retain, in connection with final acceptance and final payment, an amount determined by multiplying the total contract amount by the percentage in Section I, less the amount paid to approved M/WBEs or SDVOBEs for work performed under the Contract in accordance with the provisions of Section X. The Prime Contractor shall have the right to appeal such retention of funds in accordance with the provisions of M.G.L. c. 30A s.10.
2. 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.
3. 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 5.07.
4. Initiate debarment proceedings under M.G.L. c.29 §29F.

#### XV. FURTHER INFORMATION

Any proposed M/WBE, SDVOBE, bidder, Contractor or subcontractor shall provide such information as is necessary in the judgement of the Department to ascertain its compliance with the terms of this Special Provision.

#### XVI. LIST OF ADDITIONAL DOCUMENTS

1. The following documents shall be completed and signed by the bidder and designated M/WBEs or SDVOBEs in accordance with Section XII - Award Documentation and Procedures. These documents must be returned by the bidder to MassDOT's Bid Document Distribution Center:
  - ☐ Schedule of M/WBEs (Document B00842) or SDVOBE Participation (Document B00844)
  - ☐ Letter of Intent: M/WBEs (Document B00843) or SDVOBE (Document B00845)
  - ☐ M/WBEs or SDVOBE Joint Check Arrangement Approval Form (Document B00846), if Contractor and M/WBE or SDVOBE plan, or if M/WBE or SDVOBE is required to use a Joint Check (when applicable)
2. The following document shall be signed and returned by Contractor and Subcontractors/M/WBEs or SDVOBEs 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 (M/WBEs or SDVOBEs and non-M/WBEs or SDVOBEs alike)).
3. 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:
  - ☐ Joint Venture Affidavit of M/WBE or SDVOBE/Non-M/WBE or Non-SDVOBE (Document B00847)
4. 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)

\*\* END OF DOCUMENT \*\*\*

DOCUMENT 00761

**SPECIAL PROVISIONS FOR CERTIFICATION REGARDING DEBARMENT,  
SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION**

Revised: 02/09/16

**I. Instructions for Certification - Primary Covered Transactions:**

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

1. 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 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 MassDOT's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.
2. The certification in this clause is a material representation of fact upon which reliance was placed when the MassDOT determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available, the MassDOT may terminate this transaction for cause of default.
3. The prospective primary participant shall provide immediate written notice to the MassDOT if any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
4. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the MassDOT for assistance in obtaining a copy of those regulations.
5. The prospective primary 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 MassDOT.
6. The prospective primary 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 Transaction," provided by the MassDOT, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
7. 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 may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the nonprocurement portion of the "Lists of Parties Excluded From Federal Procurement or Nonprocurement Programs" (Nonprocurement List) which is compiled by the General Services Administration and the Debarment Lists compiled by both the Massachusetts Office of the Attorney General and the Department of Capital Asset Management and Maintenance (DCAMM) and published separately in the Central Register.
8. 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.
9. Except for transactions authorized under paragraph 5 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, the MassDOT may terminate this transaction for cause or default.

\* \* \* \* \*

**Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion -- Primary Covered Transactions**

The prospective primary 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 covered transactions by any Federal, State or local department or agency;
2. Have not within a 3-year period preceding this proposal been convicted of or had a civil judgement 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;
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 2 of this certification; and
4. Have not within a 3-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

\* \* \* \* \*

**II. Instructions for Certification - Lower Tier Covered Transactions:**

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

1. 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 the MassDOT may pursue available remedies, including suspension and/or debarment.
2. 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.
3. The terms "covered transaction," "debarred," "suspended," "ineligible," "primary covered transaction," "participant," "person," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the MassDOT for assistance in obtaining a copy of those regulations.
4. 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 MassDOT.
5. 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.
6. 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 may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List and the Debarment Lists.

7. 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.
8. Except for transactions authorized under paragraph 4 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, the MassDOT may pursue available remedies, including suspension and/or debarment.

\* \* \* \* \*

**Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion - Lower Tier Covered Transactions**

The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal, State or local department or agency.

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

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## 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

July 16, 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	\$0.53
2	ASTM A27 (AASHTO M103) Steel Castings, H-Pile Points & Pipe Pile Shoes (See Note below.)	\$0.74
3	ASTM A668 / A668M (AASHTO M102) Steel Forgings	\$0.74
4	ASTM A108 (AASHTO M169) Steel Forgings for Shear Studs	\$0.76
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	\$0.75
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	\$0.75
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	\$0.76
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	\$0.76
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	\$0.93
15	ASTM A514/A514M-05 Grade HPS 100W / AASHTO M270M/M270 Grade HPS 100W or 690W Structural Steel Plate	\$1.42
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	\$0.76
18	ASTM A276 Type 316 Stainless Steel	\$4.26
19	ASTM A240 Type 316 Stainless Steel	\$4.26
20	ASTM A148 Grade 80/50 Steel Castings (See Note below.)	\$1.46
21	ASTM A53 Grade B Structural Steel Pipe	\$0.93
22	ASTM A500 Grades A, B, 36 & 50 Structural Steel Pipe	\$0.93
23	ASTM A252, Grades 240 (36 KSI) & 414 (60 KSI) Pipe Pile	\$0.74
24	ASTM 252, Grade 2 Permanent Steel Casing	\$0.74
25	ASTM A36 (AASHTO M183) for H-piles, steel supports and sign supports	\$0.78
26	ASTM A328 / A328M, Grade 50 (AASHTO M202) Steel Sheetpiling	\$1.40
27	ASTM A572 / A572M, Grade 50 Sheetpiling	\$1.40
28	ASTM A36/36M, Grade 50	\$0.79
29	ASTM A570, Grade 50	\$0.78
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	\$0.93
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.

## 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.

\*\*\* END OF DOCUMENT \*\*\*

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DOCUMENT 00859

**CONTRACTOR/SUBCONTRACTOR CERTIFICATION FORM ‡***The contractor shall submit this completed document 00859 to MassDOT for each subcontract.*\_\_\_\_\_  
(Contractor) Date: \_\_\_\_\_\_\_\_\_\_  
(Subcontractor) ☐ District Approved SubcontractorContract No: 131469 Project No. 613779 Federal Aid No.: NFALocation: DISTRICT 4Project Description: Scheduled and Emergency Deck and Joint Repairs at Various Locations

**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.

\*\*\* END OF DOCUMENT \*\*\*

DOCUMENT 00861

# STATE PREVAILING WAGE RATES

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

MAURA 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>	MELROSE
<b>Contract Number:</b>	131469		
<b>Description of Work:</b>	DISTRICT 4 – Scheduled and Emergency Deck and Joint Repairs at Various Locations		
<b>Job Location:</b>	District-wide		

**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	\$42.05	\$14.91	\$20.17	\$0.00	\$0.00	\$77.13
TEAMSTERS JOINT COUNCIL NO. 10	8/1/2025	\$42.05	\$15.41	\$20.17	\$0.00	\$0.00	\$77.63
TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	12/1/2025	\$42.05	\$15.41	\$21.78	\$0.00	\$0.00	\$79.24
	6/1/2026	\$43.05	\$15.41	\$21.78	\$0.00	\$0.00	\$80.24
	8/1/2026	\$43.05	\$15.91	\$21.78	\$0.00	\$0.00	\$80.74
	12/1/2026	\$43.05	\$15.91	\$23.52	\$0.00	\$0.00	\$82.48
(3 AXLE) DRIVER - EQUIPMENT	6/1/2025	\$41.12	\$14.91	\$20.17	\$0.00	\$0.00	\$76.20
TEAMSTERS JOINT COUNCIL NO. 10	8/1/2025	\$41.12	\$15.41	\$20.17	\$0.00	\$0.00	\$76.70
TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	12/1/2025	\$41.12	\$15.41	\$21.78	\$0.00	\$0.00	\$78.31
	6/1/2026	\$43.12	\$15.41	\$21.78	\$0.00	\$0.00	\$80.31
	8/1/2026	\$43.12	\$15.91	\$21.78	\$0.00	\$0.00	\$80.81
	12/1/2026	\$43.12	\$15.91	\$23.52	\$0.00	\$0.00	\$82.55
(4 & 5 AXLE) DRIVER - EQUIPMENT	6/1/2025	\$42.24	\$14.91	\$20.17	\$0.00	\$0.00	\$77.32
TEAMSTERS JOINT COUNCIL NO. 10	8/1/2025	\$42.24	\$15.41	\$20.17	\$0.00	\$0.00	\$77.82
TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	12/1/2025	\$42.24	\$15.41	\$21.78	\$0.00	\$0.00	\$79.43
	6/1/2026	\$43.24	\$15.41	\$21.78	\$0.00	\$0.00	\$80.43
	8/1/2026	\$43.24	\$15.91	\$21.78	\$0.00	\$0.00	\$80.93
	12/1/2026	\$43.24	\$15.91	\$23.52	\$0.00	\$0.00	\$82.67
ADS/SUBMERSIBLE PILOT	1/1/2024	\$117.16	\$10.08	\$11.62	\$12.67	\$0.00	\$151.53
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 1)							
For apprentice rates see "Apprentice- PILE DRIVER"							
AIR TRACK OPERATOR	6/1/2025	\$48.35	\$9.90	\$9.25	\$9.65	\$0.00	\$77.15
LABORERS	12/1/2025	\$49.85	\$9.90	\$9.25	\$9.65	\$0.00	\$78.65
LABORERS - ZONE 1	6/1/2026	\$50.65	\$9.90	\$9.25	\$9.65	\$0.00	\$79.45
	12/1/2026	\$52.90	\$9.90	\$9.25	\$9.65	\$0.00	\$81.70
	6/1/2027	\$54.50	\$9.90	\$9.25	\$9.65	\$0.00	\$83.30
	12/1/2027	\$56.10	\$9.90	\$9.25	\$9.65	\$0.00	\$84.90
	6/1/2028	\$57.78	\$9.90	\$9.25	\$9.65	\$0.00	\$86.58
	12/1/2028	\$59.45	\$9.90	\$9.25	\$9.65	\$0.00	\$88.25
For apprentice rates see "Apprentice- LABORER"							
AIR TRACK OPERATOR (HEAVY & HIGHWAY)	6/1/2025	\$48.45	\$9.90	\$9.25	\$9.65	\$0.00	\$77.25
LABORERS	12/1/2025	\$49.95	\$9.90	\$9.25	\$9.65	\$0.00	\$78.75
LABORERS - ZONE 1 (HEAVY & HIGHWAY)	6/1/2026	\$51.50	\$9.90	\$9.25	\$9.65	\$0.00	\$80.30
	12/1/2026	\$53.00	\$9.90	\$9.25	\$9.65	\$0.00	\$81.80
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
ASBESTOS REMOVER - PIPE / MECH. EQUIPT.	6/1/2025	\$43.80	\$14.50	\$4.30	\$6.75	\$0.00	\$69.35
HEAT & FROST INSULATORS LOCAL 6	12/1/2025	\$44.80	\$14.50	\$4.30	\$6.75	\$0.00	\$70.35
HEAT & FROST INSULATORS LOCAL 6 (BOSTON)							
ASPHALT RAKER	6/1/2025	\$47.85	\$9.90	\$9.25	\$9.65	\$0.00	\$76.65
LABORERS	12/1/2025	\$49.35	\$9.90	\$9.25	\$9.65	\$0.00	\$78.15
LABORERS - ZONE 1	6/1/2026	\$50.90	\$9.90	\$9.25	\$9.65	\$0.00	\$79.70
	12/1/2026	\$52.40	\$9.90	\$9.25	\$9.65	\$0.00	\$81.20

**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>
	6/1/2027	\$54.00	\$9.90	\$9.25	\$9.65	\$0.00	\$82.80
	12/1/2027	\$55.60	\$9.90	\$9.25	\$9.65	\$0.00	\$84.40
	6/1/2028	\$57.28	\$9.90	\$9.25	\$9.65	\$0.00	\$86.08
	12/1/2028	\$58.95	\$9.90	\$9.25	\$9.65	\$0.00	\$87.75
For apprentice rates see "Apprentice- LABORER"							
ASPHALT RAKER (HEAVY & HIGHWAY)	6/1/2025	\$47.95	\$9.90	\$9.25	\$9.65	\$0.00	\$76.75
LABORERS	12/1/2025	\$49.45	\$9.90	\$9.25	\$9.65	\$0.00	\$78.25
LABORERS - ZONE 1 (HEAVY & HIGHWAY)	6/1/2026	\$51.00	\$9.90	\$9.25	\$9.65	\$0.00	\$79.80
	12/1/2026	\$52.50	\$9.90	\$9.25	\$9.65	\$0.00	\$81.30
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
ASPHALT/CONCRETE/CRUSHER PLANT-ON SITE	6/1/2025	\$58.33	\$15.55	\$13.25	\$3.25	\$0.00	\$90.38
OPERATING ENGINEERS LOCAL 4	12/1/2025	\$59.78	\$15.55	\$13.25	\$3.25	\$0.00	\$91.83
OPERATING ENGINEERS LOCAL 4	6/1/2026	\$61.08	\$15.55	\$13.25	\$3.25	\$0.00	\$93.13
	12/1/2026	\$62.53	\$15.55	\$13.25	\$3.25	\$0.00	\$94.58
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
BACKHOE/FRONT-END LOADER	6/1/2025	\$58.33	\$15.55	\$13.25	\$3.25	\$0.00	\$90.38
OPERATING ENGINEERS LOCAL 4	12/1/2025	\$59.78	\$15.55	\$13.25	\$3.25	\$0.00	\$91.83
OPERATING ENGINEERS LOCAL 4	6/1/2026	\$61.08	\$15.55	\$13.25	\$3.25	\$0.00	\$93.13
	12/1/2026	\$62.53	\$15.55	\$13.25	\$3.25	\$0.00	\$94.58
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
BARCO-TYPE JUMPING TAMPER	6/1/2025	\$47.85	\$9.90	\$9.25	\$9.65	\$0.00	\$76.65
LABORERS	12/1/2025	\$49.35	\$9.90	\$9.25	\$9.65	\$0.00	\$78.15
LABORERS - ZONE 1	6/1/2026	\$50.90	\$9.90	\$9.25	\$9.65	\$0.00	\$79.70
	12/1/2026	\$52.40	\$9.90	\$9.25	\$9.65	\$0.00	\$81.20
	6/1/2027	\$54.00	\$9.90	\$9.25	\$9.65	\$0.00	\$82.80
	12/1/2027	\$55.60	\$9.90	\$9.25	\$9.65	\$0.00	\$84.40
	6/1/2028	\$57.28	\$9.90	\$9.25	\$9.65	\$0.00	\$86.08
	12/1/2028	\$58.95	\$9.90	\$9.25	\$9.65	\$0.00	\$87.75
For apprentice rates see "Apprentice- LABORER"							
BLOCK PAVER, RAMMER / CURB SETTER	6/1/2025	\$48.35	\$9.90	\$9.25	\$9.65	\$0.00	\$77.15
LABORERS	12/1/2025	\$49.85	\$9.90	\$9.25	\$9.65	\$0.00	\$78.65
LABORERS - ZONE 1	6/1/2026	\$50.65	\$9.90	\$9.25	\$9.65	\$0.00	\$79.45
	12/1/2026	\$52.90	\$9.90	\$9.25	\$9.65	\$0.00	\$81.70
	6/1/2027	\$54.50	\$9.90	\$9.25	\$9.65	\$0.00	\$83.30
	12/1/2027	\$56.10	\$9.90	\$9.25	\$9.65	\$0.00	\$84.90
	6/1/2028	\$57.78	\$9.90	\$9.25	\$9.65	\$0.00	\$86.58
	12/1/2028	\$59.45	\$9.90	\$9.25	\$9.65	\$0.00	\$88.25
For apprentice rates see "Apprentice- LABORER"							
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY)	6/1/2025	\$48.45	\$9.90	\$9.25	\$9.65	\$0.00	\$77.25
LABORERS	12/1/2025	\$49.95	\$9.90	\$9.25	\$9.65	\$0.00	\$78.75
LABORERS - ZONE 1 (HEAVY & HIGHWAY)	6/1/2026	\$51.50	\$9.90	\$9.25	\$9.65	\$0.00	\$80.30
	12/1/2026	\$53.00	\$9.90	\$9.25	\$9.65	\$0.00	\$81.80
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	\$65.80	\$11.49	\$15.57	\$8.02	\$0.00	\$100.88
BRICKLAYERS LOCAL 3	8/1/2025	\$67.95	\$11.49	\$15.57	\$8.02	\$0.00	\$103.03
BRICKLAYERS LOCAL 3 (BOSTON)	2/1/2026	\$69.30	\$11.49	\$15.57	\$8.02	\$0.00	\$104.38
	8/1/2026	\$71.50	\$11.49	\$15.57	\$8.02	\$0.00	\$106.58
	2/1/2027	\$72.90	\$11.49	\$15.57	\$8.02	\$0.00	\$107.98

**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	\$32.90	\$11.49	\$15.57	\$8.02	\$0.00	\$67.98
2	60.00	\$39.48	\$11.49	\$15.57	\$8.02	\$0.00	\$74.56
3	70.00	\$46.06	\$11.49	\$15.57	\$8.02	\$0.00	\$81.14
4	80.00	\$52.64	\$11.49	\$15.57	\$8.02	\$0.00	\$87.72
5	90.00	\$59.22	\$11.49	\$15.57	\$8.02	\$0.00	\$94.30

**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	\$33.98	\$11.49	\$15.57	\$8.02	\$0.00	\$69.06
2	60.00	\$40.77	\$11.49	\$15.57	\$8.02	\$0.00	\$75.85
3	70.00	\$47.57	\$11.49	\$15.57	\$8.02	\$0.00	\$82.65
4	80.00	\$54.36	\$11.49	\$15.57	\$8.02	\$0.00	\$89.44
5	90.00	\$61.16	\$11.49	\$15.57	\$8.02	\$0.00	\$96.24

BULLDOZER/GRADER/SCRAPER	6/1/2025	\$57.68	\$15.55	\$13.25	\$3.25	\$0.00	\$89.73
OPERATING ENGINEERS LOCAL 4	12/1/2025	\$59.12	\$15.55	\$13.25	\$3.25	\$0.00	\$91.17
OPERATING ENGINEERS LOCAL 4	6/1/2026	\$60.40	\$15.55	\$13.25	\$3.25	\$0.00	\$92.45

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	12/1/2026	\$61.84	\$15.55	\$13.25	\$3.25	\$0.00	\$93.89
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	6/1/2025	\$47.85	\$9.90	\$9.25	\$9.65	\$0.00	\$76.65
LABORERS	12/1/2025	\$49.35	\$9.90	\$9.25	\$9.65	\$0.00	\$78.15
LABORERS - ZONE 1	6/1/2026	\$50.90	\$9.90	\$9.25	\$9.65	\$0.00	\$79.70
	12/1/2026	\$52.40	\$9.90	\$9.25	\$9.65	\$0.00	\$81.20
	6/1/2027	\$54.00	\$9.90	\$9.25	\$9.65	\$0.00	\$82.80
	12/1/2027	\$55.60	\$9.90	\$9.25	\$9.65	\$0.00	\$84.40
	6/1/2028	\$57.28	\$9.90	\$9.25	\$9.65	\$0.00	\$86.08
	12/1/2028	\$58.95	\$9.90	\$9.25	\$9.65	\$0.00	\$87.75
For apprentice rates see "Apprentice- LABORER"							
CARPENTER	3/1/2025	\$49.62	\$9.83	\$11.47	\$8.50	\$0.00	\$79.42
CARPENTERS	9/1/2025	\$50.87	\$9.83	\$11.47	\$8.50	\$0.00	\$80.67
CARPENTERS -ZONE 2 (Eastern Massachusetts)	3/1/2026	\$52.12	\$9.83	\$11.47	\$8.50	\$0.00	\$81.92
	9/1/2026	\$53.37	\$9.83	\$11.47	\$8.50	\$0.00	\$83.17
	3/1/2027	\$54.62	\$9.83	\$11.47	\$8.50	\$0.00	\$84.42

Apprentice: CARPENTER							
Effective Date: 3/1/2025							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$22.33	\$9.83	\$0.00	\$1.73	\$0.00	\$33.89
2	45.00	\$22.33	\$9.83	\$0.00	\$1.73	\$0.00	\$33.89
3	55.00	\$27.29	\$9.83	\$0.00	\$3.40	\$0.00	\$40.52
4	55.00	\$27.29	\$9.83	\$0.00	\$3.40	\$0.00	\$40.52
5	70.00	\$34.73	\$9.83	\$11.41	\$5.10	\$0.00	\$61.07
6	70.00	\$34.73	\$9.83	\$11.41	\$5.10	\$0.00	\$61.07
7	80.00	\$39.70	\$9.83	\$11.44	\$6.80	\$0.00	\$67.77
8	80.00	\$39.70	\$9.83	\$11.44	\$6.80	\$0.00	\$67.77

## 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	\$22.89	\$9.83	\$0.00	\$1.73	\$0.00	\$34.45
2	45.00	\$22.89	\$9.83	\$0.00	\$1.73	\$0.00	\$34.45
3	55.00	\$27.98	\$9.83	\$0.00	\$3.40	\$0.00	\$41.21
4	55.00	\$27.98	\$9.83	\$0.00	\$3.40	\$0.00	\$41.21
5	70.00	\$35.61	\$9.83	\$11.41	\$5.10	\$0.00	\$61.95
6	70.00	\$35.61	\$9.83	\$11.41	\$5.10	\$0.00	\$61.95
7	80.00	\$40.70	\$9.83	\$11.44	\$6.80	\$0.00	\$68.77
8	80.00	\$40.70	\$9.83	\$11.44	\$6.80	\$0.00	\$68.77
<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	\$49.19	\$13.35	\$16.43	\$7.78	\$1.80	\$88.55
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**Construction**

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

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

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$24.60	\$13.35	\$16.43	\$0.00	\$0.00	\$54.38
2	60.00	\$29.51	\$13.35	\$16.43	\$2.78	\$1.80	\$63.87
3	65.00	\$31.97	\$13.35	\$16.43	\$3.78	\$1.80	\$67.33
4	70.00	\$34.43	\$13.35	\$16.43	\$4.78	\$1.80	\$70.79
5	75.00	\$36.89	\$13.35	\$16.43	\$5.78	\$1.80	\$74.25
6	80.00	\$39.35	\$13.35	\$16.43	\$6.78	\$1.80	\$77.71
7	90.00	\$44.27	\$13.35	\$16.43	\$7.78	\$1.80	\$83.63

CHAIN SAW OPERATOR	6/1/2025	\$47.85	\$9.90	\$9.25	\$9.65	\$0.00	\$76.65
LABORERS	12/1/2025	\$49.35	\$9.90	\$9.25	\$9.65	\$0.00	\$78.15
LABORERS - ZONE 1	6/1/2026	\$50.90	\$9.90	\$9.25	\$9.65	\$0.00	\$79.70
	12/1/2026	\$52.40	\$9.90	\$9.25	\$9.65	\$0.00	\$81.20
	6/1/2027	\$54.00	\$9.90	\$9.25	\$9.65	\$0.00	\$82.80
	12/1/2027	\$55.60	\$9.90	\$9.25	\$9.65	\$0.00	\$84.40
	6/1/2028	\$57.28	\$9.90	\$9.25	\$9.65	\$0.00	\$86.08
	12/1/2028	\$58.95	\$9.90	\$9.25	\$9.65	\$0.00	\$87.75

For apprentice rates see "Apprentice- LABORER"

CLAM SHELLS/SLURRY BUCKETS/HEADING MACHINES	6/1/2025	\$59.51	\$15.55	\$13.25	\$3.25	\$0.00	\$91.56
OPERATING ENGINEERS LOCAL 4	12/1/2025	\$60.98	\$15.55	\$13.25	\$3.25	\$0.00	\$93.03
OPERATING ENGINEERS LOCAL 4	6/1/2026	\$62.31	\$15.55	\$13.25	\$3.25	\$0.00	\$94.36
	12/1/2026	\$63.79	\$15.55	\$13.25	\$3.25	\$0.00	\$95.84

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

COMPRESSOR OPERATOR	6/1/2025	\$37.52	\$15.55	\$13.25	\$3.25	\$0.00	\$69.57
OPERATING ENGINEERS LOCAL 4	12/1/2025	\$38.47	\$15.55	\$13.25	\$3.25	\$0.00	\$70.52
OPERATING ENGINEERS LOCAL 4	6/1/2026	\$39.33	\$15.55	\$13.25	\$3.25	\$0.00	\$71.38
	12/1/2026	\$40.28	\$15.55	\$13.25	\$3.25	\$0.00	\$72.33

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 2							

**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

**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>4</td><td>65.00</td><td>\$38.00</td><td>\$9.95</td><td>\$0.00</td><td>\$7.87</td><td>\$0.00</td><td>\$55.82</td></tr><tr><td>5</td><td>70.00</td><td>\$40.92</td><td>\$9.95</td><td>\$11.85</td><td>\$8.47</td><td>\$0.00</td><td>\$71.19</td></tr><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	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
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate																																																
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																																																
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 1	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 1	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	\$48.50	\$9.90	\$9.25	\$9.65	\$0.00	\$77.30																																																
LABORERS	12/1/2025	\$50.00	\$9.90	\$9.25	\$9.65	\$0.00	\$78.80																																																
LABORERS - ZONE 1	6/1/2026	\$51.55	\$9.90	\$9.25	\$9.65	\$0.00	\$80.35																																																
	12/7/2026	\$53.05	\$9.90	\$9.25	\$9.65	\$0.00	\$81.85																																																
	6/7/2027	\$54.65	\$9.90	\$9.25	\$9.65	\$0.00	\$83.45																																																
	12/6/2027	\$56.25	\$9.90	\$9.25	\$9.65	\$0.00	\$85.05																																																
	6/5/2028	\$57.93	\$9.90	\$9.25	\$9.65	\$0.00	\$86.73																																																
	12/4/2028	\$59.60	\$9.90	\$9.25	\$9.65	\$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 1	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"																																																							

**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>
DEMO: JACKHAMMER OPERATOR LABORERS	6/2/2025	\$48.50	\$9.90	\$9.25	\$9.65	\$0.00	\$77.30
LABORERS - ZONE 1	12/1/2025	\$50.00	\$9.90	\$9.25	\$9.65	\$0.00	\$78.80
	6/1/2026	\$51.55	\$9.90	\$9.25	\$9.65	\$0.00	\$80.35
	12/7/2026	\$53.05	\$9.90	\$9.25	\$9.65	\$0.00	\$81.85
	6/7/2027	\$54.65	\$9.90	\$9.25	\$9.65	\$0.00	\$83.45
	12/6/2027	\$56.25	\$9.90	\$9.25	\$9.65	\$0.00	\$85.05
	6/5/2028	\$57.93	\$9.90	\$9.25	\$9.65	\$0.00	\$86.73
	12/4/2028	\$59.60	\$9.90	\$9.25	\$9.65	\$0.00	\$88.40

For apprentice rates see "Apprentice- LABORER"

DEMO: WRECKING LABORER LABORERS	6/2/2025	\$47.75	\$9.90	\$9.25	\$9.65	\$0.00	\$76.55
LABORERS - ZONE 1	12/1/2025	\$49.25	\$9.90	\$9.25	\$9.65	\$0.00	\$78.05
	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"

DIRECTIONAL DRILL MACHINE OPERATOR OPERATING ENGINEERS LOCAL 4	6/1/2025	\$57.68	\$15.55	\$13.25	\$3.25	\$0.00	\$89.73
OPERATING ENGINEERS LOCAL 4	12/1/2025	\$59.12	\$15.55	\$13.25	\$3.25	\$0.00	\$91.17
	6/1/2026	\$60.40	\$15.55	\$13.25	\$3.25	\$0.00	\$92.45
	12/1/2026	\$61.84	\$15.55	\$13.25	\$3.25	\$0.00	\$93.89

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

DIVER PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 1)	8/1/2024	\$78.11	\$10.08	\$11.62	\$10.04	\$0.00	\$109.85
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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 PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 1)	8/1/2024	\$55.79	\$10.08	\$11.62	\$12.67	\$0.00	\$90.16
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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) PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 1)	8/1/2024	\$83.69	\$10.08	\$11.62	\$12.67	\$0.00	\$118.06
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For apprentice rates see "Apprentice- PILE DRIVER"

DIVER/SLURRY (EFFLUENT) PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 1)	8/1/2024	\$117.16	\$10.08	\$11.62	\$12.67	\$0.00	\$151.53
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For apprentice rates see "Apprentice- PILE DRIVER"

DRAWBRIDGE OPERATOR (Construction) DRAWBRIDGE - SEIU LOCAL 888 DRAWBRIDGE - SEIU LOCAL 888	7/1/2020	\$26.77	\$6.67	\$3.93	\$0.00	\$0.16	\$37.53
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ELECTRICIAN ELECTRICIANS LOCAL 103	3/1/2025	\$64.26	\$13.00	\$14.31	\$8.72	\$0.00	\$100.29
	9/1/2025	\$66.17	\$13.00	\$14.37	\$8.72	\$0.00	\$102.26

**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>
ELECTRICIANS LOCAL 103	3/1/2026	\$67.37	\$13.00	\$14.40	\$8.72	\$0.00	\$103.49
	9/1/2026	\$69.28	\$13.00	\$14.46	\$8.72	\$0.00	\$105.46
	3/1/2027	\$70.47	\$13.00	\$14.49	\$8.72	\$0.00	\$106.68
	9/1/2027	\$72.39	\$13.00	\$14.55	\$8.72	\$0.00	\$108.66
	3/1/2028	\$73.59	\$13.00	\$14.59	\$8.72	\$0.00	\$109.90

**Apprentice: ELECTRICIAN****Effective Date: 3/1/2025**

<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	40.00	\$25.70	\$13.00	\$0.77	\$0.00	\$0.00	\$39.47
2	40.00	\$25.70	\$13.00	\$0.77	\$0.00	\$0.00	\$39.47
3	45.00	\$28.92	\$13.00	\$13.25	\$3.92	\$0.00	\$59.09
4	45.00	\$28.92	\$13.00	\$13.25	\$3.92	\$0.00	\$59.09
5	50.00	\$32.13	\$13.00	\$13.34	\$4.36	\$0.00	\$62.83
6	55.00	\$35.34	\$13.00	\$13.44	\$4.80	\$0.00	\$66.58
7	60.00	\$38.56	\$13.00	\$13.54	\$5.23	\$0.00	\$70.33
8	65.00	\$41.77	\$13.00	\$13.63	\$5.67	\$0.00	\$74.07
9	70.00	\$44.98	\$13.00	\$13.73	\$6.10	\$0.00	\$77.81
10	75.00	\$48.20	\$13.00	\$13.83	\$6.54	\$0.00	\$81.57

**Apprentice: ELECTRICIAN****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	40.00	\$26.47	\$13.00	\$0.79	\$0.00	\$0.00	\$40.26
2	40.00	\$26.47	\$13.00	\$0.79	\$0.00	\$0.00	\$40.26
3	45.00	\$29.78	\$13.00	\$13.27	\$3.92	\$0.00	\$59.97
4	45.00	\$29.78	\$13.00	\$13.27	\$3.92	\$0.00	\$59.97
5	50.00	\$33.09	\$13.00	\$13.37	\$4.36	\$0.00	\$63.82
6	55.00	\$36.39	\$13.00	\$13.47	\$4.80	\$0.00	\$67.66
7	60.00	\$39.70	\$13.00	\$13.57	\$5.23	\$0.00	\$71.50
8	65.00	\$43.01	\$13.00	\$13.67	\$5.67	\$0.00	\$75.35
9	70.00	\$46.32	\$13.00	\$13.77	\$6.10	\$0.00	\$79.19
10	75.00	\$49.63	\$13.00	\$13.87	\$6.54	\$0.00	\$83.04

ELEVATOR CONSTRUCTOR	1/1/2022	\$65.62	\$16.03	\$10.71	\$9.50	\$0.00	\$101.86
ELEVATOR CONSTRUCTORS LOCAL 4							
ELEVATOR CONSTRUCTORS LOCAL 4							

**Apprentice: ELEVATOR CONSTRUCTOR****Effective Date: 1/1/2022**

<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	\$32.81	\$16.03	\$0.00	\$0.00	\$0.00	\$48.84
2	55.00	\$36.09	\$16.03	\$10.71	\$9.50	\$0.00	\$72.33

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
<b>Apprentice: ELEVATOR CONSTRUCTOR</b> <b>Effective Date: 1/1/2022</b>							
	<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment Total Rate</b>
	3	65.00	\$42.65	\$16.03	\$10.71	\$9.50	\$0.00 \$78.89
	4	70.00	\$45.93	\$16.03	\$10.71	\$9.50	\$0.00 \$82.17
	5	80.00	\$52.50	\$16.03	\$10.71	\$9.50	\$0.00 \$88.74
ELEVATOR CONSTRUCTOR HELPER	1/1/2022	\$45.93	\$16.03	\$10.71	\$9.50	\$0.00	\$82.17
ELEVATOR CONSTRUCTORS LOCAL 4							
ELEVATOR CONSTRUCTORS LOCAL 4							
For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"							
FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY)	6/1/2025	\$47.95	\$9.90	\$9.25	\$9.65	\$0.00	\$76.75
LABORERS	12/1/2025	\$49.45	\$9.90	\$9.25	\$9.65	\$0.00	\$78.25
LABORERS - ZONE 1 (HEAVY & HIGHWAY)	6/1/2026	\$51.00	\$9.90	\$9.25	\$9.65	\$0.00	\$79.80
	12/1/2026	\$52.50	\$9.90	\$9.25	\$9.65	\$0.00	\$81.30
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
FIELD ENG.INST.PERSON-BLDG,SITE,HVY/HWY	5/1/2025	\$53.22	\$15.30	\$13.15	\$3.25	\$0.00	\$84.92
OPERATING ENGINEERS LOCAL 4	11/1/2025	\$54.51	\$15.30	\$13.15	\$3.25	\$0.00	\$86.21
OPERATING ENGINEERS LOCAL 4	5/1/2026	\$55.95	\$15.30	\$13.15	\$3.25	\$0.00	\$87.65
	11/1/2026	\$57.24	\$15.30	\$13.15	\$3.25	\$0.00	\$88.94
	5/1/2027	\$58.67	\$15.30	\$13.15	\$3.25	\$0.00	\$90.37
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
FIELD ENG.PARTY CHIEF-BLDG,SITE,HVY/HWY	5/1/2025	\$54.82	\$15.30	\$13.15	\$3.25	\$0.00	\$86.52
OPERATING ENGINEERS LOCAL 4	11/1/2025	\$56.12	\$15.30	\$13.15	\$3.25	\$0.00	\$87.82
OPERATING ENGINEERS LOCAL 4	5/1/2026	\$57.57	\$15.30	\$13.15	\$3.25	\$0.00	\$89.27
	11/1/2026	\$58.87	\$15.30	\$13.15	\$3.25	\$0.00	\$90.57
	5/1/2027	\$60.32	\$15.30	\$13.15	\$3.25	\$0.00	\$92.02
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
FIELD ENG.ROD PERSON-BLDG,SITE,HVY/HWY	5/1/2025	\$26.22	\$15.30	\$13.15	\$3.25	\$0.00	\$57.92
OPERATING ENGINEERS LOCAL 4	11/1/2025	\$26.98	\$15.30	\$13.15	\$3.25	\$0.00	\$58.68
OPERATING ENGINEERS LOCAL 4	5/1/2026	\$27.83	\$15.30	\$13.15	\$3.25	\$0.00	\$59.53
	11/1/2026	\$28.59	\$15.30	\$13.15	\$3.25	\$0.00	\$60.29
	5/1/2027	\$29.44	\$15.30	\$13.15	\$3.25	\$0.00	\$61.14
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
FIRE ALARM INSTALLER	3/1/2025	\$64.26	\$13.00	\$14.31	\$8.72	\$0.00	\$100.29
ELECTRICIANS LOCAL 103	9/1/2025	\$66.17	\$13.00	\$14.37	\$8.72	\$0.00	\$102.26
ELECTRICIANS LOCAL 103	3/1/2026	\$67.37	\$13.00	\$14.40	\$8.72	\$0.00	\$103.49
	9/1/2026	\$69.28	\$13.00	\$14.46	\$8.72	\$0.00	\$105.46
	3/1/2027	\$70.47	\$13.00	\$14.49	\$8.72	\$0.00	\$106.68
	9/1/2027	\$72.39	\$13.00	\$14.55	\$8.72	\$0.00	\$108.66
	3/1/2028	\$73.59	\$13.00	\$14.59	\$8.72	\$0.00	\$109.90
For apprentice rates see "Apprentice- ELECTRICIAN"							

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
FIRE ALARM REPAIR / MAINTENANCE	3/1/2025	\$51.41	\$13.00	\$13.92	\$6.98	\$0.00	\$85.31
/ COMMISSIONING	9/1/2025	\$52.94	\$13.00	\$13.97	\$6.98	\$0.00	\$86.89
ELECTRICIANS LOCAL 103	3/1/2026	\$53.90	\$13.00	\$14.00	\$6.98	\$0.00	\$87.88
ELECTRICIANS LOCAL 103	9/1/2026	\$55.42	\$13.00	\$14.04	\$6.98	\$0.00	\$89.44
	3/1/2027	\$56.38	\$13.00	\$14.07	\$6.98	\$0.00	\$90.43
	9/1/2027	\$57.91	\$13.00	\$14.12	\$6.98	\$0.00	\$92.01
	3/1/2028	\$58.87	\$13.00	\$14.15	\$6.98	\$0.00	\$93.00

For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"

FIREMAN (ASST. ENGINEER)	6/1/2025	\$47.02	\$15.55	\$13.25	\$3.25	\$0.00	\$79.07
OPERATING ENGINEERS LOCAL 4	12/1/2025	\$48.19	\$15.55	\$13.25	\$3.25	\$0.00	\$80.24
OPERATING ENGINEERS LOCAL 4	6/1/2026	\$49.25	\$15.55	\$13.25	\$3.25	\$0.00	\$81.30
	12/1/2026	\$50.43	\$15.55	\$13.25	\$3.25	\$0.00	\$82.48

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

FLAGGER & SIGNALER (HEAVY & HIGHWAY)	6/1/2025	\$28.09	\$9.90	\$9.25	\$9.65	\$0.00	\$56.89
LABORERS	12/1/2025	\$28.09	\$9.90	\$9.25	\$9.65	\$0.00	\$56.89
LABORERS - ZONE 1 (HEAVY & HIGHWAY)	6/1/2026	\$29.21	\$9.90	\$9.25	\$9.65	\$0.00	\$58.01
	12/1/2026	\$29.21	\$9.90	\$9.25	\$9.65	\$0.00	\$58.01

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

FLOORCOVERER	3/1/2025	\$57.73	\$8.83	\$11.47	\$8.80	\$0.00	\$86.83
FLOORCOVERERS LOCAL 2168	9/1/2025	\$59.23	\$8.83	\$11.47	\$8.80	\$0.00	\$88.33
FLOORCOVERERS LOCAL 2168 ZONE I	3/1/2026	\$60.73	\$8.83	\$11.47	\$8.80	\$0.00	\$89.83
	9/1/2026	\$62.23	\$8.83	\$11.47	\$8.80	\$0.00	\$91.33
	3/1/2027	\$63.73	\$8.83	\$11.47	\$8.80	\$0.00	\$92.83

**Apprentice: FLOORCOVERER**

**Effective Date: 3/1/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$25.98	\$8.83	\$0.00	\$1.76	\$0.00	\$36.57
2	45.00	\$25.98	\$8.83	\$0.00	\$1.76	\$0.00	\$36.57
3	55.00	\$31.75	\$8.83	\$0.00	\$3.52	\$0.00	\$44.10
4	55.00	\$31.75	\$8.83	\$0.00	\$3.52	\$0.00	\$44.10
5	70.00	\$40.41	\$8.83	\$11.47	\$5.28	\$0.00	\$65.99
6	70.00	\$40.41	\$8.83	\$11.47	\$5.28	\$0.00	\$65.99
7	80.00	\$46.18	\$8.83	\$11.47	\$7.04	\$0.00	\$73.52
8	80.00	\$46.18	\$8.83	\$11.47	\$7.04	\$0.00	\$73.52

**Apprentice: FLOORCOVERER**

**Effective Date: 9/1/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	\$26.65	\$8.83	\$0.00	\$1.76	\$0.00	\$37.24
2	45.00	\$26.65	\$8.83	\$0.00	\$1.76	\$0.00	\$37.24
3	55.00	\$32.58	\$8.83	\$0.00	\$3.52	\$0.00	\$44.93

