CJD

COMMONWEALTH OF MASSACHUSETTS

massDOT
Massachusetts Department of Transportation
Highway Division

CONTRACT DOCUMENTS AND SPECIAL PROVISIONS

PROPOSAL NO.	616286-135582
P.V. =	$2,272,000.00
PLANS	NO

FOR

Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 2)

in the Towns and City of

CHESTERFIELD-HINSDALE-MIDDLEFIELD-PITTSFIELD

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

This Proposal to be opened and read: **TUESDAY, AUGUST 25, 2026 at 2:00 P.M.**

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DOCUMENT 00102

NOTICE TO CONTRACTORS

Electronic proposals for the following project will be received through the internet using www.bidx.com until the date and time stated below and will be posted on www.bidx.com forthwith after the bid submission deadline. No paper copies of bids will be accepted. All Bidders must have a valid vendor code issued by MassDOT in order to bid on projects. Bidders need to apply for a Digital ID at least 14 days prior to a scheduled bid opening date with www.bidx.com.

TUESDAY, AUGUST 25, 2026 at 2:00 P.M. **
CHESTERFIELD-HINSDALE-MIDDLEFIELD-PITTSFIELD
Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 2)
****Date Subject to Change**

PROJECT VALUE = $2,272,000.00

Bidders must be pre-qualified by the Department in the BRIDGE - CONSTRUCTION category to bid on the above project. An award will not be made to a Contractor who is not pre-qualified by the Department prior to the opening of Proposals.

All prospective Bidders who intend to bid on this project must obtain "Request Proposal Form (R109)". The blank "Request Proposal Form (R109)" can be obtained at: https://www.mass.gov/prequalification-of-horizontal-construction-firms.

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

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

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

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

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.

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 $712.50 per ton, Portland cement $452.13 per ton, diesel fuel $3.911 per gallon, and gasoline $3.136 per gallon, and Steel Base Price Index 370.1. MassDOT posts the **Price Adjustments** on their Highway Division's website at
https://www.mass.gov/massdot-contract-price-adjustments

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

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

Prospective bidders and interested parties can access this information and more via the internet at WWW.COMMBUYS.COM.

BY: Phillip Eng, Interim MassDOT Secretary
Jonathan L. Gulliver, Undersecretary and Highway Administrator
SATURDAY, JULY 18, 2026

DOCUMENT 00210

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

July 1, 1981, updated October 2016

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

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

(1) “Contractor" means any person, corporation, partnership, joint venture, sole proprietorship, or other entity awarded a contract pursuant to sections thirty-eight A1/2 to thirty-eight O, inclusive, of chapter seven and any contract awarded or executed pursuant to section eleven C of chapter twenty-five A, section thirty-nine M of chapter thirty, or sections forty-four A to forty-four H, inclusive, of chapter one hundred and forty-nine, which is for an amount or estimated amount greater than one hundred thousand dollars.

(2) "Contract" means any contract awarded or executed pursuant to sections thirty-eight A1/2 to thirty-eight O, inclusive, of chapter seven and any contract awarded or executed pursuant to section eleven C of chapter twenty-five A, section thirty-nine M of chapter thirty, or sections forty-four A through forty-four H, inclusive, of chapter one hundred and forty-nine, which is for amount or estimated amount greater than one hundred thousand dollars.

(3) “Records" means books of original entry, accounts, checks, bank statements and all other banking documents, correspondence, memoranda, invoices, computer printouts, tapes, discs, papers and other documents or transcribed information of any type, whether expressed in ordinary or machine language.

(4) “Independent Certified Public Accountant" means a person duly registered in good standing and entitled to practice as a certified public accountant under the laws of the place of his residence or principal office and who is in fact independent. In determining whether an accountant is independent with respect to a particular person, appropriate consideration should be given to all relationships between the accountant and that person or any affiliate thereof. Determination of an accountant's independence shall not be confined to the relationships existing in connection with the filing of reports with the awarding authority.

(5) “Audit", when used in regard to financial statements, means an examination of records by an independent certified public accountant in accordance with generally accepted accounting principles and auditing standards for the purpose of expressing a certified opinion thereon, or, in the alternative, a qualified opinion or a declination to express an opinion for stated reasons.

(6) "Accountant's Report", when used in regard to financial statements, means a document in which an independent certified public accountant indicates the scope of the audit which he has made and sets forth his opinion regarding the financial statements taken as a whole with a listing of noted exceptions and qualifications, or an assertion to the effect that an overall opinion cannot be expressed. When an overall opinion cannot be expressed the reason therefor shall be stated. An accountant's report shall include as a part thereof a signed statement by the responsible corporate officer attesting that management has fully disclosed all material facts to the independent certified public accountant, and that the audited financial statement is a true and complete statement of the financial condition of the contractor.

(7) “Management", when used herein, means the chief executive officers, partners, principals or other person or persons primarily responsible for the financial and operational policies and practices of the contractor.

(8) Accounting terms, unless otherwise defined herein, shall have a meaning in accordance with generally accepted accounting principles and auditing standards.

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

(1) The contractor shall make, and keep for at least six years after final payment, books, records, and accounts which in reasonable detail accurately and fairly reflect the transactions and dispositions of the contractor, and

(2) Until the expiration of six years after final payment, the office of inspector general, and the commissioner of capital asset management and maintenance shall have the right to examine any books, documents, papers or records of the contractor or of his subcontractors that directly pertain to, and involve transactions relating to, the contractor or his subcontractors, and

(3) If the agreement is a contract as defined herein, the contractor shall describe any change in the method of maintaining records or recording transactions which materially affect any statements filed with the awarding authority, including in his description the date of the change and reasons therefor, and shall accompany said description with a letter from the contractor's independent certified public accountant approving or otherwise commenting on the changes, and

(4) If the agreement is a contract as defined herein, the contractor has filed a statement of management on internal accounting controls as set forth in paragraph (c) below prior to the execution of the contract, and

(5) If the agreement is a contract as defined herein, the contractor has filed prior to the execution of the contracts and will continue to file annually, an audited financial statement for the most recent completed fiscal year as set forth in paragraph (d) below.

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

(1) transactions are executed in accordance with management's general and specific authorization;

(2) transactions are recorded as necessary

i. to permit preparation of financial statements in conformity with generally accepted accounting principles, and

ii. to maintain accountability for assets;

(3) access to assets is permitted only in accordance with management's general or specific authorization; and

(4) the recorded accountability for assets is compared with the existing assets at reasonable intervals and appropriate action was taken with respect to any difference.

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

(1) whether the representations of management in response to this paragraph and paragraph (b) above are consistent with the result of management's evaluation of the system of internal accounting controls; and

(2) whether such representations of management are, in addition, reasonable with respect to transactions and assets in amounts which would be material when measured in relation to the applicant's financial statements.

(d) Every contractor awarded a contract by the commonwealth or by any political subdivision thereof shall annually file with the commissioner of capital asset management and maintenance during the term of the contract a financial statement prepared by an independent certified public accountant on the basis of an audit by such accountant. The final statement filed shall include the date of final payment. All statements shall be accompanied by an accountant's report. Such statements shall be made available to the awarding authority upon request.

(e) The office of inspector general, the commissioner of capital asset management and maintenance and any other awarding authority shall enforce the provisions of this section. The commissioner of capital asset management and maintenance may after providing an opportunity for the inspector general and other interested parties to comment, promulgate pursuant to the provisions of chapter thirty A such rules, regulations and guidelines as are necessary to effectuate the purposes of this section. Such rules, regulations and guidelines may be applicable to all awarding authorities. A contractor's failure to satisfy any of the requirements of this section may be grounds for debarment pursuant to section forty-four C of chapter one hundred and forty-nine.

(f) Records and statements required to be made, kept or filed under the provisions of this section shall not be public records as defined in section seven of chapter four and shall not be open to public inspection; provided, however, that such records and statements shall be made available pursuant to the provisions of clause (2) of paragraph (b).

M.G.L. c. 30, § 39O: Suspension, Delay, or Interruption or Failure to Act by Awarding Authority; Adjustment in Contract Price; Submission of Claims.

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

(a) The awarding authority may order the general contractor in writing to suspend, delay, or interrupt all or any part of the work for such period of time as it may determine to be appropriate for the convenience of the awarding authority; provided however, that if there is a suspension, delay or interruption for fifteen days or more or due to a failure of the awarding authority to act within the time specified in this contract, the awarding authority shall make an adjustment in the contract price for any increase in the cost of performance of this contract but shall not include any profit to the general contractor on such increase; and provided further, that the awarding authority shall not make any adjustment in the contract price under this provision for any suspension, delay, interruption or failure to act to the extent that such is due to any cause for which this contract provides for an equitable adjustment of the contract price under any other contract provisions.

(b) The general contractor must submit the amount of a claim under provision (a) to the awarding authority in writing as soon as practicable after the end of the suspension, delay, interruption or failure to act and, in any event, not later than the date of final payment under this contract and, except for costs due to a suspension order, the awarding authority shall not approve any costs in the claim incurred more than twenty days before the general contractor notified the awarding authority in writing of the act or failure to act involved in the claim.

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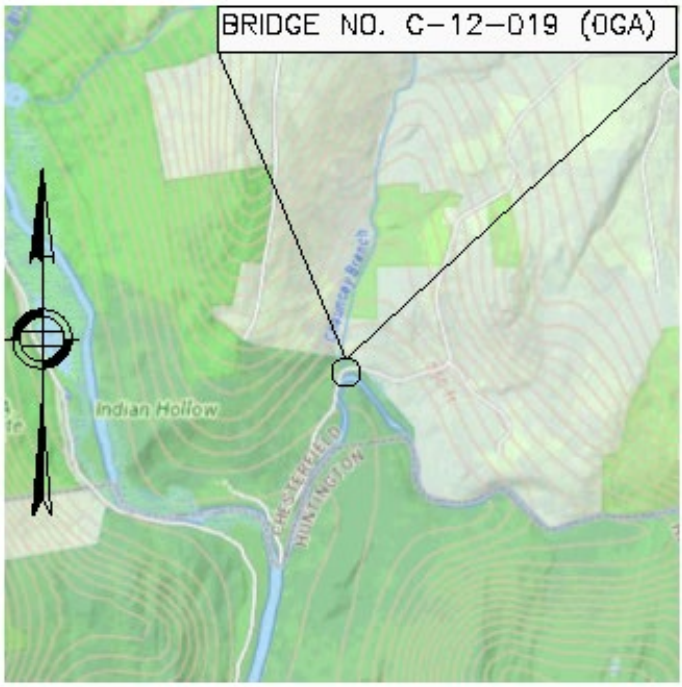
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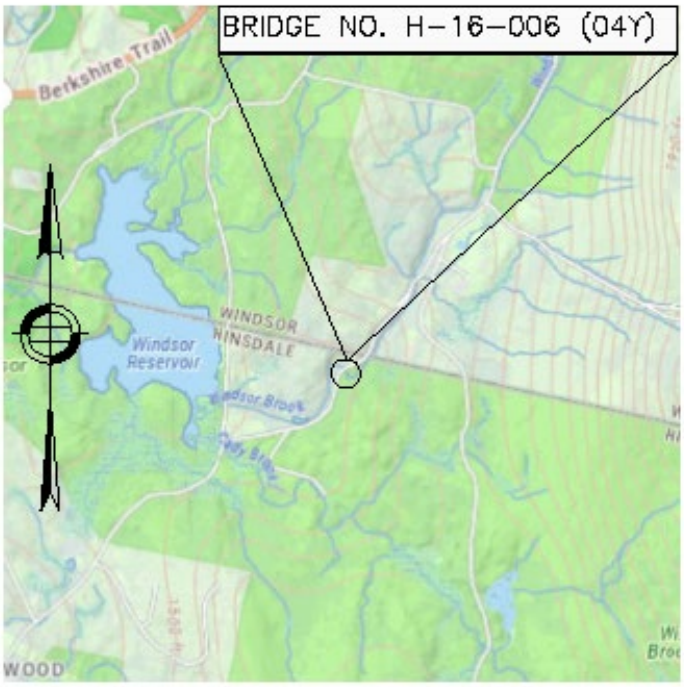
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DOCUMENT 00331