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate																																																																								
<div>Apprentice: FLOORCOVERER</div> <div>Effective Date: 9/1/2025</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>4</td><td>55.00</td><td>\$32.58</td><td>\$8.83</td><td>\$0.00</td><td>\$3.52</td><td>\$0.00</td><td>\$44.93</td></tr><tr><td>5</td><td>70.00</td><td>\$41.46</td><td>\$8.83</td><td>\$11.47</td><td>\$5.28</td><td>\$0.00</td><td>\$67.04</td></tr><tr><td>6</td><td>70.00</td><td>\$41.46</td><td>\$8.83</td><td>\$11.47</td><td>\$5.28</td><td>\$0.00</td><td>\$67.04</td></tr><tr><td>7</td><td>80.00</td><td>\$47.38</td><td>\$8.83</td><td>\$11.47</td><td>\$7.04</td><td>\$0.00</td><td>\$74.72</td></tr><tr><td>8</td><td>80.00</td><td>\$47.38</td><td>\$8.83</td><td>\$11.47</td><td>\$7.04</td><td>\$0.00</td><td>\$74.72</td></tr></tbody></table>								Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate	4	55.00	\$32.58	\$8.83	\$0.00	\$3.52	\$0.00	\$44.93	5	70.00	\$41.46	\$8.83	\$11.47	\$5.28	\$0.00	\$67.04	6	70.00	\$41.46	\$8.83	\$11.47	\$5.28	\$0.00	\$67.04	7	80.00	\$47.38	\$8.83	\$11.47	\$7.04	\$0.00	\$74.72	8	80.00	\$47.38	\$8.83	\$11.47	\$7.04	\$0.00	\$74.72																								
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate																																																																								
4	55.00	\$32.58	\$8.83	\$0.00	\$3.52	\$0.00	\$44.93																																																																								
5	70.00	\$41.46	\$8.83	\$11.47	\$5.28	\$0.00	\$67.04																																																																								
6	70.00	\$41.46	\$8.83	\$11.47	\$5.28	\$0.00	\$67.04																																																																								
7	80.00	\$47.38	\$8.83	\$11.47	\$7.04	\$0.00	\$74.72																																																																								
8	80.00	\$47.38	\$8.83	\$11.47	\$7.04	\$0.00	\$74.72																																																																								
FORK LIFT/CHERRY PICKER	6/1/2025	\$58.33	\$15.55	\$13.25	\$3.25	\$0.00	\$90.38																																																																								
OPERATING ENGINEERS LOCAL 4	12/1/2025	\$59.78	\$15.55	\$13.25	\$3.25	\$0.00	\$91.83																																																																								
OPERATING ENGINEERS LOCAL 4	6/1/2026	\$61.08	\$15.55	\$13.25	\$3.25	\$0.00	\$93.13																																																																								
	12/1/2026	\$62.53	\$15.55	\$13.25	\$3.25	\$0.00	\$94.58																																																																								
For apprentice rates see "Apprentice- OPERATING ENGINEERS"																																																																															
GENERATOR/LIGHTING PLANT/HEATERS	6/1/2025	\$37.52	\$15.55	\$13.25	\$3.25	\$0.00	\$69.57																																																																								
OPERATING ENGINEERS LOCAL 4	12/1/2025	\$38.47	\$15.55	\$13.25	\$3.25	\$0.00	\$70.52																																																																								
OPERATING ENGINEERS LOCAL 4	6/1/2026	\$39.33	\$15.55	\$13.25	\$3.25	\$0.00	\$71.38																																																																								
	12/1/2026	\$40.28	\$15.55	\$13.25	\$3.25	\$0.00	\$72.33																																																																								
For apprentice rates see "Apprentice- OPERATING ENGINEERS"																																																																															
GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)	1/1/2025	\$47.96	\$9.95	\$11.85	\$12.10	\$0.00	\$81.86																																																																								
GLAZIERS LOCAL 35																																																																															
GLAZIERS LOCAL 35 (ZONE 2)																																																																															
<div>Apprentice: GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)</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>1</td><td>50.00</td><td>\$23.98</td><td>\$9.95</td><td>\$0.00</td><td>\$0.00</td><td>\$0.00</td><td>\$33.93</td></tr><tr><td>2</td><td>55.00</td><td>\$26.38</td><td>\$9.95</td><td>\$0.00</td><td>\$6.66</td><td>\$0.00</td><td>\$42.99</td></tr><tr><td>3</td><td>60.00</td><td>\$28.78</td><td>\$9.95</td><td>\$0.00</td><td>\$7.26</td><td>\$0.00</td><td>\$45.99</td></tr><tr><td>4</td><td>65.00</td><td>\$31.17</td><td>\$9.95</td><td>\$0.00</td><td>\$7.87</td><td>\$0.00</td><td>\$48.99</td></tr><tr><td>5</td><td>70.00</td><td>\$33.57</td><td>\$9.95</td><td>\$11.85</td><td>\$8.47</td><td>\$0.00</td><td>\$63.84</td></tr><tr><td>6</td><td>75.00</td><td>\$35.97</td><td>\$9.95</td><td>\$11.85</td><td>\$9.08</td><td>\$0.00</td><td>\$66.85</td></tr><tr><td>7</td><td>80.00</td><td>\$38.37</td><td>\$9.95</td><td>\$11.85</td><td>\$9.68</td><td>\$0.00</td><td>\$69.85</td></tr><tr><td>8</td><td>90.00</td><td>\$43.16</td><td>\$9.95</td><td>\$11.85</td><td>\$10.89</td><td>\$0.00</td><td>\$75.85</td></tr></tbody></table>								Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate	1	50.00	\$23.98	\$9.95	\$0.00	\$0.00	\$0.00	\$33.93	2	55.00	\$26.38	\$9.95	\$0.00	\$6.66	\$0.00	\$42.99	3	60.00	\$28.78	\$9.95	\$0.00	\$7.26	\$0.00	\$45.99	4	65.00	\$31.17	\$9.95	\$0.00	\$7.87	\$0.00	\$48.99	5	70.00	\$33.57	\$9.95	\$11.85	\$8.47	\$0.00	\$63.84	6	75.00	\$35.97	\$9.95	\$11.85	\$9.08	\$0.00	\$66.85	7	80.00	\$38.37	\$9.95	\$11.85	\$9.68	\$0.00	\$69.85	8	90.00	\$43.16	\$9.95	\$11.85	\$10.89	\$0.00	\$75.85
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate																																																																								
1	50.00	\$23.98	\$9.95	\$0.00	\$0.00	\$0.00	\$33.93																																																																								
2	55.00	\$26.38	\$9.95	\$0.00	\$6.66	\$0.00	\$42.99																																																																								
3	60.00	\$28.78	\$9.95	\$0.00	\$7.26	\$0.00	\$45.99																																																																								
4	65.00	\$31.17	\$9.95	\$0.00	\$7.87	\$0.00	\$48.99																																																																								
5	70.00	\$33.57	\$9.95	\$11.85	\$8.47	\$0.00	\$63.84																																																																								
6	75.00	\$35.97	\$9.95	\$11.85	\$9.08	\$0.00	\$66.85																																																																								
7	80.00	\$38.37	\$9.95	\$11.85	\$9.68	\$0.00	\$69.85																																																																								
8	90.00	\$43.16	\$9.95	\$11.85	\$10.89	\$0.00	\$75.85																																																																								
HOISTING ENGINEER/CRANES/GRADALLS	6/1/2025	\$58.33	\$15.55	\$13.25	\$3.25	\$0.00	\$90.38																																																																								
OPERATING ENGINEERS LOCAL 4	12/1/2025	\$59.78	\$15.55	\$13.25	\$3.25	\$0.00	\$91.83																																																																								
OPERATING ENGINEERS LOCAL 4	6/1/2026	\$61.08	\$15.55	\$13.25	\$3.25	\$0.00	\$93.13																																																																								
	12/1/2026	\$62.53	\$15.55	\$13.25	\$3.25	\$0.00	\$94.58																																																																								

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
<b>Apprentice: HOISTING ENGINEER/CRANES/GRADALLS</b> <b>Effective Date: 6/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	55.00	\$32.08	\$0.00	\$0.00	\$0.00	\$0.00	\$32.08
2	60.00	\$35.00	\$15.55	\$13.25	\$3.25	\$0.00	\$67.05
3	65.00	\$37.91	\$15.55	\$13.25	\$3.25	\$0.00	\$69.96
4	70.00	\$40.83	\$15.55	\$13.25	\$3.25	\$0.00	\$72.88
5	75.00	\$43.75	\$15.55	\$13.25	\$3.25	\$0.00	\$75.80
6	80.00	\$46.66	\$15.55	\$13.25	\$3.25	\$0.00	\$78.71
7	85.00	\$49.58	\$15.55	\$13.25	\$3.25	\$0.00	\$81.63
8	90.00	\$52.50	\$15.55	\$13.25	\$3.25	\$0.00	\$84.55
<b>Apprentice: HOISTING ENGINEER/CRANES/GRADALLS</b> <b>Effective Date: 12/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	55.00	\$32.88	\$0.00	\$0.00	\$0.00	\$0.00	\$32.88
2	60.00	\$35.87	\$15.55	\$13.25	\$3.25	\$0.00	\$67.92
3	65.00	\$38.86	\$15.55	\$13.25	\$3.25	\$0.00	\$70.91
4	70.00	\$41.85	\$15.55	\$13.25	\$3.25	\$0.00	\$73.90
5	75.00	\$44.84	\$15.55	\$13.25	\$3.25	\$0.00	\$76.89
6	80.00	\$47.82	\$15.55	\$13.25	\$3.25	\$0.00	\$79.87
7	85.00	\$50.81	\$15.55	\$13.25	\$3.25	\$0.00	\$82.86
8	90.00	\$53.80	\$15.55	\$13.25	\$3.25	\$0.00	\$85.85
HVAC (DUCTWORK)	2/1/2025	\$59.13	\$14.91	\$18.74	\$9.53	\$2.98	\$105.29
SHEETMETAL WORKERS LOCAL 17	8/1/2025	\$60.98	\$14.91	\$18.74	\$9.53	\$2.98	\$107.14
SHEETMETAL WORKERS LOCAL 17 - A	2/1/2026	\$62.93	\$14.91	\$18.74	\$9.53	\$2.98	\$109.09
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (ELECTRICAL CONTROLS)	3/1/2025	\$64.26	\$13.00	\$14.31	\$8.72	\$0.00	\$100.29
ELECTRICIANS LOCAL 103	9/1/2025	\$66.17	\$13.00	\$14.37	\$8.72	\$0.00	\$102.26
ELECTRICIANS LOCAL 103	3/1/2026	\$67.37	\$13.00	\$14.40	\$8.72	\$0.00	\$103.49
	9/1/2026	\$69.28	\$13.00	\$14.46	\$8.72	\$0.00	\$105.46
	3/1/2027	\$70.47	\$13.00	\$14.49	\$8.72	\$0.00	\$106.68
	9/1/2027	\$72.39	\$13.00	\$14.55	\$8.72	\$0.00	\$108.66
	3/1/2028	\$73.59	\$13.00	\$14.59	\$8.72	\$0.00	\$109.90
For apprentice rates see "Apprentice- ELECTRICIAN"							
HVAC (TESTING AND BALANCING - AIR)	2/1/2025	\$59.13	\$14.91	\$18.74	\$9.53	\$2.98	\$105.29
SHEETMETAL WORKERS LOCAL 17	8/1/2025	\$60.98	\$14.91	\$18.74	\$9.53	\$2.98	\$107.14
SHEETMETAL WORKERS LOCAL 17 - A	2/1/2026	\$62.93	\$14.91	\$18.74	\$9.53	\$2.98	\$109.09
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (TESTING AND BALANCING -WATER)	3/1/2025	\$68.88	\$12.70	\$13.05	\$8.75	\$0.00	\$103.38
PIPEFITTERS LOCAL 537							

**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>
PIPEFITTERS LOCAL 537							
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
HVAC MECHANIC PIPEFITTERS LOCAL 537 PIPEFITTERS LOCAL 537	3/1/2025	\$68.88	\$12.70	\$13.05	\$8.75	\$0.00	\$103.38
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
HYDRAULIC DRILLS LABORERS LABORERS - ZONE 1	6/1/2025	\$48.35	\$9.90	\$9.25	\$9.65	\$0.00	\$77.15
	12/1/2025	\$49.85	\$9.90	\$9.25	\$9.65	\$0.00	\$78.65
	6/1/2026	\$50.65	\$9.90	\$9.25	\$9.65	\$0.00	\$79.45
	12/1/2026	\$52.90	\$9.90	\$9.25	\$9.65	\$0.00	\$81.70
	6/1/2027	\$54.50	\$9.90	\$9.25	\$9.65	\$0.00	\$83.30
	12/1/2027	\$56.10	\$9.90	\$9.25	\$9.65	\$0.00	\$84.90
	6/1/2028	\$57.78	\$9.90	\$9.25	\$9.65	\$0.00	\$86.58
	12/1/2028	\$59.45	\$9.90	\$9.25	\$9.65	\$0.00	\$88.25
For apprentice rates see "Apprentice- LABORER"							
HYDRAULIC DRILLS (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 1 (HEAVY & HIGHWAY)	6/1/2025	\$48.45	\$9.90	\$9.25	\$9.65	\$0.00	\$77.25
	12/1/2025	\$49.95	\$9.90	\$9.25	\$9.65	\$0.00	\$78.75
	6/1/2026	\$51.50	\$9.90	\$9.25	\$9.65	\$0.00	\$80.30
	12/1/2026	\$53.00	\$9.90	\$9.25	\$9.65	\$0.00	\$81.80
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
INSULATOR (PIPES & TANKS) HEAT & FROST INSULATORS LOCAL 6 HEAT & FROST INSULATORS LOCAL 6 (BOSTON)	9/1/2024	\$56.92	\$14.75	\$9.52	\$10.09	\$0.00	\$91.28
	9/1/2025	\$60.34	\$14.75	\$9.52	\$10.09	\$0.00	\$94.70
	9/1/2026	\$63.76	\$14.75	\$9.52	\$10.09	\$0.00	\$98.12

**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	\$28.46	\$14.75	\$9.27	\$5.05	\$0.00	\$57.53
2	60.00	\$34.15	\$14.75	\$9.32	\$6.05	\$0.00	\$64.27
3	70.00	\$39.84	\$14.75	\$9.37	\$7.06	\$0.00	\$71.02
4	80.00	\$45.54	\$14.75	\$9.42	\$8.07	\$0.00	\$77.78

**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	\$30.17	\$14.75	\$9.27	\$5.05	\$0.00	\$59.24
2	60.00	\$36.20	\$14.75	\$9.32	\$6.05	\$0.00	\$66.32
3	70.00	\$42.24	\$14.75	\$9.37	\$7.06	\$0.00	\$73.42
4	80.00	\$48.27	\$14.75	\$9.42	\$8.07	\$0.00	\$80.51

IRONWORKER/WELDER IRONWORKERS LOCAL 7	3/16/2024	\$53.97	\$8.35	\$12.70	\$14.00	\$0.00	\$89.02
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**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
IRONWORKERS LOCAL 7 (BOSTON AREA)							

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

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$32.38	\$8.35	\$12.70	\$14.00	\$0.00	\$67.43
2	70.00	\$37.78	\$8.35	\$12.70	\$14.00	\$0.00	\$72.83
3	75.00	\$40.48	\$8.35	\$12.70	\$14.00	\$0.00	\$75.53
4	80.00	\$43.18	\$8.35	\$12.70	\$14.00	\$0.00	\$78.23
5	85.00	\$45.87	\$8.35	\$12.70	\$14.00	\$0.00	\$80.92
6	90.00	\$48.57	\$8.35	\$12.70	\$14.00	\$0.00	\$83.62

JACKHAMMER & PAVING BREAKER OPERATOR	6/1/2025	\$47.85	\$9.90	\$9.25	\$9.65	\$0.00	\$76.65
LABORERS	12/1/2025	\$49.35	\$9.90	\$9.25	\$9.65	\$0.00	\$78.15
LABORERS - ZONE 1	6/1/2026	\$50.90	\$9.90	\$9.25	\$9.65	\$0.00	\$79.70
	12/1/2026	\$52.40	\$9.90	\$9.25	\$9.65	\$0.00	\$81.20
	6/1/2027	\$54.00	\$9.90	\$9.25	\$9.65	\$0.00	\$82.80
	12/1/2027	\$55.60	\$9.90	\$9.25	\$9.65	\$0.00	\$84.40
	6/1/2028	\$57.28	\$9.90	\$9.25	\$9.65	\$0.00	\$86.08
	12/1/2028	\$58.95	\$9.90	\$9.25	\$9.65	\$0.00	\$87.75

For apprentice rates see "Apprentice- LABORER"

LABORER	6/1/2025	\$47.60	\$9.90	\$9.25	\$9.65	\$0.00	\$76.40
LABORERS	12/1/2025	\$49.10	\$9.90	\$9.25	\$9.65	\$0.00	\$77.90
LABORERS - ZONE 1	6/1/2026	\$50.65	\$9.90	\$9.25	\$9.65	\$0.00	\$79.45
	12/1/2026	\$52.15	\$9.90	\$9.25	\$9.65	\$0.00	\$80.95
	6/1/2027	\$53.75	\$9.90	\$9.25	\$9.65	\$0.00	\$82.55
	12/1/2027	\$55.35	\$9.90	\$9.25	\$9.65	\$0.00	\$84.15
	6/1/2028	\$57.03	\$9.90	\$9.25	\$9.65	\$0.00	\$85.83
	12/1/2028	\$58.70	\$9.90	\$9.25	\$9.65	\$0.00	\$87.50

**Apprentice: LABORER****Effective Date: 6/1/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$28.56	\$9.90	\$9.25	\$9.65	\$0.00	\$57.36
2	70.00	\$33.32	\$9.90	\$9.25	\$9.65	\$0.00	\$62.12
3	80.00	\$38.08	\$9.90	\$9.25	\$9.65	\$0.00	\$66.88
4	90.00	\$42.84	\$9.90	\$9.25	\$9.65	\$0.00	\$71.64

**Apprentice: LABORER****Effective Date: 12/1/2025**

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	\$29.46	\$9.90	\$9.25	\$9.65	\$0.00	\$58.26

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
<b>Apprentice: LABORER</b> <b>Effective Date: 12/1/2025</b>							
	<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment Total Rate</b>
	2	70.00	\$34.37	\$9.90	\$9.25	\$9.65	\$0.00 \$63.17
	3	80.00	\$39.28	\$9.90	\$9.25	\$9.65	\$0.00 \$68.08
	4	90.00	\$44.19	\$9.90	\$9.25	\$9.65	\$0.00 \$72.99
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LABORER (HEAVY & HIGHWAY)	6/1/2025	\$47.70	\$9.90	\$9.25	\$9.65	\$0.00	\$76.50
LABORERS	12/1/2025	\$49.20	\$9.90	\$9.25	\$9.65	\$0.00	\$78.00
LABORERS - ZONE 1 (HEAVY & HIGHWAY)	6/1/2026	\$50.75	\$9.90	\$9.25	\$9.65	\$0.00	\$79.55
	12/1/2026	\$52.25	\$9.90	\$9.25	\$9.65	\$0.00	\$81.05
<b>Apprentice: LABORER (HEAVY &amp; HIGHWAY)</b> <b>Effective Date: 6/1/2025</b>							
	<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment Total Rate</b>
	1	60.00	\$28.62	\$9.65	\$9.25	\$9.65	\$0.00 \$57.17
	2	70.00	\$33.39	\$9.65	\$9.25	\$9.65	\$0.00 \$61.94
	3	80.00	\$38.16	\$9.65	\$9.25	\$9.65	\$0.00 \$66.71
	4	90.00	\$42.93	\$9.65	\$9.25	\$9.65	\$0.00 \$71.48
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<b>Apprentice: LABORER (HEAVY &amp; HIGHWAY)</b> <b>Effective Date: 12/1/2025</b>							
	<b>Step</b>	<b>Percent</b>	<b>Apprentice Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Annuity</b>	<b>Supplemental Unemployment Total Rate</b>
	1	60.00	\$29.52	\$9.90	\$9.25	\$9.65	\$0.00 \$58.32
	2	70.00	\$34.44	\$9.90	\$9.25	\$9.65	\$0.00 \$63.24
	3	80.00	\$39.36	\$9.90	\$9.25	\$9.65	\$0.00 \$68.16
	4	90.00	\$44.28	\$9.90	\$9.25	\$9.65	\$0.00 \$73.08
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LABORER: CARPENTER TENDER	6/1/2025	\$47.60	\$9.90	\$9.25	\$9.65	\$0.00	\$76.40
LABORERS	12/1/2025	\$49.10	\$9.90	\$9.25	\$9.65	\$0.00	\$77.90
LABORERS - ZONE 1	6/1/2026	\$50.65	\$9.90	\$9.25	\$9.65	\$0.00	\$79.45
	12/1/2026	\$52.15	\$9.90	\$9.25	\$9.65	\$0.00	\$80.95
	6/1/2027	\$53.75	\$9.90	\$9.25	\$9.65	\$0.00	\$82.55
	12/1/2027	\$55.35	\$9.90	\$9.25	\$9.65	\$0.00	\$84.15
	6/1/2028	\$57.03	\$9.90	\$9.25	\$9.65	\$0.00	\$85.83
	12/1/2028	\$58.70	\$9.90	\$9.25	\$9.65	\$0.00	\$87.50
For apprentice rates see "Apprentice- LABORER"							
<hr/>							
LABORER: CEMENT FINISHER TENDER	6/1/2025	\$47.60	\$9.90	\$9.25	\$9.65	\$0.00	\$76.40
LABORERS	12/1/2025	\$49.10	\$9.90	\$9.25	\$9.65	\$0.00	\$77.90
LABORERS - ZONE 1	6/1/2026	\$50.65	\$9.90	\$9.25	\$9.65	\$0.00	\$79.45
	12/1/2026	\$52.15	\$9.90	\$9.25	\$9.65	\$0.00	\$80.95
	6/1/2027	\$53.75	\$9.90	\$9.25	\$9.65	\$0.00	\$82.55

**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>
	12/1/2027	\$55.35	\$9.90	\$9.25	\$9.65	\$0.00	\$84.15
	6/1/2028	\$57.03	\$9.90	\$9.25	\$9.65	\$0.00	\$85.83
	12/1/2028	\$58.70	\$9.90	\$9.25	\$9.65	\$0.00	\$87.50
For apprentice rates see "Apprentice- LABORER"							
LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER LABORERS	6/2/2025	\$47.75	\$9.90	\$9.25	\$9.65	\$0.00	\$76.55
LABORERS - ZONE 1	12/1/2025	\$49.25	\$9.90	\$9.25	\$9.65	\$0.00	\$78.05
	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"							
LABORER: MASON TENDER LABORERS	6/1/2025	\$47.85	\$9.90	\$9.25	\$9.65	\$0.00	\$76.65
LABORERS - ZONE 1	12/1/2025	\$49.35	\$9.90	\$9.25	\$9.65	\$0.00	\$78.15
	6/1/2026	\$50.90	\$9.90	\$9.25	\$9.65	\$0.00	\$79.70
	12/1/2026	\$52.40	\$9.90	\$9.25	\$9.65	\$0.00	\$81.20
	6/1/2027	\$54.00	\$9.90	\$9.25	\$9.65	\$0.00	\$82.80
	12/1/2027	\$55.60	\$9.90	\$9.25	\$9.65	\$0.00	\$84.40
	6/1/2028	\$57.28	\$9.90	\$9.25	\$9.65	\$0.00	\$86.08
	12/1/2028	\$58.95	\$9.90	\$9.25	\$9.65	\$0.00	\$87.75
For apprentice rates see "Apprentice- LABORER"							
LABORER: MASON TENDER (HEAVY & HIGHWAY) LABORERS	6/1/2025	\$47.95	\$9.90	\$9.25	\$9.65	\$0.00	\$76.75
LABORERS - ZONE 1 (HEAVY & HIGHWAY)	12/1/2025	\$49.45	\$9.90	\$9.25	\$9.65	\$0.00	\$78.25
	6/1/2026	\$51.00	\$9.90	\$9.25	\$9.65	\$0.00	\$79.80
	12/1/2026	\$52.50	\$9.90	\$9.25	\$9.65	\$0.00	\$81.30
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
LABORER: MULTI-TRADE TENDER LABORERS	6/1/2025	\$47.60	\$9.90	\$9.25	\$9.65	\$0.00	\$76.40
LABORERS - ZONE 1	12/1/2025	\$49.10	\$9.90	\$9.25	\$9.65	\$0.00	\$77.90
	6/1/2026	\$50.65	\$9.90	\$9.25	\$9.65	\$0.00	\$79.45
	12/1/2026	\$52.15	\$9.90	\$9.25	\$9.65	\$0.00	\$80.95
	6/1/2027	\$53.75	\$9.90	\$9.25	\$9.65	\$0.00	\$82.55
	12/1/2027	\$55.35	\$9.90	\$9.25	\$9.65	\$0.00	\$84.15
	6/1/2028	\$57.03	\$9.90	\$9.25	\$9.65	\$0.00	\$85.83
	12/1/2028	\$58.70	\$9.90	\$9.25	\$9.65	\$0.00	\$87.50
For apprentice rates see "Apprentice- LABORER"							
LABORER: TREE REMOVER LABORERS	6/1/2025	\$47.60	\$9.90	\$9.25	\$9.65	\$0.00	\$76.40
LABORERS - ZONE 1	12/1/2025	\$49.10	\$9.90	\$9.25	\$9.65	\$0.00	\$77.90
	6/1/2026	\$50.65	\$9.90	\$9.25	\$9.65	\$0.00	\$79.45
	12/1/2026	\$52.15	\$9.90	\$9.25	\$9.65	\$0.00	\$80.95
	6/1/2027	\$53.75	\$9.90	\$9.25	\$9.65	\$0.00	\$82.55
	12/1/2027	\$55.35	\$9.90	\$9.25	\$9.65	\$0.00	\$84.15
	6/1/2028	\$57.03	\$9.90	\$9.25	\$9.65	\$0.00	\$85.83
	12/1/2028	\$58.70	\$9.90	\$9.25	\$9.65	\$0.00	\$87.50

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"

**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>
LASER BEAM OPERATOR	6/1/2025	\$47.85	\$9.90	\$9.25	\$9.65	\$0.00	\$76.65
LABORERS	12/1/2025	\$49.35	\$9.90	\$9.25	\$9.65	\$0.00	\$78.15
LABORERS - ZONE 1	6/1/2026	\$50.90	\$9.90	\$9.25	\$9.65	\$0.00	\$79.70
	12/1/2026	\$52.40	\$9.90	\$9.25	\$9.65	\$0.00	\$81.20
	6/1/2027	\$54.00	\$9.90	\$9.25	\$9.65	\$0.00	\$82.80
	12/1/2027	\$55.60	\$9.90	\$9.25	\$9.65	\$0.00	\$84.40
	6/1/2028	\$57.28	\$9.90	\$9.25	\$9.65	\$0.00	\$86.08
	12/1/2028	\$58.95	\$9.90	\$9.25	\$9.65	\$0.00	\$87.75

For apprentice rates see "Apprentice- LABORER"

LASER BEAM OPERATOR (HEAVY & HIGHWAY)	6/1/2025	\$47.95	\$9.90	\$9.25	\$9.65	\$0.00	\$76.75
LABORERS	12/1/2025	\$49.45	\$9.90	\$9.25	\$9.65	\$0.00	\$78.25
LABORERS - ZONE 1 (HEAVY & HIGHWAY)	6/1/2026	\$51.00	\$9.90	\$9.25	\$9.65	\$0.00	\$79.80
	12/1/2026	\$52.50	\$9.90	\$9.25	\$9.65	\$0.00	\$81.30

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

MARBLE & TILE FINISHERS	2/1/2025	\$50.36	\$11.49	\$15.57	\$6.05	\$0.00	\$83.47
BRICKLAYERS LOCAL 3	8/1/2025	\$52.08	\$11.49	\$15.57	\$6.05	\$0.00	\$85.19
BRICKLAYERS LOCAL 3 - MARBLE & TILE	2/1/2026	\$53.16	\$11.49	\$15.57	\$6.05	\$0.00	\$86.27
	8/1/2026	\$54.92	\$11.49	\$15.57	\$6.05	\$0.00	\$88.03
	2/1/2027	\$56.04	\$11.49	\$15.57	\$6.05	\$0.00	\$89.15

**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	\$25.18	\$11.49	\$15.57	\$6.05	\$0.00	\$58.29
2	60.00	\$30.22	\$11.49	\$15.57	\$6.05	\$0.00	\$63.33
3	70.00	\$35.25	\$11.49	\$15.57	\$6.05	\$0.00	\$68.36
4	80.00	\$40.29	\$11.49	\$15.57	\$6.05	\$0.00	\$73.40
5	90.00	\$45.32	\$11.49	\$15.57	\$6.05	\$0.00	\$78.43

**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	\$26.04	\$11.49	\$15.57	\$6.05	\$0.00	\$59.15
2	60.00	\$31.25	\$11.49	\$15.57	\$6.05	\$0.00	\$64.36
3	70.00	\$36.46	\$11.49	\$15.57	\$6.05	\$0.00	\$69.57
4	80.00	\$41.66	\$11.49	\$15.57	\$6.05	\$0.00	\$74.77
5	90.00	\$46.87	\$11.49	\$15.57	\$6.05	\$0.00	\$79.98

MARBLE MASONS, TILELAYERS & TERRAZZO MECH	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 - 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

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
<b>Apprentice: MARBLE MASONS,TILELAYERS &amp; TERRAZZO MECH</b>							
<b>Effective Date: 2/1/2025</b>							
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
<b>Apprentice: MARBLE MASONS,TILELAYERS &amp; TERRAZZO MECH</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
MECH. SWEEPER OPERATOR (ON CONST. SITES)	6/1/2025	\$57.68	\$15.55	\$13.25	\$3.25	\$0.00	\$89.73
OPERATING ENGINEERS LOCAL 4	12/1/2025	\$59.12	\$15.55	\$13.25	\$3.25	\$0.00	\$91.17
OPERATING ENGINEERS LOCAL 4	6/1/2026	\$60.40	\$15.55	\$13.25	\$3.25	\$0.00	\$92.45
	12/1/2026	\$61.84	\$15.55	\$13.25	\$3.25	\$0.00	\$93.89
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
MECHANICS MAINTENANCE	6/1/2025	\$57.68	\$15.55	\$13.25	\$3.25	\$0.00	\$89.73
OPERATING ENGINEERS LOCAL 4	12/1/2025	\$59.12	\$15.55	\$13.25	\$3.25	\$0.00	\$91.17
OPERATING ENGINEERS LOCAL 4	6/1/2026	\$60.40	\$15.55	\$13.25	\$3.25	\$0.00	\$92.45
	12/1/2026	\$61.84	\$15.55	\$13.25	\$3.25	\$0.00	\$93.89
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
MILLWRIGHT (Zone 1)	1/6/2025	\$50.53	\$10.08	\$11.47	\$10.25	\$0.00	\$82.33
MILLWRIGHTS LOCAL 1121	1/5/2026	\$53.03	\$10.08	\$11.47	\$10.25	\$0.00	\$84.83
MILLWRIGHTS LOCAL 1121 - Zone 1							

<b>Apprentice: MILLWRIGHT (Zone 1)</b>							
<b>Effective Date: 1/6/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	55.00	\$27.79	\$10.08	\$0.00	\$5.64	\$0.00	\$43.51
2	65.00	\$32.84	\$10.08	\$0.00	\$6.66	\$0.00	\$49.58
3	75.00	\$37.90	\$10.08	\$11.47	\$7.69	\$0.00	\$67.14
4	85.00	\$42.95	\$10.08	\$11.47	\$8.71	\$0.00	\$73.21

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
<b>Apprentice: MILLWRIGHT (Zone 1)</b> <b>Effective Date: 1/5/2026</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	55.00	\$29.17	\$10.08	\$0.00	\$5.64	\$0.00	\$44.89
2	65.00	\$34.47	\$10.08	\$0.00	\$6.66	\$0.00	\$51.21
3	75.00	\$39.77	\$10.08	\$11.47	\$7.69	\$0.00	\$69.01
4	85.00	\$45.08	\$10.08	\$11.47	\$8.71	\$0.00	\$75.34
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MORTAR MIXER	6/1/2025	\$47.85	\$9.90	\$9.25	\$9.65	\$0.00	\$76.65
LABORERS	12/1/2025	\$49.35	\$9.90	\$9.25	\$9.65	\$0.00	\$78.15
LABORERS - ZONE 1	6/1/2026	\$50.90	\$9.90	\$9.25	\$9.65	\$0.00	\$79.70
	12/1/2026	\$52.40	\$9.90	\$9.25	\$9.65	\$0.00	\$81.20
	6/1/2027	\$54.00	\$9.90	\$9.25	\$9.65	\$0.00	\$82.80
	12/1/2027	\$55.60	\$9.90	\$9.25	\$9.65	\$0.00	\$84.40
	6/1/2028	\$57.28	\$9.90	\$9.25	\$9.65	\$0.00	\$86.08
	12/1/2028	\$58.95	\$9.90	\$9.25	\$9.65	\$0.00	\$87.75
For apprentice rates see "Apprentice- LABORER"							
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OILER (OTHER THAN TRUCK CRANES,GRADALLS)	6/1/2025	\$25.97	\$15.30	\$13.15	\$3.25	\$0.00	\$57.67
OPERATING ENGINEERS LOCAL 4	12/1/2025	\$26.63	\$15.30	\$13.15	\$3.25	\$0.00	\$58.33
OPERATING ENGINEERS LOCAL 4	6/1/2026	\$27.22	\$15.30	\$13.15	\$3.25	\$0.00	\$58.92
	12/1/2026	\$27.89	\$15.30	\$13.15	\$3.25	\$0.00	\$59.59
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
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OILER (TRUCK CRANES, GRADALLS)	6/1/2025	\$31.80	\$15.30	\$13.15	\$3.25	\$0.00	\$63.50
OPERATING ENGINEERS LOCAL 4	12/1/2025	\$32.60	\$15.30	\$13.15	\$3.25	\$0.00	\$64.30
OPERATING ENGINEERS LOCAL 4	6/1/2026	\$33.32	\$15.30	\$13.15	\$3.25	\$0.00	\$65.02
	12/1/2026	\$34.12	\$15.30	\$13.15	\$3.25	\$0.00	\$65.82
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
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OTHER POWER DRIVEN EQUIPMENT - CLASS II	6/1/2025	\$57.68	\$15.55	\$13.25	\$3.25	\$0.00	\$89.73
OPERATING ENGINEERS LOCAL 4	12/1/2025	\$59.12	\$15.55	\$13.25	\$3.25	\$0.00	\$91.17
OPERATING ENGINEERS LOCAL 4	6/1/2026	\$60.40	\$15.55	\$13.25	\$3.25	\$0.00	\$92.45
	12/1/2026	\$61.84	\$15.55	\$13.25	\$3.25	\$0.00	\$93.89
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
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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 2							

<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

**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
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 \$49.36 \$9.95 \$11.85 \$12.10 \$0.00 \$83.26

\* 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 2

<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	\$24.68	\$9.95	\$0.00	\$0.00	\$0.00	\$34.63
2	55.00	\$27.15	\$9.95	\$0.00	\$6.66	\$0.00	\$43.76
3	60.00	\$29.62	\$9.95	\$0.00	\$7.26	\$0.00	\$46.83
4	65.00	\$32.08	\$9.95	\$0.00	\$7.87	\$0.00	\$49.90
5	70.00	\$34.55	\$9.95	\$11.85	\$8.47	\$0.00	\$64.82
6	75.00	\$37.02	\$9.95	\$11.85	\$9.08	\$0.00	\$67.90
7	80.00	\$39.49	\$9.95	\$11.85	\$9.68	\$0.00	\$70.97
8	90.00	\$44.42	\$9.95	\$11.85	\$10.89	\$0.00	\$77.11

PAINTER (SPRAY OR SANDBLAST, REPAINT) 1/1/2025 \$47.42 \$9.95 \$11.85 \$12.10 \$0.00 \$81.32

PAINTERS LOCAL 35

PAINTERS LOCAL 35 - ZONE 2

<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	\$23.71	\$9.95	\$0.00	\$0.00	\$0.00	\$33.66
2	55.00	\$26.08	\$9.95	\$0.00	\$6.66	\$0.00	\$42.69
3	60.00	\$28.45	\$9.95	\$0.00	\$7.26	\$0.00	\$45.66
4	65.00	\$30.82	\$9.95	\$0.00	\$7.87	\$0.00	\$48.64
5	70.00	\$33.19	\$9.95	\$11.85	\$8.47	\$0.00	\$63.46
6	75.00	\$35.57	\$9.95	\$11.85	\$9.08	\$0.00	\$66.45
7	80.00	\$37.94	\$9.95	\$11.85	\$9.68	\$0.00	\$69.42
8	90.00	\$42.68	\$9.95	\$11.85	\$10.89	\$0.00	\$75.37

**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>
PAINTER / TAPER (BRUSH, NEW) *	1/1/2025	\$47.96	\$9.95	\$11.85	\$12.10	\$0.00	\$81.86
* 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 2							

**Apprentice: PAINTER / TAPER (BRUSH, NEW) \*****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	50.00	\$23.98	\$9.95	\$0.00	\$0.00	\$0.00	\$33.93
2	55.00	\$26.38	\$9.95	\$0.00	\$6.66	\$0.00	\$42.99
3	60.00	\$28.78	\$9.95	\$0.00	\$7.26	\$0.00	\$45.99
4	65.00	\$31.17	\$9.95	\$0.00	\$7.87	\$0.00	\$48.99
5	70.00	\$33.57	\$9.95	\$11.85	\$8.47	\$0.00	\$63.84
6	75.00	\$35.97	\$9.95	\$11.85	\$9.08	\$0.00	\$66.85
7	80.00	\$38.37	\$9.95	\$11.85	\$9.68	\$0.00	\$69.85
8	90.00	\$43.16	\$9.95	\$11.85	\$10.89	\$0.00	\$75.85

PAINTER / TAPER (BRUSH, REPAINT)	1/1/2025	\$46.02	\$9.95	\$11.85	\$12.10	\$0.00	\$79.92
PAINTERS LOCAL 35							
PAINTERS LOCAL 35 - ZONE 2							

**Apprentice: PAINTER / TAPER (BRUSH, REPAINT)****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	50.00	\$23.01	\$9.95	\$0.00	\$0.00	\$0.00	\$32.96
2	55.00	\$25.31	\$9.95	\$0.00	\$6.66	\$0.00	\$41.92
3	60.00	\$27.61	\$9.95	\$0.00	\$7.26	\$0.00	\$44.82
4	65.00	\$29.91	\$9.95	\$0.00	\$7.87	\$0.00	\$47.73
5	70.00	\$32.21	\$9.95	\$11.85	\$8.47	\$0.00	\$62.48
6	75.00	\$34.52	\$9.95	\$11.85	\$9.08	\$0.00	\$65.40
7	80.00	\$36.82	\$9.95	\$11.85	\$9.68	\$0.00	\$68.30
8	90.00	\$41.42	\$9.95	\$11.85	\$10.89	\$0.00	\$74.11

PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY)	6/1/2025	\$47.70	\$9.90	\$9.25	\$9.65	\$0.00	\$76.50
LABORERS	12/1/2025	\$49.20	\$9.90	\$9.25	\$9.65	\$0.00	\$78.00
LABORERS - ZONE 1 (HEAVY & HIGHWAY)	6/1/2026	\$50.75	\$9.90	\$9.25	\$9.65	\$0.00	\$79.55
	12/1/2026	\$52.25	\$9.90	\$9.25	\$9.65	\$0.00	\$81.05

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

PANEL & PICKUP TRUCKS DRIVER	6/1/2025	\$41.88	\$14.91	\$20.17	\$0.00	\$0.00	\$76.96
TEAMSTERS JOINT COUNCIL NO. 10	8/1/2025	\$41.88	\$15.41	\$20.17	\$0.00	\$0.00	\$77.46
TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	12/1/2025	\$41.88	\$15.41	\$21.78	\$0.00	\$0.00	\$79.07
	6/1/2026	\$42.88	\$15.41	\$21.78	\$0.00	\$0.00	\$80.07
	8/1/2026	\$42.88	\$15.91	\$21.78	\$0.00	\$0.00	\$80.57
	12/1/2026	\$42.88	\$15.91	\$23.52	\$0.00	\$0.00	\$82.31

**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>
PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK)	8/1/2024	\$55.79	\$10.08	\$11.62	\$12.67	\$0.00	\$90.16
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 1)							
For apprentice rates see "Apprentice- PILE DRIVER"							
PILE DRIVER	8/1/2024	\$55.79	\$10.08	\$11.62	\$12.67	\$0.00	\$90.16
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 1)							

**Apprentice: PILE DRIVER****Effective Date: 8/1/2024**

<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	45.00	\$25.11	\$10.08	\$0.00	\$2.53	\$0.00	\$37.72
2	55.00	\$30.68	\$10.08	\$0.00	\$5.07	\$0.00	\$45.83
3	70.00	\$39.05	\$10.08	\$11.62	\$7.60	\$0.00	\$68.35
4	80.00	\$44.63	\$10.08	\$11.62	\$10.14	\$0.00	\$76.47

PIPEFITTER & STEAMFITTER	3/1/2025	\$68.88	\$12.70	\$13.05	\$8.75	\$0.00	\$103.38
PIPEFITTERS LOCAL 537							
PIPEFITTERS LOCAL 537							

**Apprentice: PIPEFITTER & STEAMFITTER****Effective Date: 3/1/2025**

<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	40.00	\$27.55	\$12.70	\$0.30	\$8.75	\$0.00	\$49.30
2	45.00	\$31.00	\$12.70	\$13.05	\$8.75	\$0.00	\$65.50
3	60.00	\$41.33	\$12.70	\$13.05	\$8.75	\$0.00	\$75.83
4	70.00	\$48.22	\$12.70	\$13.05	\$8.75	\$0.00	\$82.72
5	80.00	\$55.10	\$12.70	\$13.05	\$8.75	\$0.00	\$89.60

PIPELAYER	6/1/2025	\$47.85	\$9.90	\$9.25	\$9.65	\$0.00	\$76.65
LABORERS	12/1/2025	\$49.35	\$9.90	\$9.25	\$9.65	\$0.00	\$78.15
LABORERS - ZONE 1	6/1/2026	\$50.90	\$9.90	\$9.25	\$9.65	\$0.00	\$79.70
	12/1/2026	\$52.40	\$9.90	\$9.25	\$9.65	\$0.00	\$81.20
	6/1/2027	\$54.00	\$9.90	\$9.25	\$9.65	\$0.00	\$82.80
	12/1/2027	\$55.60	\$9.90	\$9.25	\$9.65	\$0.00	\$84.40
	6/1/2028	\$57.28	\$9.90	\$9.25	\$9.65	\$0.00	\$86.08
	12/1/2028	\$58.95	\$9.90	\$9.25	\$9.65	\$0.00	\$87.75

For apprentice rates see "Apprentice- LABORER"

PIPELAYER (HEAVY & HIGHWAY)	6/1/2025	\$47.95	\$9.90	\$9.25	\$9.65	\$0.00	\$76.75
LABORERS	12/1/2025	\$49.45	\$9.90	\$9.25	\$9.65	\$0.00	\$78.25
LABORERS - ZONE 1 (HEAVY & HIGHWAY)	6/1/2026	\$51.00	\$9.90	\$9.25	\$9.65	\$0.00	\$79.80
	12/1/2026	\$52.50	\$9.90	\$9.25	\$9.65	\$0.00	\$81.30

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>
PLUMBERS & GASFITTERS	3/2/2025	\$69.84	\$14.32	\$12.31	\$8.00	\$0.00	\$104.47
PLUMBERS & GASFITTERS LOCAL 12							
PLUMBERS & GASFITTERS LOCAL 12							

**Apprentice: PLUMBERS & GASFITTERS****Effective Date: 3/2/2025**

<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	35.00	\$24.44	\$14.32	\$4.61	\$2.80	\$0.00	\$46.17
2	40.00	\$27.94	\$14.32	\$5.22	\$3.20	\$0.00	\$50.68
3	55.00	\$38.41	\$14.32	\$7.07	\$4.40	\$0.00	\$64.20
4	65.00	\$45.40	\$14.32	\$8.30	\$5.20	\$0.00	\$73.22
5	75.00	\$52.38	\$14.32	\$9.53	\$6.00	\$0.00	\$82.23

PNEUMATIC CONTROLS (TEMP.)	3/1/2025	\$68.88	\$12.70	\$13.05	\$8.75	\$0.00	\$103.38
PIPEFITTERS LOCAL 537							
PIPEFITTERS LOCAL 537							

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

PNEUMATIC DRILL/TOOL OPERATOR	6/1/2025	\$47.85	\$9.90	\$9.25	\$9.65	\$0.00	\$76.65
LABORERS	12/1/2025	\$49.35	\$9.90	\$9.25	\$9.65	\$0.00	\$78.15
LABORERS - ZONE 1	6/1/2026	\$50.90	\$9.90	\$9.25	\$9.65	\$0.00	\$79.70
	12/1/2026	\$52.40	\$9.90	\$9.25	\$9.65	\$0.00	\$81.20
	6/1/2027	\$54.00	\$9.90	\$9.25	\$9.65	\$0.00	\$82.80
	12/1/2027	\$55.60	\$9.90	\$9.25	\$9.65	\$0.00	\$84.40
	6/1/2028	\$57.28	\$9.90	\$9.25	\$9.65	\$0.00	\$86.08
	12/1/2028	\$58.95	\$9.90	\$9.25	\$9.65	\$0.00	\$87.75

For apprentice rates see "Apprentice- LABORER"

PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY)	6/1/2025	\$47.95	\$9.90	\$9.25	\$9.65	\$0.00	\$76.75
LABORERS	12/1/2025	\$49.45	\$9.90	\$9.25	\$9.65	\$0.00	\$78.25
LABORERS - ZONE 1 (HEAVY & HIGHWAY)	6/1/2026	\$51.00	\$9.90	\$9.25	\$9.65	\$0.00	\$79.80
	12/1/2026	\$52.50	\$9.90	\$9.25	\$9.65	\$0.00	\$81.30

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

POWDERMAN & BLASTER	6/1/2025	\$48.60	\$9.90	\$9.25	\$9.65	\$0.00	\$77.40
LABORERS	12/1/2025	\$50.10	\$9.90	\$9.25	\$9.65	\$0.00	\$78.90
LABORERS - ZONE 1	6/1/2026	\$51.65	\$9.90	\$9.25	\$9.65	\$0.00	\$80.45
	12/1/2026	\$53.15	\$9.90	\$9.25	\$9.65	\$0.00	\$81.95
	6/1/2027	\$54.75	\$9.90	\$9.25	\$9.65	\$0.00	\$83.55
	12/1/2027	\$56.35	\$9.90	\$9.25	\$9.65	\$0.00	\$85.15
	6/1/2028	\$58.03	\$9.90	\$9.25	\$9.65	\$0.00	\$86.83
	12/1/2028	\$59.70	\$9.90	\$9.25	\$9.65	\$0.00	\$88.50

For apprentice rates see "Apprentice- LABORER"

POWDERMAN & BLASTER (HEAVY & HIGHWAY)	6/1/2025	\$48.70	\$9.90	\$9.25	\$9.65	\$0.00	\$77.50
LABORERS	12/1/2025	\$50.20	\$9.90	\$9.25	\$9.65	\$0.00	\$79.00
LABORERS - ZONE 1 (HEAVY & HIGHWAY)	6/1/2026	\$51.75	\$9.90	\$9.25	\$9.65	\$0.00	\$80.55
	12/1/2026	\$53.25	\$9.90	\$9.25	\$9.65	\$0.00	\$82.05

**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>
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
POWER SHOVEL/DERRICK/TRENCHING MACHINE	6/1/2025	\$58.33	\$15.55	\$13.25	\$3.25	\$0.00	\$90.38
OPERATING ENGINEERS LOCAL 4	12/1/2025	\$59.78	\$15.55	\$13.25	\$3.25	\$0.00	\$91.83
OPERATING ENGINEERS LOCAL 4	6/1/2026	\$61.08	\$15.55	\$13.25	\$3.25	\$0.00	\$93.13
	12/1/2026	\$62.53	\$15.55	\$13.25	\$3.25	\$0.00	\$94.58
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
PUMP OPERATOR (CONCRETE)	6/1/2025	\$57.68	\$15.55	\$13.25	\$3.25	\$0.00	\$89.73
OPERATING ENGINEERS LOCAL 4	12/1/2025	\$59.12	\$15.55	\$13.25	\$3.25	\$0.00	\$91.17
OPERATING ENGINEERS LOCAL 4	6/1/2026	\$60.40	\$15.55	\$13.25	\$3.25	\$0.00	\$92.45
	12/1/2026	\$61.84	\$15.55	\$13.25	\$3.25	\$0.00	\$93.89
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
PUMP OPERATOR (DEWATERING, OTHER)	6/1/2025	\$37.52	\$15.55	\$13.25	\$3.25	\$0.00	\$69.57
OPERATING ENGINEERS LOCAL 4	12/1/2025	\$38.47	\$15.55	\$13.25	\$3.25	\$0.00	\$70.52
OPERATING ENGINEERS LOCAL 4	6/1/2026	\$39.33	\$15.55	\$13.25	\$3.25	\$0.00	\$71.38
	12/1/2026	\$40.28	\$15.55	\$13.25	\$3.25	\$0.00	\$72.33
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
READY-MIX CONCRETE DRIVER	5/1/2025	\$30.00	\$12.00	\$7.00	\$0.00	\$0.00	\$49.00
TEAMSTERS 42 - J.G. MacLeallan (Wakefield)	5/1/2026	\$30.50	\$12.00	\$7.00	\$0.00	\$0.00	\$49.50
TEAMSTERS 42 - J.G. MacLeallan (Wakefield)							
RECLAIMERS	6/1/2025	\$57.68	\$15.55	\$13.25	\$3.25	\$0.00	\$89.73
OPERATING ENGINEERS LOCAL 4	12/1/2025	\$59.12	\$15.55	\$13.25	\$3.25	\$0.00	\$91.17
OPERATING ENGINEERS LOCAL 4	6/1/2026	\$60.40	\$15.55	\$13.25	\$3.25	\$0.00	\$92.45
	12/1/2026	\$61.84	\$15.55	\$13.25	\$3.25	\$0.00	\$93.89
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
RIDE-ON MOTORIZED BUGGY OPERATOR	6/1/2025	\$47.85	\$9.90	\$9.25	\$9.65	\$0.00	\$76.65
LABORERS	12/1/2025	\$49.35	\$9.90	\$9.25	\$9.65	\$0.00	\$78.15
LABORERS - ZONE 1	6/1/2026	\$50.90	\$9.90	\$9.25	\$9.65	\$0.00	\$79.70
	12/1/2026	\$52.40	\$9.90	\$9.25	\$9.65	\$0.00	\$81.20
	6/1/2027	\$54.00	\$9.90	\$9.25	\$9.65	\$0.00	\$82.80
	12/1/2027	\$55.60	\$9.90	\$9.25	\$9.65	\$0.00	\$84.40
	6/1/2028	\$57.28	\$9.90	\$9.25	\$9.65	\$0.00	\$86.08
	12/1/2028	\$58.95	\$9.90	\$9.25	\$9.65	\$0.00	\$87.75
For apprentice rates see "Apprentice- LABORER"							
ROLLER/SPREADER/MULCHING MACHINE	6/1/2025	\$57.68	\$15.55	\$13.25	\$3.25	\$0.00	\$89.73
OPERATING ENGINEERS LOCAL 4	12/1/2025	\$59.12	\$15.55	\$13.25	\$3.25	\$0.00	\$91.17
OPERATING ENGINEERS LOCAL 4	6/1/2026	\$60.40	\$15.55	\$13.25	\$3.25	\$0.00	\$92.45
	12/1/2026	\$61.84	\$15.55	\$13.25	\$3.25	\$0.00	\$93.89
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
ROOFER (Inc.Roofer Waterproofing &Roofer Damproofg)	2/1/2025	\$52.03	\$13.28	\$12.67	\$9.03	\$0.00	\$87.01
ROOFERS LOCAL 33	8/1/2025	\$53.53	\$13.28	\$12.67	\$9.03	\$0.00	\$88.51
ROOFERS LOCAL 33	2/1/2026	\$54.78	\$13.28	\$12.67	\$9.03	\$0.00	\$89.76

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
<b>Apprentice: ROOFER (Inc.Roofers Waterproofing &amp;Roofers Damproofg)</b>							
<b>Effective Date: 2/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$26.02	\$13.28	\$6.52	\$9.03	\$0.00	\$54.85
2	60.00	\$31.22	\$13.28	\$12.67	\$9.03	\$0.00	\$66.20
3	65.00	\$33.82	\$13.28	\$12.67	\$9.03	\$0.00	\$68.80
4	75.00	\$39.02	\$13.28	\$12.67	\$9.03	\$0.00	\$74.00
5	85.00	\$44.23	\$13.28	\$12.67	\$9.03	\$0.00	\$79.21
<b>Apprentice: ROOFER (Inc.Roofers Waterproofing &amp;Roofers Damproofg)</b>							
<b>Effective Date: 8/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	\$26.77	\$13.28	\$6.52	\$9.03	\$0.00	\$55.60
2	60.00	\$32.12	\$13.28	\$12.67	\$9.03	\$0.00	\$67.10
3	65.00	\$34.79	\$13.28	\$12.67	\$9.03	\$0.00	\$69.77
4	75.00	\$40.15	\$13.28	\$12.67	\$9.03	\$0.00	\$75.13
5	85.00	\$45.50	\$13.28	\$12.67	\$9.03	\$0.00	\$80.48
ROOFER SLATE / TILE / PRECAST CONCRETE	2/1/2025	\$52.28	\$13.28	\$12.67	\$9.03	\$0.00	\$87.26
ROOFERS LOCAL 33	8/1/2025	\$53.78	\$13.28	\$12.67	\$9.03	\$0.00	\$88.76
ROOFERS LOCAL 33	2/1/2026	\$55.03	\$13.28	\$12.67	\$9.03	\$0.00	\$90.01
For apprentice rates see "Apprentice- ROOFER"							
SHEETMETAL WORKER	2/1/2025	\$59.13	\$14.91	\$18.74	\$9.53	\$2.98	\$105.29
SHEETMETAL WORKERS LOCAL 17	8/1/2025	\$60.98	\$14.91	\$18.74	\$9.53	\$2.98	\$107.14
SHEETMETAL WORKERS LOCAL 17 - A	2/1/2026	\$62.93	\$14.91	\$18.74	\$9.53	\$2.98	\$109.09
<b>Apprentice: SHEETMETAL WORKER</b>							
<b>Effective Date: 2/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	42.00	\$24.83	\$14.91	\$6.13	\$0.00	\$0.00	\$45.87
2	42.00	\$24.83	\$14.91	\$6.13	\$0.00	\$0.00	\$45.87
3	47.00	\$27.79	\$14.91	\$11.01	\$1.25	\$1.62	\$56.58
4	47.00	\$27.79	\$14.91	\$11.01	\$1.25	\$1.62	\$56.58
5	52.00	\$30.75	\$14.91	\$11.74	\$1.50	\$1.74	\$60.64
6	52.00	\$30.75	\$14.91	\$11.74	\$1.75	\$1.75	\$60.90
7	60.00	\$35.48	\$14.91	\$12.90	\$2.00	\$1.93	\$67.22
8	65.00	\$38.43	\$14.91	\$13.63	\$2.25	\$2.04	\$71.26
9	75.00	\$44.35	\$14.91	\$15.09	\$2.75	\$2.28	\$79.38
10	85.00	\$50.26	\$14.91	\$16.55	\$2.75	\$2.49	\$86.96

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
<b>Apprentice: SHEETMETAL WORKER</b> <b>Effective Date: 8/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	42.00	\$25.61	\$14.91	\$6.13	\$0.00	\$0.00	\$46.65
2	42.00	\$25.61	\$14.91	\$6.13	\$0.00	\$0.00	\$46.65
3	47.00	\$28.66	\$14.91	\$11.01	\$1.25	\$1.62	\$57.45
4	47.00	\$28.66	\$14.91	\$11.01	\$1.25	\$1.62	\$57.45
5	52.00	\$31.71	\$14.91	\$11.74	\$1.50	\$1.74	\$61.60
6	52.00	\$31.71	\$14.91	\$11.74	\$1.75	\$1.75	\$61.86
7	60.00	\$36.59	\$14.91	\$12.90	\$2.00	\$1.93	\$68.33
8	65.00	\$39.64	\$14.91	\$13.63	\$2.25	\$2.04	\$72.47
9	75.00	\$45.74	\$14.91	\$15.09	\$2.75	\$2.28	\$80.77
10	85.00	\$51.83	\$14.91	\$16.55	\$2.75	\$2.49	\$88.53
SPECIALIZED EARTH MOVING EQUIP < 35 TONS	6/1/2025	\$42.34	\$14.91	\$20.17	\$0.00	\$0.00	\$77.42
TEAMSTERS JOINT COUNCIL NO. 10	8/1/2025	\$42.34	\$15.41	\$20.17	\$0.00	\$0.00	\$77.92
TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	12/1/2025	\$42.34	\$15.41	\$21.78	\$0.00	\$0.00	\$79.53
	6/1/2026	\$43.34	\$15.41	\$21.78	\$0.00	\$0.00	\$80.53
	8/1/2026	\$43.34	\$15.91	\$21.78	\$0.00	\$0.00	\$81.03
	12/1/2026	\$43.34	\$15.91	\$23.52	\$0.00	\$0.00	\$82.77
SPECIALIZED EARTH MOVING EQUIP > 35 TONS	6/1/2025	\$42.63	\$14.91	\$20.17	\$0.00	\$0.00	\$77.71
TEAMSTERS JOINT COUNCIL NO. 10	8/1/2025	\$42.63	\$15.41	\$20.17	\$0.00	\$0.00	\$78.21
TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	12/1/2025	\$42.63	\$15.41	\$21.78	\$0.00	\$0.00	\$79.82
	6/1/2026	\$43.63	\$15.41	\$21.78	\$0.00	\$0.00	\$80.82
	8/1/2026	\$43.63	\$15.91	\$21.78	\$0.00	\$0.00	\$81.32
	12/1/2026	\$43.63	\$15.91	\$23.52	\$0.00	\$0.00	\$83.06
SPRINKLER FITTER	3/1/2025	\$72.14	\$11.51	\$7.30	\$16.50	\$0.00	\$107.45
SPRINKLER FITTERS LOCAL 550							
SPRINKLER FITTERS LOCAL 550 - (Section A) Zone 1							

<b>Apprentice: SPRINKLER FITTER</b> <b>Effective Date: 3/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	35.00	\$25.25	\$11.51	\$13.07	\$0.00	\$0.00	\$49.83
2	40.00	\$28.86	\$11.51	\$13.90	\$0.00	\$0.00	\$54.27
3	45.00	\$32.46	\$11.51	\$14.73	\$0.00	\$0.00	\$58.70
4	50.00	\$36.07	\$11.51	\$15.55	\$0.00	\$0.00	\$63.13
5	55.00	\$39.68	\$11.51	\$16.37	\$0.00	\$0.00	\$67.56
6	60.00	\$43.28	\$11.51	\$17.20	\$0.00	\$0.00	\$71.99
7	65.00	\$46.89	\$11.51	\$18.03	\$0.00	\$0.00	\$76.43
8	70.00	\$50.50	\$11.51	\$18.85	\$0.00	\$0.00	\$80.86
9	75.00	\$54.11	\$11.51	\$19.67	\$0.00	\$0.00	\$85.29
10	80.00	\$57.71	\$11.51	\$20.50	\$0.00	\$0.00	\$89.72

**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>
STEAM BOILER OPERATOR	6/1/2025	\$57.68	\$15.55	\$13.25	\$3.25	\$0.00	\$89.73
OPERATING ENGINEERS LOCAL 4	12/1/2025	\$59.12	\$15.55	\$13.25	\$3.25	\$0.00	\$91.17
OPERATING ENGINEERS LOCAL 4	6/1/2026	\$60.40	\$15.55	\$13.25	\$3.25	\$0.00	\$92.45
	12/1/2026	\$61.84	\$15.55	\$13.25	\$3.25	\$0.00	\$93.89

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

TAMPERS, SELF-PROPELLED OR TRACTOR DRAWN	6/1/2025	\$57.68	\$15.55	\$13.25	\$3.25	\$0.00	\$89.73
OPERATING ENGINEERS LOCAL 4	12/1/2025	\$59.12	\$15.55	\$13.25	\$3.25	\$0.00	\$91.17
OPERATING ENGINEERS LOCAL 4	6/1/2026	\$60.40	\$15.55	\$13.25	\$3.25	\$0.00	\$92.45
	12/1/2026	\$61.84	\$15.55	\$13.25	\$3.25	\$0.00	\$93.89

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

TELECOMMUNICATION TECHNICIAN	3/1/2025	\$51.41	\$13.00	\$13.92	\$6.98	\$0.00	\$85.31
ELECTRICIANS LOCAL 103	9/1/2025	\$52.94	\$13.00	\$13.97	\$6.98	\$0.00	\$86.89
ELECTRICIANS LOCAL 103	3/1/2026	\$53.90	\$13.00	\$14.00	\$6.98	\$0.00	\$87.88
	9/1/2026	\$55.42	\$13.00	\$14.04	\$6.98	\$0.00	\$89.44
	3/1/2027	\$56.38	\$13.00	\$14.07	\$6.98	\$0.00	\$90.43
	9/1/2027	\$57.91	\$13.00	\$14.12	\$6.98	\$0.00	\$92.01
	3/1/2028	\$58.87	\$13.00	\$14.15	\$6.98	\$0.00	\$93.00

**Apprentice: TELECOMMUNICATION TECHNICIAN****Effective Date: 3/1/2025**

<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	\$23.13	\$13.00	\$0.69	\$0.00	\$0.00	\$36.82
2	45.00	\$23.13	\$13.00	\$0.69	\$0.00	\$0.00	\$36.82
3	50.00	\$25.71	\$13.00	\$13.15	\$3.49	\$0.00	\$55.35
4	50.00	\$25.71	\$13.00	\$13.15	\$3.49	\$0.00	\$55.35
5	55.00	\$28.28	\$13.00	\$13.23	\$3.84	\$0.00	\$58.35
6	60.00	\$30.85	\$13.00	\$13.31	\$4.19	\$0.00	\$61.35
7	65.00	\$33.42	\$13.00	\$13.38	\$4.54	\$0.00	\$64.34
8	70.00	\$35.99	\$13.00	\$13.46	\$4.89	\$0.00	\$67.34
9	75.00	\$38.56	\$13.00	\$13.54	\$5.24	\$0.00	\$70.34
10	80.00	\$41.13	\$13.00	\$13.61	\$5.58	\$0.00	\$73.32

**Apprentice: TELECOMMUNICATION TECHNICIAN****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	45.00	\$23.82	\$13.00	\$0.71	\$0.00	\$0.00	\$37.53
2	45.00	\$23.82	\$13.00	\$0.71	\$0.00	\$0.00	\$37.53
3	50.00	\$26.47	\$13.00	\$13.17	\$3.49	\$0.00	\$56.13
4	50.00	\$26.47	\$13.00	\$13.17	\$3.49	\$0.00	\$56.13
5	55.00	\$29.12	\$13.00	\$13.25	\$3.84	\$0.00	\$59.21
6	60.00	\$31.76	\$13.00	\$13.33	\$4.19	\$0.00	\$62.28
7	65.00	\$34.41	\$13.00	\$13.41	\$4.54	\$0.00	\$65.36
8	70.00	\$37.06	\$13.00	\$13.49	\$4.89	\$0.00	\$68.44

**Construction**

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
<b>Apprentice: TELECOMMUNICATION TECHNICIAN</b>							
<b>Effective Date: 9/1/2025</b>							
Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
9	75.00	\$39.71	\$13.00	\$13.57	\$5.24	\$0.00	\$71.52
10	80.00	\$42.35	\$13.00	\$13.65	\$5.58	\$0.00	\$74.58
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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 - MARBLE & TILE	2/1/2026	\$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
<hr/>							
<b>Apprentice: TERRAZZO FINISHERS</b>							
<b>Effective Date: 2/1/2025</b>							
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
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<b>Apprentice: TERRAZZO FINISHERS</b>							
<b>Effective Date: 8/1/2025</b>							
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
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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"							

**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>
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"							
TRACTORS/PORTABLE STEAM GENERATORS	6/1/2025	\$57.68	\$15.55	\$13.25	\$3.25	\$0.00	\$89.73
OPERATING ENGINEERS LOCAL 4	12/1/2025	\$59.12	\$15.55	\$13.25	\$3.25	\$0.00	\$91.17
OPERATING ENGINEERS LOCAL 4	6/1/2026	\$60.40	\$15.55	\$13.25	\$3.25	\$0.00	\$92.45
	12/1/2026	\$61.84	\$15.55	\$13.25	\$3.25	\$0.00	\$93.89
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
TRAILERS FOR EARTH MOVING EQUIPMENT	6/1/2025	\$42.92	\$14.91	\$20.17	\$0.00	\$0.00	\$78.00
TEAMSTERS JOINT COUNCIL NO. 10	8/1/2025	\$42.92	\$15.41	\$20.17	\$0.00	\$0.00	\$78.50
TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	12/1/2025	\$42.92	\$15.41	\$21.78	\$0.00	\$0.00	\$80.11
	6/1/2026	\$43.92	\$15.41	\$21.78	\$0.00	\$0.00	\$81.11
	8/1/2026	\$43.92	\$15.91	\$21.78	\$0.00	\$0.00	\$81.61
	12/1/2026	\$43.92	\$15.91	\$23.52	\$0.00	\$0.00	\$83.35
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"							
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
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	6/1/2025	\$52.00	\$9.90	\$9.25	\$10.25	\$0.00	\$81.40
LABORERS	12/1/2025	\$53.50	\$9.90	\$9.25	\$10.25	\$0.00	\$82.90
LABORERS (FREE AIR TUNNEL)	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)	6/1/2025	\$54.00	\$9.90	\$9.25	\$10.25	\$0.00	\$83.40
LABORERS	12/1/2025	\$55.50	\$9.90	\$9.25	\$10.25	\$0.00	\$84.90
LABORERS (FREE AIR TUNNEL)	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	\$42.34	\$14.91	\$20.17	\$0.00	\$0.00	\$77.42
TEAMSTERS JOINT COUNCIL NO. 10	8/1/2025	\$42.34	\$15.41	\$20.17	\$0.00	\$0.00	\$77.92
TEAMSTERS JOINT COUNCIL NO. 10 ZONE A	12/1/2025	\$42.34	\$15.41	\$21.78	\$0.00	\$0.00	\$79.53
	6/1/2026	\$43.34	\$15.41	\$21.78	\$0.00	\$0.00	\$80.53
	8/1/2026	\$43.34	\$15.91	\$21.78	\$0.00	\$0.00	\$81.03
	12/1/2026	\$43.34	\$15.91	\$23.52	\$0.00	\$0.00	\$82.77

**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>
WAGON DRILL OPERATOR	6/1/2025	\$47.85	\$9.90	\$9.25	\$9.65	\$0.00	\$76.65
LABORERS	12/1/2025	\$49.35	\$9.90	\$9.25	\$9.65	\$0.00	\$78.15
LABORERS - ZONE 1	6/1/2026	\$50.90	\$9.90	\$9.25	\$9.65	\$0.00	\$79.70
	12/1/2026	\$52.40	\$9.90	\$9.25	\$9.65	\$0.00	\$81.20
	6/1/2027	\$54.00	\$9.90	\$9.25	\$9.65	\$0.00	\$82.80
	12/1/2027	\$55.60	\$9.90	\$9.25	\$9.65	\$0.00	\$84.40
	6/1/2028	\$57.28	\$9.90	\$9.25	\$9.65	\$0.00	\$86.08
	12/1/2028	\$58.95	\$9.90	\$9.25	\$9.65	\$0.00	\$87.75

For apprentice rates see "Apprentice- LABORER"

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WAGON DRILL OPERATOR (HEAVY & HIGHWAY)	6/1/2025	\$47.95	\$9.90	\$9.25	\$9.65	\$0.00	\$76.75
LABORERS	12/1/2025	\$49.45	\$9.90	\$9.25	\$9.65	\$0.00	\$78.25
LABORERS - ZONE 1 (HEAVY & HIGHWAY)	6/1/2026	\$51.00	\$9.90	\$9.25	\$9.65	\$0.00	\$79.80
	12/1/2026	\$52.50	\$9.90	\$9.25	\$9.65	\$0.00	\$81.30

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

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WASTE WATER PUMP OPERATOR	6/1/2025	\$58.33	\$15.55	\$13.25	\$3.25	\$0.00	\$90.38
OPERATING ENGINEERS LOCAL 4	12/1/2025	\$59.78	\$15.55	\$13.25	\$3.25	\$0.00	\$91.83
OPERATING ENGINEERS LOCAL 4	6/1/2026	\$61.08	\$15.55	\$13.25	\$3.25	\$0.00	\$93.13
	12/1/2026	\$62.53	\$15.55	\$13.25	\$3.25	\$0.00	\$94.58

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

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WATER METER INSTALLER	3/2/2025	\$69.84	\$14.32	\$12.31	\$8.00	\$0.00	\$104.47
PLUMBERS & GASFITTERS LOCAL 12							
PLUMBERS & GASFITTERS LOCAL 12							

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

**Marine Drilling**

<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>
BLASTER MARINE DRILLING MARINE DRILLING	1/1/2018	\$41.82	\$7.63	\$2.35	\$1.25	\$0.00	\$53.05
BOAT CAPTAIN MARINE DRILLING MARINE DRILLING	1/1/2018	\$33.87	\$7.63	\$2.35	\$0.95	\$0.00	\$44.80
BOAT CAPTAIN / Over 1,000 hp MARINE DRILLING MARINE DRILLING	1/1/2018	\$38.06	\$7.63	\$2.35	\$1.25	\$0.00	\$49.29
CORE DRILLER MARINE DRILLING MARINE DRILLING	1/1/2018	\$31.43	\$7.63	\$2.25	\$0.65	\$0.00	\$41.96
CORE DRILLER HELPER MARINE DRILLING MARINE DRILLING	1/1/2018	\$28.47	\$7.63	\$2.35	\$0.65	\$0.00	\$39.10
DRILLER MARINE DRILLING MARINE DRILLING	1/1/2018	\$39.70	\$7.63	\$2.35	\$1.25	\$0.00	\$50.93
ENGINEER MARINE DRILLING MARINE DRILLING	1/1/2018	\$39.69	\$7.63	\$2.25	\$1.25	\$0.00	\$50.82
HELPER MARINE DRILLING MARINE DRILLING	1/1/2018	\$34.24	\$7.63	\$2.35	\$0.65	\$0.00	\$44.87
MACHINIST MARINE DRILLING MARINE DRILLING	1/1/2018	\$38.88	\$7.63	\$2.35	\$0.95	\$0.00	\$49.81
OILER - MARINE DRILLING MARINE DRILLING MARINE DRILLING	1/1/2018	\$34.24	\$7.63	\$2.35	\$0.65	\$0.00	\$44.87
TUG DECKHAND MARINE DRILLING MARINE DRILLING	1/1/2018	\$27.61	\$7.63	\$2.35	\$0.65	\$0.00	\$38.24
WELDER MARINE DRILLING MARINE DRILLING	1/1/2018	\$38.88	\$7.63	\$2.35	\$0.95	\$0.00	\$49.81

**Op Eng Marine (Dredging Work)**

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

**Additional Apprentice Information**

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

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

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

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DOCUMENT A00801

**SPECIAL PROVISIONS****DISTRICT 4****Scheduled And Emergency Deck and Joint Repairs at Various Locations**

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 consists of scheduled and emergency bridge deck repairs, including repairs to the deck slabs, deck joints, sidewalks, and approach slabs, under the control of District 4 at various locations. The work will include, the following, and other work as required by the Engineer:

- 1.) Partial depth and/or full depth excavation of the existing reinforced cement concrete decks where deterioration has occurred.
- 2.) Excavation of deteriorated concrete adjacent to joints.
- 3.) Replacement of the excavated concrete with either a rapid setting low permeability concrete, or a rapid hardening cementitious product for concrete repairs as specified by the Engineer.
- 4.) Installation, repair, or replacement of bridge joints.
- 5.) Removal and replacement of the existing HMA wearing surface at the approaches and on the deck.
- 6.) Repairs to timber decks, timber superstructures, timber curbs, etc., as required by the Engineer.
- 7.) Miscellaneous repairs to various bridge appurtenances.
- 8.) Related traffic management.

Where work is directed by the Engineer and is not in the list of bid items, the Contractor will be paid under Non-Bid Items and Item 100.1 Base Labor Rate (Time and Materials).

All work shall be performed within, and accessed by, existing State, City or Town roadway layouts. No rights to enter on or occupy private property have been acquired for this project.

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**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.

**RAILROAD INSURANCE REQUIREMENTS**

*(Supplementing Subsection 7.05)*

Railroad insurance will be in accordance with Subsection 7.05 of the Standard Specifications and the following:

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

Since the locations of bridges involving railroads are unknown, the Contractor will not be required to submit railroad insurance prior to execution of the Contract.

Upon assignment of a work order which requires railroad insurance, the Contractor shall submit to the Engineer all statements/estimates from a licensed insurer, which will meet the insurance requirements of the affected railroad. The Contractor should be aware that each railroad has its own specified minimum insurance requirements.

After determination of the necessity and amount of the proposed insurance required by the affected railroad, the Contractor will be given a written notice to proceed with the acquisition of the insurance.

After acquisition of insurance, the Contractor shall submit the railroad insurance information to the MassDOT in accordance with Subsection 7.05 of the Standard Specifications. The Contractor shall submit the railroad insurance amount as well as railroad license and review fees to the Department for reimbursement. The Contractor will be reimbursed for the insurance premium upon submittal of paid receipts.

If the Contractor is unable to secure said railroad insurance or is uninsurable, the Engineer may decide to cancel all future obligations and terminate the contract.

Following is the list (but not limited) of the railroad companies that operate railroad in the District at various locations:

**RAILROAD INSURANCE REQUIREMENTS** (Continued)**RAILROAD CONTACT INFORMATION**

CSX  
1 Bell Crossing Road  
Selkirk, NY 12158  
Attn: John Heigel  
(518) 767 – 6373

CSX –Flagger  
4 Neshaminy Interplex  
Suite 205  
Trevose, PA 19053  
Derek S. Mihaly  
Office: 215-218-3391  
[derek\\_mihaly@csx.com](mailto:derek_mihaly@csx.com)

AMTRAK, Contractor Safety\*\*  
30th & Market Street  
Philadelphia, PA 1904  
Attn: Dawn Bey  
(215) 349-1553

AMTRAK Flagging

MBTA  
100 Summer Street - Suite 1200  
Boston, MA 02110  
Christine Bresnahan  
(617) 222-3361  
[CBresnahan@mbta.com](mailto:CBresnahan@mbta.com)

\*\*Note: Prior to the start of the Contract, the Contractor is required to obtain AMTRAK safety and security certificates for respective personnel that will work on bridges involving AMTRAK rail lines. The cost of the training shall be borne by the Contractor. A copy of the certificates shall be provided to the Engineer. The Contractor shall abide by all AMTRAK and Federal Regulations and requirements when working on AMTRAK property. It should be noted that all workers are required to wear Orange reflectorized vests when working on or near AMTRAK property. No other color safety vest shall be used.

Contractors shall have their field staff properly ROW trained with valid ROW training cards to be allowed access to enter upon RR Property when necessary. If directed by the Engineer, the Contractor shall have crews trained for MBTA, Keolis, and Amtrak ROW immediately upon NTP.

If directed by the Engineer, the Contractor shall begin the application process for Right of Entry/License Agreements for railroad entities designated by the Engineer. Such agreements are for providing a timely response to emergency work orders. The Contractor shall obtain additional site-specific access agreements for the follow up scheduled repair.

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## **LOCATION OF WORK**

Work under this contract may include any bridges, viaducts, tunnels, and approach ramps within District 4 as assigned by the Engineer. The following web link provides the cities and towns under the jurisdiction of District 4:

<https://www.mass.gov/service-details/find-your-highway-district-office>

Select the district and click “Submit” button.

No work shall be performed under this contract until specifically authorized and directed by the Engineer. Furthermore, this Contract does not assign to the Contractor complete maintenance of the bridges owned by the Department. The Department reserves the right to perform such work as it deems best with its own forces, and/or to enter into special contracts for the maintenance of specific items.

## **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 number and municipality is to be placed in the subject line.

## **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.

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**HOLIDAY WORK RESTRICTIONS** (Continued)**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.

**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.

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**SOIL STOCKPILING DIRECTIVE P-22-001**

Any stockpiling of soil must be performed in compliance with Policy Directive P-22-001, Off-Site Stockpiling of Soil from MassDOT Construction Projects. This directive limits the allowable locations for off-site stockpiling of soil generated during MassDOT projects and includes various requirements that must be satisfied by the contractor prior to off-site stockpiling. The Contractor is responsible for identifying a suitable stockpile location.

**SUBSECTION 8.02 SCHEDULE OF OPERATIONS**

Replace this subsection with the following:

An integrated cost and schedule controls program shall be implemented by the Contractor to track and document the progress of the Work from Notice to Proceed (NTP) through the Contractor Field Completion (CFC) Milestone. The Contractor's schedules will be used by the Engineer to monitor project progress, plan the level-of-effort required by the Department's work force and consultants and as a critical decision-making tool. Accordingly, the Contractor shall ensure that it complies fully with the requirements specified herein and that its schedules are both accurate and updated as required by the specification throughout the life of the project. Detailed requirements are provided in Division II, Section 722 Construction Scheduling.

**TRUCK SAFETY DEVICES**

(Supplementing Subsection 7.04: Motor Vehicles)

All motor vehicles subject to Section 7 of Chapter 90 to be operated under this Contract shall be equipped with safety devices as provided therein and in 540 CMR 4.00.

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.

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## **SCHEDULE OF WORK**

All proposed work hours shall conform to Subsection 7.09 of the Standard Specifications and be subject to the written approval of the Engineer.

For specific locations, allowable work hours will be determined by the District Highway Director or designated representative. On high volume and/or high-speed roadways, work may be restricted to non-peak hours or night work as required by the Engineer to avoid peak traffic volumes and to maintain safety and productivity.

### **Night Time Work**

All work locations requiring night hours, as approved by the Engineer, are restricted as follows:

Sunday: 8:30 PM to 5:00 AM Monday  
Monday: 8:30 PM to 5:00 AM Tuesday  
Tuesday: 8:30 PM to 5:00 AM Wednesday  
Wednesday: 8:30 PM to 5:00 AM Thursday  
Thursday: 8:30 PM to 5:00 AM Friday

Work may not proceed beyond the normal 8-hour day unless prior approval is obtained from the Engineer for that day. Approval to work beyond the scheduled work will only be given when special conditions exist that warrant working beyond the scheduled work, as determined by the Engineer.

The Contractor may schedule night shifts longer than 8-hours with prior approval by the Engineer. No additional compensation will be made for work scheduled during nighttime or longer working hours.

No entrance or exit ramp shall be closed to traffic except between the hours of 8:00 PM and 5:00 AM the following day or as directed. The Contractor shall be required to schedule the work activities such that not more than one ramp shall be closed during any given work period.

These time periods include the "set-up" and "breakdown" of the traffic pattern employed. No operations, personnel, or equipment will be allowed on the roadways except during working hours.

The work hour restrictions do not apply to emergency conditions, as determined by the Engineer.

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## **CONTRACTOR NOTIFICATION**

Contractor notification and response will be classified into three categories as follows:

### **1. EMERGENCY REPAIR:**

An Emergency Repair is defined as the work required to repair failed bridge elements, which is of an EMERGENCY NATURE and requires IMMEDIATE ATTENTION, as determined by the Engineer. The Contractor will be required to commence an Emergency Repair within four (4) hours after notification by the Department, unless otherwise directed. The nature of the Emergency work will require the Contractor to be available 24 hours per day. In addition to required construction Items, payment for any Emergency Repair Work performed will be paid under Item 748.1 Emergency Response. Emergency Repairs may be initiated verbally due to the need for immediate action but will be followed up by a Work Order assignment in the work order management system soon after.

### **2. PRIORITY REPAIR:**

A Priority Repair is defined as work required to repair failed bridge elements, which is not of an Emergency nature; however, needs to be completed in a timely manner to prevent further deterioration or to meet the need of other constraints. The Contractor will be required to commence a Priority Repair within seven (7) calendar days after notification by the Department, unless otherwise directed. Priority Repairs will be initiated, and Work Orders assigned using the work order management system.

### **3. SCHEDULED REPAIR:**

A Scheduled Repair is not considered to be of an Emergency nature and has no priority over other repairs. The Contractor will be required to commence scheduled work within thirty (30) calendar days after notification by the Department, unless otherwise directed. The Contractor shall immediately notify the Engineer if unable to begin physical work within thirty (30) calendar days and provide an explanation for the delay. Scheduled repairs will be initiated and Work Orders assigned using the work order management system.

The Contractor will be notified of all Work Orders through the work order management system except for Emergency repairs which may first be assigned verbally with a follow up assignment through the work order management system. The Work Order will identify the location of the work, the category of work (Emergency, Scheduled or Priority), and identify the major items required for the work. The date from which potential non-response damages will be assessed for each work order will be based on the date the work order is assigned in the work order management system to the date the Contractor begins Physical Work.

For a Priority or Scheduled Repair, the Contractor must submit a work schedule and estimate for the Engineer's review and approval within seven (7) calendar days of issuance of the work order. The Contractor's schedule and estimate shall provide information relating to equipment, materials, anticipated work hours, labor availability, itemized estimated value of the repairs, a breakdown of major components of the work (i.e. staging installation, concrete work, etc.) and estimated start and completion dates.

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**CONTRACTOR NOTIFICATION** (Continued)

“Physical Work” shall be defined as “physical implementation of the required repair at the bridge site”. In no case will Physical Work include any of the following: ordering materials, fabrication of materials, organizing labor forces, coordinating with subcontractors, installing means of access and/or traffic control to implement the required repairs, installing temporary works, or other operations needed to be performed in advance of the required repairs.

This Contract contains both Emergency response mobilization payment items for Emergency Repair work, and Non-Response damages to ensure prompt action by the Contractor.

The ability to assign Emergency Repair work, if required, shall take effect as soon as this Contract is executed.

The Contractor shall have the appropriate communication capabilities that will allow the Department to notify the Contractor of an Emergency Repair on a twenty-four hour (24) per day basis.

The Contractor shall supply the District 4 Highway Director with a list of telephone numbers for personnel who can be contacted twenty-four (24) hours a day in case of an emergency.

**NON-RESPONSE DAMAGES**

It is the intent of this provision to ensure prompt response to Work Orders based on priority. These Non-Response Damages may be waived by MassDOT when, in the opinion of the Engineer, it is in the best interest of MassDOT to do so.

If the Contractor has not met the complexity milestones as outlined in the Work Order, a notification will be sent to the Contractor regarding Non-Responses Damages that will be assessed. The Engineer shall assess damages in the amount of \$1,000 per day (or portion thereof) for each day beyond the milestone due date that the milestone is not met.

Emergency Repairs: If the Contractor has not started Physical Work on an assigned Emergency Repair within four (4) hours from the receipt of the notification, payment under Item 748.1 will only be made at the discretion of the Engineer. Furthermore, the Contractor will be assessed damages in the amount of \$1,000 per hour for each hour Physical Work is delayed.

**Priority Repairs (assuming 7 days)**

The Contractor shall commence priority work within 7 days after an assignment is issued by the Department, unless otherwise directed. If the Contractor has not started Physical Work on an assignment within 7 days, the Department will notify the Contractor in writing of the intent to issue damages. Damages will begin five (5) days after written notification to the Contractor. The Engineer will assess damages in the amount of \$1,000 per day for each day (or portion thereof) that the Work is delayed.

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**NON-RESPONSE DAMAGES** (Continued)**Scheduled Repairs (assuming 30 days)**

The Contractor shall commence scheduled work within 30 days after an assignment is issued by the Department, unless otherwise directed. If the Contractor has not started Physical Work on an assignment within 30 days, the Department will notify the Contractor in writing of the intent to issue damages. Damages will begin five (5) days after written notification to the Contractor. The Engineer will assess damages in the amount of \$1,000 per day for each day (or portion thereof) that the Work is delayed.

“Physical Work” shall refer to physical implementation of the required repair at the bridge site. For repairs with no additional complexities as identified in this chart time to start of Physical Work will be measured from the issuance of the work order. In no case will Physical Work include any of the following: ordering materials, fabrication of materials, organizing labor forces, coordinating with subcontractors, installing means of access and/or traffic control to implement the required repairs, installing temporary works, or other operations needed to be performed in advance of the required repairs.

If the Contractor has not submitted a work schedule or estimate for the Engineer’s review and approval on a Priority or Scheduled Repair within seven (7) calendar days after issuance of the Work Order, the Contractor will be subject to non-response damages in the amount \$500 per day.

In addition, the Engineer shall consider such delays in evaluating the Contractor’s performance.

**CONTRACTOR ACCESS**

Contractors shall be aware that there are multi-span bridges with piers located away from the road and or near rivers and streams. No separate payment will be made for access roads to get equipment or personnel to the work site, for staging access to repair areas, etc., but all costs in connection therewith shall be included in the Contract.

**FORMWORK AND SITEWORK**

The temporary formwork used for concrete placement, shall be removed, and disposed of by the Contractor. Any formwork that is not removed within forty-five (45) days after the concrete placement and is reported by Bridge Inspection or other MassDOT personnel will impose a damage of \$500.00 for each form location (On one bridge there may be multiple locations). Payment for removal of concrete forms shall be included in the unit price under the applicable item.

The Contractor is required to broom and clean all work site areas after the removal of excavated debris, regardless of the pre-existing conditions. These include areas excavated under joints such as pier caps, and revetment areas. This removal of debris is incidental to the contract with no additional compensation.

## **ASBESTOS CONCERNS – ASBESTOS LIABILITY INSURANCE**

Asbestos may be present on bridges in forms including but not limited to asbestos cement utility conduit, pipe insulation, pipe wrap, and/or gunite/shotcrete. The contractor shall identify potential asbestos-containing material (ACM) that may be impacted as part of the contract work. If ACM or potential ACM will be physically impacted, the contractor shall communicate this information to the Engineer, District Environmental Engineer (DEE), receive approval prior to beginning work, and conduct all work in accordance with applicable federal, state, and local regulations. The work will be paid under Non-Bid items and Item 100.1 as required by the Engineer. No Assignment of work will be allowed without the approval of the Engineer.

Upon assignment of a work order, if asbestos-containing material is anticipated to be encountered, prior to any testing or removal of asbestos, Asbestos Liability Insurance shall be obtained for this project in accordance with Subsection 7.05 of the Standard Specifications. The Contractor and the Massachusetts Department of Transportation shall be named as additional insureds. Costs will be reimbursed to the Contractor.

All new construction materials shall be asbestos-free including any roofing felt, waterproofing materials, grout, sealer, or adhesives that may be used unless asbestos is specifically required.

Aging bridges are considered suspect sources for gunite (asbestos) in concrete construction. For any bridges targeted for concrete repair/replacement, the following table is a list of Bridges within District 4 that have been documented to contain gunite.

For any bridges targeted for concrete repair/replacement, please cross reference to the list of bridges identified in the referenced table, as well as any recent bridge inspection reports. If the bridge is included on this list or otherwise suspected to contain gunite, please confirm the content of the bridge concrete by collecting and analyzing a sample.

Table 1: Suspected bridges Containing Gunite in District 4

<b>TOWN</b>	<b>BRIDGE ID</b>	<b>LOCATION/FACILITY CARRIED</b>	<b>FEATURED INTERSECTION</b>
Bedford	B-04-001	Rte. 4 – Great Road	Shawsheen River
Dracut	D-11-003	Lakeview Ave.	Beaver Brook
Gloucester	G-05-004	Rte. 127 – Washington St.	Goose Cove
Haverhill	H-12-011	Rte. 97 – Winter St.	Little River
Ipswich	I-01-005	County Rd.	Ipswich River
Lawrence	L-04-004	Union St.	North Canal
Lawrence	L-04-006	Rte. 28 – Broadway	North Canal
Lawrence	L-04-008	Daisy St.	Spicket River
Lawrence	L-04-011	Lawrence St.	Spicket River
Lawrence	L-04-026	Rte. 28 – South Broadway	South Canal
Lowell	L-15-022	School St.	Northern Canal
Lowell	L-15-031	Lawrence St.	Concord River
Lowell	L-15-045	Market St.	Western Canal
Methuen	M-17-001	Rte. 28 – Broadway	Spicket River
Middleton	M-20-003	Rte. 62 – Maple St.	Ipswich River

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**PIGEON WASTE**

The Contractor shall remove and dispose of the pigeon waste and any other debris accumulated on the steel members and bridge seats in areas where work is being performed. Pigeon waste and debris material contaminants will require special handling and disposal in accordance with all Federal, state, and local requirements. No separate payment will be made for removal and disposal of pigeon waste. Cost shall be incidental to the contract pay items.