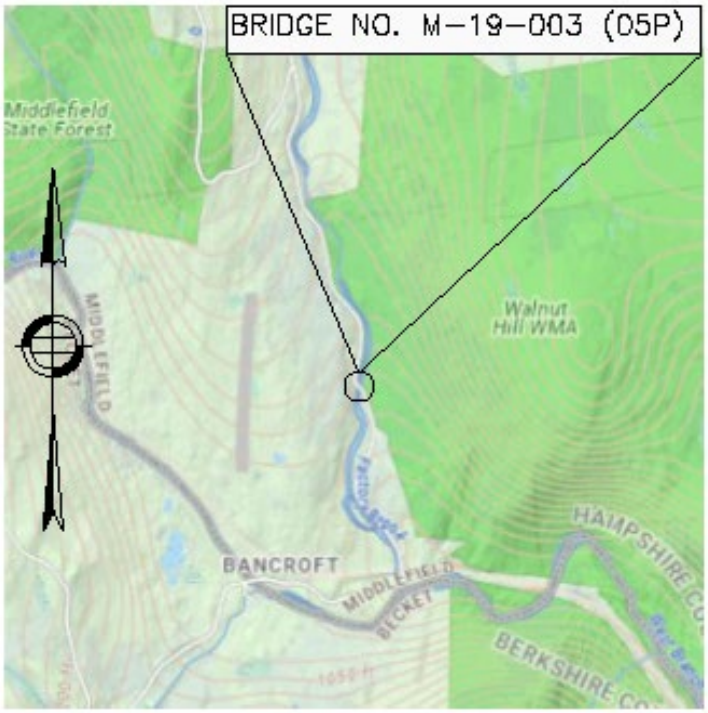
LOCUS MAP

CHESTERFIELD-HINSDALE-MIDDLEFIELD-PITTSFIELD
Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 2)



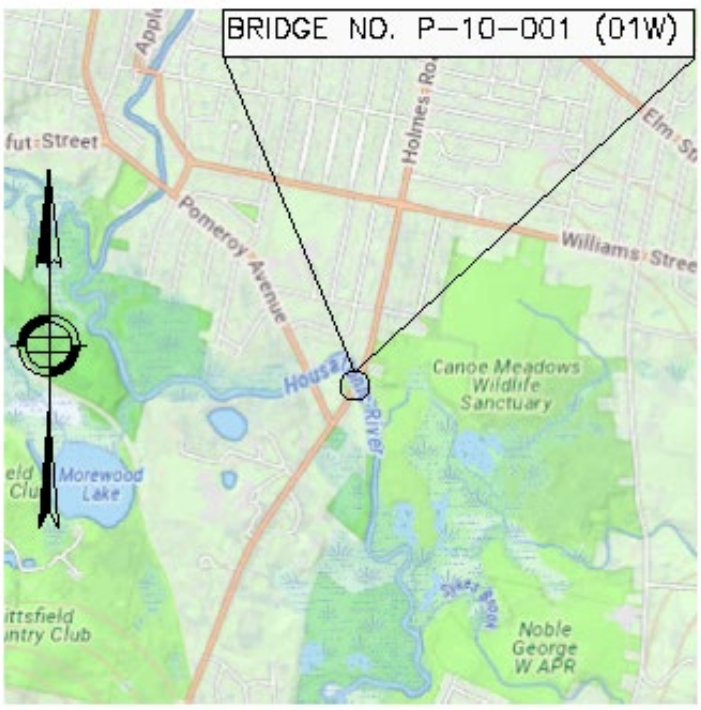


NOT TO SCALE


BRIDGE NO. M-19-003 (05P)
Middlefield State Forest
Walnut Hill WMA
BANCROFT
MIDDLEFIELD
BECKET
HAMPSHIRE CO
BERKSHIRE CO


BRIDGE NO. M-19-004 (05Q)
Middlefield State Forest
Walnut Hill WMA
BANCROFT
MIDDLEFIELD
BECKET
HAMPSHIRE CO
BERKSHIRE CO

NOT TO SCALE


BRIDGE NO. P-10-001 (01W)
Pomeroy Avenue
Williams Stree
Canoe Meadows
Wildlife
Sanctuary
Morewood
Lake
Noble
George
W APR

NOT TO SCALE

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DOCUMENT 00439

Final Report ☐

Interim Report ☐

CONTRACTOR PROJECT EVALUATION FORM

For instructions on using this form, see Engineering Directive E-10-002, Dated 4/20/2010

Date: _____

City/Town: _____ Contractor: _____

Project: _____ Address: _____

F.A. No. _____ Contract Number: _____

Bid Price: _____ Notice to Proceed: _____

Funds: State: _____ Fed Aid: _____ Current Contract Completion Date: _____

Date Work Started: _____ Date Work Completed*: _____

Contractor's Superintendent: _____

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

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

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

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

_____ _____

District Construction Engineer's Signature/Date Resident Engineer's Signature/Date

_____

Contractor's Signature Acknowledging Report/Date

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

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

_____

_____

CONTRACTOR 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 – 9:_____

WORK NOT COMPLETED WITHIN SPECIFIED TIME: _____

Revised: 04/28/17

*** END OF DOCUMENT ***

DOCUMENT 00440

Final Report ☐

Interim Report ☐

SUBCONTRACTOR PROJECT EVALUATION FORM

For instructions on using this form, see Engineering Directive E-10-002, Dated 4/20/2010

Date: _____

City/Town: _____ Subcontractor: _____

Project: _____ Address: _____

F.A. No.: _____ Contract Number: _____

Prime Contractor _____ Current Contract Completion Date: _____

Date Work Started: _____ Date Work Completed*: _____

Subcontractor's Superintendent: _____

Type of Work Performed by Subcontractor: _____

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

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

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

_____ _____

District Construction Engineer's Signature/Date Resident Engineer's Signature/Date

_____ _____

Contractor Signature Acknowledging Report/Date Subcontractor Signature Acknowledging Report/Date

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

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

_____

_____

Contractor's Comments: _____

_____

SUBCONTRACTOR PROJECT EVALUATION FORM (Continued)

Date: _____ Contract Number:_____

INFORMATION FOR DISTRICT HIGHWAY DIRECTORS RELATING TO PREQUALIFICATION

A deduction shall be recommended for unsatisfactory performance if computed overall rating is under 80%.
A deduction may be recommended for this project being completed late due to the Contractor's fault.

RECOMMENDATIONS FOR DEDUCTIONS FROM CONTRACTORS' ASSIGNED FACTOR
(*Write Yes or No in space provided*)

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

I recommend a deduction for project completed late:_____

Signed: _____
District Highway Director

EXPLANATION OF RATINGS 1 – 8: _____

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WORK NOT COMPLETED WITHIN SPECIFIED TIME: _____

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Revised: 04/28/17

*** END OF DOCUMENT ***

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

NOTICE OF AVAILABILITY

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

SPECIAL PROVISIONS FOR RIGHT-TO-KNOW ACT REQUIREMENTS

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

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

1. Deliver to the Department, prior to the start of any work under this contract, copies of MSDS for all MSL substances to be used, stored, processed or manufactured at the worksite by the Contractor.

2. Train employees of the Department, who may be exposed to MSL substances as a result of the Contractor's work under this contract, with regard to those specific substances in accordance with requirements of the Right-To-Know Act.

3. Observe all safety precautions recommended on the MSDS for any MSL substance to be used, stored, processed, or manufactured at the worksite by the Contractor.

4. Inform the Department in writing regarding specific protective equipment recommended in the MSDS for MSL substances to which employees of the Department may be exposed as a result of the Contractor's work under this contract.

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

ALTERNATIVE DISPUTE RESOLUTION
Forum, Choice of Law and Mediations:

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

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DOCUMENT 00715

SUPPLEMENTAL SPECIFICATIONS

JUNE 30, 2026

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

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

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

DIVISION I

GENERAL REQUIREMENTS AND COVENANTS

SECTION 5.00: CONTROL OF WORK

Subsection 5.03: Conformity with Plans and Specifications
Change the MGL reference in the first sentence to Chapter 30, Section 39I (from Section 39L).

DIVISION II

CONSTRUCTION DETAILS

SECTION 200: DRAINAGE

SUBSECTION 227: DRAINAGE SYSTEM SEDIMENT

Subsection 227.30, Method of Measurement
Change the subsection number to 227.80

Subsection 227.31, Basis of Payment
Change the subsection number to 227.81

Subsection 227.31, Payment Items
Change the subsection number to 227.82

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

SUBSECTION 430: CEMENT CONCRETE BASE COURSE

Subsection 430.40: General
Change Applied Crack Sealer to Hot Applied Crack Sealer.

SUBSECTION 476: CEMENT CONCRETE PAVEMENT

Subsection 476.20: Materials
Delete Preformed Bituminous Joint Filler for Concrete - M3.05.5 and add the following in M number sequence:

Preformed Expansion Joint Filler	M9.14.0

SUBSECTION 477: MILLED RUMBLE STRIPS

Subsection 477: Milled Rumble Strips
Replace this subsection with the following:

DESCRIPTION

477.20: General

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

CONSTRUCTION METHODS

477.61: Equipment

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

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

477.62: Installation of Rumble Strips

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

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

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

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

477.63: Control of the Work Area

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

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

COMPENSATION

477.80: Method of Measurement

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

477.81: Basis of Payment

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

477.82: Payment Items

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

SUBSECTION 482: SAWCUTTING

Subsection 482.80: Method of Measurement
Replace this subsection with the following:

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

SECTION 600: HIGHWAY GUARD, FENCES AND WALLS

SUBSECTION 628: IMPACT ATTENUATORS

Subsection 628.82: Payment Items
Replace this subsection with the following:

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

SECTION 800: TRAFFIC CONTROL DEVICES

SUBSECTION 813: WIRING, GROUNDING AND SERVICE CONNECTIONS

Subsection 813.20: General
Replace this subsection with the following:

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

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

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

Subsection 813.41: Grounding and Bonding Conductions
Replace this subsection with the following:

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

Subsection 813.42: Ground Rods
Replace this subsection with the following:

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

Subsection 813.44: Power Pedestal
Add this subsection in numerical order:

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

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

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

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

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

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

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

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

Subsection 813.64: Power Pedestal
Add this subsection in numerical order:

No work shall commence until Shop Drawings have been approved.