**CONTRACTOR ACTIVITY ADJACENT TO WETLANDS**

The Contractor shall not stockpile material or equipment, perform maintenance, or refuel equipment in a wetland area, within 100 feet of a wetland, or within 200 feet of a river, stream, pond, or other similar open body of water.

**TREATED WOOD PRODUCTS**

The presence of potential treated wood products is unknown, but in the event that an assignment calls for the disposal of portions of treated timber, the Contractor shall dispose of the materials in accordance with all applicable state and federal regulations at a licensed facility. The Contractor shall submit manifests and/or certificates of disposal to the Engineer prior to the completion of the contract. All work in conjunction with the proper testing, loading, transportation, and all incidental costs required for legal disposal of treated wood products will be paid under Non-Bid Items and Item 100.1 Base Labor Rate when needed and as required by the Engineer.

All new treated wood shall meet the requirements of M9.05.1 for Wood Products, including the most recent versions of AWWA UI and M4 which are incorporated by reference. No new wood shall be treated with inorganic arsenic [including chromated copper arsenate (CCA), ammoniacal copper arsenate (ACA), and ammoniacal copper zinc arsenate (ACZA)], creosote, or pentachlorophenol in all project construction, including all guardrail and timber check dam components.

**2026 FIFA WORLD CUP – BOSTON, MASSACHUSETTS**

The 2026 FIFA World Cup will be held at Gillette Stadium in Foxborough and related events will be held throughout the region. Matches and Fan Fest activities are scheduled from June 11, 2026 through July 19, 2026. MassDOT will impose work restrictions as necessary to minimize traffic impacts during FIFA events when the Contractor's operations could impact vehicular traffic, particularly on interstate highways and major arterials throughout the region and local roads near the event site. No additional compensation will be allowed for work restrictions except as determined under Subsection 8.10

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**TRAFFIC OFFICERS AND RAILROAD FLAGGING SERVICE**

(Supplementing Subsection 7.11)

Under the provisions of Chapter 634 of the Acts of 1971, the railroad (excluding MBTA) shall furnish, without cost, the necessary flag protection on the railroad right-of-way which may be required for the performance of the work. For MBTA railroad, MassDOT will pay the Contractor for flagging costs in accordance with the procedure described in Subsection 7.11.

For non-Chapter 634 bridges MassDOT will pay the Contractor for flagging costs in accordance with the procedure described in Subsection 7.11.

The Contractor, however, is responsible for all costs incurred in restoring tracks that have been disturbed by the Contractor's operations. Contractor shall comply with the requirements of the Railroad Special Provisions.

**MBTA FLAGGING**

The Contractor shall provide a minimum two week notice for flagging support for MBTA bridges and railroads. This applies only to bridges and railroads operated by Keolis Commuter Services (KCS). This two week notice does not apply to emergency work, only to routine or scheduled work activities. The contact person for advance request for flagging services is Rich Arnold, MBTA Railroad Operations Department, Phone number (617)-222-3635, email address: rarnold@mbta.com.

**MBTA COMMUTER RAIL**

Keolis Commuter Service (KCS) operates the commuter rail for the MBTA. All references to MBCR in the provisions will mean Keolis Commuter Service (KCS).

**MBTA RAILROAD COORDINATION / ACCESS TO MBTA PROPERTY**

The Contractor shall be required to coordinate the work of this Contract with the MBTA and Keolis Commuter Services Co. ("KCS") through the MassDOT Resident Engineer and MassDOT designated Field Staff. A majority of the prerequisites for the Contractor to perform work on or adjacent to MBTA transit lines may be found in the "MBTA Special Instructions" provided herein. The Contractor shall be required to comply with the all applicable requirements of the latest edition of the MBTA Special Instructions available at the time of Contract Award.

The Contractor will have to perform construction related activities on, over, under, within or adjacent to railroad property owned or controlled by the MBTA. Any work that will affect Commuter Rail operations, involve work on, over, under, within or adjacent to the commuter rail right of way must be coordinated with MBTA Railroad Operations and KCS and shall comply with the latest version of the MBTA Railroad Operations Directorate.

An owner or Contractor who wishes permission to enter upon or perform work over, on, under or adjacent to MBTA property shall submit to the offices of the MBTA's designated representative, a request in writing, a minimum of forty-two (42) days prior to the owner or the Contractor's planned commencement of any of the above stated activities.

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**MBTA COORDINATION – SUBSTITUTE BUSING**

Substitute bus transportation will be required for weekend MBTA Commuter Rail shutdowns. The Contractor must coordinate with MBTA Operations Department for provision of bus service. The Contractor shall contact MBTA Operations Dept. a minimum of 6 weeks prior to any planned rail shutdown. The MBTA will be responsible for planning, procuring, and administering the necessary substitute bus transportation services and operations based on the Contractor's approved work schedule.

**Prime Contact:**

Eric Ciborowski

32 Cobble Hill Road

Somerville, MA 02143

617-634-2567

[ECIBOROWSKI@MBTA.com](mailto:ECIBOROWSKI@MBTA.com)**Secondary Contact:**

Delrico Gomes

32 Cobble Hill Road

Somerville, MA 02143

857-366-0404

[DGOMES@MBTA.COM](mailto:DGOMES@MBTA.COM)

The Contractor shall be required to attend the MBTA Weekly Track Outage Schedule Coordination Meetings held Wednesdays at 10:00 am at 32 Cobble Hill Road in the small classroom located in the training area at the rear of the building.

**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.

**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 either a traffic level 2 (0.3-10.0) million 18-kip (80-kn) ESALs or a traffic level 3 ( $\geq 10.0$ ) million 18 kip ESALS as directed by the Engineer. Contractor will be provided with traffic information for the design mix at each location where Work Order is being requested.

**PREPARATION OF CONCRETE SURFACES:**

All concrete surfaces to be patched shall be roughened, cleaned of all laitance, dirt, grease, oil, other contaminants, and all standing water. All reinforcing steel encountered in the excavation shall be thoroughly cleaned by abrasive blasting before being covered with new concrete.

With approval of the Engineer, the Contractor may choose one of the following surface preparation methods. In bonding new concrete to already set concrete the surface of the concrete shall be thoroughly cleaned and roughened then:

A) Wetted with clean water and then flushed with a mortar composed of equal parts of the cement and sand specified for the new concrete, before new concrete is placed adjacent thereto. New concrete shall be placed before mortar has taken initial set.

B) Wetted with clean water, and then an epoxy adhesive suitable for bonding fresh concrete to hardened concrete for load bearing applications may be used. The epoxy adhesive shall conform to AASHTO M 235M/M 235 Type V and shall be applied in accordance with the manufacturer's recommendations.

C) Ponded with clean water to achieve Saturated Surface Dry (SSD) condition then it shall be blown off with oil free compressed air.

**CONCRETE FINISHING**

Bridge decks patches that are to be left exposed without bituminous or cement concrete overlays or that are receiving a waterproofing mix without waterproofing membrane shall receive a textured steel raked finish. The deck shall be transversely tined with a metal rake while the concrete is still plastic perpendicular to the centerline of the bridge from. Rake tines shall be spaced less than two (2) inches on center. No un-textured deck surface greater than 6 in. in width shall remain. A minimum clearance of 1 in. shall exist between the texturing and the end of deck or edge of metal bridge deck expansion joint. No overlapping or repeating of texturing in the same location shall be permitted.

**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.

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## **ENVIRONMENTAL REQUIREMENTS**

This heading identifies procedures that shall be followed for bridges over or adjacent to waterways, wetlands, or other bodies of water. Some repairs may be needed in emergency situations where work needs to be performed prior to final permitting.

Work on bridges below the Ordinary High-Water line over non-tidal waterways will usually require Section 404 approval from the Army Corps of Engineers and Section 401 Water Quality Certification from the Department of Environmental Protection.

Repairs to bridges in tidal areas and/or navigable waters may require a Coast Guard Bridge Permit, and consistency review by Coastal Zone Management. Time frames for these bridges typically require 4 months for non-tidal bridge repairs and possibly longer for tidal bridge repairs. For permitting purposes, all proposed construction methods that may be required in, on or above water resources shall be identified by the Contractor. The proposed methods shall be reviewed with the District Environmental Engineer who will coordinate with the Environmental Division the appropriate review of permit applicability.

For emergency repairs, the District Environmental Engineer and/or Environmental Division shall be notified immediately for further guidance on obtaining appropriate approvals.

Where repairs or reconstruction will not involve work in any waterways, wetlands or other bodies of water, erosion and siltation controls shall be implemented to ensure that construction activity does not result in siltation of the adjacent water resources. This work, when needed, will be paid under Non-Bid Items and Item 100.1 (Base Labor Rate) as required by the Engineer. Regardless of exemptions from regulations, Enforcement Actions and/or Cease and Desist Orders due to resource damages resulting from construction activity may be invoked at any time.

## **ENVIRONMENTAL PERMITTING**

Environmental permits have not been obtained. 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 4 Highway Director and Resident Engineer in writing at least 60 days prior to desired commencement of the proposed activity. All environmental submittals, including any contact with Local, State, or Federal environmental agencies, must be coordinated through the District 4 Environmental Engineer. The Contractor is expected to fully cooperate with requests for information and provide same in 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 Specifications, the Contractor is reminded that no debris of any type shall be allowed to enter water or wetland resource areas, either temporarily or permanently.

## **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. As there is no Federal nexus (Federal funding or permits) for this project, Section 7 consultation was not required or conducted. However, Section 9 of the ESA prohibits anyone from “taking” or harming an endangered species, and the below language shall be adhered to in order to maintain compliance with the ESA.

If any of the project locations require work within U.S. Army Corps of Engineers (ACOE) jurisdictional wetlands, the ACOE will be the lead federal agency for ESA consultation with the U.S. Fish & Wildlife Service (USFWS). Most consultations for the NLEB take 30 days.

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 & Endangered Species Unit Supervisor (David Paulson, [david.j.paulson@dot.state.ma.us](mailto:david.j.paulson@dot.state.ma.us), 857-262-3378) for questions about project limits, restrictions, or conservation measures.

**The Resident Engineer can check on the status of AMM applicability by sending a locus map of the proposed work to MassDOT Highway Division’s Environmental Services Section - Wildlife & Endangered Species Unit Supervisor for review and a determination if some of the AMMs and TOY restriction can be waived.**

### **Required AMM for all projects:**

- 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 Bat 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.

**If temporary lighting is proposed within the project scope, the following AMM is applicable:**

### **Lighting AMM:**

- Direct temporary lighting away from suitable habitat during the active season: **April 15 to October 31.**

**If the Removal of Trees and/or Woody Vegetation >3-inch in diameter is proposed within the project scope, the following AMMs are applicable:**

### **Tree 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).
- In order to protect northern long-eared bats and their young during their active season, **no tree cutting shall be conducted during the Time of Year (TOY) restriction of April 15 to October 31.**
- Do not remove **documented** or NLEB roosts that are still suitable for roosting, or trees within 0.25 miles of roosts, or **documented** foraging habitat any time of year (<http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/species-information-and-conservation/rare-mammals/northern-long-eared-bat.html>).
- The Contractor shall ensure all personnel working in on the project site are aware of all environmental commitments related to NLEB and TCB, including the **TOY** restriction.

**If the Bridge Work is proposed within the project scope, the following AMMs are applicable: Bridge AMMs:**

- **Bridge AMM 1** - To completely avoid direct effects to roosting bats, perform any bridge removal, replacement, and/or maintenance work during the winter hibernation period unless a hibernating colony of bats is present (contact your local USFWS Field Office for exact dates). Also, follow Bridge AMM 4.
  - **Note:** Bridge AMM 1 is an avoidance measure for direct effects; the full implementation of which may  
  
not always be practicable. **If bridge removal, replacement, and/or maintenance work must be performed outside of the winter hibernation period, then follow Bridge AMMs 2-4.**
- **Bridge AMM 2 - Colony or Assuming Presence of Bats**
  - If assuming presence of bats or if bridge assessment or P/A surveys suggest presence of a colony of bats, and work is conducted during the active season, ensure activity will not disturb bats. The following types of bridge work can generally be conducted with the presence of bats:
    - above deck work where construction equipment or materials do not extend to the underside of deck where bats may be located (e.g., materials that may drip down to underside of deck), or does not include percussives (vibration) or noise levels above general traffic (e.g., road line painting, wing-wall work).

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

- below deck work that is conducted away from roosting bats and does not involve percussives or noise level above general traffic (e.g., wing-wall work, some abutment, beam end, scour, or pier repair).
- **Bridge AMM 3 - Small Number of Bats**
  - If bridge assessment or P/A surveys suggest presence of a small number of bats (<5 – not a colony), and work is conducted during the active season, the following types of bridge work can generally be conducted with the presence of bats:
    - above deck work where construction equipment or materials do not extend to the underside of deck where bats may be located (e.g., materials that may drip down to underside of deck), or does not include percussives (vibration) or noise levels above general traffic (e.g., road line painting, wing-wall work).
    - below deck work that is conducted away from roosting bats and does not involve percussives or noise level above general traffic (e.g., wing-wall work, some abutment, beam end, scour, or pier repair).
    - any other bridge removal, replacement, and/or maintenance work (which may include activities with percussives) conducted in the evening while the bats are feeding, starting one hour after sunset, and ending one hour before daylight excluding the hours between 10 p.m. and midnight and keep the light localized.
- **Bridge AMM 4** - If assuming presence of bats, or if bridge assessment or P/A surveys suggest presence of bats, ensure suitable roosting habitat is maintained. Suitable roosting sites may be incorporated into the design of a new bridge.

**NHESP RARE SPECIES**

If any locations are located within rare species habitat as designated by the Massachusetts Natural Heritage and Endangered Species Program (NHESP), coordination will be undertaken by the MassDOT District Environmental Engineer. HQ MassDOT Environmental Services Unit is available to provide support. The Contractor must notify the District Highway Director and Resident Engineer in writing at least 60 days prior to desired commencement of the proposed activity, and coordination with the MassDOT District Environmental Engineer should occur as early as possible. The Contractor shall be responsible for complying with any permit/restrictions/stipulations regarding work in rare species habitat.

**NOTICE TO OWNERS OF UTILITIES***(Supplementing Subsection 7.13)*

District 4 Utility/Constructability Engineer: Ray Stinson, (857) 368 - 4135

[Ray.Stinson@dot.state.ma.us](mailto:Ray.Stinson@dot.state.ma.us)

If available, existing bridge plans indicate the location of the existing known utilities in the vicinity of the work. As the accuracy and completeness of the plans are not guaranteed in any manner, it is the Contractor's responsibility to make their own investigation to assure that no damage to existing structures, drainage lines, traffic signal conduits, etc., will occur.

Written notice shall be given by the Contractor to all public service corporations or officials owning or having charge of publicly or privately owned utilities of the Contractor's intention to commence operations affecting such utilities at least one week in advance of the commencement of such operations and the Contractor shall at that 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

Select the City/Town, and then locate the utility

The utility contact list is for guidance only and is not guaranteed to be complete or up to date.

**NOTIFICATION OF PUBLIC OFFICIALS**

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.

The Contractor shall inform the following officials in each area that he is assigned to work in:

Superintendent, Department of Public Works, or Town Engineer. Superintendent, Water Department, Superintendent, Sewer Departments. Police Department, Fire Department, Electric Company, Railroads.

**NATIONAL GRID EMERGENCY TELEPHONE NUMBERS****GAS:**

Emergency: 1-800-233-5325

New Service: 1- 877-696-4743

Customer Support: 1-800-732-3400

**ELECTRIC:**

Outage/ Emergency: 1-800-465-1212

New Service: 1-800-375-7405

Customer Support: 1-800-322-3223

**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

**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.

**GENERAL REQUIREMENTS FOR DEMOLITION AND  
WORK INVOLVING PAINTED STEEL**

(02/06/2020)

Demolition and work involving painted steel shall conform to the requirements of Subsection 961 of the Standard Specifications.

**Work Involving Painted Steel**

Hazardous materials shall be removed in the immediate area of any intended welding, heating, saw cutting or burning of steel. Hazardous material removal is required to allow the demolition of structural steel, railings, drainage systems, utility supports, steel lamp posts, etc.

The contractor shall assume that the coatings on the steel contain lead (Pb), unless otherwise determined by testing. The contractor shall certify in writing to the Engineer the results of all testing, and shall also certify that any lead (Pb) coated steel removed from the project was not reused or buried, but was sent to a scrap metal recycling facility.

Implement and maintain programs and procedures, which comply with the requirements of this specification and all applicable standards and regulations. Comply with all applicable regulations even if the regulation is not specifically referenced herein. If a state or local regulation is more restrictive than the regulation of this specification, follow the more restrictive requirements.

This requirement is intended only for the demolition and preparation prior to repair and does not include provisions for recoating of steel.

**Environmental**

All applicable portions of Subsections 961.65 “Worker Protection” and 961.66 “Environmental Protection and Monitoring” shall be followed when performing this work.

During chemical stripping a hand washing facility may be used in lieu of a decontamination/changing facility.

Hazardous material shall be collected during the disassembly and disposed of as outlined in Subsection 961.68 “Handling of Hazardous Waste and Reporting Release Programs”.

The applicable submittals shall be according to Subsection 961.69 “Submittals”.

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**GENERAL REQUIREMENTS FOR DEMOLITION AND  
WORK INVOLVING PAINTED STEEL** (Continued)**Cleaning/Removal****Cutting Or Burning Of Steel**

All surfaces to be welded, heated, saw cut or burned shall be cleaned so as to remove all contaminants and/or hazardous materials, which could be discharged to the environment as a function of the subsequent operations.

Lead paint shall be removed in its entirety in an area prescribed by a 6 inch (15 cm) minimum offset from the required work. The paint removal operation may be dry abrasive blasting, wet abrasive blasting or chemical stripping.

Proper level of containment shall be used when performing this work in accordance with Subsection 961.67 "Containment". Full containment is not required during chemical stripping operation however; the Contractor shall install proper shielding and/or tarpaulins under the chemical stripping operations in order to catch all debris generated during this procedure. A cleaned area must be inspected and approved before the demolition operations are started.

During cleaning operations the Contractor shall be required to furnish and erect temporary floodlights illuminating the steel surface at a minimum of 30-foot candles. This lighting shall be used in areas where there is insufficient lighting for proper cleaning operations and inspection. The Contractor shall supply electrical power.

The Contractor shall provide support for interim and final inspection of the bridge during cleaning operations. This support shall include the necessary traffic controls and safe access to the work.

**Mechanical Disassembly Of Steel**

All surfaces to be mechanically disassembled by shear cutting or removing bolts or rivets shall not require deleading. When shear cutting or removing bolts or rivets, the Contractor shall not use any method that will cause dust and/or particles to be emitted and/or dispersed into the environment to an extent that would expose the workers above the Action Levels of  $30\mu\text{g}/\text{m}^3$ .

For purposes of limiting the lead (Pb) dust, the Contractor will be required to dampen the lead paint work areas.

The contractor shall install a proper shielding and/or tarpaulins under all lead-paint-coated surfaces to be shear cut or bolts or rivets ordered removed in order to catch any loose lead paint chips, dust or particles.

## **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.

## **NON-BID ITEMS**

For work not covered by the various bid items in this Contract, it is the intent to pay for such related work on a time and materials basis, as directed by the Engineer. The payment for such work is outlined in the following sections: Payment for Materials, Payment for Rental Equipment, Payment for Engineering Services, Payment for Specialty Services/Additional Artisans.

### **A. PAYMENT FOR MATERIALS**

The Contractor will be paid the actual cost for materials that are required to maintain or repair a bridge but are not covered under the Contract bid Items plus ten (10) percent. Any arrangements for the purchase of materials will be considered incidental. Delivery charges will be incidental to the material charges. State and Federal taxes if billed will not be reimbursed by MassDOT. No materials shall be ordered until approved by the Engineer and competitive prices may be required if the Engineer directs.

The District may have surplus materials on hand that could be included into the work.

The transportation of materials and/or parts supplied by MassDOT will be included for payment under Item 100.1.

Payments for the installation of materials and/or parts will be made under Item 100.1

All materials which are necessary to perform the work under the various contract bid items shall be incidental to those Items at no additional compensation.

### **B. PAYMENT FOR RENTAL EQUIPMENT**

The Contractor will be paid the actual rental cost for the equipment, which may be required to perform certain repair work that has not been included in the contract bid items, plus ten (10) percent. No equipment shall be rented until approved by the Engineer. The rental equipment shall not be part of the tradesman basic toolbox as specified under Item 100.1 Base Labor Rate.

Contractor-owned equipment required under this contract, (with the exception of equipment listed under the various artisans' descriptions in Item 100.1 Base Labor Rate will be paid in the format outlined under Subsection 9.03 "Payment for extra Work" Section C of the Standard Specifications. Rental Equipment will not carry any overtime premium rate after being in full operation for more than 8 hours in a day.

Unless the rented equipment cost includes the operator, the Contractor will receive compensation for the operator of the "Rental Equipment" used for "Related Work" as specified in Item 100.1 Base Labor Rate.

The Contractor must get the authorization of the Resident Engineer before any equipment is rented and competitive prices may be required if the Engineer directs.

All rental equipment and tools shall be in excellent working condition. The Contractor shall not be paid for the time that the equipment is broken down.

The actual cost for rental equipment including equipment that is required when working from water below (i.e., barge equipped with 60' or higher boom lift, boat, operator, and other safety equipment) shall be judged in accordance with the rate specified in the Rental Blue Book and it is the Contractor's responsibility to provide a copy of this Blue Book to the Department.

**NON-BID ITEMS** (Continued)

The rental compensation shall also include the cost of a boat captain/tender crew. The rental for equipment will be paid on an hourly basis and will not carry any overtime rate after eight hours of operation.

All rental equipment and tools which are necessary to prosecute the work under the various contract bid items shall be incidental to those Items at no additional compensation.

**C. PAYMENT FOR ENGINEERING SERVICES**

Each non-routine structural repair for which there is no Contract bid Item to cover the work, the Contractor shall submit a design by a Professional Engineer of the appropriate discipline registered in Massachusetts (who shall be from the Department's approved consultant list) within one week of notification (seven (7) calendar days after receipt of formal Work Order).

This design shall address all structural defects itemized in the Work Order. It shall be submitted to the Engineer and the proper railroad authority (i.e., Amtrak, MBTA. etc.) when applicable. The Contractor must get the proposed design approved by both the Engineer and proper railroad authority (when applicable) prior to commencing any work.

The Contractor will be paid the actual cost for the Engineering Services for the structural design by a Professional Engineer of the appropriate discipline registered in Massachusetts, plus ten (10) percent when any Engineering Services are required for work done on a time and materials basis for which there is no bid Item. The Engineer shall approve all engineering costs prior to any design work being undertaken.

All engineering services which are necessary to prosecute the work under the various Contract bid items shall be incidental to those Items at no additional compensation.

**Engineering Services Cost Estimate**

When engineering designs or other consulting services are deemed necessary by the Engineer, the design firm will submit a cost estimate of the proposed work. This estimate will include the classification, estimated hours needed, and actual hourly rate for each individual anticipated to be used in developing the finished product. The billable rates shall include overhead and profit. Overhead shall be as approved by MassDOT Audit Section or in absence of approved audited rates a maximum 155% shall apply for overhead. The profit fee is 10%. The billable rate shall be calculated using  $1.10 \times (\text{Base Hourly Rate} + \text{Base Hourly Rate} \times \text{Overhead Rate } \%)$ .

**D. PAYMENT FOR SPECIALTY SERVICES/ADDITIONAL ARTISANS**

The Contractor will be paid for any artisans that are not categorized under Item 100.1 "Base Labor Rate" (Regardless of whether the additional artisans are hired by the Contractor as a specialty sub-contractor crew, or as an individual artisan) required to repair or maintain the bridges or any work that has not been included as incidental to any Contract Bid Item plus ten (10) percent. However, no artisans shall be hired until approved by the Engineer and competitive prices may be required if the Engineer so directs. The Contractor will not bid this item. If the Engineer has knowledge of source of additional artisans, which are competitive with the Contractor's choice, then the Contractor may be required to investigate and use an alternative choice.

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## **COST ESTIMATES**

Where the scope of a repair task can be adequately determined and described, the Contractor, when directed by the Engineer, shall be required to submit a Cost Estimate for the repair task.

Each Cost Estimate, submitted in writing, shall include an itemized scope of work, a working schedule (including the number of working days and hours worked each day by each category of artisan), work procedures and a NOT-TO-EXCEED cost breakdown itemized by the following: the number and type of workers, the number and type of equipment, barges, materials, specialty contractors, engineering services, traffic controls and police, etc. The Cost Estimate submittal must also state if roadway closures and waterway and/or bridge closures will be required.

The Engineer will approve each Cost Estimate submittal in writing. A submittal does not guarantee the Contractor will be assigned the work. Payment will be based on actual hours worked at the contractual rates for various items as previously described up to the maximum task amount. Completion of the task is the sole responsibility of the Contractor once the not-to-exceed amount has been reached. Should unforeseen problems develop during the task completion, the Contractor will submit to the Engineer a revised scope of work with a comparison to the original scope of work along with a breakdown of the additional costs for approval by the Engineer. Approval for any increases to the agreed upon not-to-exceed cost will be dependent upon the justification of the additional work.

If the Contractor performs work which is not provided for in this Contract, or which was not authorized in writing by the Engineer, said Contractor shall receive no compensation for such work.

The management of the project and generating Cost Estimates, including such items as the planning of repair details, hiring of subcontractors, meetings with affected parties, scheduling of required artisans, purchasing of the necessary materials and the arrangement of equipment rentals, etc., will be considered incidental to the work and as such, no additional compensation will be provided.

## **RATES OF PAYMENT**

Payment for Non-Bid Items and Item 100.1 Base Labor Rate will be made for time spent on the project doing actual work on the Department's bridges and shall NOT include travel time to and from the Contractor's place of business and it shall also not include time for investigative field trips to find out how much material, equipment, tools, etc., may be needed for the work.

All equipment, materials, engineering costs and artisans' compensation which are necessary to prosecute the work under the various contract bid items shall be incidental to those bid Items at no additional compensation.

Note: For work covered by bid items in this contract and those not covered, there may be situations where the Department has pertinent materials or equipment stockpiled. The Department reserves the right to utilize these materials or equipment as seen fit in the prosecution of the work.

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**RATES OF PAYMENT** (Continued)

The Contractor will be paid for the total actual cost (plus a percentage markup as indicated) for materials, equipment rental, additional artisans and engineering services required for related work directed by the Engineer. Artisans will be compensated as specified in Item 100.1 "Base Labor Rate". The Contractor will not bid the materials, equipment rental, additional artisan, and engineering services Items.

Payment for Non-Bid Items will be based on bills submitted, covering all charges for labor, materials, and equipment according to the respective terms of the contract. Bills covering the total charges incurred in any given month are to be submitted by the fifteenth of the following month for processing.

The Contractor is encouraged to submit bills/invoices of all charges to the Engineer by the 15th of the following month. It shall be required that the Contractor furnish certified copies of any or all payrolls for the Contract, showing the name, address, and occupational classification of each employee on said works, the hours worked by, and the wages paid to such employee.

**SUPPLEMENTAL REQUIREMENTS FOR NON-BID ITEMS**

(Supplementing Subsection 3.04)

The Contractor will be paid for additional artisans, equipment rental, materials, engineering services and specialty services required to perform the work plus (10%) percent, plus actual increased bond premium.

The Contractor shall be required to furnish certified paid receipts for additional artisans, equipment rental, materials, engineering services and specialty services that are required to perform the work prior to payment by the Department. Increased bond premium for additional artisans, equipment rental, materials, engineering services and specialty services will be paid after a certified paid receipt is submitted showing payment of the increased bond.

**CONTRACTOR DESIGN REQUIREMENTS**

All design drawings and calculation submittals that are prepared and stamped by a Professional Engineer shall be checked by a second Professional Engineer. Both Professional Engineers shall be registered in the Commonwealth of Massachusetts and be of the appropriate engineering discipline. All drawings calculation sheets shall contain the "calculated by" or "drawn by", and "checked by" sections with the initials of both Professional Engineers. "

## 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

**SCHEDULE OF OPERATIONS - SCHEDULE TYPE**

The applicable schedule type for this project is Type D.

**ITEM 100.1****BASE LABOR RATE****HOOR**

The Contractor shall provide competent artisans, possessing all pertinent licenses and/or certifications, as required by the Engineer, to maintain and repair various components of the bridges. As described more fully below, included in this Item will be a tool kit for each trade with incidental tools, special apparel and any required personal safety equipment with no additional charge to the Department. The Contractor shall submit to the Engineer all pertinent licenses and/or certifications for each artisan prior to the commencement of any work. Failure to provide the pertinent licenses and/or certifications could result in the artisan being compensated at the laborer rate regardless of how the Contractor so compensated him/her.

The payment under this Item will be for the artisan and his/her toolkit only.

This Item shall only be used to compensate the Contractor for the time that their in-house workforce spends on work orders assigned by the Engineer.

Payment will be based upon time spent on the project doing actual work assigned by the Engineer and shall NOT include travel time to and from the Contractor's place of business and it shall also not include time for investigative field trips.

Payment for equipment (other than the usual artisan toolbox) will be made under payment for equipment rental as stated elsewhere in these special provisions.

Described below, and included in this item, will be a tool kit for each trade with all incidental tools, special apparel, and any required personal safety equipment with no additional charge to the Department.

All tools and equipment in artisan tool kit shall be in excellent working condition.

Any Additional vehicles as required by the Engineer will be paid for under the rental equipment as Non-Bid item. If it is the Contractor's policy for the artisan to use their personal vehicles for the above purposes, no additional vehicles are required.

Artisans and toolboxes are described below:

**Laborer**

Small hand tools, hand held power tools, chipping hammer, eye shields, gloves, protective clothing, generators as necessary to run the equipment and equipment that is normally used in the trade.

**Carpenter**

Hammer, framing square, tape measure, pouch, levels, hand saws, power saws, all electric power tools, air tools and generators and compressors as necessary to run the equipment. Saw blades and drill bits are also included.

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**ITEM 100.1** (Continued)**Cement Mason**

All trowels, floats, Chipping Hammers, Wire Brushes, Trowels, Floats, Reinforcing Tie Wires, Mortar Boards, Jointing Tools and Buckets, mortar board and mixing tub/buckets, and other hand tools as necessary to complete masonry patching work.

**Electrician**

Wire cutters, wire strippers, pliers, screwdrivers, utility knives, hex keys, crimping tools, fish lines, multimeters, clamp on ammeters, AC ammeter, DC megger, flashlights, gloves, protective clothing, allen wrenches, files, scrapers, electric power tools and generators necessary to run the equipment and other equipment that is normally used in the trade.

**Ironworker / Welder**

Spud wrench, dowels, alignment pins, tape measure, pouch, levels, eye shields, gloves, protective clothing, rivet buster, air hammer, jackhammer, reamers, chipping hammer, wire brushes AC/DC- 300 amp- 100% duty cycle (minimum size) welding machine, torches for cutting, burning, or preheating steel, including fuel tanks & fuel / oxygen, grinders, heating oven for all welding consumables and other equipment that is normally used in the trade.

**Painter/Deleader**

Hand scrapers, wire brushes, paint spray apparatus, needle guns, wire wheels, gloves, protective clothing and all electrical power tools, air tools and generators with compressors as necessary to run the equipment.

Lead disposal costs will be paid for under the Non-Bid Items.

Materials required for the containment will be paid for under non-bid materials allotment.

**Backhoe/Front-End Loader Operator**

Operator shall have all licenses and certifications required by the Commonwealth of Massachusetts for the equipment they will be operating. Operators shall be in possession of their licenses at all times and show it to the Engineer when requested. Typical equipment includes a backhoe, skid-steer loader, and front-end loader.

Equipment which does not require a special license or certification for its operation shall be considered incidental to the artisan using it.

**ITEM 100.1** (Continued)**METHOD OF MEASUREMENT**

Item 100.1 will be measured for payment by the Hour.

The Engineer will calculate total Base Labor Rate hours spent on the project by artisans.

Overtime hours will be paid for work exceeding eight (8) consecutive hours per day or forty (40) hours per week and shall be compensated as specified in this Item.

To calculate the total Base Labor Rate hours, the Engineer will modify hours spent by various artisans on the project using adjustment factor(s) described below:

<b><u>COMPENSATION FACTORS</u></b>		
<b><u>ARTISAN</u></b>	<b><u>REGULAR</u></b>	<b><u>OVERTIME</u></b>
LABORER	1.00	1.30
CARPENTER	1.04	1.35
CEMENT MASON	1.16	1.51
ELECTRICIAN	1.31	1.70
IRON WORKER / WELDER	1.16	1.51
PAINTER/DELEADER	1.21	1.57
BACKHOE/FRONT-END LOADER	1.18	1.53

If an artisan has an apprentice, then that apprentice's compensation factor shall be determined from the State Wages Apprentice level.

The Compensation Factors above will be used to adjust the number of hours a specific artisan will be paid for, per one (1) hour of work.

**Example:**

If the time spent on this project by various artisans is:

Laborer                8 hrs  
Carpenter            4 hrs  
Cement Mason       6 hrs

then the total hours for "Base Labor Rate" will be calculated as follows:

"Artisan A(hrs)" x "Compensation Factor A" +  
"Artisan B(hrs)" x "Compensation Factor B" +  
"Artisan C(hrs)" x "Compensation Factor C"

(8-hr. x 1.00) + (4-hr. x 1.04) + (6-hr. x 1.16)  
(8.00-hr.) + (4.16-hr.) + (6.96-hr.) = 19.12 (billable hours)

In the above example, the total hours for "Base Labor Rate" is 19.12 hours (billable hours).

**ITEM 100.1** (Continued)**BASIS OF PAYMENT**

Item 100.1, Base Labor Rate, will be paid for at the Contract unit price per Hour, which price shall include all equipment (usual artisan tool kit), tools required to perform the normal artisans work, all clothing, and safety equipment normally associated with the artisans work.

Any transportation required for an artisan and their toolbox to travel to and from a job site will be incidental to this Item. Ownership and operating costs, fuel and maintenance are not reimbursable for the vehicles and tools utilized under the artisan items.

**SPECIAL NOTES REGARDING PREVAILING WAGE REQUIREMENTS**

Item 100.1, Base Labor Rate establishes a unit price for the Department's compensation to the Contractor for furnishing competent artisans to maintain and repair various components of the bridges. Nothing herein should be construed as establishing, altering or otherwise affecting the prevailing wages rates applicable to the work performed or relieving the Contractor of its obligations to ensure that workers are paid in accordance with applicable labor and wage laws.

Note that the erection and dismantling of scaffolding, rigging and containment for bridge painting work is subject to the "Painter(Bridges/Tanks)" prevailing wage rate. This includes surface preparation, including removal of all types of paint on bridges, the application of paint and the clean-up of debris resulting from paint removal operation on bridges, pursuant to the determination by the Massachusetts Department of Labor Standards' 12/23/2009 "Notice Concerning the Removal and Application of Paint on Bridges and Tanks."

**ITEM 106.08      ARMORED STEEL JOINT REMOVED AND DISCARDED      FOOT**

The work under this item consists of removing and disposing armored steel joints in place over concrete noses and expansion dams for installation of new bridge joint systems. Also included under this Item shall be the complete removal and disposal of all attachment systems including all materials, studs, anchor bolts, etc. The removal of hot mix asphalt and membrane waterproofing within the joint limits is also included under this Item.

**CONSTRUCTION METHODS**

The Contractor shall saw-cut the perimeter of the proposed block-outs for the full depth of the hot mix asphalt pavement and membrane waterproofing. The Contractor shall then excavate the pavement and membrane using approved methods. After pavement removal, the Contractor shall dislodge and remove the armored steel joint including all its attachment.

All removed materials shall be transported off-site each day and disposed of in an environmentally safe manner. The bottom of the new block-out shall be thoroughly cleaned. Abrasive blasting will be required.

**METHOD OF MEASUREMENT**

Item 106.08 will be measured for payment by the Foot, of armored steel joint removed and discarded.

**BASIS OF PAYMENT**

Item 106.08 will be paid for at the Contract unit price per Foot, which price shall include all labor, materials, equipment, tool, sawcutting, and all incidental costs required to complete the work.

No separate payment will be made for the removal and disposal of all the armored joint attachments, hot mix asphalt pavement, membrane waterproofing and any concrete excavation associated and required for the joint removal to form a block-out for the new bridge joint system, but all costs in connection therewith shall be included in the Contract unit price bid.

**ITEM 106.12****BRIDGE CURB REMOVED AND RESET****FOOT**

The work under this item shall conform to the relevant provisions of Section 500 and Subsection 580 of the Standard Specifications and the following:

The work shall consist of removing and resetting existing granite curbs and edgings on bridge decks, where the existing curbs and edgings are out of their original alignments, the curb anchors have deteriorated, the concrete securing the curb anchors is unsound, or the bridge curb will come out their alignments due to other work to be done under this Contract.

Reinforcing bar anchors shall meet M8.01.0. Mortar shall meet the relevant provisions of M4.04.0. Non-shrink cementitious or epoxy grout shall be pre-approved by the Research and Materials Division. The Contractor shall first remove the concrete behind the curb and/or edging under Item 127.1, 127.4, and/or 127.41 and then shall carefully remove the curb and/or edging and stack it temporarily in a safe place.

The Contractor shall replace all curb and edging rendered unsuitable by his operation at his expense. The Contractor shall remove the existing # 5 L-shaped anchors by core drilling 3 inches into the granite. Each core hole shall be centered with the corresponding anchor and be slightly oversized to permit grouting of new anchors. The new anchors shall be # 5 L-shaped reinforcing bars extending 3 inch into the granite and 6 inch into the concrete. The new anchors shall be grouted into the granite using the approved grout. After completing the concrete deck repairs, the Contractor shall reset the curbs and edgings in accordance with Subsection 501.66.

**METHOD OF MEASUREMENT**

Item 106.12 will be measured for payment by the Foot of bridge curb and edging removed and reset, complete in place.

**BASIS OF PAYMENT**

Item 106.12 will be paid for at the Contract unit price per Foot, which price shall include all labor, materials, tools, equipment, and incidental costs required to complete the work.

No separate payment will be made for reinforcing bar anchors and non-shrink cementitious or epoxy grout, but all costs in connection therewith shall be included in the contract unit price bid.

The removal of the concrete behind the curb and/or edging will be paid for under Item 127.4 or Item 127.41.

**ITEM 107.623****WORKING BARGE****HOURLY**

The work under this Item consists of supplying, maintaining, transporting, relocating, and removing working barges. Working barges will be used to support equipment used in the prosecution of other work done under this Contract.

Working barges shall be mobilized when, in the opinion of the Engineer, the only access to the job site in order to prosecute the work is by barge.

Working barges shall be approximately 24 feet by 50 feet (1200 square feet), although smaller or larger barges may be required, as required by the Engineer.

Each barge shall be designed to adequately support all loads that it will be subjected to. The Contractor shall be required to submit shop drawings and calculations, which are signed and stamped by a Professional Engineer of the appropriate discipline, registered in Massachusetts. Approval of said drawings and calculations does not relieve the Contractor of its responsibility to properly prosecute the work under this item.

Each working barge shall be fitted with a safety railing required by OSHA regulations 29 CFR 1926, Safety and Health Regulations for Construction.

Each working barge shall be provided with an operator/tender crew. Each working barge shall be self-propelled and/or a tugboat shall be provided. A safety boat/skiff shall be provided with each working barge. When needed, a man lift, up to 60 feet, and/or scaffolding shall be provided with each working barge, which will be all incidental to the barge.

Each barge, when it arrives on site, shall be positioned where directed by the United States Coast Guard (USCG) or, if USCG provides no direction, outside and away from the navigation channel at each site in accordance with USCG requirements.

During its deployment, each working barge shall be maintained in good working condition and operated in a safe manner. The deck of each working barge shall be kept clean and free from all debris.

**METHOD OF MEASUREMENT**

Item 107.623 will be measured for payment by the Hour that each working barge is at the site and in operation. The work hours will be categorized as either 'Active' or 'Standby.'

Active plus standby hours will not exceed 8 hours in 24 hours period unless prior permission to work more than 8 hours has been given by the Engineer depending on the type of work where immediate completion of work is required. Active hours outside of the normal 8-hour period shall be paid at the contract unit price for hours the barge is in operation. There shall be no compensation for a barge left on site overnight. No overtime rate shall apply beyond 8 hours to the operator/tender crew of the barge if left overnight.

**ITEM 107.623** (Continued)

If additional work hours such as overtime or a 24 hour closure are needed it must have prior approval from the District 4 Bridge Engineer prior to executing.

**‘Active’ Hours**

Defined as when artisans are conducting their work on the working barge. Active hours shall also include the actual hours required to mobilize or demobilize the barge, from bridge to bridge, up to a maximum of eight hours for each instance.

‘Active’ hours shall be paid for at the contract unit price. Storing equipment, materials and other items on the barge will not qualify the barge as active. In such cases only standby rates shall apply.

**‘Standby’ Hours**

Defined as when a working barge is on site in reserve for use when needed. The contract unit price shall be reduced by 50% for “Standby” hours as defined in Section 9.03 C (2) (b) (2) of Standard Specifications for Highways and Bridges. The Contractor shall perform all barge work promptly and efficiently to minimize the Standby hours at each location. Standby hours in excess of 25% of the active hours paid for each barge at each location will not be considered for payment.

Each hour worked will be measured to the nearest half-hour.

The size of a working barge shall be defined as 24 feet by 50 feet or 1200 square feet, plus or minus ten percent. When the size of a barge is more than ten percent less than 1200 square feet (less than 1080 square feet), the hourly rate shall be reduced directly proportional to the area of the barge. See the example below:

A barge measuring 10 feet by 20 feet works 8 hours and the Unit Price is \$350.00 per hour. The area of the barge equals 200 square feet.

$$200 \text{ SF} / 1200 \text{ SF} = 0.167.$$

$$\text{The new hourly rate} = 0.167 \times \$350.00 = \$58.45$$

Barges greater than 1200 square feet will be paid for at the contract unit price. No additional compensation will be given.

Note: Large crane barges that are significantly more expensive than the required barge size are typically not required, but if such a crane is required it will be paid for as outlined in “Payment for Rental Equipment.”

Work floats will be paid for as outlined in Payment for Rental Equipment.

The cost of the operator/tender crew, tugboat, safety boat, man lift and scaffolding shall be incidental to the cost of the working barge. No additional measurement will be made for payment under Materials, Specialty Services, Equipment Rental, Additional Artisans, or Overtime Costs.

**ITEM 107.623** (Continued)**BASIS OF PAYMENT**

Item 107.623 will be paid for at the Contract unit price per Hour or reduced unit price for barges less than 1080 square feet or ‘standby’ hours, which price shall include all tools, labor, equipment, material, specialty contractor services, engineering services and incidental costs required to complete the work. No additional measurement will be made for payment under Item 100.1, Materials, Equipment Rental or Additional Artisans.