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

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

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

Subsection 813.80.E: Power Pedestal
Add this subsection in numerical order:

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

Subsection 813.81.E: Power Pedestal
Add this subsection in numerical order:

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

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

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

Subsection 813.82: Payment Items
Change the unit of measure for items 813.80 and 813.81 to Each and add the following pay item:

Subsection 815.82: Payment Items
Delete payment items 818.90 to 818.94, 819.39, 819.832, 819.52, 819.53, 819.60 to 819.64, 819.70, 819.71, 819.72, 819.800, 819.801, 819.802, 819.803,:819.810, 819.811, 819.820, 819.821, 819.850, 819.851, 819.852.

Add the following payment item:

813.90	Power Pedestal	Each

SUBSECTION 819: TRAFFIC SIGNAL DETECTION

Subsection 819: Traffic Signal Detection
Add this subsection:

DESCRIPTION

819.20: General

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

MATERIALS

819.40: General

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

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

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

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

819.40.A: Vehicle Detection Systems

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

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

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

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

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

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

819.40.B: Pedestrian Detectors

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

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

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

819.41: Video Monitoring System

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

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

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

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

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

Table 819.41-1: Minimum Camera Requirements

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

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

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

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

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

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

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

819.42: Material Warranties

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

Construction Methods

819.60: General

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

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

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

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

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

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

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

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

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

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

819.61: Programming APS Pushbuttons

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

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

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

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

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

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

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

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

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

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

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

*Note: See Plans for Street Name information.

The vibrotactile arrow shall vibrate during the walk interval.

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

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

819.62: VDS Testing and Evaluation

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

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

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

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

Compensation

819.80: Method of Measurement

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

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

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

819.81: Basis of Payment

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

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

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

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

819.82: Payment Items

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

SUBSECTION 850: TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE OPERATIONS

Subsection 850.25: Arrow Board
Subsection 850.45: Arrow Board
Subsection 850.65: Arrow Board
Delete these subsections.

Subsection 850.80: Method of Measurement
Delete the 7th paragraph beginning with "Arrow Board will be measured …"

Subsection 850.81: Basis of Payment
Delete the 7th paragraph beginning with "Arrow Board will be paid for …"

Subsection 850.82: Payment Items
Revise description and unit of item 852. to Safety Signing for Traffic Management / Square Foot.
Delete item number 856.

SUBSECTION 856: CONNECTED WORK ZONE NOTIFICATION SYSTEM AND ASSOCIATED DEVICES

Subsection 856: Connected Work Zone Notification System and Associated Devices
Add this new subsection.

DESCRIPTION

856.20: General

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

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

MATERIALS

856.40: General

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

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

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

856.41: Arrow Board

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

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

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

Table 856.41-1: Arrow Board Dimensions and Elements

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

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

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

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

856.42: Shop Drawings

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

CONSTRUCTION METHODS

856.60: General

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

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

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

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

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

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

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

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

COMPENSATION

856.80: Method of Measurement

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

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

856.81: Basis of Payment

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

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

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

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

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

856.82: Payment Items

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

SECTION 900: STRUCTURES

SUBSECTION 901: CEMENT CONCRETE

Subsection 901.20: Materials

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

Preformed Expansion Joint Filler	M9.14.0

SUBSECTION 983: REVETMENT

Subsection 983.40: General
Delete Preformed Bituminous Fiber Joint Filler – M3.05.3 and add the following in M number sequence:

Preformed Expansion Joint Filler	M9.14.0

DIVISION III

MATERIALS SPECIFICATIONS

SECTION M3: ASPHALTIC MATERIALS

Subsection M3.05.5: Preformed Bituminous Joint Filler for Concrete
Delete this subsection.

SECTION M9: MISCELLANEOUS MATERIALS

Subsection M9.14.0: Preformed Expansion Joint Filler
Replace this subsection with the following:

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

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

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

Subsection M9.14.2: Closed Cell Foam Joint Filler
Delete this subsection:

M10.03.1: Field Monitoring Unit

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

Subsection M9.14.2: Closed Cell Foam Joint Filler
Delete this subsection:

SECTION M10: TRAFFIC CONTROL DEVICES

Subsection M10.03.1: Field Monitoring Unit
Add these new subsections:

M10.03.1: Field Monitoring Unit

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

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

M10.03.1.A: Hardware

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

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

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

M10.03.1.B: Software

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

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

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

M10.03.1.C: Wireless Connectivity

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

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

M10.03.1.D: Remote Access

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

Subsection M10.08.0: Vehicle Detection Systems
Subsection M10.08.0: Vehicle Detection Systems
Subsection M10.08.0: Vehicle Detection Systems
Add theses new subsections:

M10.08.0: Vehicle Detection Systems

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

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

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

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

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

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

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

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

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

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

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

M10.08.1: Passive Stop Line Detectors

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

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

M10.08.2: Passive Advanced Detectors

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

Subsection M10.09.0: Pedestrian Detectors
Subsection M10.09.1: Pedestrian Pushbutton Assembly
Subsection M10.09.2: APS Pushbutton Assembly
Add theses new subsections:

M10.09.0: Pedestrian Detectors

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

Pedestrian Detectors may be pushbuttons or passive detection devices.

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

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

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

M10.09.1: Pedestrian Pushbutton Assembly

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

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

The pushbutton shall meet one of the following criteria:

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

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

The housing shall be yellow.

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

M10.09.2: APS Pushbutton Assembly

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

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

APS Pushbutton Assembly shall be capable of the following:

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

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

Subsection M10.18.: Connected Work Zone Notification System Devices
Add this new subsection.

M10.18.0: Connected Work Zone Notification System Devices

Connected Work Zone Notification System (CWZNS) devices shall include the following:

- An internal 4G LTE or 5G cellular modem. The modem shall be compatible with SIM cards from multiple cellular carriers, or the device shall be capable of using a cellular modem from more than one cellular carrier.
- An integrated GPS that will allow for automated telemetry without additional configuration.
- A self-contained power source that can be recharged without manual intervention. The power source shall enable uninterrupted operation of the CWZNS field device.
- Mounting and supporting hardware and wiring necessary to complete a working system.

CWZNS devices shall be capable of operating in temperatures ranging from -40°F to +122°F with no degradation in operation due to rain, fog, snow, ice, darkness, dust, or road debris.

CWZNS devices shall be physically and digitally secured to prevent unauthorized access.

When powered on, real-time data from CWZNS devices shall be provided in a USDOT Work Zone Data Exchange (WZDx) Specification Device Feed version 4.2. The Device Feed shall then be able to be consumed by the MassDOT Work Zone Manager (WZM) application. The Device Feed shall meet the following requirements:

- Each manufacturer of CWZNS field devices and Smart Work Zone (SWZ) field devices shall provide a single statewide Device Feed (a single URL) that consists of that manufacturer's field devices that are used by or under the direction of the Department.
- The Device Feed shall be made available via an HTTP GET request. The response shall be the WZDx Device Feed JSON object without a wrapper or paging.
- The Device Feed shall be public or use "Basic" HTTP Authentication.
- The Device Feed shall be provided over HTTPS.
- The Device Feed shall reflect changes in CWZNS field device status (e.g., display changed or device moved) no later than 60 seconds after they occur.
- For each CWZNS field device, the "update date" property shall be no older than 60 minutes, except when it has stopped communicating or is otherwise in error.
- The "id" property of each CWZNS field device feature in the Device Feed shall stay the same for the duration of the Contract and shall be a Universally Unique IDentifier (UUID) to guarantee uniqueness between feeds and over time.

M10.18.1: Location Marker

Location Markers shall meet the requirements of M10.18.0: Connected Work Zone Notification System Devices.

Location Markers may be standalone devices or an attachment to a channelizing device. Either type shall be certified to comply with the relevant minimum TL-3 testing requirements of the *Manual on Assessing Safety Hardware*.

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END OF SUPPLEMENTAL SPECIFICATIONS

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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 **8 %**
(*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.

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, 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 a use 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 M/WBE is completed, or no later than 30 calendar days after the work of the M/WBE 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/WBE) (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 15, 2026

This special provision applies to all projects containing the use of structural steel and/or reinforcing steel as specified elsewhere in the Contract work. It applies to all structural steel and all reinforcing steel, as defined below, on the project. Compliance with this provision is mandatory, i.e., there are no "opt-in" or "opt-out" clauses. Price adjustments will be handled as described below and shall only apply to unfabricated reinforcing steel bars and unfabricated structural steel material, consisting of rolled shapes, plate steel, sheet piling, pipe piles, steel castings and steel forgings.

Price adjustments will be variances between Base Prices and Period Prices. Base Prices and Period Prices are defined below.

Price adjustments will only be made if the variances between Base Prices and Period Prices are 5% or more. A variance can result in the Period Price being either higher or lower than the Base Price. Once the 5% threshold has been achieved, the adjustment will apply to the full variance between the Base Price and the Period Price.

Price adjustments will be calculated by multiplying the number of pounds of unfabricated structural steel material or unfabricated reinforcing steel bars on a project by the index factor calculated as shown below under Example of a Period Price Calculation.

Price adjustments will ***not*** include guardrail panels or the costs of shop drawing preparation, handling, fabrication, coatings, transportation, storage, installation, profit, overhead, fuel costs, fuel surcharges, or other such charges not related to the cost of the unfabricated structural steel and unfabricated reinforcing steel.

The weight of steel subject to a price adjustment shall not exceed the final shipping weight of the fabricated part by more than 10%.

Base Prices and Period Prices are defined as follows:

Base Prices of unfabricated structural steel and unfabricated reinforcing steel on a project are fixed prices determined by the Department and found in the table below. While it is the intention of the Department to make this table comprehensive, some of a project's unfabricated structural steel and/or unfabricated reinforcing steel may be inadvertently omitted. Should this occur, the Contractor shall bring the omission to the Department's attention so that a contract alteration may be processed that adds the missing steel to the table and its price adjustments to the Contract.

The Base Price Date is the month and year of the most recent finalized period price index at the time that MassDOT opened bids for the project. The Base Price Index for this contract is the Steel PPI listed in the Notice to Contractors.

Period Prices of unfabricated structural steel and unfabricated reinforcing steel on a project are variable prices that have been calculated using the Period Price Date and an index of steel prices to adjust the Base Price.

The Period Price Date is the date the steel was delivered to the fabricator as evidenced by an official bill of lading submitted to the Department containing a description of the shipped materials, weights of the shipped materials and the date of shipment. This date is used to select the Period Price Index.

The index used for the calculation of Period Prices is the U.S. Department of Labor Bureau of Labor Statistics Producer Price Index (PPI) Series ID WPU101702 (Not Seasonally Adjusted, Group: Metals and Metal Products, Item: Semi-finished Steel Mill Products.) As this index is subject to revision for a period of up to four (4) months after its original publication, no price adjustments will be made until the index for the period is finalized, i.e., the index is no longer suffixed with a "(P)".

Period Prices are determined as follows:

Period Price = Base Price X Index Factor
Index Factor = Period Price Index / Base Price Index

Example of a Period Price Calculation:

Calculate the Period Price for December 2009 using a Base Price from March 2009 of $0.82/Pound for 1,000 Pounds of ASTM A709 (AASHTO M270) Grade A36 Structural Steel Plate.

The Period Price Date is December 2009. From the PPI website*, the Period Price Index = 218.0.

The Base Price Date is March 2009. From the PPI website*, the Base Price Index = 229.4.

Index Factor = Period Price Index / Base Price Index = 218.0 / 229.4 = 0.950
Period Price = Base Price X Index Factor = $0.82/Pound X 0.950 = $0.78/Pound

Since $0.82 - $0.78 = $0.04 is less than 5% of $0.82, no price adjustment is required.

If the $0.04 difference shown above was greater than 5% of the Base Price, then the price adjustment would be 1,000 Pounds X $0.04/Pound = $40.00. Since the Period Price of $0.78/Pound is less than the Base Price of $0.82/Pound, indicating a drop in the price of steel between the bid and the delivery of material, a credit of $40.00 would be owed to MassDOT. When the Period Price is higher than the Base Price, the price adjustment is owed to the Contractor.

* To access the PPI website and obtain a Base Price Index or a Period Price Index, go to http://data.bls.gov/cgi-bin/srgate

End of example.

The Contractor will be paid for unfabricated structural steel and unfabricated reinforcing steel under the respective contract pay items for all components constructed of either structural steel or reinforced Portland cement concrete under their respective Contract Pay Items.

Price adjustments, as herein provided for, will be paid separately as follows:

Structural Steel
Pay Item Number 999.449 for positive (+) pay adjustments (payments to the Contractor)

Pay Item Number 999.457 for negative (-) pay adjustments (credits to MassDOT Highway Division)

Reinforcing Steel
Pay Item Number 999.466 for positive (+) pay adjustments (payments to the Contractor)

Pay Item Number 999.467 for negative (-) pay adjustments (credits to MassDOT Highway Division)

No price adjustment will be made for price changes after the Contract Completion Date, unless the MassDOT Highway Division has approved an extension of Contract Time for the Contract.

TABLE

Steel Type		Price per Pound
1	ASTM A615/A615M Grade 60 (AASHTO M31 Grade 60 or 420) Reinforcing Steel	$0.57
2	ASTM A27 (AASHTO M103) Steel Castings, H-Pile Points & Pipe Pile Shoes (See Note below.)	$0.80
3	ASTM A668 / A668M (AASHTO M102) Steel Forgings	$0.80
4	ASTM A108 (AASHTO M169) Steel Forgings for Shear Studs	$0.82
5	ASTM A709/A709M Grade 36 / AASHTO M270M/M270 Grade 36 or 250 Structural Steel Plate	$0.86
6	ASTM A709/A709M Grade 36 / AASHTO M270M/M270 Grade 36 or 250 Structural Steel Shapes	$0.81
7	ASTM A709/A709M Grade 50 / AASHTO M270M/M270 Grade 50 or 345 Structural Steel Plate	$0.86
8	ASTM A709/A709M Grade 50 / AASHTO M270M/M270 Grade 50 or 345 Structural Steel Shapes	$0.81
9	ASTM A709/A709M Grade 50WT / AASHTO M270M/M270 Grade 50WT or 345WT Structural Steel Plate	$0.89
10	ASTM A709/A709M Grade 50WT / AASHTO M270M/M270 Grade 50WT or 345WT Structural Steel Shapes	$0.82
11	ASTM A709/A709M Grade 50W / AASHTO M270M/M270 Grade 50W 345W Structural Steel Plate	$0.89
12	ASTM A709/A709M Grade 50W / AASHTO M270M/M270 Grade 50W or 345W Structural Steel Shapes	$0.82
13	ASTM A709/A709M Grade HPS 50W / AASHTO M270M/M270 Grade HPS 50W or 345W Structural Steel Plate	$0.93
14	ASTM A709/A709M Grade HPS 70W / AASHTO M270M/M270 Grade HPS 70W or 485W Structural Steel Plate	$1.00
15	ASTM A514/A514M-05 Grade HPS 100W / AASHTO M270M/M270 Grade HPS 100W or 690W Structural Steel Plate	$1.53
16	ASTM A992/A992M Grade 50S / AASHTO M270M/M270 Grade 50S or 345S Structural Steel Plate	$0.89
17	ASTM A992/A992M Grade 50S / AASHTO M270M/M270 Grade 50S or 345S Structural Steel Shapes	$0.82
18	ASTM A276 Type 316 Stainless Steel	$4.61
19	ASTM A240 Type 316 Stainless Steel	$4.61
20	ASTM A148 Grade 80/50 Steel Castings (See Note below.)	$1.58
21	ASTM A53 Grade B Structural Steel Pipe	$1.00
22	ASTM A500 Grades A, B, 36 & 50 Structural Steel Pipe	$1.00
23	ASTM A252, Grades 240 (36 KSI) & 414 (60 KSI) Pipe Pile	$0.80
24	ASTM 252, Grade 2 Permanent Steel Casing	$0.80
25	ASTM A36 (AASHTO M183) for H-piles, steel supports and sign supports	$0.84
26	ASTM A328 / A328M, Grade 50 (AASHTO M202) Steel Sheetpiling	$1.51
27	ASTM A572 / A572M, Grade 50 Sheetpiling	$1.51
28	ASTM A36/36M, Grade 50	$0.86
29	ASTM A570, Grade 50	$0.84
30	ASTM A572 (AASHTO M223), Grade 50 H-Piles	$0.86
31	ASTM A1085 Grade A (50 KSI) Steel Hollow Structural Sections (HSS), heat-treated per ASTM A1085 Supplement S1	$1.00
32	AREA 140 LB Rail and Track Accessories	$0.52

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 l51 B).

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

III. Minority and Women Workforce Participation

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

IV. Liaison Committee

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

V. Reports and Records

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

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

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

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

VI. Access to Work Site

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

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

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

VIII. Sanctions

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

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

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

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

IX. Severability

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

X. Contractor's Certification

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

XI. Subcontractor Requirements

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

Rev'd 03/07/14

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DOCUMENT 00821

ELECTRONIC REPORTING REQUIREMENTS
CIVIL RIGHTS PROGRAMS AND CERTIFIED PAYROLL

Implemented on March 2, 2009 Revised June 04, 2019

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

Contractor and Sub-Contractor EBO User Certification

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

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

Vetting of Firms and Designated Firm Individuals

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

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

Interim Reporting Requirements

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

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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 Subcontractor

Contract No: 135582 **Project No.** 616286 **Federal Aid No.:** NFA

Location: CHESTERFIELD-HINSDALE-MIDDLEFIELD-PITTSFIELD

Project Description: Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 2)

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

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

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

Document #

☐ 00718 –Participation By Minority Or Women's Business Enterprises and SDVOBE†
☐ 00761 –Certification Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion
☐ 00820 – MA Supplemental Equal Employment Opportunity, Non-Discrimination, and Affirmative Action Program
☐ 00821 – Electronic Reporting Requirements, Civil Rights Programs, and Certified Payroll
☐ 00859 – Contractor/Subcontractor Certification Form (this document)
☐ 00860 – MA Employment Laws
☐ 00861 – Applicable State Wage Rates in the Contract Proposal**
☐ B00842 – MA Schedule of Participation By Minority or Women Business Enterprises (M/WBEs)†
☐ B00843 – MA Letter of Intent – M/WBEs†

** Does not apply to Material Suppliers, unless performing work on-site
† Applies only if Subcontractor is a M/WBE; only include these forms for the particular M/WBE Entity

☐ B00844 - Schedule of Participation By SDVOBE
☐ B00845 - Letter of Intent – SDVOBE
☐ B00846 – M/WBE or SDVOBE Joint Check Arrangement Approval Form
☐ B00847 – Joint Venture Affidavit

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

Document #

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

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

*Applicable only to Contracts or Subcontracts in excess of $10,000
**Does not apply to Material Suppliers, unless performing work on-site
† Applies only if Subcontractor is a DBE; only include these forms for the particular DBE Entity

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

_____ _____
(Print Name and Title) (Authorized Signature)

PART 2

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

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

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

Firm: _____
Address: _____
_____
_____
Telephone Number:_____
Federal I.D. Number:_____
Estimated Start Date:_____
Estimated Completion Date:_____
Estimated Dollar Amount:_____

_____
(Print Name and Title)

_____
(Authorized Signature)

_____
(Date)

Rev'd 09/02/22

*** END OF DOCUMENT ***

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 that two week before the anniversary of the Notice to Proceed date of the contract to allow for adequate processing by the Department of Labor Standards (DLS). The effective date for the new rates will be the anniversary date of the contract (i.e. the notice to proceed date), regardless of the date of issuance on the schedule from DLS.