<b><u>ITEM 127.1</u></b>	<b><u>REINFORCED CONCRETE EXCAVATION</u></b>	<b><u>CUBIC YARD</u></b>
<b><u>ITEM 127.4</u></b>	<b><u>REINFORCED CONCRETE DECK EXCAVATION (FULL DEPTH)</u></b>	<b><u>SQUARE YARD</u></b>
<b><u>ITEM 127.41</u></b>	<b><u>REINFORCED CONCRETE DECK EXCAVATION (PARTIAL DEPTH)</u></b>	<b><u>CUBIC YARD</u></b>

The Work under these Items shall conform to the relevant provisions of Subsections 120 and 482 of the Standard Specifications and the following:

The work under Items 127.4 and 127.41 shall consist of full and/or partial depth removal and disposal of all disintegrated or otherwise unsatisfactory reinforced concrete from the bridge deck.

The work under Item 127.1 shall consist of excavation, removal and disposal of reinforced concrete on sidewalks, parapets, and when deck excavation is within 3 feet from joint centerline, and as required by the Engineer.

**Note:** Some of the bridges, due to their height (vertical clearance), will require special lifting equipment to place shielding for the assigned bridge repair work. Any equipment required to erect shielding shall be incidental to the relevant items: 127.1, 127.4, and 127.41.

Prior to excavation, the Contractor shall cover all drainage structures that may be affected by the work. The structures shall remain covered until the new concrete has set and the area has been cleaned.

The Contractor shall take all precautions necessary not to damage that portion of the deck, including reinforcing steel, which is to remain. This includes determining the concrete cover to the steel bars at the edge of each patch prior to excavating concrete.

The edges of all areas where concrete is removed under Items 127.1, 127.4, and 127.41 shall be cut to neat lines by saw cutting or by methods approved by the Engineer, to a depth of 3/4 inch, and all costs in connection with such work shall be incidental to the pertinent item. Excavated areas shall be made rectangular in shape [as much as possible], with horizontal and vertical edges and square corners.

In case the reinforcing bars are exposed, the minimum depth of all cement concrete areas to be excavated shall be one (1) inch below the bottom of the top layer of longitudinal reinforcing steel throughout the entire excavated area.

The cost for the removal of hot mix asphalt and any membrane waterproofing above the area of reinforced concrete excavation shall be incidental to respective Items 127.4 and 127.41. Where full removal of hot mix asphalt and any membrane waterproofing using a cold planer or similar equipment is required, that work shall be compensated under Item 129.6: Bridge Pavement Excavation.

**ITEMS 127.1, 127.4 and 127.41** (Continued)

Concrete removal equipment shall be of the following types:

**Pneumatic and Power-Driven Chipping Hammers:** In no event shall any pneumatic or power hammer weighing in excess of twenty-five (25) pounds be used for the removal of concrete. The Contractor will be restricted to fifteen (15) pound chipping hammers when work involves repairs to slabs of prestressed concrete adjacent deck or box beams, or when removing concrete from below any reinforcing bar.

**Abrasive Blasting Equipment:** Abrasive blasting equipment shall be capable of removing rust and old concrete from exposed reinforcing steel when required by the Engineer.

During the prosecution of this work, the Engineer may reject the use of any method or equipment which causes undue vibration or possible damage to the structure or any part thereof.

Bobcats/Skid Steers will be allowed only to collect debris from the deck surface and will not be allowed to remove concrete from the patch area. All concrete debris shall be removed by hand or by using hand tools. The smaller pieces may be blown out using an oil free compressed air after first being wetted with water to control airborne particulates.

Also, included under these Items are all costs in connection with the cleaning, cutting, and bending of the existing reinforcing steel designated to be retained in the proposed construction. Any existing reinforcing steel damaged or otherwise made unsatisfactory for continued use as a result of the Contractor's operations shall be replaced at the Contractor's expense. All reinforcing steel with active rusting encountered in the excavation shall be thoroughly cleaned by abrasive blasting and coated with a zinc-rich primer conforming to MassDOT Spec. No. M7.04.11 or as required by the Engineer. Any reinforcing steel that is unsuitable for further use through no fault of the Contractor shall be replaced under Item 910.1. All reinforcing steel that is loose shall be tied tightly together using wire ties. Ties are required at every other intersection of transverse and longitudinal reinforcing.

Temporary Protective Shielding must be used on bridges over the roadway, railroad, or waterway during full depth excavation and when, in the opinion of the Engineer, there is the possibility of dislodging concrete from the bottom of the deck.

The Contractor shall take all measures necessary to protect pedestrian, vehicular traffic, waterway, or railroad below from the construction operations. No debris, tools or incidental equipment of any kind will be permitted to fall into areas where vehicular or pedestrian traffic exists. Any material that accidentally falls into such areas shall be removed immediately.

**METHOD OF MEASUREMENT**

Items 127.1 and 127.41 will be measured for payment respectively by the Cubic Yard of reinforced concrete excavated and properly disposed of. Item 127.4 will be measured for payment by the Square Yard of reinforced concrete excavated and properly disposed of.

**ITEMS 127.1, 127.4 and 127.41** (Continued)**BASIS OF PAYMENT**

Items 127.1 and 127.41 will be paid for at the respective Contract unit price per Cubic Yard, which price shall include all labor, materials, equipment, sawcutting, removal of any bituminous concrete, waterproof membrane, cleaning, cutting, and bending of the existing reinforcing steel designated to be retained, and all incidental costs required to complete the work.

Item 127.4 will be paid for at the Contract unit price per Square Yard, which price shall include all labor, materials, equipment, sawcutting, removal of any bituminous concrete, waterproof membrane, cleaning, cutting, and bending of the existing reinforcing steel designated to be retained, and all incidental costs required to complete the work.

Item 127.1 will compensate the Contractor for excavation performed on sidewalks, parapets, and when deck excavation is within 3 feet from joint centerline.

Items 127.4 and 127.41 will compensate the contractor for excavation performed on the bridge deck (full depth or partial depth).

The Contractor will be paid under either Item 127.1, 127.4 or 127.41 for excavated concrete. In no case the Contractor shall be paid under more than one Item for the same excavated material.

New reinforcing steel will be paid under Item 910.1

Temporary protective shielding will be paid under Items 994.1 and 994.12.

**ITEM 129.6****BRIDGE PAVEMENT EXCAVATION****SQUARE YARD**

The work under this Item shall conform to the relevant provisions of Subsection 415 of the Standard Specifications and the following:

The work under this Item shall consist of the removal and disposal of HMA and membrane waterproofing from the bridge deck using a cold planer or similar equipment as required by the Engineer.

The edges of all areas where existing asphalt is removed under this Item shall be sawcut to a depth of 3/4 inch.

The Contractor shall submit to the Engineer for approval the type of machine that will be used. Any bridge deck damaged by the Contractor's operations shall be repaired at the Contractor's own expense.

**METHOD OF MEASUREMENT**

Item 129.6 will be measured for payment by the Square Yard of actual area of the existing HMA pavement excavated, to include gravel layers found between HMA and bridge deck, removed, and properly disposed.

**BASIS OF PAYMENT**

Item 129.6 will be paid for at the Contract unit price per Square Yard, which price shall include all labor, materials, equipment, excavation and disposal HMA pavement including gravel layers found between HMA and bridge concrete deck, and all incidental costs required to complete the work.

Where any bridge pavement is excavated from limited deck areas, the removal of the HMA shall be paid for under the relevant item of either Item 127.4, Item 127.41 or Item 127.1.

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**ITEM 129.61 OLD ASPHALTIC PLUG JOINT REMOVED AND DISCARDED FOOT**

The work under this Item shall conform to the relevant provisions of Subsection 120 of the Standard Specifications and the following:

The work shall include removal and proper disposal of the old asphaltic plug joint in locations where a non-asphaltic plug joint is being installed. The work to be done under this item has to be authorized by the Engineer on locations where the old asphaltic plug joint is deteriorated beyond repairs and the existing joint has become traffic hazard and smooth transition is not possible.

**CONSTRUCTION METHODS**

All old asphaltic joint ordered removed under this item shall be completely removed along with the steel plate and disposed of as required under all the applicable environmental laws. Since crushing plants do not accept this material, it should be disposed of at the proper location/landfills as required under the laws. The Contractor must keep a complete record of disposal and submit it to the Engineer as part of the project records.

**METHOD OF MEASUREMENT**

Item 129.61 will be measured for payment by the Foot, the measurement will be the actual number of feet of asphaltic plug joint removed in locations where a non-asphaltic plug joint is being installed. The joint width may vary at different locations.

**BASIS OF PAYMENT**

Item 129.61 will be paid for at the Contract unit price per Foot, which price shall include all labor, materials, tool, equipment, removal, disposal, record keeping, and incidental costs required to complete the work.

**ITEM 472.01****ROADWAY REPAIR CREW****HOURL**

The work under this Item shall conform to the relevant provisions of Subsection 472 of the Standard Specifications and the following:

Under this item, the Contractor shall provide a minimum 2-person crew when repairs to the wearing surfaces on bridge decks are required under this Contract and approved by the Engineer.

The intent for the inclusion of these Items is to provide a mechanism for payment for routine HMA patching inherent in the nature of the bridge repair work as opposed to the Roadway Repair Crew Item tasked specifically to respond to address bridge deck and joint wearing surface repairs. In no case will the Contractor be compensated under more than one Item for the same HMA material.

**CONSTRUCTION METHODS**

Cold patch material, loose wearing surface material, ice, and water shall be removed from the repair locations, the repair area shall be either air dried or heat dried. The Contractor shall dispose of all materials removed from the repair locations.

The maximum lift thickness for the material being placed shall not exceed three times the dimension of the largest stone. When the hot mix asphalt is placed or spread by hand, the Contractor's method of compaction must be approved.

A hot box for transporting the Hot Mix Asphalt shall be used as required by the Engineer and shall be included under this Item at no additional compensation.

**METHOD OF MEASUREMENT**

Item 472.01 will be measured per Hour calculated by the Engineer for a repair crew consisting of a minimum of two persons, stake and rack job truck, one-ton dump truck, any additional truck operators, disposal of excavated materials, compacting devices, (including vibra-tamp), hand tools, tack coat, and all labor and equipment normally associated with this type of work.

Item 472.01 will be paid in the 0.5-hour increment.

**BASIS OF PAYMENT**

Item 472.01 will be paid for at the Contract unit price per Hour, which price shall include all labor, tools, equipment, removal, disposal, placement, and incidental costs required to complete the work.

Bitumen for tack coat shall be incidental to Item 472.01.

The tonnage of Hot Mix Asphalt is not included under this pay item. Asphalt Mixture necessary for the repair under this item shall be paid for under non-bid items as the type will be dependent upon the application.

**ITEM 482.31****SAWING & SEALING JOINTS IN ASPHALT  
PAVEMENT AT BRIDGES****FOOT**

The work to be done under this Item consists of making a sealed kerf across the full width of the finished asphalt pavement at bridge abutments where called for on the Plans. The shape, width, and depth of the kerf shall be as shown on the Plans.

Prior to the start of the asphalt pavement operation, the Contractor shall place a mark on each curb or barrier on either side of the paved roadway. These marks shall be aligned with the actual end of the bridge deck and shall be placed so that they will not be covered or otherwise obscured by the asphalt pavement.

After the completion of the paving operation, the Contractor shall snap a straight chalk line on the pavement between these two marks. The Contractor shall then saw cut the pavement along this line to the depth, width and shape as shown on the Plans. The equipment shall be approved by the Engineer prior to commencing work.

After completing the saw cutting, the Contractor shall clean the saw groove of any dust and debris with an oil free air blast. If the groove was wet sawn, the groove shall be cleaned with a water blast to remove any remaining slurry and debris, vacuumed with a Wet-or-Dry vacuum to remove any standing water, and then dried with an air blast from a Hot-Air-Lance.

Once the groove is clean and dry, the Contractor shall fill it completely with a hot-applied bituminous crack sealer meeting the requirements of M3.05.2 in accordance with the manufacturer's application instructions and restrictions regarding ambient and material temperatures. The crack sealer shall be thoroughly cured prior to opening the road to traffic. To reduce tackiness, only boiler slag aggregate (black beauty) shall be scattered over the sealer when required by the Engineer. Conventional sand shall not be used for this purpose.

**METHOD OF MEASUREMENT**

Item 482.31 will be measured for payment by the Foot, of the actual number of feet of kerf sawed and sealed in the asphalt pavement surface, complete in place.

**BASIS OF PAYMENT**

Item 482.31 will be paid for at the Contract unit price per Foot, which price shall include all labor, materials, equipment, and all incidental costs required to complete the work.

**ITEM 740. ENGINEERS FIELD OFFICE AND EQUIPMENT (TYPE A) MONTH**

The work under this Item shall conform to the relevant provisions of Subsection 740 of the Standard Specifications and the following:

Two 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

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 systems, 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 748.1****EMERGENCY RESPONSE****EACH**

The work under this Item shall conform to the relevant provisions of Subsection 748 of the Standard Specifications and the following:

Item 748.1 is intended to be used as a means of providing payment to the Contractor for purposes of mobilizing those forces and equipment necessary for the timely response to an emergency and to begin work as directed.

This Item shall consist of preparatory work and operations for emergency response after notification from the Engineer. It shall include preparations necessary for the movement of personnel, equipment, and incidentals to the project site for the establishment of an effective response under the work assignment.

**Note:** The Contractor is required to commence emergency work within (4) four hours of notification.

**METHOD OF MEASUREMENT**

Item 748.1 will be measured for payment by the Each notified emergency Work Order when the Contractor commences work within (4) four hours of notification.

In the event that another emergency occurs during the period that the Contractor's forces have been notified and are mobilizing or working, all additional responses performed by a different emergency response crew at a different work site during that period will be considered an additional emergency response in accordance to the requirements specified herein.

The engineer will determine if conditions required another crew to be mobilized as a separate emergency response.

The Emergency Response item is not applicable if the emergency occurs during scheduled working hours.

**BASIS OF PAYMENT**

Item 748.1 will be paid for at the Contract unit price per Each, which price shall be full compensation for all costs associated with ensuring prompt response to emergency situations and to get equipment to an emergency location in time.

In the event that the Contractor does not satisfy the (4) four hours response time, payment for Emergency Response will be made only at the discretion of the Engineer.

Non-response damages will be assessed in the amount specified under NON-RESPONSE DAMAGES for each assignment the Contractor fails to report as required.

All labor, material and equipment to perform the emergency work will be paid for under the appropriate pay items.

**ITEM 853.8****TEMPORARY ILLUMINATION FOR WORK ZONE****DAY**

The work under this Item shall conform to the relevant provisions of Subsection 850 of the Standard Specifications and the following:

The work under this Item shall include furnishing, deploying and maintaining in proper operating condition a LED balloon diffuser lighting system. These portable light towers shall be used throughout the project area for temporary work zone lighting. The use of unshielded high wattage flood lights shall not be permitted.

The Contractor shall illuminate the following work zone areas:

- Change in direction (i.e., work zone entrances and exits, crossovers, etc.)
- Tapered areas
- Actual area where the construction is being performed.

Light measurement shall be based on the illuminance method and the lighting levels shall be based on the classification of construction activity that is taking place. At no time shall the light level be below 5 fc and the uniformity shall not exceed 6:1. Task Classifications and recommended illumination levels are shown in Table 1.

<b>Task Classifications</b>	<b>Illumination Level</b>	<b>Average Minimum Maintained Illuminance</b>
All work operations areas, setup of lane or road closures, lane closure tapers, and flagging stations such as Excavation (all types), Embankment Fill and Compaction, Reworking Shoulders, Asphalt Pavement Rolling, Subgrade, Stabilization and Construction, Base Course Rolling, Sweeping, Cleaning and Landscaping.	Level I	5 foot-candles
Areas on or around construction equipment, asphalt paving, milling, and concrete placement and/or removal such as Milling, Removal of Pavement, Asphalt Paving and Resurfacing, Concrete Pavement, Waterproofing and Sealing, Sidewalk Construction, Base Course Grading and Shaping, Surface Treatment, Bridge Decks, Drainage Structures and Drainage Piping, Other Concrete Structures, Barrier Wall and Traffic Separators, Guardrails and Fencing, Striping and Pavement Markings, Repair of Concrete Pavement, Highway Signs, Hole Filling and Repair of Guardrails and Fencing.	Level II	10 foot-candles
Pavement or structural crack/ pothole filling, joint repair, pavement patching and/or repairs, installation of signal/electrical/mechanical equipment such as Traffic Signals, Highway Lighting Systems and Crack Filling	Level III	20 foot-candles

TABLE 1  
TASK CLASSIFICATIONS AND ILLUMINATION LEVELS

**ITEM 853.8** (Continued)

Prior to commencement of work the Contractor shall submit to MassDOT for approval a description of illumination equipment that is proposed to be used on this project, and shall include photometrics that detail the light levels that are to be provided for the particular operation for the type of equipment, level of luminance and height to be installed.

Any potential glare from the lighting system should be considered from each direction and on all approaching roadways and opposing lanes of traffic. Glare from the illumination system should be minimized as much as possible for both workers and motorists in adjacent active travel lanes. If required, the Contractor shall provide supplemental hardware such as visors, louvers, shields, glare screen and barrier to reduce glare in adjacent active travel lanes.

Equipment mounted lighting may be used to supplement light towers to achieve the required lighting levels for the activity involved per Table 1.

**METHOD OF MEASUREMENT AND BASIS OF PAYMENT**

Item 853.8 will be measured and paid per Subsections 850.80 and 850.81 of the Standard specifications, respectively.

**ITEM 854.6****TEMPORARY PORTABLE RUMBLE STRIP****DAY**

Work under this item consists of furnishing, deploying, maintaining in proper operating conditions, and removing temporary portable rumble strips (TPRS) for temporary lane closures of 24 hours or less.

**MATERIALS**

The TPRS shall be 10' to 11' wide, measured perpendicular to the path of travel, 12" to 16" long, measured parallel to the path of travel, and 0.5" to 0.75" tall. All edges shall be beveled. The surfaces shall be grooved to limit potential hydroplaning.

The TPRS shall lay flat on the road surface without the use of nails, anchors, or adhesives, and shall be flexible so as to conform to the surface profile.

The TPRS shall be able to withstand vehicle weights of up to 80,000 lbs. and operate in temperatures between 0° to 120° F.

The manufacturer shall certify the TPRS to be safe for use on roads with speed limits of at least 70 mph.

TPRS that appear damaged or functioning in an unsafe manner may be order removed by the Engineer and replaced at no additional cost.

**CONSTRUCTION METHODS**

The TPRS shall be installed per the plans or at the discretion of the Engineer.

The Contractor shall conform to the manufacturer's specifications for installation and the following:

- A. The road surface shall be cleared of all gravel, sand, and debris.
- B. If RoadQuake 2™ model is used, the modular pieces shall be assembled into 11-foot strips per the manufacturer's instructions in advance of deployment. The interconnected segments shall form a smooth and flat, continuous section.
- C. A Truck-Mounted Attenuator, conforming to Section 850, shall be used as shadow vehicle protection during the deployment and removal of TPRS on any roadway with speeds of 45 mph or greater.
- D. TPRS shall be deployed in conjunction with all other temporary traffic control devices. MA-W28-1 (Rumble Strips Ahead) sign(s) shall be installed per the Temporary Traffic Control Plan.

**ITEM 854.6** (Continued)

## E. TPRS deployment:

1. TPRS shall be placed perpendicular to the direction of travel, centered in the lane.
2. Three (3) individual strips are required for a single array.
3. Refer to the Temporary Traffic Control Plan for the location of the array respective to the lane closure.
4. The spacing of the individual strips within the array shall conform to the following table:

<b>Speed Limit</b>	<b>Distance Between Rumble Strips (measured center-to-center)</b>
>55 mph	20 feet
40 mph to 55 mph	15 feet
<40 mph	10 feet

5. The TPRS shall be placed without the use of nails, adhesives, or other methods of affixing them to the road surface.
- F. All TPRS shall be maintained in proper condition, alignment, spacing, and location throughout the duration of the lane closure, at no additional cost.
- G. The TPRS shall be removed prior to the removal of the traffic control devices used to close the travel lane.
- H. TPRS shall not be used during snow events.

**METHOD OF MEASUREMENT**

An array of three (3) temporary portable rumble strips is considered one (1) unit and will be measured by the day. Each period of up to 24 hours during which this unit is in use will be measured as one day regardless of the number of times the array is deployed, repositioned, or removed.

**BASIS OF PAYMENT**

Temporary Portable Rumble Strips will be paid for at the Contract unit price per day, which shall include full compensation for furnishing, deploying, repositioning, and removing the array of three (3) individual strips as directed by the Engineer.

**ITEM 859.1****REFLECTORIZED DRUMS WITH SEQUENTIAL  
FLASHING WARNING LIGHTS****DAY**

The work under this Item shall conform the relevant provisions of Subsection 850 of the Standard Specifications and the following:

Work under this item consists of furnishing, installing, maintaining in proper operating conditions, and removing reflectorized drums, and any necessary ballast, equipped with sequential flashing warning lights.

**MATERIALS**

Reflectorized drums shall be listed on the MassDOT Qualified Traffic Control Equipment List.

Reflective sheeting on drums shall meet or exceed ASTM D4956 Type VIII. All drums shall be maintained in a satisfactory manner including the removal of oils, dirt, and debris that may cause reduced retroreflectivity.

The Contractor shall use one of the following sequential flashing warning light systems unless otherwise approved by the Engineer:

1. Empco-Lite LWCS.
2. pi-Lit® Sequential Barricade-Style Lamp; or
3. Unipart Dorman SynchroGUIDE.

Sequential flashing warning lights shall be secured to reflectorized drums per the light manufacturer's specifications.

**CONSTRUCTION METHODS**

The first ten (10) drums in any merging or shifting taper as designated in the Temporary Traffic Control Plan shall be equipped with sequential flashing warning lights. These lights shall be operating, at a minimum, between dusk and dawn when the taper is deployed.

The successive flashing of the sequential warning lights shall occur from the upstream end of the merging or shifting taper to the downstream end of the taper in order to identify the desired vehicle path. Each warning light in the sequence shall be flashed at a rate of not less than 55, nor more than 75 times per minute.

Warning lights shall be powered off when drums are not deployed in a taper.

**METHOD OF MEASUREMENT**

A group of ten (10) reflectorized drums with sequential flashing warning lights is considered one (1) unit and will be measured by the day. Each period of up to 24 hours during which this unit is in use will be measured as one day regardless of the number of times that the drums are positioned, repositioned, removed, or returned to service.

**BASIS OF PAYMENT**

Reflectorized Drums with Sequential Flashing Warning Lights will be paid for at the contract unit price per day, which shall include full compensation for furnishing, positioning, repositioning, and removing the group of ten (10) drums as directed by the Engineer.

**ITEM 909.3****RAPID SETTING LOW PERMEABILITY  
CONCRETE****CUBIC YARD**

The Work under this Item shall conform to the relevant provisions of Subsection 901 of the Standard Specifications and the following:

The work under this Item shall consist of the supplying, mixing, placing, and curing of rapid setting low permeability repair concrete for deck repairs.

**MATERIALS**

Materials shall be delivered to jobsite in original, unopened, undamaged containers that clearly show the manufacturer's name, product name, and batch number. Material shall be stored in a dry area off the ground, protected from rain, snow, and other sources of moisture. Material shall be protected from temperature extremes. Bulk sand and coarse aggregate shall be stored in a well-drained area on a clean, solid surface and materials shall be covered to prevent contamination with foreign matter.

The rapid setting low permeability concrete deck repair material shall comply with the following material and proportioning requirements:

Component	Value
Cement Content	559 Pounds Per Cubic Yard
Fly Ash – Class F (AASHTO M 295)	99 Pounds Per Cubic Yard
Coarse Aggregate 3/8" (AASHTO M 80)	1450 Pounds Per Cubic Yard
Fine Aggregate (ASTM C33)	1600 Pounds Per Cubic Yard
Retarder*	As Directed
Water (AASHTO T 26)	296 Pounds Per Cubic Yard

\* An approved retarding admixture may be used to extend the setting time of the concrete when so directed by the Engineer at dosage rates recommended by the cement concrete deck repair material manufacturer. Retarding admixture proposed for use must be approved by the Engineer. Only Materials listed on the MassDOT Qualified Construction Materials List (QCML) may be used.

Modifications to the cement concrete mix design provided above must be submitted to the Engineer for approval. The cement concrete must satisfy all performance criteria and trial batch testing requirements to the satisfaction of the Engineer to be considered acceptable.

Acceptance of the concrete compressive strength will be based on the field cured cylinders achieving a minimum of 5000 psi at 7 days or earlier as cast and tested by MassDOT. Compressive strength testing of field cured cylinders cast and tested by MassDOT should achieve a minimum compressive strength of 4000 psi at 30 hours as a verification that the mix is on target to achieve the 7-day acceptance requirement.

**ITEM 909.3** (Continued)**SURFACE PREPARATION**

The cement concrete must satisfy all performance criteria and trial batch testing requirements to the satisfaction of the Engineer to be considered acceptable.

All concrete surfaces shall be prepared in accordance with PREPARATION OF CONCRETE SURFACES.

**MIXING**

Cement concrete mixes shall be batched using Mobile Concrete (volumetric) mixing equipment. The MassDOT Highway Division will only permit the use of Mobile Concrete Mixers when all the following procedures are adhered to.

Upon written request by a Contractor, the Director of Research and Materials may approve the use of concrete proportioned by a Mobile Concrete Mixer used for the purpose of mixing rapid setting low permeability deck repair concrete.

All cement concrete materials, concrete handling, placement, protection, curing, and finishing requirements of the *Standard Specifications for Highways and Bridges* shall apply. Mobile Concrete Mixers shall meet all the requirements of ASTM C685 and be currently registered with the Volumetric Mixer Manufacturers Bureau (VMMB).

Each Mobile Concrete Mixer used on MassDOT Highway Division projects shall be pre-qualified as follows: All Mobile Concrete Mixers are required to have a Quality System Manual (QSM) that conforms to the format outlined in AASHTO R-38 and that adequately addresses the information specified in AASHTO R-38. The QSM shall be approved by the Research & Materials Section annually. A copy of the approved QSM shall be kept with the Mobile Concrete Mixer and made available to the Engineer upon request. The Quality Control procedures for concrete production contained in the approved QSM shall be adhered to for all placements.

The concrete mixing and delivery equipment shall be capable of mixing and delivering concrete to the placement location at rates that are sufficient to comply with the project's restrictive time constraints. Cement concrete shall be proportioned and mixed using self-contained, mobile, and continuously mixing equipment that meets the following requirements:

1. Use a self-propelled mixer that is capable of carrying sufficient unmixed, dry, bulk cement, sand, coarse aggregate, and water to produce at least 6 cubic yards of concrete on site.
2. Use a mixer that is capable of positive measurement of cement introduced into the mix as well as fine and coarse aggregate. Use a recording meter that is visible at all times and equipped with a ticket printout to indicate the quantity of cement and aggregate materials.

**ITEM 909.3** (Continued)

3. Calibrate the mixers to accurately proportion the specified mix. Prior to placing concrete, perform calibration and yield tests under the Engineer's supervision and in accordance with the Department's written instructions. Copies of these written instructions are available from the Research & Materials Section. Perform the calibration and yield tests using the material to be used on the project. Recalibrate the mixer after any major maintenance operation on the mixer, anytime the source of materials changes, or as directed. Furnish all materials and equipment necessary to perform the calibrations and yield tests.
4. Use a mixer that controls the flow of water into the mix. Measure the flow rate of water with a calibrated flow meter coordinated with both the cement and aggregate feeding mechanisms and the mixer. Adjust the flow rate, as necessary, to control the slump and ensure that the water-cement ratios are met. In addition to flow meters, use mixers with accumulative water meters capable of indicating the number of gallons, to the nearest 0.1 gallon, introduced into the mixer. Filter water with a suitable mesh filter before it flows through the accumulative water meters.
5. Use a mixer that has a minimum of two liquid admixture dispensers and is capable of dispensing the admixtures through a controlled flow meter in accordance with ASTM C685.
6. Calibrate the mixer to automatically proportion and blend all components of the indicated composition on a continuous or intermittent basis as the finishing operation requires. Provide a mixer that discharges mixed material through a conventional chute and is capable of spraying water over the placement width as it moves ahead to ensure that the surface to be overlaid is wet prior to receiving the concrete.
7. Mount a tachometer on the unit to indicate the drive shaft speed.

Mix Design Requirements

<b>Performance Criteria</b>	
ASTM C191 Set Time (Mod)	
Initial Set	30 minutes
Final Set	40 minutes
<b>Slump of Concrete</b>	7 to 9 inches
Air Content	3% to 7%
<b>Compressive Strength</b>	
4 hours	2500 psi Minimum
7 days	5000 psi Minimum

**ITEM 909.3** (Continued)

<b>Bond Strength (ASTM C882)</b>	
24 hours	1200 psi Minimum
7 days	1900 psi Minimum
28 days	2200 psi Minimum
<b>Chloride Penetration (ASTM C1202)</b>	
90 days	1500 Coulomb Maximum
<b>Shrinkage (ASTM C157)</b>	
28 days	0.04% Maximum
<b>Freeze – Thaw Durability (ASTM C666)</b>	
300 cycles (Durability Factor)	80 Minimum
Unit Weight	150 pcf

The concrete mix design shall be in accordance with the relevant provisions of Subsection M4.01.6. Proposed mix design with data sheets and trial batches shall be submitted to the Research and Materials Section for review and approval. The Engineer shall be notified at least 48 hours prior to the test batching and shall be present to witness the testing.

All tests necessary to demonstrate the adequacy of the concrete mix shall be performed by the Contractor, including but not limited to: slump, air content, temperature, initial set and final set (AASHTO T197). Compressive strength tests shall be determined on field cured cylinders (4" X 8" cylinders) (a minimum of 9 sets of 3 cylinders = 27 total) at 3 hours, 4 hours, 5 hours, 6 hours, 24 hours, approximately 30 hours, 2 days, 3 days, and standard cured cylinders at 7 days, and additional cylinders as needed.

Compressive strength results of Standard and Field cured trial batch cylinders shall meet all the following minimum overdress strength requirements in order to be considered acceptable. Compressive strength results shall be the average of three (3) 4" x 8" cylinders:

4-hour cylinders: 3,000 psi  
 30-hour cylinders: 5,000 psi  
 7-day cylinders: 6,000 psi

Research & Materials Section personnel will witness calibration or verification of equipment and prequalification sampling and testing of concrete ingredients performed for each Mobile Concrete Mixer. Concrete mix design and trial batches shall be preapproved by the Research & Materials Section.

For any project where a Mobile Concrete Mixer is proposed to be used, the Contractor must prepare and submit a project-specific construction Quality Control Plan (QC Plan). The QC Plan shall conform to the format and content detailed in the Northeast Transportation Training and Certification Program (NETTCP) Model QC Plan (December 2009, or latest edition).

**ITEM 909.3** (Continued)

Information contained in relevant sections of the approved QSM for the proposed Mobile Concrete Mixer may be referenced, rather than repeated, in applicable sections of the QC Plan (e.g., Materials Control, Production Facilities). The QC Plan shall be submitted to the Engineer a minimum of 30 days prior to proposed placement of concrete by Mobile Concrete Mixer. The District Construction Engineer and the Research & Materials Section will review the QC Plan. The Contractor shall not place any concrete by Mobile Concrete Mixer prior to approval by the Research & Materials Section.

A signed batch ticket printout from the printer mounted on the Mobile Concrete Mixer truck indicating that the mix batched is in conformance with the mix design previously approved shall also be provided to the Engineer prior to discharging concrete. The batch ticket shall record the actual water/cement ratio.

Quality Control inspection, sampling and testing, including but not limited to slump, air content, temperature and cylinders for compressive strength, shall be performed by the Contractor in accordance with the approved QC Plan. The Engineer will perform Acceptance sampling (every 50 cubic yards per day per approved truck) and testing for field cured cylinders as well as Acceptance inspection for materials and workmanship attributes.

The use of Item 909.3 is prohibited when the ambient temperature is expected to drop below 40° F within 7 days prior to the anticipated concrete placement. The Engineer may suspend or revoke approval of the Mobile Concrete Mixer at any time the unit fails to produce uniformly mixed concrete within the quality limits specified.

Material to be mixed should have a temperature of about 70°F. Warmer material will set faster than expected and cooler material will have slower strength gain. The temperature of the mixed concrete shall be controlled by protecting the bags of repair material from temperature extremes and by adjusting the temperature of the mixing water.

The coarse aggregate shall be placed in the mixer followed by the mixing water, then the cement. The components shall then be mixed for 2 to 3 minutes to achieve a uniform lump-free consistency.

Admixtures not included as part of the approved mix design shall not be added without the approval of the Engineer. The repair concrete shall not be re-tempered. The concrete mixing and delivery equipment shall be capable of mixing and delivering concrete to the placement location at rates that are sufficient to avoid horizontal cold joints between successive placements.

**PLACEMENT AND FINISHING**

The deck repair concrete shall be placed onto substrates that are Saturated, Surface Dry (SSD). The manufacturer's limitations on minimum surface and ambient temperatures shall be complied with.

Surfaces that are adjacent to the placement shall be protected with drop cloths, waterproof paper, or other means to maintain them free of material splashes, water, and debris.

**ITEM 909.3** (Continued)

The deck repair concrete shall be placed immediately after mixing and shall be worked firmly into sides and bottom of repair area to achieve good bond. The concrete placement shall start at one edge of the excavation and shall continue full depth with temporary vertical bulkheads, if needed, to ensure that horizontal cold joints do not occur between successive concrete placements.

Final finishing shall be performed as soon as possible after placement as there will be little or no bleed water.

**BRIDGE DECK VIBRATION**

At the direction of the Engineer, in order to minimize the effects of vibrations from vehicular traffic passing in adjacent lanes next to each placement, traffic should be slowed along the adjacent travel lanes and the placement of concrete overlay should be executed between the hours of lower traffic volumes, generally between 12:00 AM and 2:00 AM.

**CURING**

Water curing of the deck repair concrete shall start once the deck repair concrete begins to lose its moist sheen. Wet burlap shall be placed on the deck repair concrete and the burlap shall be kept continuously wet for a 3 hours period after final set. Application of an approved curing compound in lieu of the 3 hours wet burlap cure must be reviewed and approved by the Engineer.

**CLEAN UP**

The mixer shall be cleaned immediately after use or add mix water and begin mixing immediately for the next batch. Buildup of hardened repair material in the mixer shall not be allowed since this creates inefficient mixing and the heat generated accelerates later batches.

**MANUFACTURER'S FIELD REPRESENTATIVE**

The Contractor shall arrange with the material's manufacturer or distributor to have the services of a competent field representative at the work site prior to any mixing of components to instruct the work crews in the proper mixing and application procedures.

The manufacturer's field representative must be fully qualified to instruct artisans or perform the work and shall be subject to the approval of the Engineer.

The Contractor shall be completely responsible for the expense and services of the required field representative, and the bid contract price shall be full compensation for all cost in connection therewith.

**ITEM 909.3** (Continued)**METHOD OF MEASUREMENT**

Item 909.3 will be measured for payment by the Cubic Yard of rapid setting low permeability concrete actually installed, complete in place.

**BASIS OF PAYMENT**

Item 909.3 will be paid for at the Contract unit price per Cubic Yard, which price shall include all labor, materials, equipment, tools, forms, field representative, and all incidental costs required to complete the work.

Payment for the excavation, removal, and disposal of all reinforced concrete for the repairs will be made as described in Items 127.1, 127.4, and 127.41.

Payment for installation of new reinforcing steel will be made, if required, under Item 910.1, Steel Reinforcement for Structures - Epoxy Coated.

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**ITEM 909.5**      **RAPID HARDENING CEMENTITIOUS PRODUCTS**      **CUBIC YARD**  
**FOR CONCRETE REPAIRS**

The work under this Item shall conform to the relevant Provisions of Subsection 901 of the Standard Specifications and the following:

The work under this Item shall consist of furnishing and placing rapid setting cementitious material that is suitable to repair concrete and pavement surfaces on bridges as required by the Engineer.

Please note the following requirements specified herein:

- A product listed on the Department Qualified Construction Materials List (QCML) for Rapid Set Concrete Patch Materials (Horizontal & Vertical/Overhead) shall be selected. All the manufacturer's recommendations shall be met.
- When concrete is exposed to air temperatures falling below, or expected to fall below 40°F, cold weather concreting methods shall be required. The Contractor shall, where practical, apply insulating materials, heaters, and/or enclosures to ensure that the concrete stays above the required temperatures (see *Cold Weather Concreting* section).
- When concrete is exposed to air temperatures falling below, or expected to fall below 40°F, the Contractor shall develop and submit to the Department for review and approval, a Cold Weather Concreting Plan, for the mixing, delivery, placement, finishing, curing, and protection of concrete during cold weather (see *Cold Weather Concreting* section).
- In instances where the Engineer identifies the situation as an emergency, the Engineer may identify the repair as temporary and have requirements of this specification waived. These temporary repairs shall be inspected and replaced when conditions are conducive to full compliance with this specification and prior to the end of the Contract.
- The Contractor shall notify the Department ten (10) days prior to the scheduled date of the verification trial batch testing.

All requirements identified above shall be performed in accordance with these specifications.

**MATERIALS**

Rapid hardening cementitious products for concrete repairs shall be packaged, dry, and preblended with preformulated constituent materials (excluding mixing water) to produce a mortar or concrete with acceptable quality characteristics and material properties, including rapid time of set, compressive strength, flexural strength, slant shear bond strength, and resistance to alkali silica reaction, freezing, thawing, and de-icing cycles, shrinkage, expansion, and sulfate reaction for horizontal, vertical, and overhead structures repair applications only.

**ITEM 909.5** (Continued)**Table 909.5-1: Types of Rapid Hardening Cementitious Products for Concrete Repairs**

Type	Description	Application
<b>R1</b>	General Rapid Hardening	Vertical and Overhead Repairs
<b>R2</b>	Medium Rapid Hardening	Vertical and Overhead Repairs
<b>R3</b>	Very Rapid Hardening	Horizontal, Vertical, and Overhead Repairs

Rapid hardening mortar products for concrete repairs shall be defined as products containing aggregate of which less than 5% by mass of the total mixture is retained on the 3/8 in. sieve and be used only on repair depths of 2 in. or less. Rapid hardening concrete products for concrete repairs shall be defined as products containing aggregate of which 5% or more by mass of the total mixture is retained on the 3/8 in. sieve and be used only on repair depths greater than 2 in.

Rapid hardening cementitious products for concrete repairs shall maintain valid participation in the Product Evaluation and Audit Solutions (PEAS) and listing on the Department Qualified Construction Materials List (QCML) and meet ASTM C928, the Manufacturer's instructions and recommendations, and the requirements specified herein. The product's PEAS test results shall meet Table 909.5-2.

**Table 909.5-2: Verification Testing Requirements**

Property	Method	Quality Characteristic		Verification Limits					
				R1		R2		R3	
				Min.	Max.	Min.	Max.	Min.	Max.
<b>Uniformity</b>	T 119	Slump (in.)		—	—	—	—	3	—
	C1437	Flow (%)		—	—	—	—	100	—
<b>Setting</b>	T 131	Initial Set (min.)		—	—	—	45	20	30
		Final Set (min.)		—	—	—	180	—	60
<b>Strength</b>	T 22 <sup>[1]</sup> Or T 106 <sup>[2]</sup>	Compressive Strength (psi)	3 Hours	500	—	1000	—	3000	—
			24 Hours	2000	—	3000	—	5000	—
			7 Days	4000	—	4000	—	5000	—
			28 Days	4000	—	4000	—	5000	—
	T 97	Flexural Strength (psi)	24 Hours	—	—	—	—	650	—
			7 Days	—	—	—	—	—	—
	C882	Slant Shear Bond Strength (psi)	24 Hours	1000	—	1000	—	1000	—
			7 Days	1500	—	1500	—	1500	—
<b>Durability</b>	T 358	Surface Chloride Ion Penetration Resistance (kΩ-cm)	28 Days	21	—	21	—	21	—
	T 161 (A)	Relative Durability Factor		90	—	90	—	90	—
		Mass Loss (%)		—	6.0	—	6.0	—	6.0

<sup>[1]</sup> For rapid hardening concrete products, AASHTO T 22 shall be performed.

<sup>[2]</sup> For rapid hardening mortar products, AASHTO T 106 shall be performed.

**ITEM 909.5** (Continued)

The product shall be extended using clean non-reactive aggregates from a MassDOT approved source according to a formulation acceptable to the manufacturer. Submit certified test reports showing the aggregate is non-reactive. Aggregate specified, labeled and furnished by the rapid set patching material manufacturer may be used with approval of the Engineer. The mixing process for expanding the rapid setting patching material shall be performed per the Manufacturer's recommendations.

Products that are extended with additional constituent materials not included in the original product packaging or products with modifications to the original product formulation shall be evaluated through Department Mix Design Evaluation and Verification Testing in addition to the requirements specified herein. The Contractor shall report proposed mix design formulations onto the Department issued mix design sheet in its entirety and submit to the Department for evaluation. Mix design formulations shall be designed with precise proportions of constituent materials, yielding  $27.0 \pm 0.40$  cubic feet of cement concrete. All required mix design targets shall be reported on the Department issued mix design sheet for each proposed mix design. The product's additional verification test results shall meet Table 909.5-3.

**Table 909.5-3: Additional Verification Testing Requirements for Extended Products**

Property	Method	Quality Characteristic	Verification Limits	
			Min.	Max.
<b>Uniformity</b>	T 119	Slump (in.) <sup>[1]</sup>	For Information	
	T 121	Unit Weight (lbs / ft <sup>3</sup> ) <sup>[1]</sup>	Target -1.5	Target +1.5
<b>Workability</b>	T 119	Segregation Resistance <sup>[2]</sup>	Pass	
<b>Thermal</b>	T 309	Concrete Temperature (°F)	50	90
<b>Strength</b>	T 22	Compressive Strength (psi) <sup>[3][4]</sup>	Table 909.5-2	
<b>Durability</b>	T 152	Air Content (%) <sup>[1]</sup>	For Information	
	T 358	Surface Chloride Ion Penetration Resistance (kΩ-cm) <sup>[3]</sup>	Table 909.5-2	

<sup>[1]</sup> Prior to mix design verification testing, the Contractor shall identify and report the proposed mix design targets onto the Department issued cement concrete mix design sheet. Any adjustments made to the proposed mix design targets shall be based on the verification test results, and are subject to Department approval and the requirements specified herein.

<sup>[2]</sup> Testing for segregation resistance shall be performed while the concrete is being discharged and during AASHTO T 119 Standard Method of Test for Slump of Hydraulic Cement Concrete. Visual signs of segregation include coarse particles advancing in front of or behind the fine particles and mortar and a tendency for coarse aggregate to separate from the mortar, particularly when the mixture is being consolidated.

<sup>[3]</sup> Three (3) 4 x 8 in. cylinders shall be cast and tested for each age identified.

<sup>[4]</sup> For cold weather concreting applications, ASTM C1074 Standard Practice for Estimating Concrete Strength by the Maturity Method may be used for determining strength during production. Prior to production, maturity method strength curves shall be developed with validated compressive strength specimens.

**ITEM 909.5** (Continued)**CONSTRUCTION**

All concrete surfaces shall be prepared in accordance with PREPARATION OF CONCRETE SURFACES.

The rapid setting repair material shall be cured and protected until the minimum compressive strength is achieved.

The Contractor shall be required to mix and place the cement by using an eight (8) cubic foot minimum rubber-blade mobile mixer. Two (2) mixers will be required to be on site, of which one mixer can be used as a back-up. Sufficient mixing and placing equipment shall be provided on the construction site by the Contractor to ensure that a breakdown of equipment will not cause significant delays in completing the scheduled work in the shift.

Approval by the Engineer for all formwork shall be required prior to placement of any concrete.

The Engineer may require the Contractor to vibrate and/or power screed the patched area. Payment for such equipment shall be considered incidental to this Item.

At the direction of the Engineer, in order to minimize the effects of vibrations from vehicular traffic passing in adjacent lanes next to each placement, traffic should be slowed along the adjacent travel lanes and the placement of concrete overlay should be executed between the hours of lower traffic volumes, generally between 1:00 AM and 2:30 AM

Rapid setting concrete placements shall be completed no later than 2:30 AM for nighttime operations so that the required compressive strength of 2000 psi is attained before the area is opened to traffic no later than 5:30 A.M.

Formwork shall be maintained and remain in place a minimum of seventy-two (72) hours after placement.

All formwork placed under this contract must be removed no later than forty-five (45) days after it was initially placed. Failure to remove formwork within forty-five (45) days may result in its removal by others with the associated costs being assessed to the Contractor.

**Cold Weather Concreting.**

Cold weather concreting shall be defined as the procedures, operations, materials, and equipment required for the mixing, delivery, placement, finishing, curing, and protection of concrete during cold weather conditions, while exposed to air temperatures falling below, or expected to fall below 40°F.

The protection period shall be defined as the minimum duration required to prevent concrete from the negative effects of cold weather exposure. The protection period shall remain in place while cold weather conditions exist. Controlled and gradual termination of the protection period shall be conducted only after 100%  $f'_c$  is attained and all specified conditions are met.

**ITEM 909.5** (Continued)

The procedures, operations, materials, and equipment selected for cold weather concreting shall adequately maintain specified temperature ranges by addressing all variables, including ambient weather conditions, geometry of the structure, and mix design proportions. Concrete temperatures for cold weather concreting shall meet Table 909.5-4.

**Table 909.5-4: Concrete Temperature Requirements for Cold Weather Concreting**

Phase	Cold Weather Temperature (°F)	Thickness of Sections (ft.)			
		< 1	1-3	3-6	> 6
		Concrete Temperature (°F)			
Mixing	30-39	60-75	55-70	50-65	45-60
	0-30	65-80	60-75	55-70	50-65
	< 0	70-85	65-80	60-75	55-70
Placement	< 40	55-75	50-70	45-65	40-60
Protection Period	< 40	55-75	50-70	45-65	40-60
Termination of Protection Period	< 40	Rate of Concrete Temperature Decrease in 24 Hours (°F)			
		≤ 50	≤ 40	≤ 30	≤ 20

Cold weather concreting procedures, operations, materials, and equipment shall be developed and performed to prevent damage to concrete due to freezing at early ages, to ensure that the concrete develops the recommended strength for safe removal of forms, to maintain curing conditions that promote quality strength and durability development, to limit rapid temperature fluctuation, and to provide protection consistent with intended serviceability of the structure.

The Contractor shall develop and submit to the Department for review and approval, a Cold Weather Concreting Plan, for the mixing, delivery, placement, finishing, curing, and protection of concrete during cold weather, including:

- Procedures for protecting the subgrade from frost and the accumulation of ice or snow on reinforcement or forms prior to placement
- Methods and requirements for cold weather protection and temperature control of constituent materials incorporated into the mix design
- Chemical admixtures incorporated into the mix design for cold weather protection and temperature control
- Methods and requirements for cold weather protection and temperature control during mixing, delivery, placement, finishing, curing, and protection period
- Curing methods to be used during and following the protection period
- Types of covering, insulation, heating, or enclosures to be provided

**ITEM 909.5** (Continued)

- Methods for verification of in-place strength
- Procedures for measuring and recording concrete temperatures
- Procedures for preventing drying during dry, windy conditions

All procedures, operations, materials, and equipment required for adequate protection and curing shall be present and ready for use prior to concrete production.

**Insulating Materials.**

Insulating materials used for cold weather concreting shall meet the requirements specified herein. The thermal resistance of the proposed insulation system shall be determined to meet the concrete temperature range requirements specified herein. Supplemental heat, including hydronic heating systems, shall be applied in instances where insulating materials cannot achieve the concrete temperature requirements.

**Heaters.**

Heaters used for cold weather concreting including direct fired, indirect fired, and hydronic heaters shall meet ANSI A10.10 carbon monoxide limits, safety regulations for ventilation, and the stability, operation, fueling, and maintenance of heaters and the requirements specified herein.

1. **Direct Fired Heaters:** Direct fired heaters generate heat to an enclosed space through the combustion of fossil fuels, including oil, kerosene, propane, gasoline, and natural gas. Hot air comprised of carbon dioxide and carbon monoxide combustion products, is discharged into the enclosed space. Direct fired heaters shall be prohibited from heating the air directly surrounding the concrete surface due to calcium carbonate formation interfering with the hydration reaction, from the reaction between the carbon dioxide generated from the combustion of fossil fuels and the calcium hydroxide on the surface of freshly placed concrete, resulting in a soft, chalky, and nondurable concrete surface. Direct fired heaters shall only be used on concrete surfaces protected from fossil fuel combustion products.
2. **Indirect Fired Heaters:** Indirect fired heaters generate heat to an enclosed space through the combustion of fossil fuels, including oil, kerosene, propane, gasoline, and natural gas. The carbon dioxide and carbon monoxide combustion products are expelled through venting, resulting in clean heated air discharged into the enclosed space. Indirect fired heaters are suitable for heating the air directly surrounding the concrete surface.

**ITEM 909.5** (Continued)

3. **Hydronic Heaters:** Hydronic heaters generate heat to an enclosed space through the circulation of the heat-transfer fluid in a closed system of pipes or hoses. The heat-transfer fluid is comprised of a propylene glycol water solution and is heated through the combustion of fossil fuels, including diesel fuel and kerosene. The combustion of fossil fuel occurs outside of the enclosed space and does not expose the concrete surface to the deleterious effects of carbon dioxide. After the concrete placement achieves final set, polyethylene film or other suitable material shall sufficiently serve as a vapor barrier. The heat-transfer hoses shall be placed on top of the vapor barrier and covered with insulating materials. Hydronic heaters shall be used to thaw or preheat subgrades prior to concrete placement and provide supplementary heat to insulating materials. Hydronic heaters shall provide an even distribution of heat to prevent curling and cracking induced by temperature gradients within concrete.

**Enclosures.**

Enclosures shall be made of wood, canvas tarpaulins, polyethylene film, or prefabricated rigid plastic. Enclosures shall be airtight, block wind, prevent admittance of cold air, conserve heat, and withstand wind and snow loads. Enclosures shall provide adequate headroom for craftsmen and sufficient space between the concrete and the enclosure to permit free circulation of warm air. Supplementary heat shall be supplied to enclosures by hydronic heaters, live steam, hot forced air, or indirect fired combustion heaters. Icing along the perimeter of the enclosure shall be prevented when live steam is utilized. Heaters and ducts shall be positioned to prevent the hot, dry air from overheating or drying the concrete surface. Insulating materials shall be applied as a vapor barrier to the concrete surface immediate after final set is attained.

**METHOD OF MEASUREMENT**

Item 909.5 will be measured for payment by the Cubic Yard of rapid setting concrete furnished and installed complete in place.

**BASIS OF PAYMENT**

Item 909.5 will be paid at the Contract unit price per Cubic Yard, which price shall include all labor, materials, tools, equipment, and all incidental costs required to complete the work as required by the Engineer, including installation and subsequent removal of all formwork. Any required trial batching and acceptance testing including the cost associated with hiring certified technician shall also be incidental to this Item. Additional costs associated with cold weather concreting are incidental to this Item.

Where formwork is placed for a full depth repair, payment will be made at 70% of the measured volume, the remaining 30% will be made upon the removal of the formwork.

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**ITEM 910.1**      **STEEL REINFORCEMENT FOR STRUCTURES -**      **POUND**  
**EPOXY COATED**

The work under this Item shall conform to the relevant Provisions of Subsection 901 of the Standard Specifications and the following:

Reinforcing Steel Manufacturer shall be listed on the Qualified Construction Materials List (QCML).

All requirements of Subsection 901.35 Reinforcement shall be adhered to, including but not limited to lapping at splices and ties at every other intersection.

The Contractor may be required to submit for approval, detail plans and schedule of bar reinforcement. The Contractor will replace reinforcing bars as directed by the Engineer. Any reinforcing steel damaged by the Contractor's operations will be replaced by the Contractor at their own expense.

The Contractor may be required to use standard non-epoxy coated (black bar) instead of epoxy coated bar as directed by the Engineer.

**METHOD OF MEASUREMENT**

Item 910.1 will be measured for payment per Subsection 901.70 of the Standard Specifications.

**BASIS OF PAYMENT**

Item 910.1 will be paid per Subsection 901.71 of the Standard Specifications.

The use of non-epoxy coated black bar will be substituted with no additional compensation, as required by the Engineer.

**ITEM 955.1****TIMBER DECK MAINTENANCE CREW****HOURLY**

The work under this Item shall conform to the relevant provisions of Subsection 955 of the Standard Specifications and the following:

Under this Item, the Contractor shall provide a crew consisting of a minimum of a supervisor and three carpenters when repairs to timber bridge decks are required under this Contract and approved by the Engineer.

The Work under this Item consists of removing and replacing in kind existing timber bridge deck components, which are no longer suitable, as directed by the Engineer, and any other miscellaneous applications requiring handwork as required by the Engineer.

The timber components of the existing structure are suspected to be treated with creosote, pentachlorophenol and/or CCA. The Contractor is advised that all timber components to be removed shall be presumed to be treated until it is clearly demonstrated otherwise by testing. The Contractor is required to submit disposal manifests to the Engineer prior to the completion of the project.

All aspects of this Item are to be completed in accordance with state and federal regulations. At each site that TREATED TIMBER is required under the contract the Engineer shall determine the structural grade and species to be furnished and installed. Timber shall not be treated with creosote, pentachlorophenol, or inorganic arsenic [including chromated copper arsenate (CCA), ammoniacal copper arsenate (ACA), and ammoniacal copper zinc arsenate (ACZA)]. All timber and work shall be in accordance with American Wood Preservers' Association (AWPA) Standards including the most recent Standards M4 and U1. All installed materials including any required tar paper shall be asbestos-free. The Contractor shall remove and replace-in-kind existing timber components using methods approved by the Engineer.

**METHOD OF MEASUREMENT**

Item 955.1 will be measured per Hour which includes time spent for a maintenance crew at the bridge performing repairs.

**BASIS OF PAYMENT**

Item 955.1 will be paid for at the Contract unit price per Hour which includes time spent for a maintenance crew consisting of a crew consisting of a minimum of a supervisor and three carpenters, all labor, tools, equipment, materials, testing, loading, transport, approvals, permits, disposal of materials, and incidental costs required to complete the work.

Payment for any work for which there is a contract item will be paid for at the contract unit prices, and no further payment shall be made under this Item.

**ITEM 955.1** (Continued)

Removal and reinstallation of bridge components including fencing, railing and curbing may be required to complete the work and should be measured for payment per Hour under this item.

Any transportation required for the maintenance crew to travel to and from a job site will be incidental to the work.

Item 955.1 will be paid in the 0.5-hour increment.

The contractor will be paid for the removal and disposal of the treated wood products under non-bid items included in this Contract.

**ITEM 971.2****MODIFIED ASPHALTIC BRIDGE JOINT SYSTEM****FOOT**

The work under this Item shall conform to the relevant provisions of Subsection 971, as modified below and as follows.

The work under this Item shall include preparation and installation of a multi-component joint system. The work under this Item differs from the requirements contained in Subsection 971 as follows:

1. A pre-compressed seal joint system shall be used in place of the backer rod.
2. An air gap between the binder and pre-compressed seal shall be maintained through the section at the roadway.
3. A non-woven fabric material shall be used in place of the bridge plate.

Incidental to this Item shall be the placement of a pre-compressed seal joint system and non-sag joint sealer above the pre-compressed seal through the safety curb, sidewalk, median and barrier joint.

At locations where the seal is exposed on a sidewalk a non-sag joint sealer shall be installed over the width of the pre-compressed seal itself flush with the top of sidewalk.

**MATERIALS****ASPHALTIC BINDER, COMPACTED AGGREGATE, AND NON-SAG JOINT SEALER**

Materials for the Asphaltic Binder and Aggregate for the Modified Asphaltic Bridge Joint System shall meet the requirements specified in the following Subsections of Division III, Materials:

Polyurethane Joint Sealer, Non-Sag.....	M9.14.4
Asphaltic Binder for Asphaltic Bridge Joint System .....	M9.17.0
Aggregate for Asphaltic Bridge Joint System.....	M9.17.1

**PRE-COMPRESSED SEAL JOINT SYSTEM**

The pre-compressed seal joint system assembly shall consist of a preformed/pre-compressed seal epoxy adhesive, injected silicone sealant bands, all combined in manner required by the manufacturer's specification and to form a continuous watertight seal.

The materials comprising the pre-compressed seal joint system shall be capable of accommodating minimum movements of +50%, -50% (Total 100%) of nominal material size.

Depth and installation of seal shall be as recommended by manufacturer.

The preformed, pre-compressed, self-expanding, sealant system with silicon pre-coated surface shall be comprised of three components:

- 1) cellular polyurethane foam impregnated with hydrophobic 100% acrylic (to be certified in writing by independent laboratory tested FTIR and DSC analysis to be free in composition of any waxes or wax compounds), water based emulsion, factory coated with highway-grade, fuel resistant silicone;
- 2) field-applied epoxy adhesive primer;
- 3) field-injected silicone sealant bands.

**ITEM 971.2** (Continued)

Impregnation agent is to have proven non-migratory characteristics. Silicone coating to be highway-grade, low-modulus, fuel resistant silicone applied to the impregnated foam sealant at a width greater than maximum allowable joint extension and which when cured and compressed will form a bellow. Size of the seal shall be as recommended by manufacturer for the specific location and may vary along the length of the joint. The foam seal shall be installed into manufacturer's standard field-applied epoxy adhesive. The seal system is to be recessed from the deck surface such that after the field applied injection band of silicone is installed between the substrates and the foam, the highest part of the pre-applied silicone facing will be below the deck surface.

Changes in plane and direction at locations, such as gutter line and face of barriers, shall be executed using factory-fabricated "universal 90" or custom transition assemblies supplied by the manufacturer of the pre-compressed seal. Transitions shall be warranted to be watertight at inside and outside corners through the full movement capabilities of the product.

The contractor shall certify in writing that the expansion joint seal system is capable of withstanding 150°F for three hours while compressed down to the minimum of movement capability dimension of the basis of design product (-50 percent of nominal material size) without evidence of any bleeding of impregnation medium from the material, and that the same material after the heat stability test will self-expand to the maximum of movement capability dimension of the basis-of-design product (+50 percent of nominal material size) within 24 hours at room temperature 68°F.

The Contractor shall submit measurements of the joint at a given temperature for the District Bridge Engineer to confirm the modified asphaltic plug joint does not need an adjustment of the joint opening or seal size. The joint opening shall be 1½" at 50 degrees for a 2" pre-compressed seal.

All material for the pre-compressed joint seal system shall be stored indoors, in a dry area out of direct sunlight at room temperature.

**BRIDGING MATERIALS**

The bridging material shall be a nonwoven fabric compatible with paving operations.

The Contractor shall use one of the following products unless otherwise approved by the Engineer:

1. Mirafi MPV500 Paving Fabric manufactured by Tencate Mirafi Geosynthetics
2. TerraTex OLI manufactured by Hanes Geo Component
3. US 100 P manufactured by USFabrics
4. FX42A/O manufactured by Carthage Mills
5. Or approved equal meeting the material requirements below.

Property	Test Method	Minimum Value
Grab Tensile Strength	ASTM D-4632	100 lbs
Grab Tensile Elongation	ASTM D-4632	50%
Asphalt Retention	ASTM D-4160	0.20 gal / SY
Melting Point	ASTM D-276	300° F
UV Resistance @ 500 Hours	ASTM D-4355	70%

**ITEM 971.2** (Continued)**ANTI-TACKING MATERIAL**

The anti-tacking material shall be a fine graded granular material with 100% passing the 3/16" sieve and no more than 5% passing the #200 when tested in accordance with AASHTO T-27.

**CONSTRUCTION METHODS**

Any existing joint removal, deck reconstruction and wearing surface placement shall take place in advance of the new joint installation. Any existing concrete to remain below the joint shall be inspected for signs of deterioration. If necessary deteriorated sections of concrete and steel shall be repaired as directed by the Engineer and shall be paid under separate Item(s).

Prior to installation of the joint system, the joint opening should be sandblasted to a CSP of 3-6 and blown clean using compressed air. The compressed air shall be free of moisture and oil. To ensure cleanliness, the joint walls shall be wiped clean with a solvent-dampened, lint-free rag to the depth of the bottom of the pre-compressed seal material plus one inch (1") to remove any dust remaining. The joint gap shall be inspected for cleanliness by The Engineer. Should any contaminants remain, the joint must be re-cleaned.

The pre-compressed seal, epoxy adhesive, and injected silicone sealant band shall be installed in accordance with the contract drawings. The pre-compressed seal joint system shall be continuous through median barriers, and parapets. Continuity of seal shall be achieved through the use of factory-fabricated universal or custom transitions supplied by the pre-compressed joint seal manufacturer. Install silicone corner beads and silicone band forced down alongside of pre-compressed seal on both sides.

The bridging material shall only be installed after the materials of the pre-compressed seal joint are fully cured and set for at least thirty (30) minutes.

Place tack coat, binder or primer (as specified by the manufacturer) on deck surfaces and install bridging material in accordance with the manufacturer's recommendations. There shall be no joints or laps in the paving fabric material.

The minimum ambient air temperature shall be 40°F and rising during any installation of the joint components.

Following the completion of the installation of the binder, the finished joint shall be dusted with anti-tacking material. Non-sag joint sealer shall be applied in sidewalk, median and barrier joints where applicable.

The Contractor shall be responsible for removing all binder material that leaks through the joint and is deposited on any bridge component, including underside of decks, headers, beams, diaphragms, bearings, abutments, and piers.

**ITEM 971.2** (Continued)**QUALITY CONTROL****MANUFACTURER'S FIELD REPRESENTATIVE**

The Contractor shall arrange with the pre-compressed seal joint system's manufacturer or distributor to have the services of a competent field representative at the work site prior to any installation to instruct the work crews in the proper installation procedures. The field representative shall remain at the job site after work commences and continue to instruct until the representative and the Contractor, Inspector and/or Engineer are satisfied that the crew has mastered the technique of installing the system successfully. The representative shall make periodic visits to the project as the work progresses and shall confer on each visit with the Contractor, Inspector and/or Engineer.

A qualified employee of the asphaltic binder manufacturer or an installer certified by the manufacturer and approved by the Department shall be at the job site prior to the beginning of the joint construction process to instruct the work crews in proper joint construction procedures and shall remain on the job site for the duration of the installation of the asphaltic material.

The manufacturer's field representatives must be fully qualified to perform the work and shall be subject to the approval of the Engineer.

The Contractor shall be completely responsible for the expense of the service of the required field representatives and the bid contract price shall be full compensation for all costs in connection therewith.

**QUALITY CONTROL PLAN**

The Contractor shall submit a Quality Control Plan at least 30 days before the start of work to the Engineer for approval.

The submittal shall include:

- The qualifications of the installer.
- List of manufactured materials and their properties
- Material Certificates and Certificates of Compliance for the asphalt binder, aggregate and pre-compressed seal joint.
- Detailed step by step installation procedure
- List of the specific equipment to be used for the installation.

The Quality Control Plan must fully comply with the specifications and address all anticipated field conditions, including periods of inclement weather. The Contractor's QC personnel will perform Quality Control inspection and testing of polymeric modified asphalt binder heating, blending, placement, compaction, and finishing.

The Installer shall have previously demonstrated the ability to have successfully produced a joint of similar nature and shall provide documentation of a working joint to the Department.

The Contractor shall provide a daily field QC Inspection Report to the Engineer within 48 hours of the work. The report shall include at a minimum the weather conditions during installation, material temperature, materials details, and pictures (or videos) of each step from preparation to open to traffic.

**ITEM 971.2** (Continued)**METHOD OF MEASUREMENT**

Item 971.2 will be measured for payment by the Foot, as measured along the joint centerline between curb lines complete in place.

The joint treatment at the safety curb, sidewalk, median and barriers shall be considered incidental to the work done under this Item.

**BASIS OF PAYMENT**

Item 971.2 will be paid for at the Contract unit price per Foot, which price shall be considered full compensation for installation of the Modified Asphaltic Bridge Joint System including all labor, material, equipment, manufacturer's representative, and all incidental costs required to complete the work.

Removal of existing joints and materials will be paid for under the respective items.

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**ITEM 973.**      **PRE-COMPRESSED SEAL BRIDGE JOINT SYSTEM**      **FOOT**

The work under this Item shall conform to the relevant provisions of Subsections 971 and 972 of the Standard Specifications and the following:

The work shall consist of furnishing and installing a continuous pre-compressed seal bridge joint system at locations specified by the Engineer. The pre-compressed seal bridge joint system assembly shall consist of a preformed and pre-compressed seal, epoxy adhesive, and injected silicone sealant bands all combined so that a fully operational, waterproof system will seal the joint opening.

All joint sealing material shall be capable of accommodating movements of +50%, -50% (100% total) of nominal material size.

The seal system shall be comprised of three components: 1) cellular polyurethane foam impregnated with hydrophobic 100% acrylic (to be certified in writing by independent laboratory tested FTIR and DSC analysis to be free in composition of any waxes or wax compounds), water-based emulsion, factory coated with highway-grade, fuel resistant silicone; 2) field-applied epoxy adhesive primer; 3) field-injected silicone sealant bands. Impregnation agent is to have proven non-migratory characteristics. Silicone coating to be highway-grade, low-modulus, fuel resistant silicone applied to the impregnated foam sealant at a width greater than maximum allowable joint extension and which when cured and compressed will form a bellow. Depth of seal shall be as recommended by manufacturer. The foam seal shall be installed into manufacturer's standard field-applied epoxy adhesive. The seal system is to be recessed from the deck surface such that after the field applied injection band of silicone is installed between the substrates and the foam, the highest part of the pre-applied silicone facing will be below the deck surface per the manufacturer's specifications.

Changes in plane and direction shall be executed using factory-fabricated "universal 90" or custom transition assemblies supplied by the same manufacturer of the pre-compressed seal. Transitions shall be warranted to be watertight at inside and outside corners through the full movement capabilities of the product.

#### Construction Method

When applicable, the new deck concrete must be cured and reach its design compressive strength prior to the installation. The joint opening of the reinforced concrete deck slabs shall be formed to have uniform and parallel surfaces. The joint opening shall be protected by the Contractor to prevent any edge damage by any site equipment throughout the on-going construction process.

Prior to installation of the joint system, the joint opening should be blown clean using compressed air. The compressed air shall be free of moisture and oil. To ensure cleanliness, the joint walls shall be wiped clean with a clean wet cloth to the depth of the bottom of the pre-compressed seal material plus 1" to remove any dust remaining. The joint gap shall be inspected for cleanliness by the Engineer. Should any contaminates remain, the joint must be re-cleaned.

**ITEM 973.** (Continued)

The pre-compressed seal, epoxy adhesive, and injected silicone sealant band shall be installed in accordance with the manufacturer's recommendations. The pre-compressed joint sealant shall be continuous through sidewalks, curbs, medians, and parapets as appropriate to the conditions at hand. Continuity of seal shall be achieved using factory-fabricated universal or custom transitions supplied by the pre-compressed joint seal manufacturer.

**Manufacturer's Field Representative**

The Field Representative must be fully qualified to perform the work and shall be subject to the approval of the Engineer.

The Contractor shall arrange with the pre-compressed seal joint's manufacturer or distributor to have the services of a competent field representative at the work site prior to any installation to instruct the work crews in the proper installation procedures.

The Field Representative shall remain at the job site after work commences and continue to instruct until the Field Representative, the Contractor, the Inspector, and the Engineer are satisfied that the crew has mastered the technique of installing the system successfully.

The Field Representative shall make periodic visits to the project as the work progresses and shall confer on each visit with the Contractor, Inspector, and Engineer.

The Contractor shall be completely responsible for the expense of the service of the required field representative and the bid contract price shall be full compensation for all costs in connection therewith.

**METHOD OF MEASUREMENT**

Item 973. will be measured for payment by the Foot, as measured along the joint centerline between the curb lines of pre-compressed seal bridge joint system installed, complete in place.

**BASIS OF PAYMENT**

Item 973. will be paid for at the Contract unit price per Foot, which price shall include all labor, Field Representative, materials, equipment, and all incidental costs required to complete the work.

<b><u>ITEM 994.02</u></b>	<b><u>PROTECTIVE SHIELDING OVER RAILROAD TRACKS</u></b>	<b><u>SQUARE FOOT</u></b>
<b><u>ITEM 994.1</u></b>	<b><u>TEMPORARY PROTECTIVE SHIELDING</u></b>	<b><u>SQUARE FOOT</u></b>

The work under these Items shall provide for the protection of traffic, persons, and facilities beneath bridges from falling debris during the removal of the disintegrated concrete within the bridge decks, sidewalks, and all other appurtenances on the bridge superstructure, where and as required by the Engineer. The Contractor is responsible for the designing, furnishing, installing, maintaining, removing, and disposing of all temporary shielding.

No portion of the bridge deck shall be removed until the protective shielding is in place and complete.

Item 994.02 will be used to pay for the installation and removal of temporary shielding on the bridge spans that are over railroad. The shielding shall be installed in accordance with and in cooperation with the particular railroad's schedule and work restrictions. The Contractor is advised that live, high-voltage lines may be present at various railroad bridges, and precautions may be necessary in order to undertake the installations.

Item 994.1 will be used to pay for the temporary shielding installation and removal in other situations.

Note that some of the bridges, due to their height (vertical clearance), will require special lifting equipment in order to place shielding for the assigned bridge repair work. Any equipment necessary to erect forms will be considered incidental to these items.

Any existing formwork on the bridge shall also be removed and disposed by the Contractor away from the job area, at no additional expense.

All shielding shall meet the following requirements:

- Temporary Protective Shielding must be used on bridges over roadways, railroads, and waterways during full depth excavation and when, in the opinion of the Engineer, there is the possibility of dislodging concrete from the bottom of the deck, parapets or coping. In some cases, the Contractor may be able to utilize the bottom flanges of existing steel beams as supports for the protective shielding. However, the Contractor will not be permitted to weld onto, drill into, or cut any existing structural steel beams.
- The Contractor shall submit drawings and calculations stamped by a Professional Engineer of the appropriate discipline registered in Massachusetts of the proposed temporary shielding to the Engineer for approval prior to its installation. The drawings shall include details of all connections, brackets, and fasteners. However, when the spacing between existing steel beams is 70 inches or less, the Contractor may utilize a wood plank shielding scheme.

**ITEMS 994.02 and 994.1 (Continued)**

- Shielding shall be designed to safely withstand all loads that it will be subjected to. The allowable design stresses shall be in accordance with AASHTO Standard Specifications for Highway Bridges, 17th Edition. The design shall also include a description of the equipment and construction methods proposed for the deck, parapet, or coping excavation and the maximum size of the area being excavated. The shielding shall also be designed to withstand the maximum size of the excavated area should it fall during excavation or removal. No debris shall be swung over traffic, on or below the bridge.
- Shielding shall be designed such that impact on traffic during installation and removal shall be minimal. The Contractor shall submit the traffic plan to the Engineer for approval.
- The shielding shall extend a sufficient distance above and beyond the deck overhang at the fascia where concrete excavation is required outside the fascia beams. The shielding shall extend the length of the damaged or distressed portion of the deck a length of sufficient distance to do the required deck demolition. Also, the width of shielding shall completely extend over the travel lanes and shoulders of the highway below and shall extend a minimum of one beam width in the transverse direction beyond the limits of the excavation.
- The Engineer may request that the shielding be designed so that it may also serve as false work (forms) for all areas of full-depth concrete replacement/repair.
- The shielding shall not decrease the minimum vertical bridge clearance to the roadway unless otherwise approved by the Engineer.
- The shielding shall be maintained and remain in place until the strength of the concrete used to repair the deck has cured and reached the design strength requirement, except where shielding needs to be removed and reset to install formwork for the areas of full depth repair. The shielding shall remain the property of the Contractor and shall be removed by the Contractor from the site when no longer needed.

If the Contractor's operations damage any existing portions of the bridge that are to remain, such damage shall be repaired at the Contractor's own expense.

All materials used in the temporary shielding system shall become the property of the Contractor and shall be removed from the site upon the completion of the project.

**METHOD OF MEASUREMENT**

Item 994.02 shall be measured for payment by actual Square Foot of shielding installed, maintained, and removed upon completion of repair work as required by the Engineer.

Items 994.1 shall be measured for payment by actual Square Foot of shielding installed, maintained, and removed upon completion of repair work as required by the Engineer.

**ITEMS 994.02 and 994.1** (Continued)**BASIS OF PAYMENT**

Items 994.02 and 994.1 will be paid for at the respective Contract unit prices per Square Foot, which price shall include all labor, materials, equipment, removal and disposal of all debris, shielding installation, maintenance, final removal upon completion of repair work, and all incidental costs required to complete the work.

Payment of 60% of the Square Foot of these Items will be made upon complete installation. The remaining 40% of the Square Foot of these Items will be paid following complete removal.

Compensation to provide Engineering Services, when required, will be separately paid as a Non-Bid Item.

**ITEM 994.12****TEMPORARY PROTECTIVE SHIELDING  
REMOVED AND RESET****SQUARE FOOT**

The work under this Item consists of removing and resetting any previously installed protective shielding that may interfere with operations of the concrete deck repairs.

**Note:** Previously installed protective shielding may interfere with the Contractor's operations for full depth concrete deck repairs. Prior to commencing work, the Contractor shall submit to the Engineer for approval, proposed construction methods for removing and resetting the protective shielding.

Any debris that falls on the shielding shall be completely cleaned off from the protective shielding and disposed of offsite by the Contractor. Removal and disposal of materials will be subject to the regulations and requirements of local authorities governing the disposal of such materials. The disposal shall be done at no additional charge.

Any shielding damaged by the Contractor shall be replaced at the Contractor's expense. Any existing locations where protective netting has become damaged beyond the control of the Contractor, (in the opinion of the Engineer), may be replaced at the Engineer's discretion.

Compensation to provide new replacement protective netting will be made under Payment for Materials (Non-Bid Items).

**METHOD OF MEASUREMENT**

Item 994.12 will be measured for payment by the Square Foot of the temporary protective shielding removed and reset.

**BASIS OF PAYMENT**

Item 994.12 will be paid at the Contract unit price per Square Foot, which price shall include all labor, materials, tools, equipment, and all incidental costs required to complete the work.

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# **DRAWINGS AND SKETCHES**

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	DATE: 06/17/2025
	CHKD BY: CJL
	DATE: 06/17/2025

DECK REPAIR GENERAL NOTES:

1. REPLACE DETERIORATED DECK CONCRETE AND ANY EXISTING TEMPORARY CONCRETE PATCHES, SUCH AS DURACAL PATCHES, WITH NEW CONCRETE.
2. INSPECT THE DECK TO IDENTIFY ADDITIONAL AREAS OF FULL AND PARTIAL DEPTH DECK REPAIRS. THE FINAL LIMITS OF JOINT AND DECK REPAIRS TO BE DETERMINED BY THE ENGINEER.
3. CONCRETE EXCAVATION ASSOCIATED WITH THE BRIDGE DECK REPAIRS SHALL BE PAID FOR UNDER ITEMS 127.4 REINFORCED CONCRETE DECK EXCAVATION (FULL DEPTH) AND/OR ITEM 127.41, REINFORCED CONCRETE DECK EXCAVATION (PARTIAL DEPTH).
4. ALL CONCRETE USED IN THE DECK REPAIRS SHALL BE LOW PERMEABILITY CONCRETE. THE TOP SURFACE OF THE REPAIR MATERIAL SHALL BE FLUSH WITH THE EXISTING CONCRETE DECK.
5. ALL EXISTING STEEL REINFORCEMENT SHALL REMAIN IN PLACE. NEW EPOXY COATED STEEL REINFORCEMENT SHALL BE PLACED TO SUPPLEMENT EXISTING REINFORCEMENT THAT HAS A SECTION LOSS OF 25% OR MORE OF THE ORIGINAL CROSS SECTION AREA OR HAS BROKEN, AS DETERMINED BY THE ENGINEER. NEW REINFORCEMENT SHALL EXTEND 30 BAR DIAMETERS IN EACH DIRECTION FROM WHERE THE SECTION LOSS OR BREAK ENDS. THE LIMITS OF THE REPAIR SHALL BE MODIFIED TO MEET THE REINFORCEMENT STEEL LAP SPlice REQUIREMENTS. NEW REINFORCING STEEL SHALL BE PLACED AT THE SAME LEVEL ALONGSIDE THE EXISTING DETERIORATED OR BROKEN REINFORCING STEEL.
6. ALL NEW REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31 GRADE 60, UNLESS OTHERWISE NOTED ON THE PLANS. ALL NEW REINFORCING STEEL SHALL BE EPOXY COATED.
7. PARTIAL DEPTH REPAIRS: ALL DETERIORATED AND DELAMINATED CONCRETE SHALL BE REMOVED TO A MINIMUM DEPTH OF 1” BELOW THE BOTTOM OF THE TOP LAYER OF EXISTING TRANSVERSE REINFORCEMENT STEEL TO A MAXIMUM OF 50% OF THE THICKNESS OF THE EXISTING CONCRETE DECK.
8. FULL DEPTH REPAIRS: ALL DETERIORATED AND DELAMINATED CONCRETE SHALL BE GREATER THAN 50% OF THE DECK THICKNESS WHEN MEASURED FROM THE TOP OF DECK.
9. ALL EXISTING REINFORCING STEEL AND CONCRETE SURFACES THAT ARE TO BE IN CONTACT WITH REPAIR CONCRETE SHALL BE ABRASIVELY BLAST CLEANED IN ORDER TO REMOVE ALL RUST, OIL, AND DEBRIS THAT IS NOT TIGHTLY ADHERED, FOLLOWED BY APPLICATION OF COMPRESSED AIR TO REMOVE ALL DUST. EXISTING CONCRETE REPAIR SURFACES THAT WILL BE IN CONTACT WITH REPAIR CONCRETE SHALL BE PRE–WETTED FOR A MINIMUM OF 15 MINUTES USING POTABLE WATER IN PLACEMENT OF REPAIR CONCRETE.

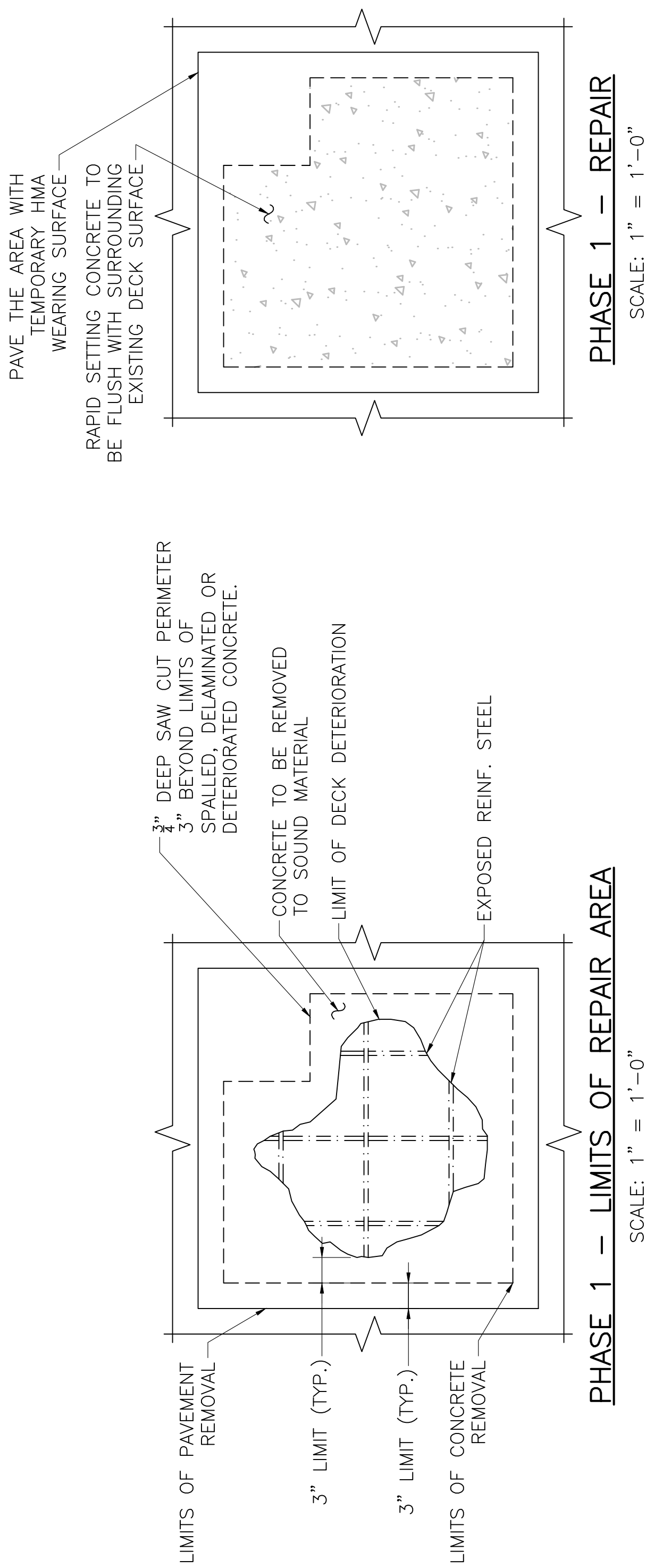



DISTRICT 4 BRIDGE

PROJECT: DISTRICT 4 – SCHEDULED & EMERGENCY DECK & JOINT REPAIRS AT VARIOUS LOCATIONS

SUBJECT: DECK REPAIR GENERAL NOTES

SHEET: 2 OF 17
DRAWN BY: JJ
DATE: 06/17/2025
CHKD BY: CJL
DATE: 06/17/2025



 <div> <div>DISTRICT 4 BRIDGE</div> </div>	<div>PROJECT: DISTRICT 4 – SCHEDULED &amp; EMERGENCY DECK &amp; JOINT REPAIRS AT VARIOUS LOCATIONS</div>	<div>SHEET: 3 OF 17</div>
	<div>SUBJECT: SEQUENCE FOR TYPE A DECK REPAIR</div>	<div>DRAWN BY: JJ</div>
		<div>DATE: 06/17/2025</div>
		<div>CHKD BY: CJL</div> <div>DATE: 06/17/2025</div>

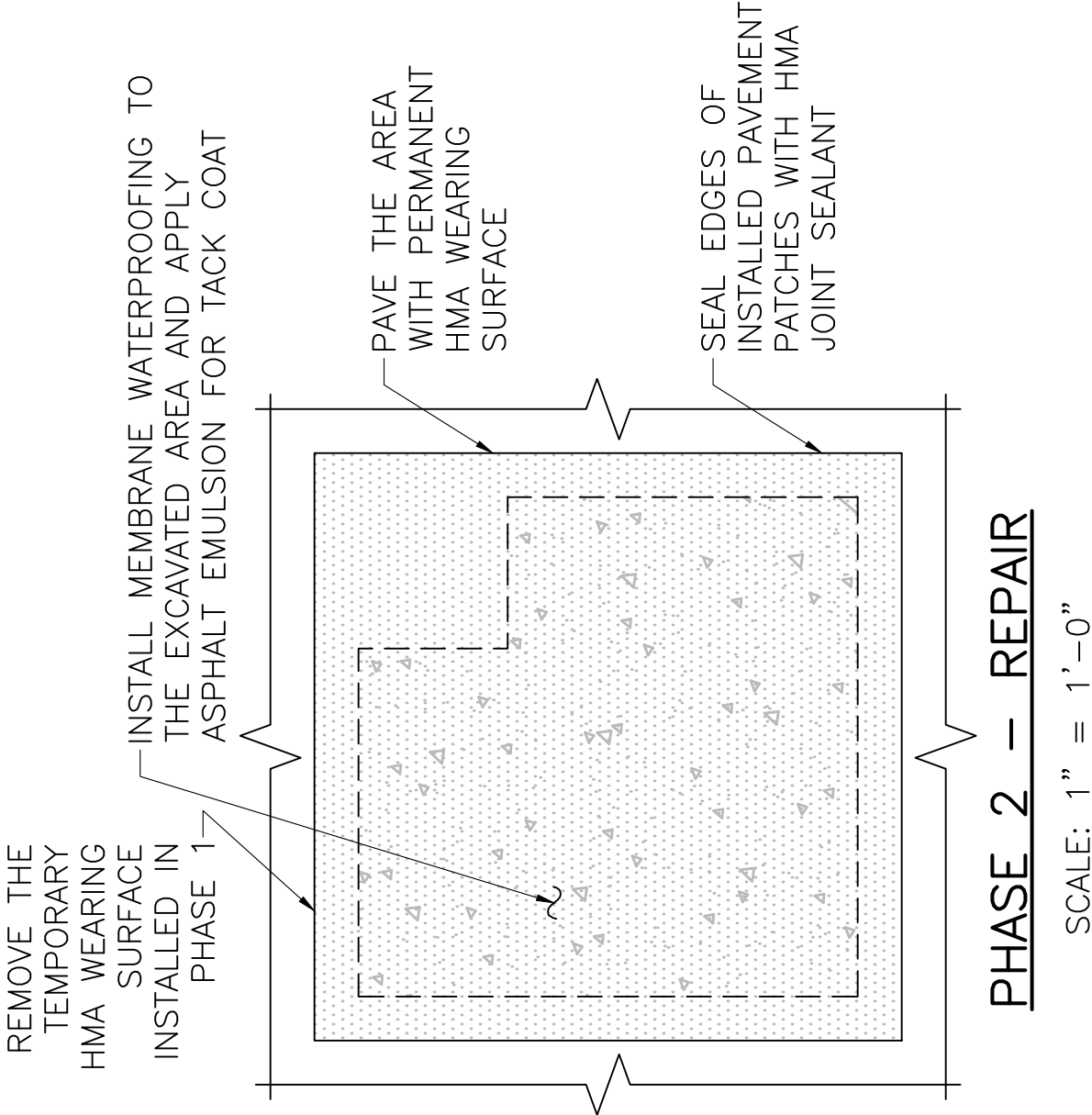
BRIDGE DECK REPAIR TYPE A SEQUENCE NOTES:

PHASE 1:

1. REMOVE THE DETERIORATED EXISTING PAVEMENT, WATERPROOFING MEMBRANE FROM THE BRIDGE DECK AREAS TO THE LIMITS DIRECTED BY THE ENGINEER. THE PERIMETERS OF THE EXCAVATED AREAS SHALL BE SAWCUT PRIOR TO PAVEMENT REMOVAL. THE SHAPE OF THE EXCAVATED AREAS SHALL BE RECTANGULAR WITH SQUARE CORNERS. THE PAVEMENT AND MEMBRANE REMOVAL ABOVE THE CONCRETE EXCAVATION AREAS SHALL BE CONSIDERED INCIDENTAL TO THE CONCRETE EXCAVATION.
2. EXCAVATE EXISTING TEMPORARY DECK REPAIR MATERIAL AND/OR DETERIORATED CONCRETE (FULL OR PARTIAL DEPTH) TO THE LIMITS DIRECTED BY THE ENGINEER. CLEAN AND RE-TIE THE EXPOSED STEEL REINFORCEMENT
3. INSTALL NEW STEEL REINFORCEMENT AS DIRECTED BY THE ENGINEER.
4. MIX AND PLACE RAPID SETTING CONCRETE IN THE EXCAVATED AREAS. THE TOP SURFACE OF THE RAPID SETTING CONCRETE SHALL BE FLUSH WITH THE SURROUNDING EXISTING DECK SURFACE.
5. AFTER THE RAPID SETTING IS SUFFICIENTLY CURED, PAVE THE AREAS WITH TEMPORARY ASPHALT FOR PATCHING (ITEM 472.). ALLOW THE RAPID SETTING CONCRETE TO CURE UNDERNEATH THE TEMPORARY PAVEMENT FOR AT LEAST 2 WEEKS.
6. OPEN ROAD TO TRAFFIC AND ALLOW THE RAPID SETTING CONCRETE TO CONTINUE TO CURE UNDER THE TEMPORARY PAVEMENT FOR AT LEAST TWO WEEKS.