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

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DOCUMENT 00861

STATE PREVAILING WAGE RATES

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

MAURA HEALEY
Governor
KIM DRISCOLL
Lt. Governor

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

LAUREN JONES
Secretary
MICHAEL FLANAGAN
Director

Awarding Authority:	Massachusetts Highway	**City/Town:**	CHESTERFIELD
Contract Number:	135582		
Description of Work:	CHESTERFIELD-HINSDALE-MIDDLEFIELD-PITTSFIELD – Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 2)		
Job Location:	Municipal Bridges at Multiple locations		

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 form 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

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
(2 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$41.95	$16.17	$21.78	$0.00	$0.00	$79.90
	12/1/2026	$41.95	$16.17	$23.52	$0.00	$0.00	$81.64
	1/1/2027	$41.95	$16.77	$23.52	$0.00	$0.00	$82.24
(3 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$42.02	$16.17	$21.78	$0.00	$0.00	$79.97
	12/1/2026	$42.02	$16.17	$23.52	$0.00	$0.00	$81.71
	1/1/2027	$42.02	$16.77	$23.52	$0.00	$0.00	$82.31
(4 & 5 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$42.14	$16.17	$21.78	$0.00	$0.00	$80.09
	12/1/2026	$42.14	$16.17	$23.52	$0.00	$0.00	$81.83
	1/1/2027	$42.14	$16.77	$23.52	$0.00	$0.00	$82.43
ADS/SUBMERSIBLE PILOT PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3) For apprentice rates see "Apprentice- PILE DRIVER"	8/1/2024	$117.16	$10.08	$11.62	$12.67	$0.00	$151.53
AIR TRACK OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	6/1/2026	$36.97	$10.90	$9.75	$6.60	$0.00	$64.22
	12/1/2026	$39.39	$10.90	$9.75	$6.60	$0.00	$66.64
	6/1/2027	$40.79	$10.90	$9.75	$6.60	$0.00	$68.04
	12/1/2027	$42.19	$10.90	$9.75	$6.60	$0.00	$69.44
	6/1/2028	$43.69	$10.90	$9.75	$6.60	$0.00	$70.94
	12/1/2028	$45.19	$10.90	$9.75	$6.60	$0.00	$72.44
AIR TRACK OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY) For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"	6/1/2026	$37.75	$10.90	$9.75	$6.60	$0.00	$65.00
	12/1/2026	$39.04	$10.90	$9.75	$6.60	$0.00	$66.29
ASBESTOS WORKER (PIPES & TANKS) HEAT & FROST INSULATORS LOCAL 6 HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)	12/1/2025	$40.32	$14.50	$4.30	$6.25	$0.00	$65.37
ASPHALT RAKER LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
ASPHALT RAKER (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY) For apprentice rates see "Apprentice- LABORER (Heavy and Highway)	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
AUTOMATIC GRADER-EXCAVATOR (RECLAIMER) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
BACKHOE/FRONT-END LOADER OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
BARCO-TYPE JUMPING TAMPER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
BATCH/CEMENT PLANT - ON SITE OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
BLOCK PAVER, RAMMER / CURB SETTER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.97	$10.90	$9.75	$6.60	$0.00	$64.22
	12/1/2026	$39.39	$10.90	$9.75	$6.60	$0.00	$66.64
	6/1/2027	$40.79	$10.90	$9.75	$6.60	$0.00	$68.04
	12/1/2027	$42.19	$10.90	$9.75	$6.60	$0.00	$69.44
	6/1/2028	$43.69	$10.90	$9.75	$6.60	$0.00	$70.94
	12/1/2028	$45.19	$10.90	$9.75	$6.60	$0.00	$72.44
For apprentice rates see "Apprentice- LABORER"							
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY) For apprentice rates see "Apprentice- LABORER (Heavy and Highway)	6/1/2026	$37.75	$10.90	$9.75	$6.60	$0.00	$65.00
	12/1/2026	$39.04	$10.90	$9.75	$6.60	$0.00	$66.29
BOILER MAKER BOILERMAKERS LOCAL 29 BOILERMAKERS LOCAL 29	1/1/2024	$48.12	$7.07	$14.60	$6.00	$0.00	$75.79

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING) BRICKLAYERS LOCAL 3 BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)	2/1/2026	$56.36	$12.84	$15.57	$5.89	$0.00	$90.66
	8/1/2026	$58.56	$12.84	$15.57	$5.89	$0.00	$92.86
	2/1/2027	$59.96	$12.84	$15.57	$5.89	$0.00	$94.26

Apprentice: BOILER MAKER

Effective Date: 1/1/2024

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

Apprentice to Journeyworker Ratio: 1:4

Apprentice: BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)

Effective Date: 2/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$28.18	$12.84	$15.57	$5.89	$0.00	$62.48
2	60.00	$33.82	$12.84	$15.57	$5.89	$0.00	$68.12
3	70.00	$39.45	$12.84	$15.57	$5.89	$0.00	$73.75
4	80.00	$45.09	$12.84	$15.57	$5.89	$0.00	$79.39
5	90.00	$50.72	$12.84	$15.57	$5.89	$0.00	$85.02

Apprentice: BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)

Effective Date: 8/1/2026

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

Apprentice to Journeyworker Ratio: 1:5

BULLDOZER/POWER SHOVEL/TREE SHREDDER /CLAM SHELL OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
CAISSON & UNDERPINNING BOTTOM MAN LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2026	$50.40	$10.90	$9.75	$9.80	$0.00	$80.85
	12/1/2026	$51.90	$10.90	$9.75	$9.80	$0.00	$82.35
For apprentice rates see "Apprentice- LABORER"							
CAISSON & UNDERPINNING LABORER LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2026	$49.25	$10.90	$9.75	$9.80	$0.00	$79.70
	12/1/2026	$50.75	$10.90	$9.75	$9.80	$0.00	$81.20
For apprentice rates see "Apprentice- LABORER"							
CAISSON & UNDERPINNING TOP MAN LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2026	$49.58	$10.90	$9.75	$9.80	$0.00	$80.03
	12/1/2026	$51.08	$10.90	$9.75	$9.80	$0.00	$81.53
For apprentice rates see "Apprentice- LABORER"							
CARBIDE CORE DRILL OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
CARPENTER CARPENTERS CARPENTERS LOCAL 336 - HAMPDEN HAMPSHIRE FRANKLIN	3/1/2026	$43.81	$9.19	$11.25	$6.90	$0.00	$71.15
	9/1/2026	$44.76	$9.19	$11.25	$6.90	$0.00	$72.10
	3/1/2027	$45.66	$9.19	$11.25	$6.90	$0.00	$73.00

Apprentice: CARPENTER

Effective Date: 3/1/2026

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

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: CARPENTER							
Effective Date: 9/1/2026							
Step / Percent		**Apprentice Base Wage**					
1 / 45.00		$20.14	$9.19	$0.00	$1.38	$0.00	$30.71
2 / 45.00		$20.14	$9.19	$0.00	$1.38	$0.00	$30.71
3 / 55.00		$24.62	$9.19	$0.00	$2.76	$0.00	$36.57
4 / 55.00		$24.62	$9.19	$0.00	$2.76	$0.00	$36.57
5 / 70.00		$31.33	$9.19	$11.25	$4.14	$0.00	$55.91
6 / 70.00		$31.33	$9.19	$11.25	$4.14	$0.00	$55.91
7 / 80.00		$35.81	$9.19	$11.25	$5.52	$0.00	$61.77
8 / 80.00		$35.81	$9.19	$11.25	$5.52	$0.00	$61.77
Apprentice to Journeyworker Ratio: 1:5							
CARPENTER WOOD FRAME	10/1/2025	$27.37	$7.38	$4.47	$1.00	$0.00	$40.22
CARPENTERS	10/1/2026	$28.47	$7.38	$4.47	$1.00	$0.00	$41.32
CARPENTERS-ZONE 3 (Wood Frame)							
All Aspects of New Wood Frame Work							
Apprentice: CARPENTER WOOD FRAME							
Effective Date: 10/1/2025							
Step / Percent		**Apprentice Base Wage**					
1 / 60.00		$16.42	$7.38	$0.00	$0.00	$0.00	$23.80
2 / 60.00		$16.42	$7.38	$0.00	$0.00	$0.00	$23.80
3 / 65.00		$17.79	$7.38	$0.00	$1.00	$0.00	$26.17
4 / 70.00		$19.16	$7.38	$0.00	$1.00	$0.00	$27.54
5 / 75.00		$20.53	$7.38	$3.80	$1.00	$0.00	$32.71
6 / 80.00		$21.90	$7.38	$3.80	$1.00	$0.00	$34.08
7 / 85.00		$23.26	$7.38	$3.80	$1.00	$0.00	$35.44
8 / 90.00		$24.63	$7.38	$3.80	$1.00	$0.00	$36.81
Apprentice: CARPENTER WOOD FRAME							
Effective Date: 10/1/2026							
Step / Percent		**Apprentice Base Wage**					
1 / 60.00		$17.08	$7.38	$0.00	$0.00	$0.00	$24.46
2 / 60.00		$17.08	$7.38	$0.00	$0.00	$0.00	$24.46
3 / 65.00		$18.51	$7.38	$0.00	$1.00	$0.00	$26.89
4 / 70.00		$19.93	$7.38	$0.00	$1.00	$0.00	$28.31
5 / 75.00		$21.35	$7.38	$3.80	$1.00	$0.00	$33.53
6 / 80.00		$22.78	$7.38	$3.80	$1.00	$0.00	$34.96
7 / 85.00		$24.20	$7.38	$3.80	$1.00	$0.00	$36.38
8 / 90.00		$25.62	$7.38	$3.80	$1.00	$0.00	$37.80
Apprentice to Journeyworker Ratio: 1:5							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
CEMENT MASONRY/PLASTERING	7/1/2026	$49.32	$13.20	$16.30	$2.93	$1.69	$83.44
PLASTERERS AND CEMENT MASONS LOCAL 534	1/1/2027	$50.51	$13.20	$16.30	$2.93	$1.69	$84.63
Plasterers and Cement Masons - Zone 2	7/1/2027	$51.70	$13.20	$16.30	$2.93	$1.69	$85.82
	1/1/2028	$52.89	$13.20	$16.30	$2.93	$1.69	$87.01

Apprentice: CEMENT MASONRY/PLASTERING

Effective Date: 7/1/2026

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

Apprentice: CEMENT MASONRY/PLASTERING

Effective Date: 1/1/2027

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

Apprentice to Journeyworker Ratio: 1:5

CHAIN SAW OPERATOR	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
LABORERS	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19

For apprentice rates see "Apprentice- LABORER"

COMPRESSOR OPERATOR	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
CRANE OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$43.06	$13.78	$12.15	$3.00	$0.00	$71.99
DELEADER (BRIDGE) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$59.56	$10.35	$12.00	$12.60	$0.00	$94.51

Apprentice: DELEADER (BRIDGE)

Effective Date: 1/1/2026

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

Apprentice to Journeyworker Ratio: 1:1

DEMO: ADZEMAN LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	6/1/2026	$49.30	$10.90	$9.75	$9.65	$0.00	$79.60
	12/7/2026	$50.80	$10.90	$9.75	$9.65	$0.00	$81.10
	6/7/2027	$52.40	$10.90	$9.75	$9.65	$0.00	$82.70
	12/6/2027	$54.00	$10.90	$9.75	$9.65	$0.00	$84.30
	6/5/2028	$55.68	$10.90	$9.75	$9.65	$0.00	$85.98
	12/4/2028	$57.35	$10.90	$9.75	$9.65	$0.00	$87.65
DEMO: BACKHOE/LOADER/HAMMER OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	6/1/2026	$50.30	$10.90	$9.75	$9.65	$0.00	$80.60
	12/7/2026	$51.80	$10.90	$9.75	$9.65	$0.00	$82.10
	6/7/2027	$53.40	$10.90	$9.75	$9.65	$0.00	$83.70
	12/6/2027	$55.00	$10.90	$9.75	$9.65	$0.00	$85.30
	6/5/2028	$56.68	$10.90	$9.75	$9.65	$0.00	$86.98
	12/4/2028	$58.35	$10.90	$9.75	$9.65	$0.00	$88.65
DEMO: BURNERS LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$50.05	$10.90	$9.75	$9.65	$0.00	$80.35
	12/7/2026	$51.55	$10.90	$9.75	$9.65	$0.00	$81.85
	6/7/2027	$53.15	$10.90	$9.75	$9.65	$0.00	$83.45
	12/6/2027	$54.75	$10.90	$9.75	$9.65	$0.00	$85.05
	6/5/2028	$56.43	$10.90	$9.75	$9.65	$0.00	$86.73
	12/4/2028	$58.10	$10.90	$9.75	$9.65	$0.00	$88.40

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- LABORER"							
DEMO: CONCRETE CUTTER/SAWYER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$50.30	$10.90	$9.75	$9.65	$0.00	$80.60
	12/7/2026	$51.80	$10.90	$9.75	$9.65	$0.00	$82.10
	6/7/2027	$53.40	$10.90	$9.75	$9.65	$0.00	$83.70
	12/6/2027	$55.00	$10.90	$9.75	$9.65	$0.00	$85.30
	6/5/2028	$56.68	$10.90	$9.75	$9.65	$0.00	$86.98
	12/4/2028	$58.35	$10.90	$9.75	$9.65	$0.00	$88.65
For apprentice rates see "Apprentice- LABORER"							
DEMO: JACKHAMMER OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$50.05	$10.90	$9.75	$9.65	$0.00	$80.35
	12/7/2026	$51.55	$10.90	$9.75	$9.65	$0.00	$81.85
	6/7/2027	$53.15	$10.90	$9.75	$9.65	$0.00	$83.45
	12/6/2027	$54.75	$10.90	$9.75	$9.65	$0.00	$85.05
	6/5/2028	$56.43	$10.90	$9.75	$9.65	$0.00	$86.73
	12/4/2028	$58.10	$10.90	$9.75	$9.65	$0.00	$88.40
For apprentice rates see "Apprentice- LABORER"							
DEMO: WRECKING LABORER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$49.30	$10.90	$9.75	$9.65	$0.00	$79.60
	12/7/2026	$50.80	$10.90	$9.75	$9.65	$0.00	$81.10
	6/7/2027	$52.40	$10.90	$9.75	$9.65	$0.00	$82.70
	12/6/2027	$54.00	$10.90	$9.75	$9.65	$0.00	$84.30
	6/5/2028	$55.68	$10.90	$9.75	$9.65	$0.00	$85.98
	12/4/2028	$57.35	$10.90	$9.75	$9.65	$0.00	$87.65
For apprentice rates see "Apprentice- LABORER"							
DIVER PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$78.11	$10.08	$11.62	$12.67	$0.00	$112.48
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 3)	8/1/2024	$49.19	$10.08	$11.62	$12.67	$0.00	$83.56
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 3)	8/1/2024	$83.69	$10.08	$11.62	$12.67	$0.00	$118.06
For apprentice rates see "Apprentice- PILE DRIVER"							
DIVER/SLURRY (EFFLUENT) PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$117.16	$10.08	$11.62	$12.67	$0.00	$151.53
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
ELECTRICIAN (Including Core Drilling) ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: ELECTRICIAN (Including Core Drilling)

Effective Date: 6/28/2026

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

Apprentice: ELECTRICIAN (Including Core Drilling)

Effective Date: 1/3/2027

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

Apprentice to Journeyworker Ratio: 2:3

ELEVATOR CONSTRUCTOR	1/1/2026	$69.23	$16.38	$11.06	$10.70	$0.00	$107.37
ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2027	$72.23	$16.48	$11.16	$11.00	$0.00	$110.87
ELEVATOR CONSTRUCTORS LOCAL 41							

Apprentice: ELEVATOR CONSTRUCTOR

Effective Date: 1/1/2026

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

Apprentice: ELEVATOR CONSTRUCTOR

Effective Date: 1/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$36.12	$16.48	$0.00	$0.00	$0.00	$52.60
2	55.00	$39.73	$16.48	$11.16	$11.00	$0.00	$78.37
3	65.00	$46.95	$16.48	$11.16	$11.00	$0.00	$85.59

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: ELEVATOR CONSTRUCTOR							
Effective Date: 1/1/2027							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
4 / 70.00		$50.56	$16.48	$11.16	$11.00	$0.00	$89.20
5 / 80.00		$57.78	$16.48	$11.16	$11.00	$0.00	$96.42
Apprentice to Journeyworker Ratio: 1:1							
ELEVATOR CONSTRUCTOR HELPER ELEVATOR CONSTRUCTORS LOCAL 41 ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2026	$48.46	$16.38	$11.06	$10.70	$0.00	$86.60
	1/1/2027	$50.56	$16.48	$11.16	$11.00	$0.00	$89.20
For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"							
FENCE & BEAM RAIL ERECTOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$44.69	$10.90	$9.75	$6.60	$0.00	$71.94
For apprentice rates see "Apprentice- LABORER"							
FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
FIELD ENG.INST/ROD-BLDG,SITE,HVY/HWY OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	6/1/1999	$18.84	$4.80	$4.10	$0.00	$0.00	$27.74
FIELD ENG.PARTY CHIEF:BLDG,SITE,HVY/HWY OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	6/1/1999	$21.33	$4.80	$4.10	$0.00	$0.00	$30.23
FIELD ENG.SURVEY CHIEF-BLDG,SITE,HVY/HWY OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	6/1/1999	$22.33	$4.80	$4.10	$0.00	$0.00	$31.23
FIRE ALARM INSTALLER ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
For apprentice rates see "Apprentice- ELECTRICIAN"							
FIRE ALARM REPAIR / MAINTENANCE / COMMISSIONING ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"							
FIREMAN OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: FIREMAN							
Effective Date: 12/1/2023							
Step / Percent		**Apprentice Base Wage**					
1 / 60.00		$23.42	$13.78	$12.15	$3.00	$0.00	$52.35
2 / 70.00		$27.32	$13.78	$12.15	$3.00	$0.00	$56.25
3 / 80.00		$31.22	$13.78	$12.15	$3.00	$0.00	$60.15
4 / 90.00		$35.13	$13.78	$12.15	$3.00	$0.00	$64.06
Apprentice to Journeyworker Ratio: 1:6							
FLAGGER & SIGNALER (HEAVY & HIGHWAY)	6/1/2026	$29.21	$10.90	$9.75	$6.60	$0.00	$56.46
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/1/2026	$29.21	$10.90	$9.75	$6.60	$0.00	$56.46
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
FLOORCOVERER	3/1/2026	$44.34	$8.56	$11.25	$6.90	$0.00	$71.05
FLOORCOVERERS LOCAL 2168 FLOORCOVERERS LOCAL 2168 ZONE III	9/1/2026	$45.29	$8.56	$11.25	$6.90	$0.00	$72.00
	3/1/2027	$46.19	$8.56	$11.25	$6.90	$0.00	$72.90
Apprentice: FLOORCOVERER							
Effective Date: 3/1/2026							
Step / Percent		**Apprentice Base Wage**					
1 / 45.00		$19.95	$8.56	$0.00	$1.38	$0.00	$29.89
2 / 45.00		$19.95	$8.56	$0.00	$1.38	$0.00	$29.89
3 / 55.00		$24.39	$8.56	$0.00	$2.76	$0.00	$35.71
4 / 55.00		$24.39	$8.56	$0.00	$2.76	$0.00	$35.71
5 / 70.00		$31.04	$8.56	$11.25	$4.14	$0.00	$54.99
6 / 70.00		$31.04	$8.56	$11.25	$4.14	$0.00	$54.99
7 / 80.00		$35.47	$8.56	$11.25	$5.52	$0.00	$60.80
8 / 80.00		$35.47	$8.56	$11.25	$5.52	$0.00	$60.80
Apprentice: FLOORCOVERER							
Effective Date: 9/1/2026							
Step / Percent		**Apprentice Base Wage**					
1 / 45.00		$20.38	$8.56	$0.00	$1.38	$0.00	$30.32
2 / 45.00		$20.38	$8.56	$0.00	$1.38	$0.00	$30.32
3 / 55.00		$24.91	$8.56	$0.00	$2.76	$0.00	$36.23
4 / 55.00		$24.91	$8.56	$0.00	$2.76	$0.00	$36.23
5 / 70.00		$31.70	$8.56	$11.25	$4.14	$0.00	$55.65
6 / 70.00		$31.70	$8.56	$11.25	$4.14	$0.00	$55.65
7 / 80.00		$36.23	$8.56	$11.25	$5.52	$0.00	$61.56
8 / 80.00		$36.23	$8.56	$11.25	$5.52	$0.00	$61.56

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice Notes

Steps are 750 hrs.

Apprentice to Journeyworker Ratio: 1:1

FORK LIFT OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.25	$13.78	$12.15	$3.00	$0.00	$68.18
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
GENERATORS/LIGHTING PLANTS OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$35.80	$13.78	$12.15	$3.00	$0.00	$64.73
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS) GLAZIERS LOCAL 1333 GLAZIERS LOCAL 1333	6/1/2026	$44.73	$11.20	$8.40	$6.05	$0.00	$70.38
	6/1/2027	$46.73	$11.60	$8.55	$6.60	$0.00	$73.48
	6/1/2028	$48.73	$12.00	$8.70	$7.20	$0.00	$76.63

Apprentice: GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)

Effective Date: 6/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$22.37	$11.20	$8.40	$6.05	$0.00	$48.02
2	56.25	$25.16	$11.20	$8.40	$6.05	$0.00	$50.81
3	62.50	$27.96	$11.20	$8.40	$6.05	$0.00	$53.61
4	68.75	$30.75	$11.20	$8.40	$6.05	$0.00	$56.40
5	75.00	$33.55	$11.20	$8.40	$6.05	$0.00	$59.20
6	81.25	$36.34	$11.20	$8.40	$6.05	$0.00	$61.99
7	87.50	$39.14	$11.20	$8.40	$6.05	$0.00	$64.79
8	93.75	$41.93	$11.20	$8.40	$6.05	$0.00	$67.58

Apprentice: GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)

Effective Date: 6/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$23.37	$11.60	$8.55	$6.60	$0.00	$50.12
2	56.25	$26.29	$11.60	$8.55	$6.60	$0.00	$53.04
3	62.50	$29.21	$11.60	$8.55	$6.60	$0.00	$55.96
4	68.75	$32.13	$11.60	$8.55	$6.60	$0.00	$58.88
5	75.00	$35.05	$11.60	$8.55	$6.60	$0.00	$61.80
6	81.25	$37.97	$11.60	$8.55	$6.60	$0.00	$64.72
7	87.50	$40.89	$11.60	$8.55	$6.60	$0.00	$67.64
8	93.75	$43.81	$11.60	$8.55	$6.60	$0.00	$70.56