PHASE 2:

1. THE CONTRACTOR SHALL REMOVE THE TEMPORARY PAVEMENT INSTALLED IN PHASE 1, APPLY ASPHALT EMULSION FOR TACK COAT (BOTH REMOVAL AND TACK COAT INCIDENTAL TO ITEM 451.), INSTALL NEW MEMBRANE WATERPROOFING (ITEM 966.), PERMANENTLY PAVE AREAS WITH HMA FOR PATCHING (ITEM 451.), AND SEAL PATCHES’ EDGES WITH HMA JOINT SEALANT (INCIDENTAL TO ITEM 451.)
2. UNLESS DIRECTED BY THE ENGINEER, THIS TYPE OF REPAIR SHALL BE USED ON ALL CONCRETE BRIDGE DECKS WITH HMA WEARING SURFACE.



DISTRICT 4 BRIDGE

PROJECT: DISTRICT 4 – SCHEDULED & EMERGENCY DECK & JOINT REPAIRS AT VARIOUS LOCATIONS

SUBJECT: SEQUENCE FOR TYPE A DECK REPAIR (CONT.)

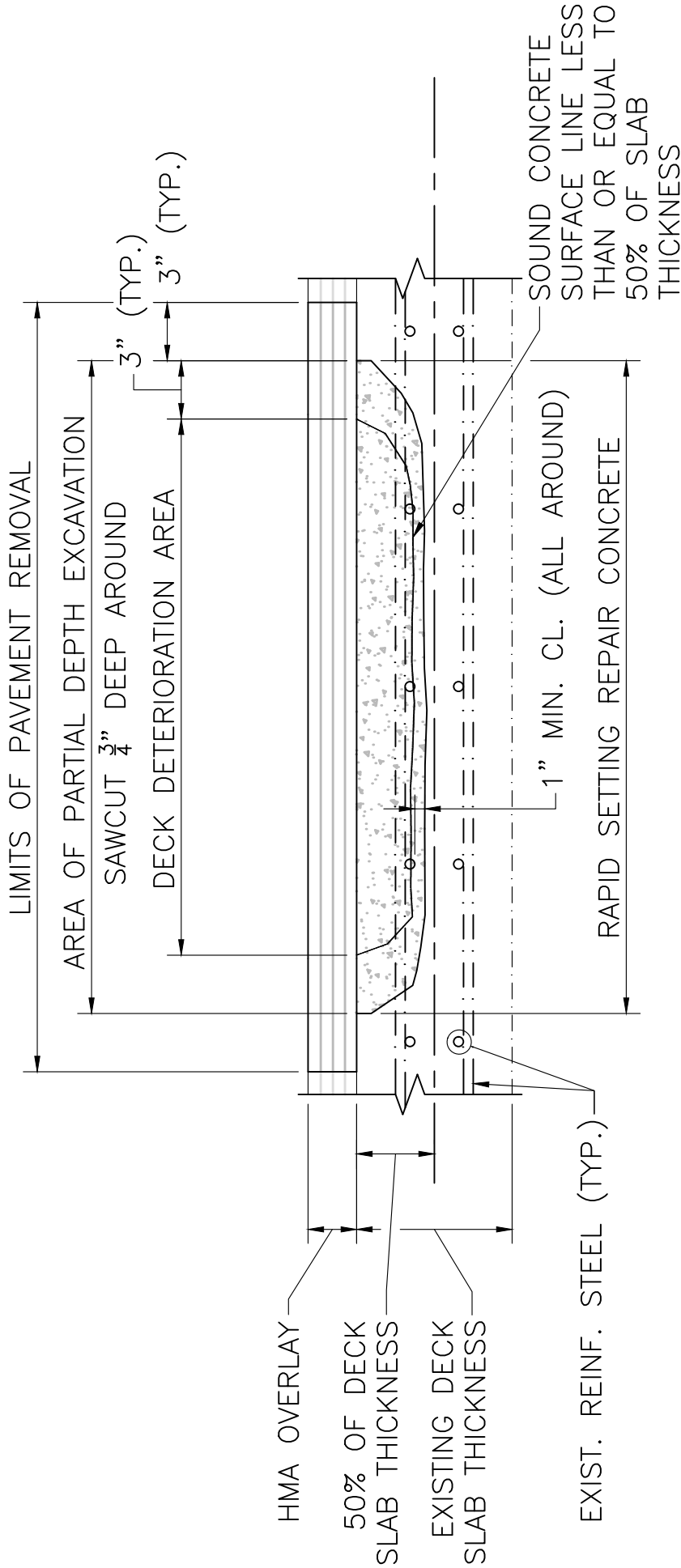
SHEET: 4 OF 17

DRAWN BY: JJ

DATE: 06/17/2025

CHKD BY: CJL

DATE: 06/17/2025



**TYPICAL TYPE A PARTIAL DEPTH DECK REPAIR DETAIL**

SCALE: 1 1/2" = 1'-0"

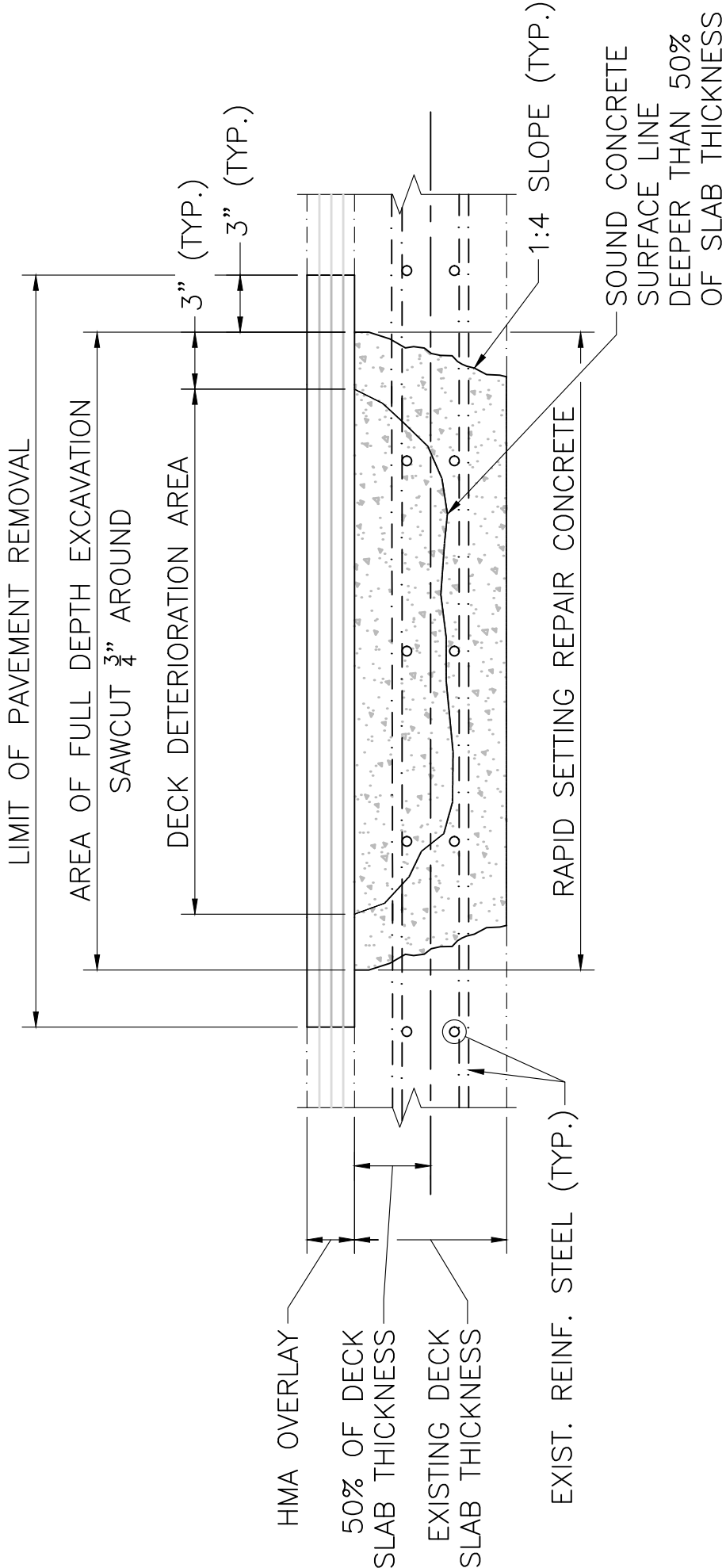


DISTRICT 4 BRIDGE

PROJECT: DISTRICT 4 – SCHEDULED & EMERGENCY DECK & JOINT REPAIRS AT VARIOUS LOCATIONS

SUBJECT: TYPE A PARTIAL DEPTH DECK REPAIR

SHEET: 5 OF 17
DRAWN BY: JJ
DATE: 06/17/2025
CHKD BY: CJL
DATE: 06/17/2025



TYPICAL TYPE A FULL DEPTH DECK REPAIR DETAIL

SCALE: 1 1/2" = 1'-0"

**NOTE:**  
DECK FORMS SHALL BE FLUSH WITH EXISTING DECK UNDERSIDE AND SHALL BE REMOVED AFTER CURING IS COMPLETE.

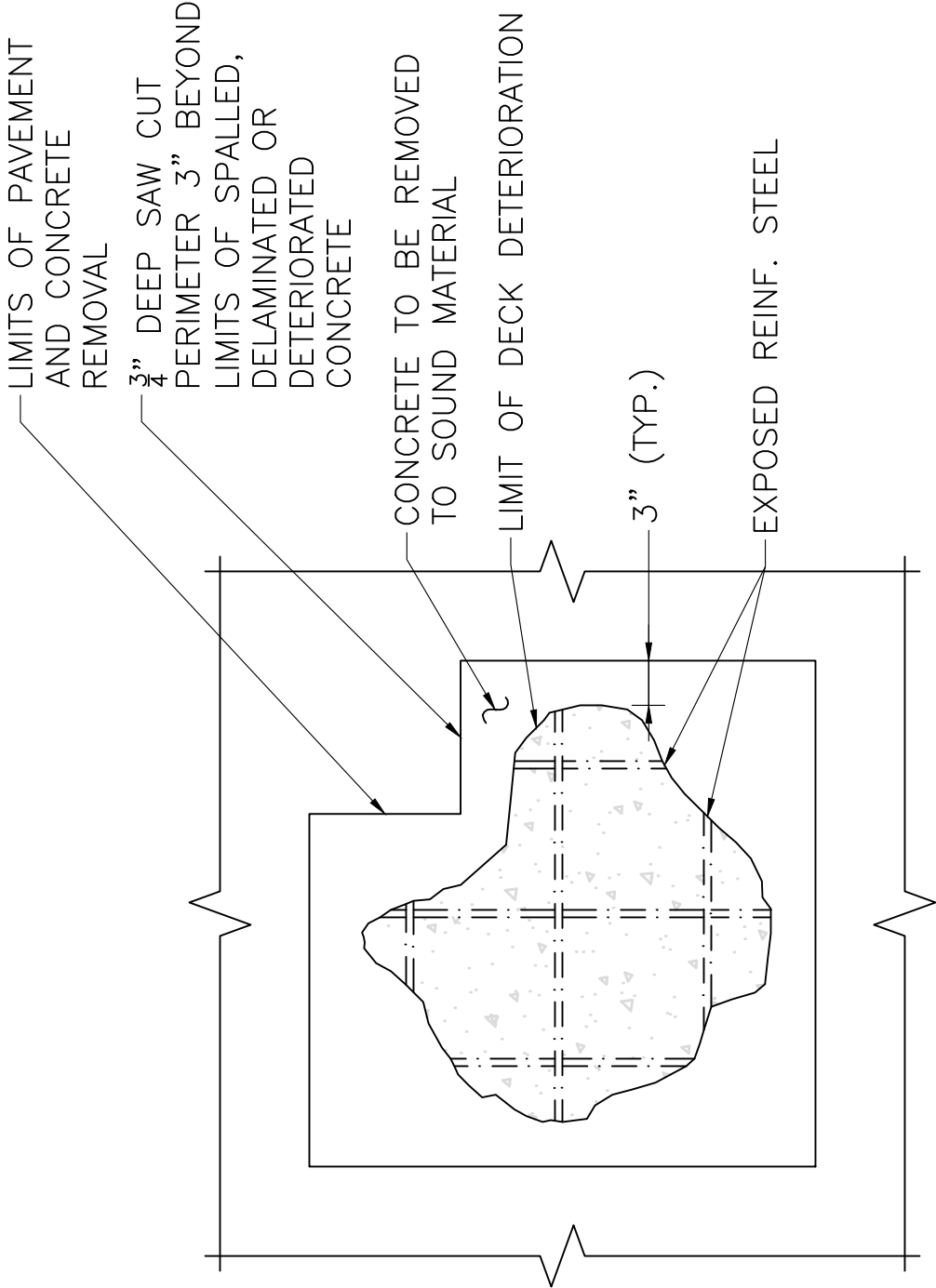


DISTRICT 4 BRIDGE

PROJECT: DISTRICT 4 – SCHEDULED & EMERGENCY DECK & JOINT REPAIRS AT VARIOUS LOCATIONS

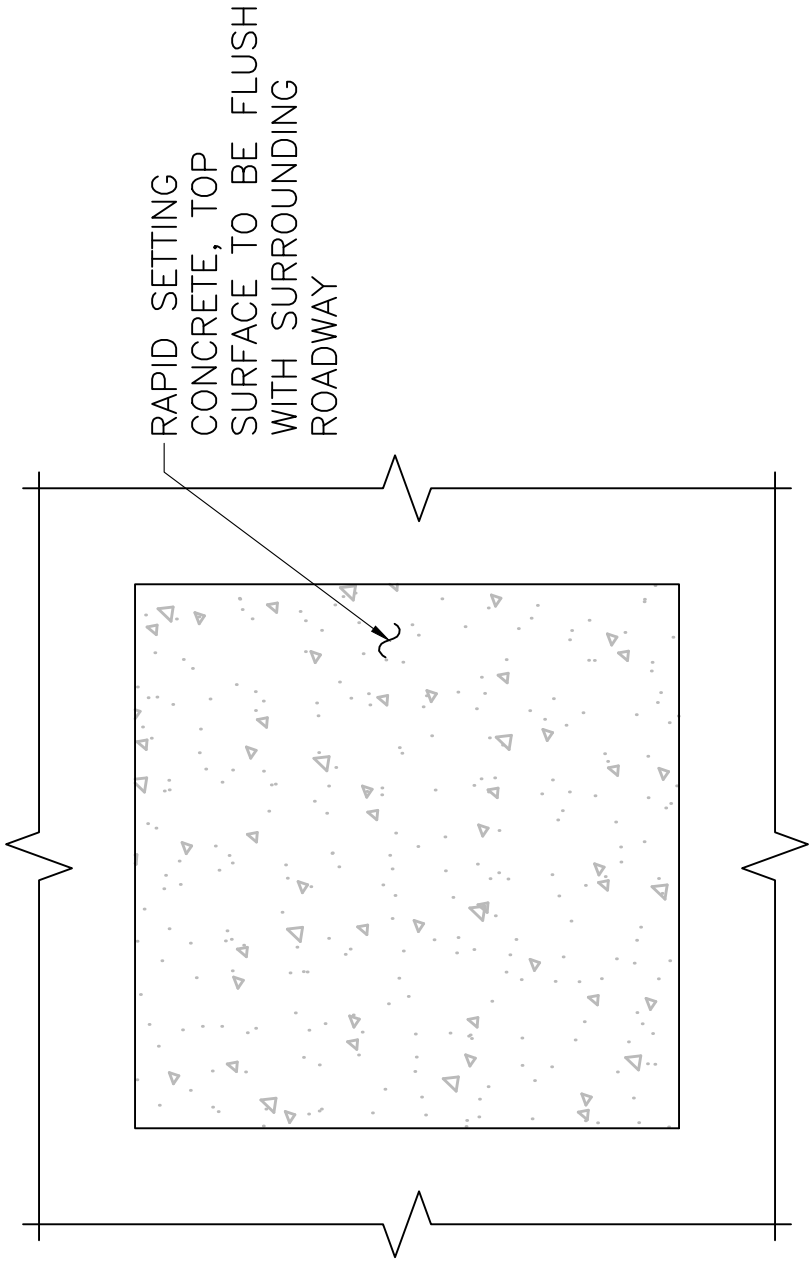
SUBJECT: TYPE A FULL DEPTH DECK REPAIR

SHEET: 6 OF 17
DRAWN BY: JJ
DATE: 06/17/2025
CHKD BY: CJL
DATE: 06/17/2025



LIMITS OF REPAIR AREA

SCALE: 1" = 1'-0"



REPAIR

SCALE: 1" = 1'-0"

BRIDGE DECK REPAIR TYPE B SEQUENCE NOTES:

1. PHASE 1 – THE CONTRACTOR SHALL REMOVE THE DETERIORATED EXISTING PAVEMENT, WATERPROOFING MEMBRANE, CONCRETE AND/OR DECK REPAIR PATCHES FROM THE BRIDGE DECK. THE LIMITS SHALL BE AS DIRECTED BY THE ENGINEER.
2. PHASE 1 – THE EXCAVATED AREAS SHALL BE FILLED WITH RAPID SETTING REPAIR CONCRETE. THE TOP SURFACE OF THE REPAIR MATERIAL SHALL BE FLUSH WITH THE EXISTING ROADWAY GRADE.
3. PHASE 2 – RETURN AT A LATER DATE AND PERFORM A TYPE A DECK REPAIR.
4. TYPE B REPAIRS ARE PERFORMED WHEN THE REPAIR DURATION MUST BE MINIMIZED AND ARE CONSIDERED TEMPORARY. TYPE B REPAIRS SHALL BE REMOVED AND REPLACED WITH TYPE A REPAIRS WHEN ADEQUATE WEATHER AND TRAFFIC CONTROL IS AVAILABLE. THIS REPAIR METHOD SHALL ONLY BE USED WHEN DIRECTED BY THE ENGINEER.

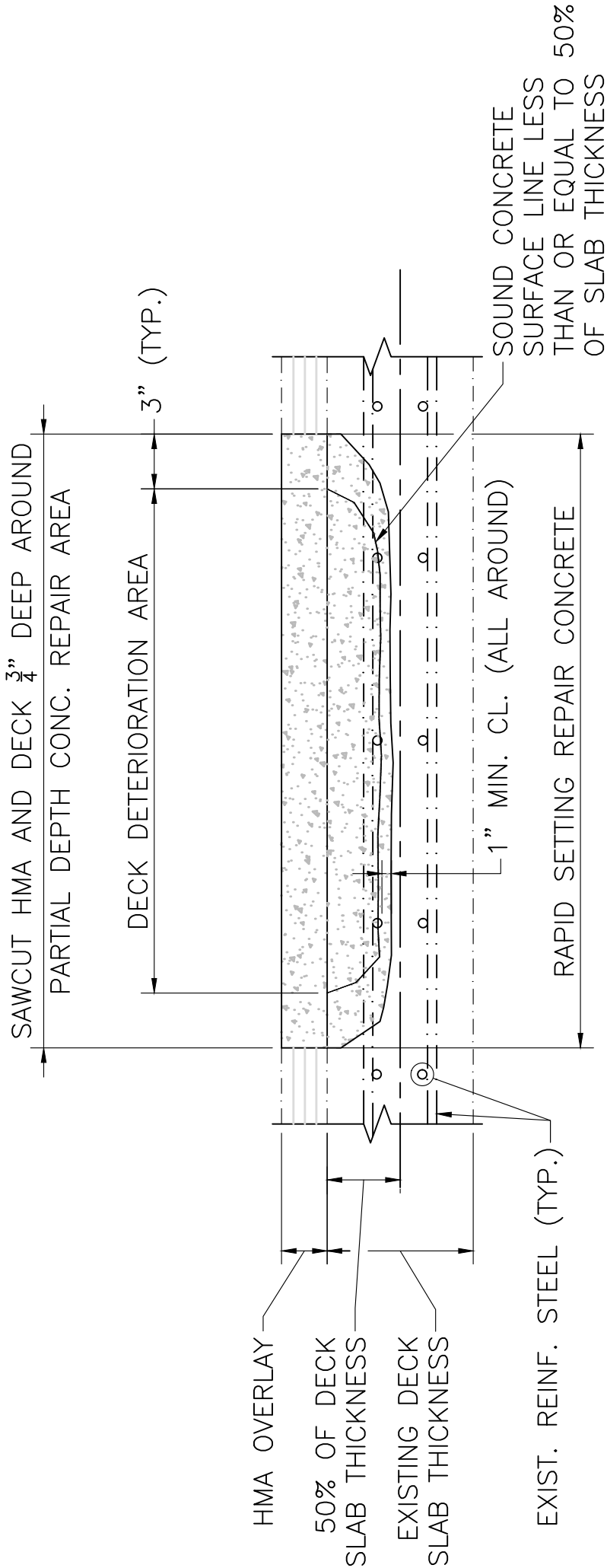


DISTRICT 4 BRIDGE

PROJECT: DISTRICT 4 – SCHEDULED & EMERGENCY DECK & JOINT REPAIRS AT VARIOUS LOCATIONS

SUBJECT: SEQUENCE FOR TYPE B DECK REPAIR

SHEET: 7 OF 17
DRAWN BY: JJ
DATE: 06/17/2025
CHKD BY: CJL
DATE: 06/17/2025



TYPICAL TYPE B PARTIAL DEPTH DECK REPAIR DETAIL

SCALE: 1 1/2" = 1'-0"

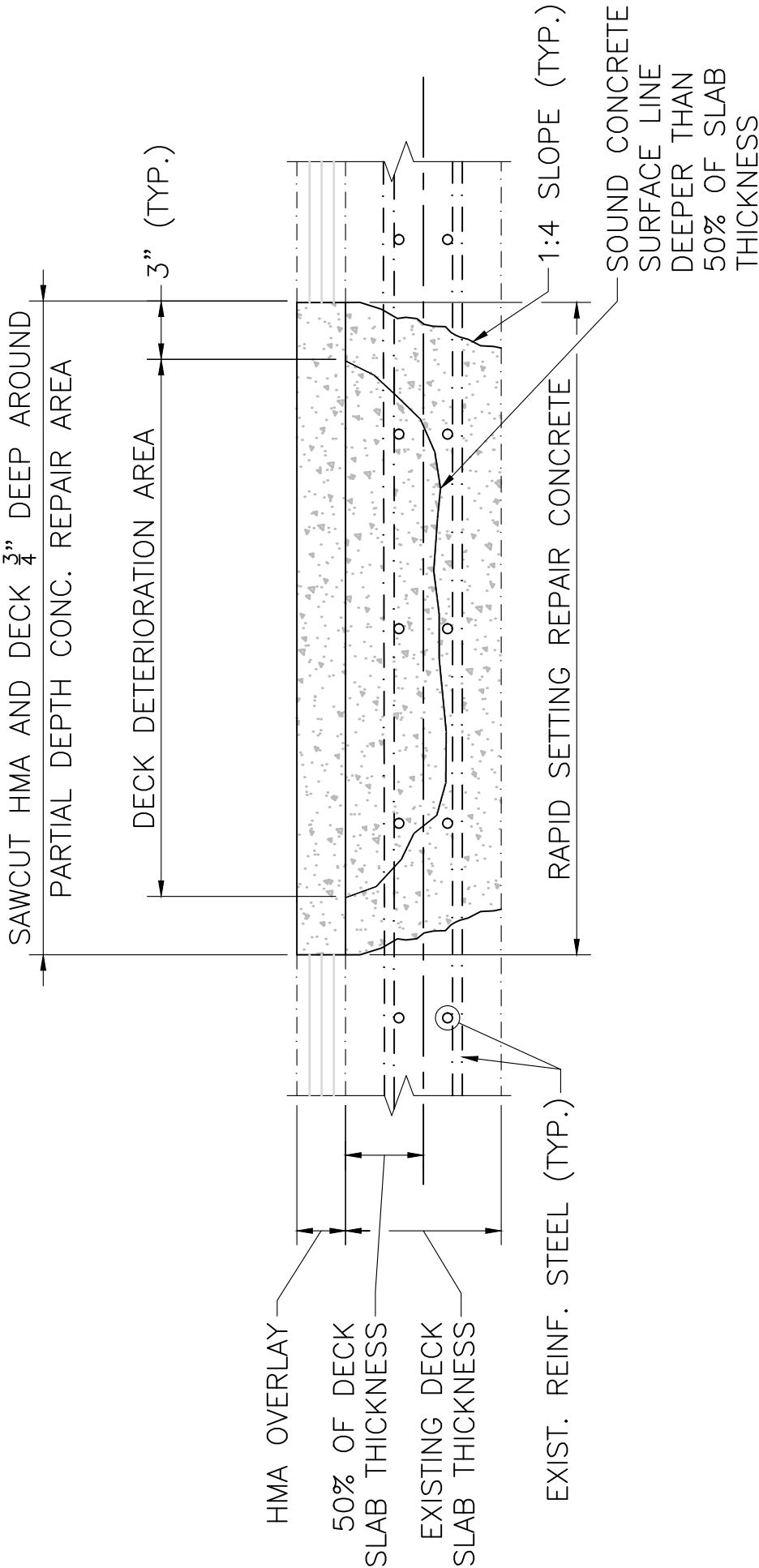


DISTRICT 4 BRIDGE

PROJECT: DISTRICT 4 – SCHEDULED & EMERGENCY DECK & JOINT REPAIRS AT VARIOUS LOCATIONS

SUBJECT: TYPE B PARTIAL DEPTH DECK REPAIR

SHEET: 8 OF 17
DRAWN BY: JJ
DATE: 06/17/2025
CHKD BY: CJL
DATE: 06/17/2025



TYPICAL TYPE B FULL DEPTH DECK REPAIR DETAIL

SCALE: 1 1/2" = 1'-0"

NOTE:  
DECK FORMS SHALL BE FLUSH WITH EXISTING DECK UNDERSIDE  
AND SHALL BE REMOVED AFTER CURING IS COMPLETE.

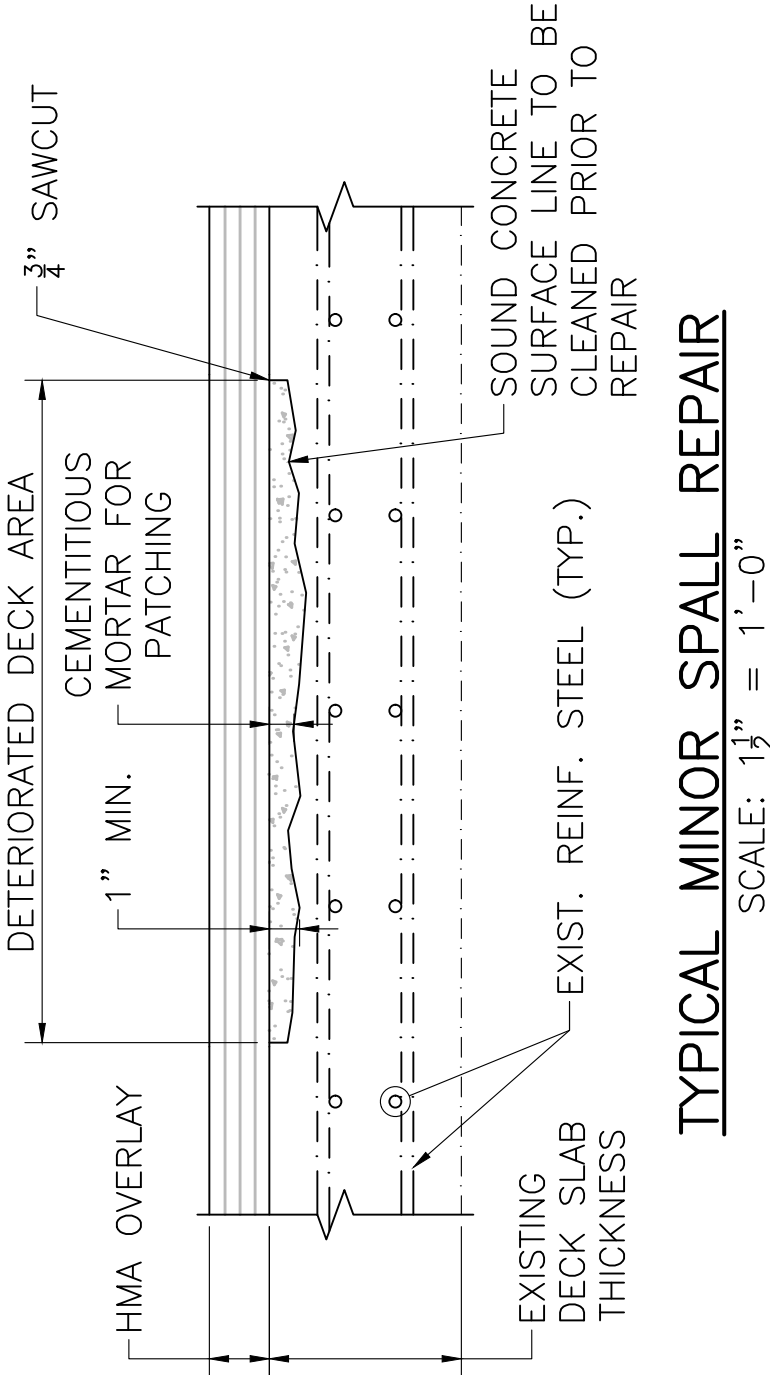


DISTRICT 4 BRIDGE

PROJECT: DISTRICT 4 – SCHEDULED & EMERGENCY DECK & JOINT REPAIRS AT VARIOUS LOCATIONS

SUBJECT: TYPE B FULL DEPTH DECK REPAIR

SHEET: 9 OF 17
DRAWN BY: JJ
DATE: 06/17/2025
CHKD BY: CJL
DATE: 06/17/2025



TYPICAL MINOR SPALL REPAIR

SCALE: 1 1/2" = 1'-0"

NOTE:  
IF REINFORCING BARS ARE EXPOSED, THEN COMPLETE REPAIR AS A  
PARTIAL DEPTH REPAIR WITH 1" EXCAVATED BENEATH THE EXPOSED BARS.

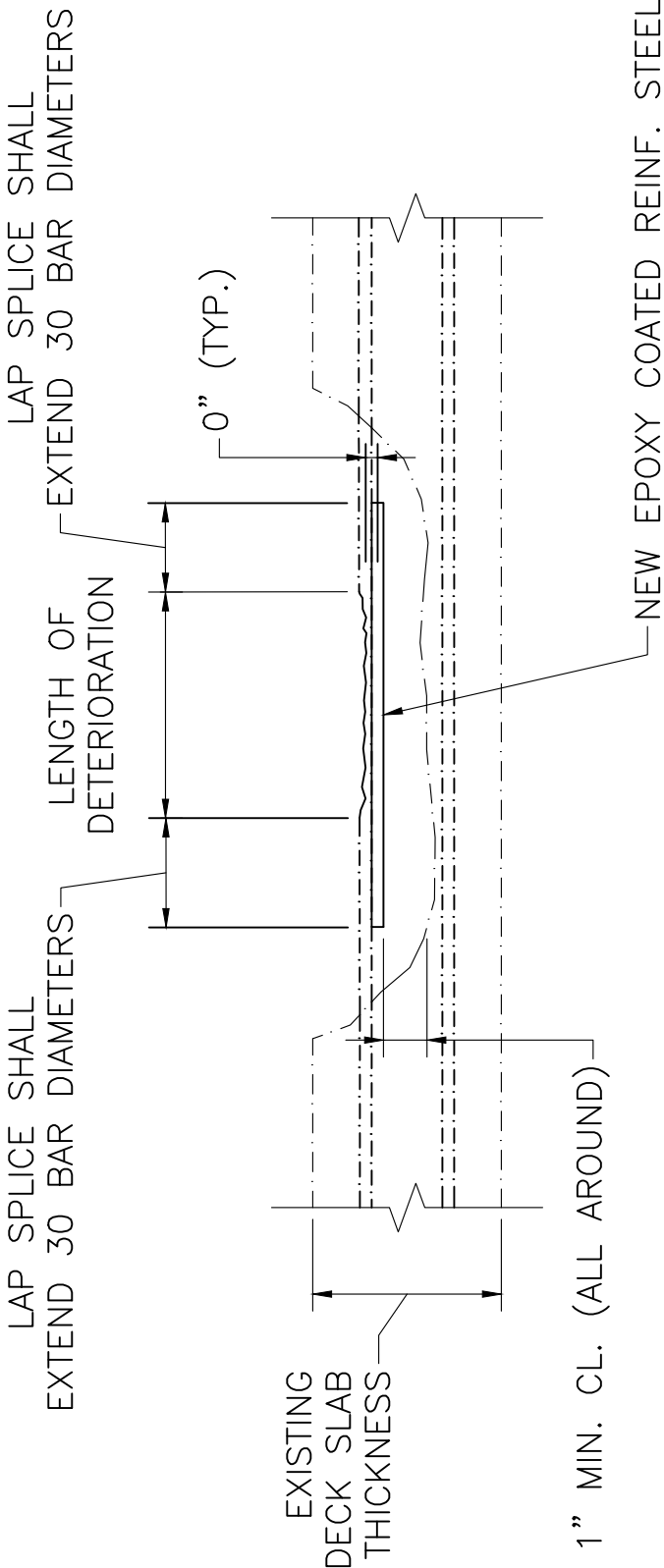


DISTRICT 4 BRIDGE

PROJECT: DISTRICT 4 – SCHEDULED & EMERGENCY DECK & JOINT REPAIRS AT VARIOUS LOCATIONS

SUBJECT: MINOR SPALL REPAIR

SHEET: 10 OF 17
DRAWN BY: JJ
DATE: 06/17/2025
CHKD BY: CJL
DATE: 06/17/2025



**TYPICAL DETERIORATED REINFORCEMENT STEEL REPAIR**

SCALE: 1 1/2" = 1'-0"

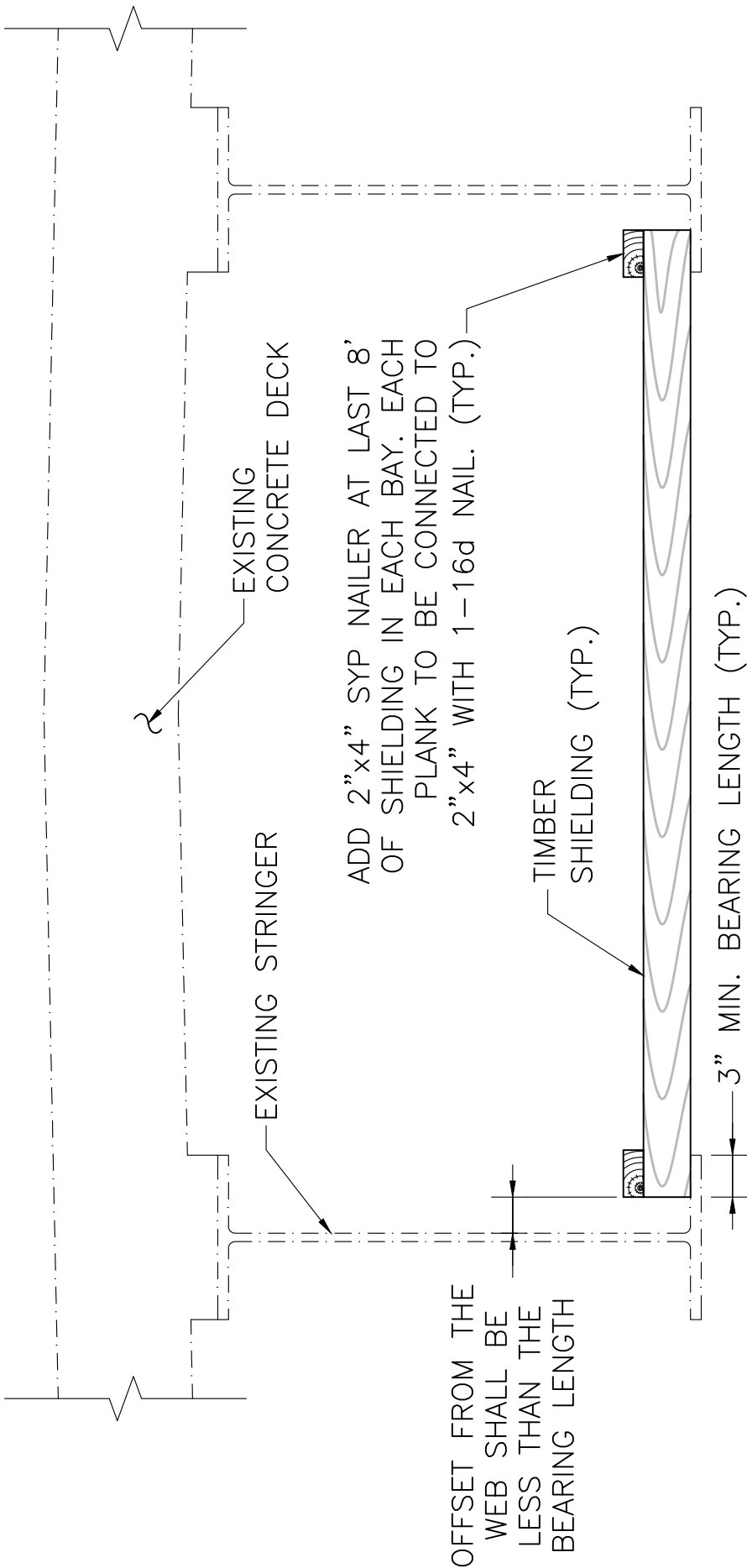


DISTRICT 4 BRIDGE

PROJECT: DISTRICT 4 – SCHEDULED & EMERGENCY DECK & JOINT REPAIRS AT VARIOUS LOCATIONS

SUBJECT: DETERIORATED STEEL REINFORCEMENT REPAIR

SHEET: 11 OF 17
DRAWN BY: JJ
DATE: 06/17/2025
CHKD BY: CJL
DATE: 06/17/2025



TIMBER PLANK DECK SHIELDING SECTION

TIMBER SHIELDING NOTES:

1. TEMPORARY PROTECTIVE SHIELDING IN PLACE OR INSTALLED AS PART OF THIS CONTRACT SHALL BE REMOVED OF AND DISPOSED OF BY THE CONTRACTOR UPON THE COMPLETION OF ALL DECK REPAIRS.
2. MATERIAL FOR TIMBER SHIELDING SHALL BE EITHER DOUGLAS FIR NO. 2, HEM FIR NO 2, OR SOUTHERN PINE NO. 2 OR BETTER.
3. LIMITS OF SHIELDING SHALL EXTEND A MINIMUM OF 5 FEET BEYOND THE EDGE OF THE ROADWAYS (INCLUDING THE BREAKDOWN LANE).
4. SIZE OF TIMBER SHALL BE SIZED BY ENGINEERING DESIGN PROVIDED BY CONTRACTOR TO BE STAMPED BY A MASSACHUSETTS PROFESSIONAL ENGINEER.
5. DEPTH OF DEBRIS BUILDUP SHALL BE SPECIFIED IN ENGINEERING DESIGN SUBMITTED BY CONTRACTOR.
6. CONTRACTOR MAY DESIGN SHIELDING ALTERNATIVELY TO ACT AS FORMWORK. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR DESIGN OR ALTERNATIVE CONFIGURATIONS.

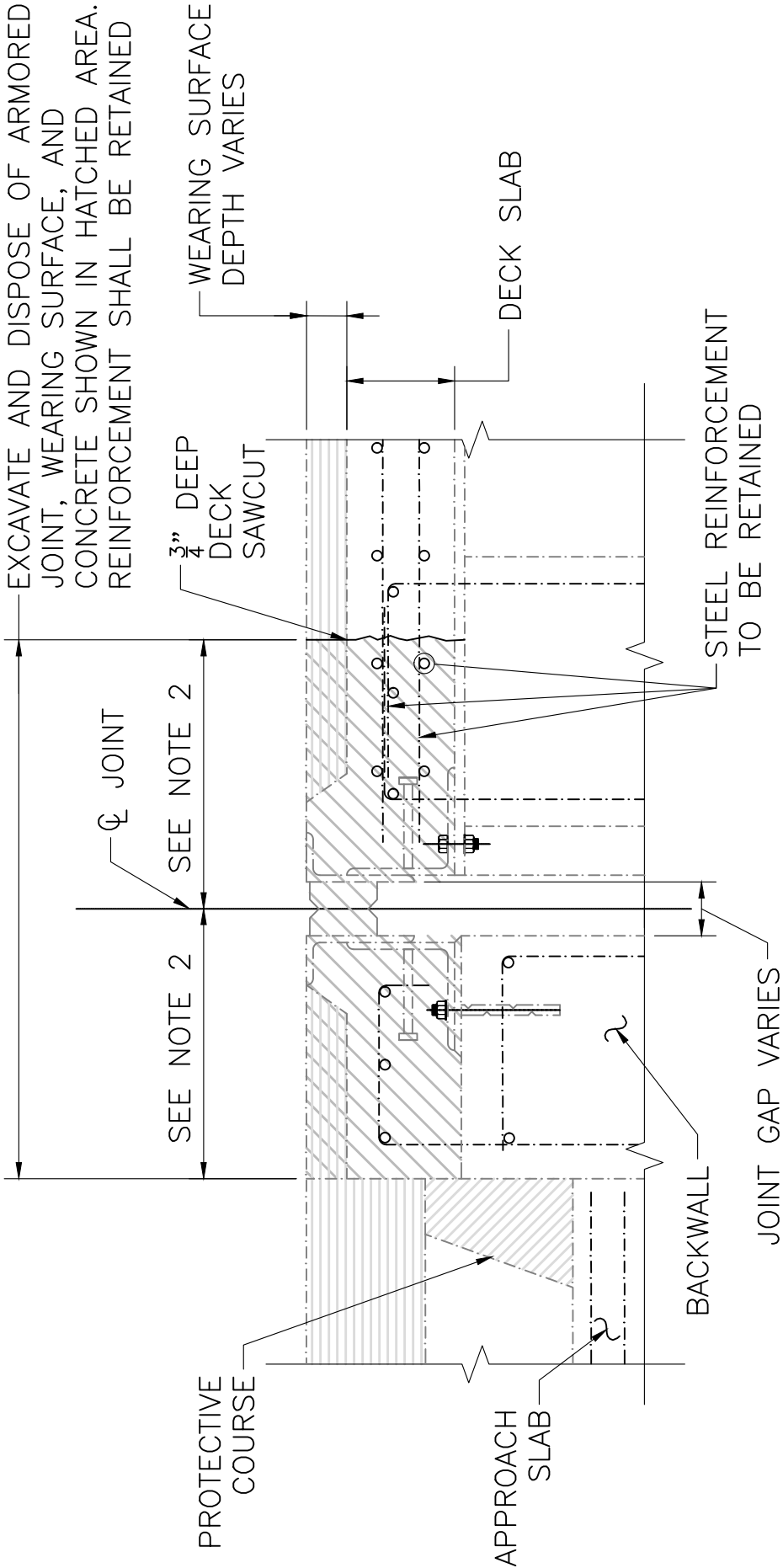


DISTRICT 4 BRIDGE

PROJECT: DISTRICT 4 – SCHEDULED & EMERGENCY DECK & JOINT REPAIRS AT VARIOUS LOCATIONS

SUBJECT: TEMPORARY PROTECTIVE SHIELDING

SHEET: 12 OF 17
DRAWN BY: JJ
DATE: 06/17/2025
CHKD BY: CJL
DATE: 06/17/2025



NOTES:

1. DECK JOINT AT ABUTMENT SHOWN. DECK AND JOINT EXCAVATION DETAILS SIMILAR AT PIERS.
2. EXCAVATE A MINIMUM OF 20" ON EACH SIDE OF JOINT, MORE AS REQUIRED BY THE ENGINEER TO REMOVE ENTIRE JOINT AND DETERIORATED CONCRETE.

ARMORED JOINT EXCAVATION – ROADWAY

SCALE: 1" = 1'-0"

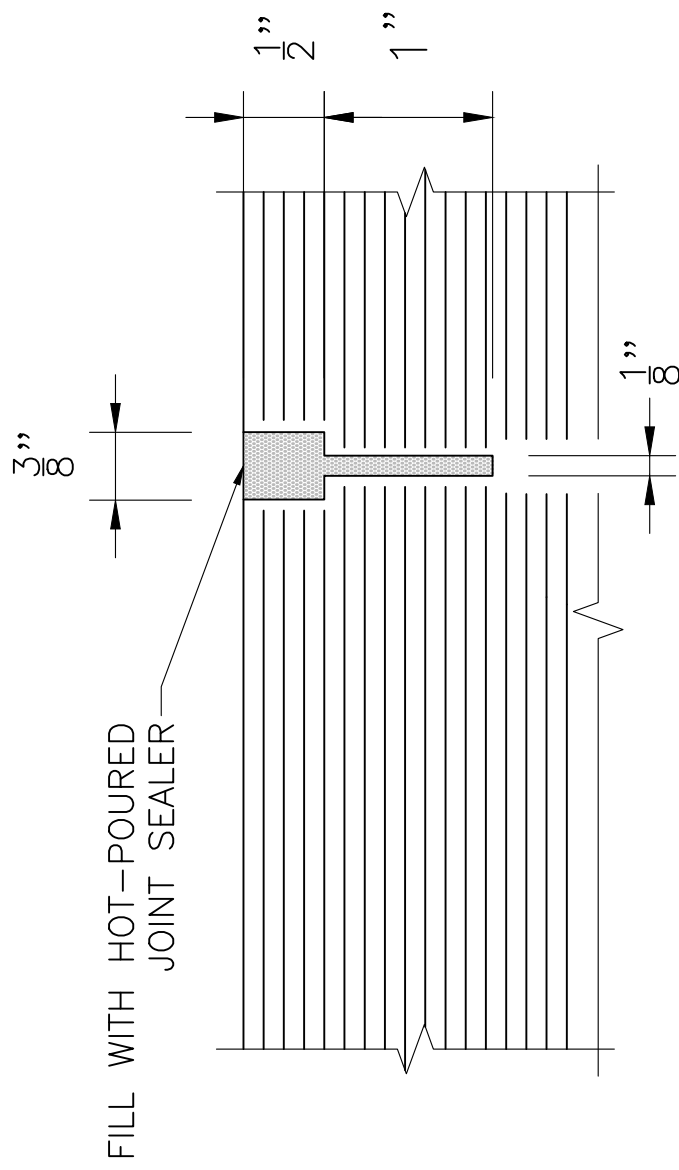


DISTRICT 4 BRIDGE

PROJECT: DISTRICT 4 – SCHEDULED & EMERGENCY DECK & JOINT REPAIRS AT VARIOUS LOCATIONS

SUBJECT: ARMORED JOINT EXCAVATION

SHEET: 13 OF 17
DRAWN BY: JJ
DATE: 06/17/2025
CHKD BY: CJL
DATE: 06/17/2025



## PAVEMENT SAWCUT DETAIL

NOT TO SCALE



DISTRICT 4 BRIDGE

PROJECT: DISTRICT 4 – SCHEDULED & EMERGENCY DECK & JOINT REPAIRS AT VARIOUS LOCATIONS

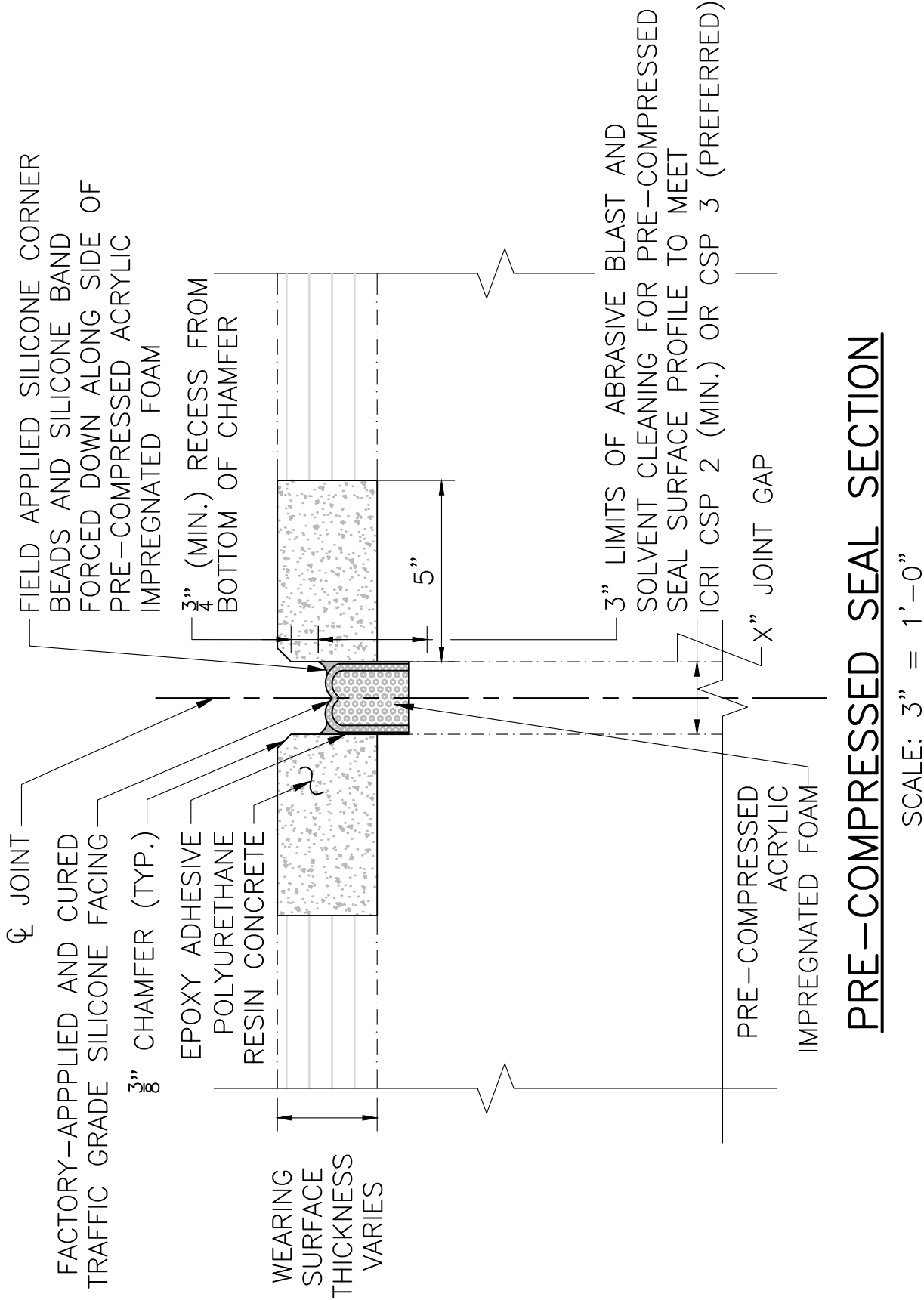
SUBJECT: PAVEMENT SAWCUT DETAIL

SHEET: 14 OF 17

DRAWN BY: JJ

DATE: 06/17/2025

CHKD BY: CJL  
DATE: 06/17/2025



**PRE-COMPRESSED SEAL JOINT NOTES:**

1. THE PRE-COMPRESSED SEAL JOINT SYSTEM SHALL BE THE BEJS SYSTEM MANUFACTURED BY EMSEAL JOINT SYSTEM, LTD, OR APPROVED EQUIVALENT.
2. THE INSTALLATION AND SPLICING OF THE PRE-COMPRESSED SEAL SHALL FOLLOW THE MANUFACTURERS INSTRUCTIONS.
3. THE JOINT SYSTEM INSTALLATION SHALL TAKE PLACE AFTER THE DECK REPAIR MATERIAL ADJACENT TO THE JOINT OPENING HAS SUFFICIENTLY CURED.
4. THE JOINT OPENING SHALL BE FREE OF ALL CONTAMINANTS SUCH AS GREASE, DUST, AND DIRT. PRIOR TO JOINT SYSTEM INSTALLATION, THE JOINT WALLS SHALL BE BLOWN CLEAN WITH OIL-FREE COMPRESSED AIR AND WIPED CLEAN WITH A CLEAN WET CLOTH TO THE BOTTOM OF THE PRE-COMPRESSED SEAL MATERIAL PLUS 1” TO REMOVE ANY DUST REMAINING. THE SUBSTRATE PREP SHALL FOLLOW THE ICRI CONCRETE SURFACE PROFILE STANDARDS TO ACHIEVE A SURFACE PROFILE OF CSP 2 (MIN.) OR 3 (PREFERRED) IN ORDER TO ACCEPT THE JOINT SYSTEM.
5. THE PRE-COMPRESSED SEAL JOINT SYSTEM SHALL BE CONTINUOUS THROUGH SIDEWALKS, CURBS, MEDIANS, AND PARAPETS AS APPROPRIATE TO THE CONDITIONS AT HAND. CONTINUITY OF SEAL SHALL BE ACHIEVED THROUGH THE USE OF FACTORY-FABRICATED UNIVERSAL OR CUSTOM TRANSITIONS SUPPLIED BY THE PRE-COMPRESSED JOINT SEAL MANUFACTURER. THE FIELD SPLICE OF THE PRE-COMPRESSED SEAL SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURER’S RECOMMENDATIONS.
6. THE CONCRETE BLOCK-OUTS SHALL CONSIST OF POLYURETHANE RESIN AND AGGREGATE THAT CONSISTS OF SAND AND CHOPPED FIBERGLASS. THE RATIO OF AGGREGATE TO RESIN BY WEIGHT SHALL NOT EXCEED 2.
7. THE CONCRETE BLOCK-OUTS SHALL BE SUFFICIENTLY CURED SO THAT VEHICULAR TRAFFIC MAY BE APPLIED IN NO MORE THAN 2 HOURS AFTER MIXING AND PLACEMENT.
8. THE CONTRACTOR SHALL REMOVE THE JOINT MATERIAL, RECORD OPENING WIDTH AND TEMPERATURE TO DETERMINE THE RECOMMENDED JOINT SEAL SIZE. DISTRICT BRIDGE SHALL APPROVE PRIOR TO INSTALLATION.



DISTRICT 4 BRIDGE

PROJECT: DISTRICT 4 – SCHEDULED & EMERGENCY DECK & JOINT REPAIRS AT VARIOUS LOCATIONS

SUBJECT: PRE-COMPRESSED SEAL JOINT

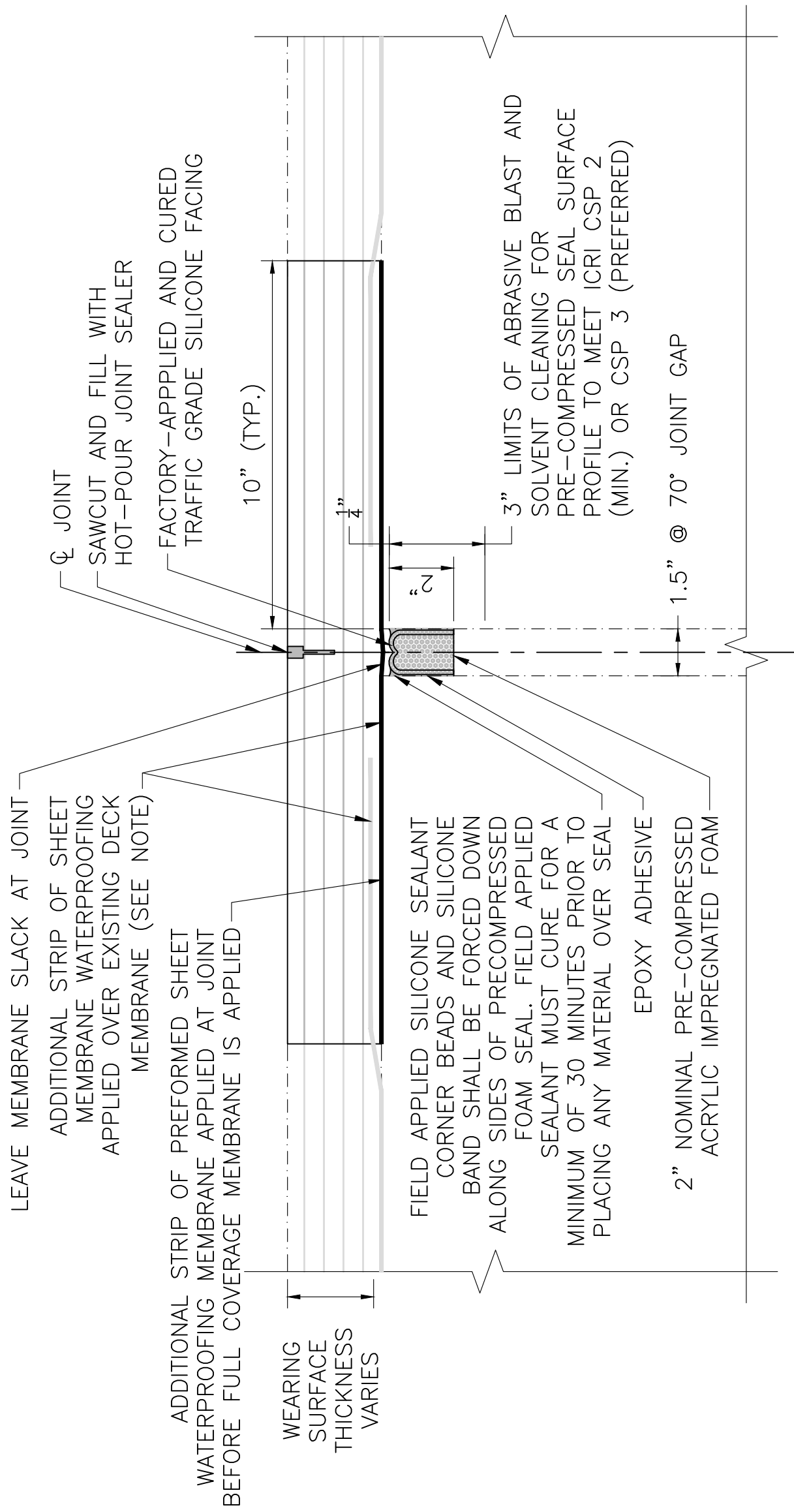
SHEET: 15 OF 17

DRAWN BY: JJ

DATE: 06/17/2025

CHKD BY: CJL

DATE: 06/17/2025




## SAWCUT WITH PRE-COMPRESSED SEAL SECTION

SCALE: 3" = 1'-0"

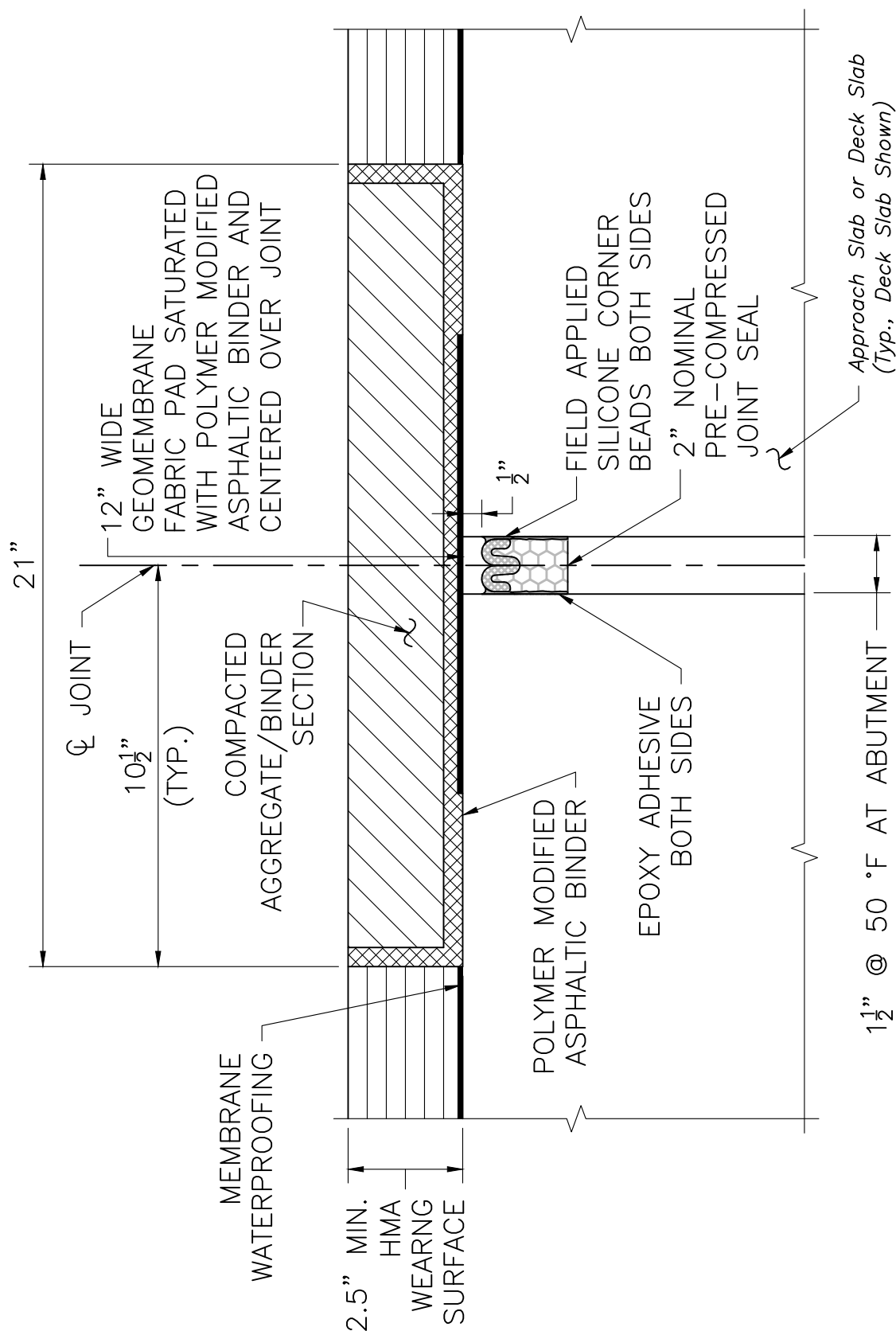
NOTE:

EXISTING MEMBRANE TYPE, CONDITION, AND BOND TO DECK MAY ALLOW THE MEMBRANE TO BE PULLED BACK AND APPLIED OVER THE NEW MEMBRANE STRIP.

 <b>massDOT</b> <small>Massachusetts Department of Transportation</small> <b>Highway Division</b>	<b>DISTRICT 4 BRIDGE</b>	<b>PROJECT:</b> DISTRICT 4 – SCHEDULED & EMERGENCY DECK & JOINT REPAIRS AT VARIOUS LOCATIONS	<b>SHEET:</b> 16 OF 17
		<b>SUBJECT:</b> SAWCUT OVER PRE-COMPRESSED SEAL	<b>DRAWN BY:</b> JJ <b>DATE:</b> 06/17/2025
			<b>CHKD BY:</b> CJL <b>DATE:</b> 06/17/2025

ASPHALTIC JOINT CONSTRUCTION SEQUENCE:

1. CENTER 19" WIDE STRIP OF ROOFING FELT OVER THE JOINT LOCATION.
2. INSTALL/APPLY WATERPROOFING MEMBRANE AND PLACE HMA WEARING SURFACE UNIFORMLY ACROSS THE DECK AND JOINT LOCATIONS.
3. SAW CUT AND REMOVE THE HMA WEARING SURFACE AND MEMBRANE WATERPROOFING TO THE LIMITS REQUIRED.
4. THE JOINT OPENING SHALL BE FREE OF ALL CONTAMINANTS SUCH AS GREASE, DUST AND DIRT. PRIOR TO JOINT SYSTEM INSTALLATION, THE JOINT WALL SHALL BE BLOWN CLEAN WITH OIL-FREE COMPRESSED AIR AND WIPE CLEAN WITH A CLEAN WET CLOTH TO THE BOTTOM OF
5. PRE-COMPRESSED SEAL MATERIAL PLUS 1" TO REMOVE ANY DUST REMAINING. THE SUBSTRATE PREP SHALL FOLLOW THE ICRI CONCRETE SURFACE PROFILE STANDARDS TO ACHIEVE A SURFACE PROFILE OF CSP 2 (MIN.) OR 3 (PREFERRED) IN ORDER TO ACCEPT THE JOINT SYSTEM.
6. INSTALL THE PRE-COMPRESSED SEAL JOINT SYSTEM PER MANUFACTURER'S RECOMMENDATIONS.
7. COAT THE SURFACES OF THE BLOCKOUT WITH THE POLYMER MODIFIED ASPHALTIC BINDER.
8. CENTER THE 12" WIDE GEOGRID FABRIC PAD SATURATED WITH POLYMER MODIFIED ASPHALTIC BINDER AND PLACE IT OVER THE JOINT.
9. PLACE COMPACTED AGGREGATE/BINDER TO FILL ALL VOIDS AND OBTAIN A FINAL AND EVEN SURFACE WITH THE ADJACENT WEARING SURFACE.
10. IT IS NOT NECESSARY TO CONSTRUCT THE JOINT AT MEAN TEMPERATURE, HOWEVER, THE MANUFACTURER SHOULD BE CONSULTED FOR INSTALLATION GUIDELINES FOR EXTREME CLIMATE CONDITIONS.
11. THE PRE-COMPRESSED SEAL JOINT SYSTEM SHALL BE CONTINUOUS THROUGH BARRIERS AS APPROPRIATE TO THE CONDITIONS AT HAND. CONTINUITY OF THE SEAL SHALL BE ACHIEVED THROUGH THE USE OF FACTOR-FABRICATED UNIVERSAL OR CUSTOM TRANSITIONS SUPPLIED BY THE PRE-COMPRESSED JOINT SEAL MANUFACTURER. THE FIELD SPLICE OF THE PRE-COMPRESSED SEAL SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.



## MODIFIED ASPHALTIC BRIDGE JOINT DETAILS

SCALE: 3" = 1'-0"

 <div> <div>DISTRICT 4 BRIDGE</div> </div>	<div>PROJECT: DISTRICT 4 – SCHEDULED &amp; EMERGENCY DECK &amp; JOINT REPAIRS AT VARIOUS LOCATIONS</div>	<div>SHEET: 17 OF 17</div>
	<div>SUBJECT: MODIFIED ASPHALTIC BRIDGE JOINT DETAILS</div>	<div>DRAWN BY: JJ</div>
		<div>DATE: 06/17/2025</div>
		<div>CHKD BY: CJL</div> <div>DATE: 06/17/2025</div>

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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: DISTRICT 4Project File Number: 613779Contract Number: 131469Project Description: Scheduled and Emergency Deck and Joint Repairs at Various Locations

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-22-001Date: 9/23/22

## ***POLICY DIRECTIVE***

Jonathan Gulliver (signature on original)

HIGHWAY ADMINISTRATOR

### **Off-Site Stockpiling of Soil from MassDOT Construction Projects**

#### **Purpose**

The purpose of this Policy Directive is to formally establish a policy and procedures for managing and stockpiling soil generated and transported from MassDOT construction projects. This Policy Directive does not supersede any Federal, State, or Local regulations.

#### **Date of Effect**

This Policy Directive is effective immediately for all projects, including active construction projects.

For active construction projects and for other projects advertised prior to October 15, 2022, changes to the contract documents needed to implement the requirements of this Policy Directive will be considered on a case-by-case basis and shall be approved by the District Highway Director, as necessary.

For projects advertised on or after October 15, 2022, MassDOT will include the requirements and implementation procedures of this Policy Directive in the construction contract documents.

#### **Policy Requirements**

This policy is intended to prevent the off-site relocation of excavated soil generated from MassDOT projects to areas near residential receptors and to control potential fugitive dusts and/or contaminants. To that end, excavated soil may not be moved from the project site without knowledge of the content of the material. Knowledge may include visual field observations for presence of staining, odor, and/or debris, screening with a photoionization detector (PID), laboratory analysis, and/or site history. Pavement millings and other non-soil materials are not subject to the requirements of this Policy Directive.

Moving soil from a MassDOT project site to a temporary off-site storage location must be approved in writing by the District Highway Director.

The Contractor must select a storage location that is at least 500 feet away from residential receptors, as defined herein to include, but not be limited to, residential dwellings, residentially

zoned property, schools, daycare facilities, playgrounds, parks, recreational areas, hospitals, elderly housing and convalescent facilities.

Temporary off-site storage of excavated soil from a MassDOT project is only permissible at a location approved and permitted by MassDOT. The temporary storage location should be located within the same municipality where the soil was excavated, where possible. Stockpiled soil must be securely covered, and appropriate measures must be taken to minimize fugitive dust and erosion.

Signs indicating the source of the soil, the date the soil was generated, and contact information must be erected and maintained until the stockpiled soils are transported to a disposal facility or reused on the project site.

### **Implementation Procedures**

To ensure that off-site storage of excavated soils is managed properly on MassDOT projects, this policy requires the following:

#### **1. Off-Site Stockpile Storage Locations**

- a. The Contractor shall provide proposed off-site storage locations to the Engineer for approval at least 30 days prior to transporting soil off site. Off-site storage locations should be in the same municipality as the work site.
- b. The Contractor shall keep excavated soil on site until adequately characterized to the satisfaction of the Engineer.
- c. The Contractor shall provide notification of the approved off-site storage location to the local Board of Health and the Town Manager's/Mayor's Office at least 7-days prior to transporting soil off site.
- d. The Contractor shall provide the Engineer with at least 3-days' notice prior to transporting soil off site.
- e. For off-site storage locations on MassDOT property, the Contractor is required to obtain an Access Permit through the District Permits Office prior to storage of soil or other materials. MassDOT will issue these permits at no cost to the Contractor. Information to be submitted by the Contractor as part of the permit application shall include:
  - i. A description of material to be stored off-site, including available analytical data;
  - ii. A figure of the location with distances to residences and residential receptors; and
  - iii. Anticipated duration of temporary storage.
- f. Stockpile locations should not be within 500 feet of residential receptors (e.g., residential dwellings, residentially zoned property, schools, daycare facilities, playgrounds, parks, recreational areas, hospitals, elderly housing and convalescent facilities).
  - i. If the stockpile location must be within 500 feet of residential receptors, then soil must be less than RCS-1 (per 310 CMR 40.1600) and free of potentially hazardous or regulated items.

- g. For off-site storage locations on non-MassDOT property, the Contractor must notify the property owner(s) at least 7 days prior to transporting material.
- h. Exceptions to these rules will be reviewed by MassDOT and may be approved by the District Highway Director on a case-by-case basis.

## **2. Off-Site Stockpile Management**

- a. The Contractor shall keep soil stockpiles on impermeable surfaces (e.g., asphalt or concrete) or on 10-mil polyethylene sheeting.
- b. The Contractor shall cover soil stockpiles with 10-mil polyethylene sheeting and surround with a berm made of hay bales, straw wattles, or similar.
  - i. Piles that are actively being worked on must be covered and re-secured at the end of the work shift.
- c. The Contractor shall label stockpiles with signs, including:
  - i. Location of origin (including any Release Tracking Numbers)
  - ii. Stockpile ID number (including MassDOT District office-assigned tracking ID, if different)
  - iii. Date of initial accumulation
  - iv. Applicable telephone numbers for the Contractor and MassDOT.
- d. The Contractor shall mitigate fugitive dust at storage locations under the direction of an appropriately trained/certified environmental professional.
- e. The Contractor shall remedy noncompliance with this policy within 48 hours.
- f. The Contractor shall remedy noncompliance with this policy on the SAME DAY for potentially hazardous material, as determined by the Engineer.
- g. The Contractor shall handle excavated soil according to federal, state, and local regulations.
- h. The Contractor shall use appropriate shipping documents for all movements of excavated soil on public roadways (e.g., Bill of Lading, Material Shipping Record, Manifest, Asbestos Waste Shipment Record, etc.).

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Number: P-22-002Date: 9/23/22

## ***POLICY DIRECTIVE***

Jonathan Gulliver (signature on original)

HIGHWAY ADMINISTRATOR

### **Use of MassDOT Property for Staging and other Construction-Related Operations**

#### **Purpose**

This Policy Directive is intended to address the use of MassDOT property by MassDOT Contractors for construction staging and other construction-related operations that are not specifically defined in the construction contract. Such use of MassDOT property will only be allowed if permitted by the District Office in accordance with 700 CMR 13.00, Approval of Access to MassDOT Highways and Other Property. This includes the use of MassDOT property for staging, laydown, and storage of equipment and materials, including soil excavated from a project site.

This Policy Directive requires the Contractor/applicant to obtain a Non-Vehicular Access Permit from MassDOT to use MassDOT property for these purposes.

This Policy Directive is effective immediately and applies to all MassDOT construction projects.

#### **General Permit Considerations and Conditions**

In addition to other normal MassDOT Access Permit procedures, MassDOT shall consider the following during the application, review, implementation and monitoring processes of Access Permits required by this Policy Directive:

- Storage and placement of the Contractor's equipment and materials should not be allowed within the clear zone of the roadway.
- Stockpiled soils should not be located within 500 feet of residential receptors, as defined herein to include, but not be limited to, residential dwellings, residentially zoned property, schools, daycare facilities, playgrounds, parks, recreational areas, hospitals, elderly housing and convalescent facilities.
- The Contractor/applicant shall identify the access/egress locations of the proposed storage areas. MassDOT will only approve locations determined to be safe for roadway users, construction workers and the general public.
- The Contractor may be required to submit a Traffic Management Plan and/or Lighting Plan for MassDOT review and approval as part of the permit application, depending on the proposed use of the area.

- The Contractor shall submit the permit application through MassDOT's online State Highway Access Permit System (SHAPS).
- MassDOT will waive the permit application fee for any application received from a MassDOT Contractor for any permit required by this Policy Directive and will waive any subsequent amendment and extension fees that may otherwise be required.
- MassDOT will review the permit application in accordance with applicable standard procedures and will apply standard permit terms and conditions, as necessary.
- The Resident Engineer will verify that the permit is approved before allowing the Contractor to use the affected area for the requested purpose.
- Areas permitted are for use by the approved applicant only and are not to be shared with or used by other vendors. Subcontractors specifically engaged with the applicant working on the specific MassDOT project will be allowed to use the area in accordance with the terms of the permit.
- Permits are issued on an annual basis and will require the Contractor to file for an extension each year to continue use.

### **Exemptions from Permit Requirements**

Equipment and materials being used for active construction operations and located within the work zone of the construction contract are exempt from this permit requirement, provided they do not interfere with the safety or operation of the roadway or the work zone. Examples of these types of exempt uses are:

- Equipment and materials parked or stored within a protected (barriered) work zone.
- Materials placed in the work zone prior to same-day installation or use.
- Soils excavated temporarily and scheduled to be replaced, such as for trenching operations or for installation of drainage structures.

DOCUMENT B00420

PROPOSAL

DISTRICT 4

For: **Scheduled and Emergency Deck and Joint Repairs at Various Locations**

COMMONWEALTH OF MASSACHUSETTS

LOCATION

The work referred to herein is in the Cities and Towns of DISTRICT 4 in Essex, Middlesex, and Suffolk Counties, in the Commonwealth of Massachusetts, and is shown by the locus map (Document 00331) in the Proposal Pamphlet, the work locations extend as follows:

**at Various Locations**

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 **730 CALENDAR DAYS** upon receipt of a Notice to Proceed.

The Work of this project is described by the following Items and quantities.

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Project # 613779		Contract # 131469		
Location : DISTRICT4				
Description : Scheduled and Emergency Deck and Joint Repairs at Various Locations				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
100.1	150	BASE LABOR RATE  AT _____ PER HOUR		
106.08	50	ARMORED STEEL JOINT REMOVED AND DISCARDED  AT _____ PER FOOT		
106.12	20	BRIDGE CURB REMOVED AND RESET  AT _____ PER FOOT		
107.623	20	WORKING BARGE  AT _____ PER HOUR		
127.1	75	REINFORCED CONCRETE EXCAVATION  AT _____ PER CUBIC YARD		
127.4	500	REINFORCED CONCRETE DECK EXCAVATION (FULL DEPTH)  AT _____ PER SQUARE YARD		
127.41	175	REINFORCED CONCRETE DECK EXCAVATION (PARTIAL DEPTH)  AT _____ PER CUBIC YARD		
129.6	275	BRIDGE PAVEMENT EXCAVATION  AT _____ PER SQUARE YARD		
129.61	150	OLD ASPHALTIC PLUG JOINT REMOVED AND DISCARDED  AT _____ PER FOOT		

Project # 613779		Contract # 131469		
Location : DISTRICT4				
Description : Scheduled and Emergency Deck and Joint Repairs at Various Locations				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
451.	300	HMA FOR PATCHING  AT _____ PER TON		
472.	25	TEMPORARY ASPHALT PATCHING  AT _____ PER TON		
472.01	12	ROADWAY REPAIR CREW  AT _____ PER HOUR		
480.2	100	PAVEMENT CRACK SEALING - HIGH PERFORMANCE CRACK SEALER  AT _____ PER GALLON		
482.31	25	SAWING AND SEALING JOINTS IN ASPHALT PAVEMENT AT BRIDGES  AT _____ PER FOOT		
740.	24	ENGINEER'S FIELD OFFICE AND EQUIPMENT (TYPE A)  AT _____ PER MONTH		
748.1	5	EMERGENCY RESPONSE  AT _____ EACH		
851.1	150	TRAFFIC CONES FOR TRAFFIC MANAGEMENT  AT _____ PER DAY		
852.	350	SAFETY SIGNING FOR TRAFFIC MANAGEMENT  AT _____ PER SQUARE FOOT		

Project # 613779		Contract # 131469		
Location : DISTRICT4				
Description : Scheduled and Emergency Deck and Joint Repairs at Various Locations				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
853.403	300	TRUCK MOUNTED ATTENUATOR  AT _____ PER DAY		
853.8	200	TEMPORARY ILLUMINATION FOR WORK ZONE  AT _____ PER DAY		
854.6	150	TEMPORARY PORTABLE RUMBLE STRIP  AT _____ PER DAY		
856.	300	ARROW BOARD  AT _____ PER DAY		
856.12	10	PORTABLE CHANGEABLE MESSAGE SIGN  AT _____ PER DAY		
859.	2,000	REFLECTORIZED DRUM  AT _____ PER DAY		
859.1	250	REFLECTORIZED DRUMS WITH SEQUENTIAL FLASHING WARNING LIGHTS  AT _____ PER DAY		
909.3	200	RAPID SETTING LOW PERMEABILITY CONCRETE  AT _____ PER CUBIC YARD		
909.5	175	RAPID HARDENING CEMENTITIOUS PRODUCTS FOR CONCRETE REPAIRS  AT _____ PER CUBIC YARD		

Project # 613779		Contract # 131469		
Location : DISTRICT4				
Description : Scheduled and Emergency Deck and Joint Repairs at Various Locations				
ITEM #	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
910.1	10,000	STEEL REINFORCEMENT FOR STRUCTURES - EPOXY COATED  AT _____ PER POUND		
955.1	24	TIMBER DECK MAINTENANCE CREW  AT _____ PER HOUR		
966.	200	MEMBRANE WATERPROOFING FOR BRIDGE DECK REPAIRS  AT _____ PER SQUARE FOOT		
971.2	75	MODIFIED ASPHALTIC BRIDGE JOINT SYSTEM  AT _____ PER FOOT		
973.	75	PRE-COMPRESSED SEAL BRIDGE JOINT SYSTEM  AT _____ PER FOOT		
994.02	50	PROTECTIVE SHIELDING OVER RAILROAD TRACKS  AT _____ PER SQUARE FOOT		
994.1	50	TEMPORARY PROTECTIVE SHIELDING  AT _____ PER SQUARE FOOT		
994.12	200	TEMPORARY PROTECTIVE SHIELDING REMOVED AND RESET  AT _____ PER SQUARE FOOT		
Total Qty:		16,665		

DOCUMENT B00842

SCHEDULE OF PARTICIPATION  
BY MINORITY OR WOMEN BUSINESS ENTERPRISES (M/WBE)

MASSDOT PROJECT NUMBER: 613779PROJECT LOCATION: DISTRICT 4

DATE OF BID OPENING: \_\_\_\_\_

NAME OF PRIME BIDDER: \_\_\_\_\_

Name Address and Phone Number of M/WBE	Name of Activity	(a) M/WBE Contractor Activity Amount	(b) M/WBE Other Business Amount	(c) Total amount eligible for credit under rules in Section VIII of the Special Provisions
Total Bid Amount	TOTALS:	\$		\$
\$	M/WBE Percentage of Total bid:	%		%

Column (a) must be at least one-half of the M/WBE percentage goal.

SIGNATURE: \_\_\_\_\_ Date: \_\_\_\_\_ Tel No: \_\_\_\_\_

NAME AND TITLE (PRINT): \_\_\_\_\_

BIDDERS ARE CAUTIONED TO REVIEW DOCUMENT 00718 -- SPECIAL PROVISION FOR  
PARTICIPATION BY MINORITY OR WOMEN BUSINESS ENTERPRISES AND SERVICE DISABLED  
VETERAN OWNED BUSINESS ENTERPRISES.

\*\*\* END OF DOCUMENT \*\*\*

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DOCUMENT B00843

MINORITY OR WOMEN'S BUSINESS ENTERPRISE PARTICIPATION LETTER OF INTENT  
PAGE 1 OF 2MASSDOT PROJECT NUMBER: 613779

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PROJECT LOCATION: DISTRICT 4

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DATE OF BID OPENING: 

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FROM 

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(Minority or Women's Business Enterprise Company)

TO: 

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(Name of Prime Contractor)

1. My company is currently certified as an MBE or WBE by the Massachusetts Supplier Diversity Office, formerly known as the State Office of Minority and Women Business Assistance (SOMWBA). There have been no changes affecting the ownership, control or independence of my company since my last certification review.
2. If any such change occurs prior to my company's completion of this proposed work, I will give written notification to your firm and to the Massachusetts Department of Transportation (MassDOT).
3. (For contractor activity only.) My firm will provide to you, upon request, for the purpose of obtaining subcontractor approval from MassDOT; (1) a resume stating the qualifications and experience of the superintendent or foreperson who will supervise on site-work; (2) a list of equipment owned or leased by my firm for use on the project; (3) a list of all projects (public or private) which my firm is currently performing, is committed to perform, or intends to make a commitment to perform. I shall include, for each project, the names and telephone number of a contact person for the contracting organization, the dollar value of the work, a description of the work, and my firm's work schedule for the Project.
4. If you are awarded the Contract, my company intends to enter into an agreement with your firm to perform the items of work or other activity described on the following sheet for the prices indicated.
5. My firm has the ability to manage, supervise and perform the activity described on the following page.

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M/WBE Authorized Signature

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Date

MINORITY OR WOMEN'S BUSINESS ENTERPRISE PARTICIPATION LETTER OF INTENT  
PAGE 2 OF 2MASSDOT PROJECT NUMBER: 613779PROJECT LOCATION: DISTRICT 4

DATE OF BID OPENING: \_\_\_\_\_

NAME OF PRIME BIDDER: \_\_\_\_\_

<u>Item number</u> if applicable	<u>Description of Activity</u> with notations such as Installation Only, Material Only, or Complete	<u>Quantity</u>	<u>Unit</u> <u>Price</u>	<u>Amount</u>
TOTAL AMOUNT:				

M/WBE COMPANY NAME: \_\_\_\_\_

M/WBE AUTHORIZED SIGNATURE: \_\_\_\_\_

NAME AND TITLE (PRINT): \_\_\_\_\_

TELEPHONE NUMBER: \_\_\_\_\_ FAX NUMBER: \_\_\_\_\_

\*\*\* END OF DOCUMENT \*\*\*

Rev'd 9/20/19

DOCUMENT B00846

**M/WBE OR SDVOBE JOINT CHECK ARRANGEMENT APPROVAL FORM**  
*(to be submitted by Prime Contractor)***Contract No:** 131469      **Project No.** 613779**Location:** DISTRICT 4      **Bid Opening Date:** \_\_\_\_\_**Project Description:** Scheduled and Emergency Deck and Joint Repairs at Various Locations

We have received the attached request for the use of a joint check arrangement from \_\_\_\_\_, a M/WBE or SDVOBE on the above- referenced Contract and \_\_\_\_\_, a Material Supplier/Vendor for the subject Contract. The M/WBE or SDVOBE has complied with the requirements of Special Provision Document 00718. In particular, the M/WBE or SDVOBE 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 M/WBE or SDVOBE) for payment of sums due pursuant to invoices from the Supplier/Vendor and M/WBE or SDVOBE.

**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 B00847

**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 M/WBE or SDVOBE, 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 M/WBE or SDVOBE Venturer; (4) the commitment of management, supervisory and operative personnel employed by the M/WBE or SDVOBE 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?

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**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, M/WBE or SDVOBE 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

\*\*\* END OF DOCUMENT \*\*\*