Apprentice to Journeyworker Ratio: 3:1

GRADER/TRENCHING MACHINE/DERRICK	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
HVAC (DUCTWORK) SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63	7/1/2026	$43.48	$13.24	$11.01	$9.92	$2.13	$79.78
	1/1/2027	$43.48	$13.54	$11.01	$11.12	$2.13	$81.28
	7/1/2027	$44.98	$13.54	$11.01	$11.12	$2.13	$82.78
	1/1/2028	$46.48	$13.54	$11.01	$11.12	$2.13	$84.28
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (ELECTRICAL CONTROLS) ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
For apprentice rates see "Apprentice- ELECTRICIAN"							
HVAC (TESTING AND BALANCING - AIR) SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63	7/1/2026	$43.48	$13.24	$11.01	$9.92	$2.13	$79.78
	1/1/2027	$43.48	$13.54	$11.01	$11.12	$2.13	$81.28
	7/1/2027	$44.98	$13.54	$11.01	$11.12	$2.13	$82.78
	1/1/2028	$46.48	$13.54	$11.01	$11.12	$2.13	$84.28
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (TESTING AND BALANCING -WATER) PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
HVAC MECHANIC PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
HYDRAULIC DRILLS (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.75	$10.90	$9.75	$6.60	$0.00	$65.00
	12/1/2026	$39.04	$10.90	$9.75	$6.60	$0.00	$66.29
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
INSULATOR (PIPES & TANKS) HEAT & FROST INSULATORS LOCAL 6 HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)	9/1/2025	$48.27	$14.75	$9.52	$10.09	$0.00	$82.63
	9/1/2026	$51.01	$14.75	$9.52	$10.09	$0.00	$85.37

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: INSULATOR (PIPES & TANKS)

Effective Date: 9/1/2025

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

Apprentice: INSULATOR (PIPES & TANKS)

Effective Date: 9/1/2026

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

Apprentice to Journeyworker Ratio: 1:4

IRONWORKER/WELDER IRONWORKERS LOCAL 7 IRONWORKERS LOCAL 7 (SPRINGFIELD AREA)	3/16/2026	$42.46	$9.25	$12.75	$11.25	$0.00	$75.71

Apprentice: IRONWORKER/WELDER

Effective Date: 3/16/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	70.00	$29.72	$9.25	$12.75	$1.25	$0.00	$52.97
2	80.00	$33.97	$9.25	$12.75	$1.25	$0.00	$57.22
3	90.00	$38.21	$9.25	$12.75	$1.25	$0.00	$61.46
4	0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
5	0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
6	0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

Apprentice to Journeyworker Ratio: 1:4

JACKHAMMER & PAVING BREAKER OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19

For apprentice rates see "Apprentice- LABORER"

LABORER	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69

Apprentice: LABORER

Effective Date: 6/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$21.73	$10.90	$9.75	$6.60	$0.00	$48.98
2	70.00	$25.35	$10.90	$9.75	$6.60	$0.00	$52.60
3	80.00	$28.98	$10.90	$9.75	$6.60	$0.00	$56.23
4	90.00	$32.60	$10.90	$9.75	$6.60	$0.00	$59.85

Apprentice: LABORER

Effective Date: 12/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$23.18	$10.90	$9.75	$6.60	$0.00	$50.43
2	70.00	$27.05	$10.90	$9.75	$6.60	$0.00	$54.30
3	80.00	$30.91	$10.90	$9.75	$6.60	$0.00	$58.16
4	90.00	$34.78	$10.90	$9.75	$6.60	$0.00	$62.03

Apprentice to Journeyworker Ratio: 1:5

LABORER (HEAVY & HIGHWAY)	6/1/2026	$37.00	$10.90	$9.75	$6.60	$0.00	$64.25
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/1/2026	$38.29	$10.90	$9.75	$6.60	$0.00	$65.54

Apprentice: LABORER (HEAVY & HIGHWAY)

Effective Date: 6/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$22.20	$10.90	$9.75	$6.60	$0.00	$49.45
2	70.00	$25.90	$10.90	$9.75	$6.60	$0.00	$53.15
3	80.00	$29.60	$10.90	$9.75	$6.60	$0.00	$56.85
4	90.00	$33.30	$10.90	$9.75	$6.60	$0.00	$60.55

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: LABORER (HEAVY & HIGHWAY)							
Effective Date: 12/1/2026							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
1 / 60.00		$22.97	$10.90	$9.75	$6.60	$0.00	$50.22
2 / 70.00		$26.80	$10.90	$9.75	$6.60	$0.00	$54.05
3 / 80.00		$30.63	$10.90	$9.75	$6.60	$0.00	$57.88
4 / 90.00		$34.46	$10.90	$9.75	$6.60	$0.00	$61.71
Apprentice to Journeyworker Ratio: 1:5							
LABORER: CARPENTER TENDER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: CEMENT FINISHER TENDER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$35.67	$10.90	$9.75	$5.41	$0.00	$61.73
	12/1/2026	$36.96	$10.90	$9.75	$5.41	$0.00	$63.02
	6/1/2027	$38.26	$10.90	$9.75	$5.41	$0.00	$64.32
	12/1/2027	$39.56	$10.90	$9.75	$5.41	$0.00	$65.62
	6/5/2028	$40.91	$10.90	$9.75	$5.41	$0.00	$66.97
	12/4/2028	$42.26	$10.90	$9.75	$5.41	$0.00	$68.32
For apprentice rates see "Apprentice- LABORER"							
LABORER: MASON TENDER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$38.22	$10.90	$9.75	$6.60	$0.00	$65.47
	12/1/2026	$40.64	$10.90	$9.75	$6.60	$0.00	$67.89
	6/1/2027	$42.04	$10.90	$9.75	$6.60	$0.00	$69.29
	12/1/2027	$43.44	$10.90	$9.75	$6.60	$0.00	$70.69
	6/1/2028	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
	12/1/2028	$46.44	$10.90	$9.75	$6.60	$0.00	$73.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: MASON TENDER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
LABORER: MULTI-TRADE TENDER	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: TREE REMOVER	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
This classification applies to the removal of standing trees, and the trimming and removal of branches and limbs when related to public works construction or site clearance incidental to construction . For apprentice rates see "Apprentice- LABORER"							
LASER BEAM OPERATOR	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
LASER BEAM OPERATOR (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
MARBLE & TILE FINISHERS	2/1/2026	$45.56	$12.84	$15.10	$5.41	$0.00	$78.91
BRICKLAYERS LOCAL 3 BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	8/1/2026	$47.32	$12.84	$15.10	$5.41	$0.00	$80.67
	2/1/2027	$48.44	$12.84	$15.10	$5.41	$0.00	$81.79

Apprentice: MARBLE & TILE FINISHERS

Effective Date: 2/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$22.78	$12.84	$15.10	$5.41	$0.00	$56.13
2	60.00	$27.34	$12.84	$15.10	$5.41	$0.00	$60.69
3	70.00	$31.89	$12.84	$15.10	$5.41	$0.00	$65.24
4	80.00	$36.45	$12.84	$15.10	$5.41	$0.00	$69.80
5	90.00	$41.00	$12.84	$15.10	$5.41	$0.00	$74.35

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: MARBLE & TILE FINISHERS							
Effective Date: 8/1/2026							
Step / Percent		**Apprentice Base Wage**					
1 / 50.00		$23.66	$12.84	$15.10	$5.41	$0.00	$57.01
2 / 60.00		$28.39	$12.84	$15.10	$5.41	$0.00	$61.74
3 / 70.00		$33.12	$12.84	$15.10	$5.41	$0.00	$66.47
4 / 80.00		$37.86	$12.84	$15.10	$5.41	$0.00	$71.21
5 / 90.00		$42.59	$12.84	$15.10	$5.41	$0.00	$75.94
Apprentice to Journeyworker Ratio: 1:5							
MECH. SWEEPER OPERATOR (ON CONST. SITES) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
MECHANIC/WELDER/BOOM TRUCK OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
MILLWRIGHT (Zone 3) MILLWRIGHTS LOCAL 1121 MILLWRIGHTS LOCAL 1121 - Zone 3	1/5/2026	$45.20	$10.58	$11.47	$9.75	$0.00	$77.00
Apprentice: MILLWRIGHT (Zone 3)							
Effective Date: 1/5/2026							
Step / Percent		**Apprentice Base Wage**					
1 / 55.00		$24.86	$10.58	$0.00	$5.36	$0.00	$40.80
2 / 65.00		$29.38	$10.58	$0.00	$6.34	$0.00	$46.30
3 / 75.00		$33.90	$10.58	$11.47	$7.31	$0.00	$63.26
4 / 85.00		$38.42	$10.58	$11.47	$8.29	$0.00	$68.76
Apprentice Notes							
Step 1&2 Appr. indentured after 1/6/2020 receive no pension,							
Apprentice to Journeyworker Ratio: 1:4							
MORTAR MIXER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19

For apprentice rates see "Apprentice- LABORER"

OILER OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$35.02	$13.78	$12.15	$3.00	$0.00	$63.95

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

OTHER POWER DRIVEN EQUIPMENT - CLASS VI OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$32.74	$13.78	$12.15	$3.00	$0.00	$61.67

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

PAINTER (BRIDGES/TANKS) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$59.56	$10.35	$12.00	$12.60	$0.00	$94.51

Apprentice: PAINTER (BRIDGES/TANKS)

Effective Date: 1/1/2026

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

Apprentice to Journeyworker Ratio: 1:1

PAINTER (SPRAY OR SANDBLAST, NEW) * * If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$42.03	$10.35	$12.00	$8.35	$0.00	$72.73

Apprentice: PAINTER (SPRAY OR SANDBLAST, NEW) *

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$21.02	$10.35	$0.00	$0.00	$0.00	$31.37
2	55.00	$23.12	$10.35	$0.00	$4.59	$0.00	$38.06
3	60.00	$25.22	$10.35	$0.00	$5.01	$0.00	$40.58

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: PAINTER (SPRAY OR SANDBLAST, NEW) *

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
4	65.00	$27.32	$10.35	$0.00	$5.43	$0.00	$43.10
5	70.00	$29.42	$10.35	$12.00	$5.85	$0.00	$57.62
6	75.00	$31.52	$10.35	$12.00	$6.26	$0.00	$60.13
7	80.00	$33.62	$10.35	$12.00	$6.68	$0.00	$62.65
8	90.00	$37.83	$10.35	$12.00	$7.52	$0.00	$67.70

Apprentice to Journeyworker Ratio: 1:1

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

Apprentice: PAINTER (SPRAY OR SANDBLAST, REPAINT)

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$19.68	$10.35	$0.00	$0.00	$0.00	$30.03
2	55.00	$21.64	$10.35	$0.00	$4.59	$0.00	$36.58
3	60.00	$23.61	$10.35	$0.00	$5.01	$0.00	$38.97
4	65.00	$25.58	$10.35	$0.00	$5.43	$0.00	$41.36
5	70.00	$27.55	$10.35	$12.00	$5.85	$0.00	$55.75
6	75.00	$29.51	$10.35	$12.00	$6.26	$0.00	$58.12
7	80.00	$31.48	$10.35	$12.00	$6.68	$0.00	$60.51
8	90.00	$35.42	$10.35	$12.00	$7.52	$0.00	$65.29

Apprentice to Journeyworker Ratio: 1:1

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

Apprentice: PAINTER / TAPER (BRUSH, NEW) *

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$20.32	$10.35	$0.00	$0.00	$0.00	$30.67
2	55.00	$22.35	$10.35	$0.00	$4.59	$0.00	$37.29
3	60.00	$24.38	$10.35	$0.00	$5.01	$0.00	$39.74
4	65.00	$26.41	$10.35	$0.00	$5.43	$0.00	$42.19
5	70.00	$28.44	$10.35	$12.00	$5.85	$0.00	$56.64
6	75.00	$30.47	$10.35	$12.00	$6.26	$0.00	$59.08
7	80.00	$32.50	$10.35	$12.00	$6.68	$0.00	$61.53

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: PAINTER / TAPER (BRUSH, NEW) *							
Effective Date: 1/1/2026							
Step / Percent / Apprentice Base Wage							
8 / 90.00		$36.57	$10.35	$12.00	$7.52	$0.00	$66.44
Apprentice to Journeyworker Ratio: 1:1							
PAINTER / TAPER (BRUSH, REPAINT) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$37.95	$10.35	$12.00	$8.35	$0.00	$68.65
Apprentice: PAINTER / TAPER (BRUSH, REPAINT)							
Effective Date: 1/1/2026							
Step / Percent / Apprentice Base Wage							
1 / 50.00		$18.98	$10.35	$0.00	$0.00	$0.00	$29.33
2 / 55.00		$20.87	$10.35	$0.00	$4.59	$0.00	$35.81
3 / 60.00		$22.77	$10.35	$0.00	$5.01	$0.00	$38.13
4 / 65.00		$24.67	$10.35	$0.00	$5.43	$0.00	$40.45
5 / 70.00		$26.57	$10.35	$12.00	$5.85	$0.00	$54.77
6 / 75.00		$28.46	$10.35	$12.00	$6.26	$0.00	$57.07
7 / 80.00		$30.36	$10.35	$12.00	$6.68	$0.00	$59.39
8 / 90.00		$34.16	$10.35	$12.00	$7.52	$0.00	$64.03
Apprentice to Journeyworker Ratio: 1:1							
PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.00	$10.90	$9.75	$6.60	$0.00	$64.25
	12/1/2026	$38.29	$10.90	$9.75	$6.60	$0.00	$65.54
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
PANEL & PICKUP TRUCKS DRIVER TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$41.78	$16.17	$21.78	$0.00	$0.00	$79.73
	12/1/2026	$41.78	$16.17	$23.52	$0.00	$0.00	$81.47
	1/1/2027	$41.78	$16.77	$23.52	$0.00	$0.00	$82.07
PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK) PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$49.19	$10.08	$11.62	$12.67	$0.00	$83.56
For apprentice rates see "Apprentice- PILE DRIVER"							
PILE DRIVER PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$49.19	$10.08	$11.62	$12.67	$0.00	$83.56
Apprentice: PILE DRIVER							
Effective Date: 8/1/2024							
Step / Percent / Apprentice Base Wage							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: PILE DRIVER							
Effective Date: 8/1/2024							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
1 / 45.00		$22.14	$10.08	$0.00	$2.53	$0.00	$34.75
2 / 55.00		$27.05	$10.08	$0.00	$5.07	$0.00	$42.20
3 / 70.00		$34.43	$10.08	$11.62	$7.60	$0.00	$63.73
4 / 80.00		$39.35	$10.08	$11.62	$10.14	$0.00	$71.19
Apprentice to Journeyworker Ratio: 1:5							
PIPELAYER	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
PIPELAYER (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
PLUMBER & PIPEFITTER	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
Apprentice: PLUMBER & PIPEFITTER							
Effective Date: 3/17/2026							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
1 / 45.00		$23.74	$13.50	$10.85	$0.00	$0.00	$48.09
2 / 50.00		$26.38	$13.50	$10.85	$0.00	$0.00	$50.73
3 / 55.00		$29.02	$13.50	$10.85	$0.00	$0.00	$53.37
4 / 60.00		$31.66	$13.50	$10.85	$0.00	$0.00	$56.01

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: PLUMBER & PIPEFITTER

Effective Date: 3/17/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
5	65.00	$34.29	$13.50	$10.85	$0.00	$0.00	$58.64
6	70.00	$36.93	$13.50	$10.85	$0.00	$0.00	$61.28
7	75.00	$39.57	$13.50	$10.85	$0.00	$0.00	$63.92
8	80.00	$42.21	$13.50	$10.85	$0.00	$0.00	$66.56
9	85.00	$44.85	$13.50	$10.85	$7.10	$0.00	$76.30
10	85.00	$44.85	$13.50	$10.85	$7.10	$0.00	$76.30

Apprentice: PLUMBER & PIPEFITTER

Effective Date: 9/17/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$24.64	$13.50	$0.00	$0.00	$0.00	$38.14
2	50.00	$27.38	$13.50	$0.00	$0.00	$0.00	$40.88
3	55.00	$30.12	$13.50	$0.00	$0.00	$0.00	$43.62
4	60.00	$32.86	$13.50	$0.00	$0.00	$0.00	$46.36
5	65.00	$35.59	$13.50	$0.00	$0.00	$0.00	$49.09
6	70.00	$38.33	$13.50	$0.00	$0.00	$0.00	$51.83
7	75.00	$41.07	$13.50	$0.00	$0.00	$0.00	$54.57
8	80.00	$43.81	$13.50	$0.00	$0.00	$0.00	$57.31
9	85.00	$46.55	$13.50	$0.00	$7.10	$0.00	$67.15
10	85.00	$46.55	$13.50	$0.00	$7.10	$0.00	$67.15

Apprentice Notes

**1:1,2:5,3:9,4:12

Apprentice to Journeyworker Ratio: 1:1

PNEUMATIC CONTROLS (TEMP.) PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
POWDERMAN & BLASTER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$37.22	$10.90	$9.75	$6.60	$0.00	$64.47
	12/1/2026	$39.64	$10.90	$9.75	$6.60	$0.00	$66.89
	6/1/2027	$41.04	$10.90	$9.75	$6.60	$0.00	$68.29

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	12/1/2027	$42.44	$10.90	$9.75	$6.60	$0.00	$69.69
	6/1/2028	$43.94	$10.90	$9.75	$6.60	$0.00	$71.19
	12/1/2028	$45.44	$10.90	$9.75	$6.60	$0.00	$72.69
For apprentice rates see "Apprentice- LABORER"							
POWDERMAN & BLASTER (HEAVY & HIGHWAY)	6/1/2026	$38.00	$10.90	$9.75	$6.60	$0.00	$65.25
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/1/2026	$39.29	$10.90	$9.75	$6.60	$0.00	$66.54
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
PUMP OPERATOR (CONCRETE) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
PUMP OPERATOR (DEWATERING, OTHER) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
READY-MIX CONCRETE DRIVER TEAMSTERS 404 - Construction Service (Northampton) TEAMSTERS 404 - Construction Service (Northampton)	5/1/2024	$26.14	$11.82	$7.25	$0.00	$0.00	$45.21
RIDE-ON MOTORIZED BUGGY OPERATOR	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
ROLLER OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$38.42	$13.78	$12.15	$3.00	$0.00	$67.35
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
ROOFER (Coal tar pitch) ROOFERS LOCAL 248 ROOFERS LOCAL 248	7/16/2026	$46.73	$10.60	$8.70	$10.00	$0.00	$76.03
For apprentice rates see "Apprentice- ROOFER"							
ROOFER (Inc.Roofer Waterproofng &Roofer Damproofg) ROOFERS LOCAL 248 ROOFERS LOCAL 248	7/16/2026	$46.23	$10.60	$8.70	$10.00	$0.00	$75.53

Construction

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

Apprentice: SHEETMETAL WORKER

Effective Date: 7/1/2026

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

Apprentice: SHEETMETAL WORKER

Effective Date: 1/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$19.57	$6.09	$4.95	$0.00	$0.85	$31.46
2	50.00	$21.74	$6.77	$5.51	$0.00	$0.94	$34.96
3	55.00	$23.91	$7.45	$9.91	$0.00	$1.15	$42.42
4	60.00	$26.09	$8.36	$9.91	$0.00	$1.23	$45.59
5	65.00	$28.26	$8.86	$9.91	$0.00	$1.31	$48.34

Construction

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

Apprentice: SHEETMETAL WORKER

Effective Date: 1/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
6	70.00	$30.44	$9.48	$9.91	$0.00	$1.39	$51.22
7	75.00	$32.61	$10.15	$9.91	$0.00	$1.47	$54.14
8	80.00	$34.78	$10.83	$9.91	$11.12	$1.78	$68.42
9	85.00	$36.96	$11.51	$9.91	$11.12	$1.86	$71.36
10	90.00	$39.13	$12.18	$9.91	$11.12	$1.94	$74.28

Apprentice to Journeyworker Ratio: 1:3

Apprentice: SPRINKLER FITTER

Effective Date: 7/1/2026

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

Apprentice: SPRINKLER FITTER

Effective Date: 10/1/2026

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

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: SPRINKLER FITTER

Effective Date: 10/1/2026

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

Apprentice to Journeyworker Ratio: 1:1

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

For apprentice rates and ratios see "Apprentice- ELECTRICIAN"

Apprentice: TELECOMMUNICATION TECHNICIAN

Effective Date: 6/28/2026

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

Apprentice: TELECOMMUNICATION TECHNICIAN

Effective Date: 1/3/2027

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

Apprentice to Journeyworker Ratio: 1:1

TERRAZZO FINISHERS	2/10/2026	$66.89	$12.84	$15.57	$8.02	$0.00	$103.32

Construction

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

Apprentice: TERRAZZO FINISHERS

Effective Date: 2/10/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$33.45	$12.84	$15.57	$8.02	$0.00	$69.88
2	60.00	$40.13	$12.84	$15.57	$8.02	$0.00	$76.56
3	70.00	$46.82	$12.84	$15.57	$8.02	$0.00	$83.25
4	80.00	$53.51	$12.84	$15.57	$8.02	$0.00	$89.94
5	90.00	$60.20	$12.84	$15.57	$8.02	$0.00	$96.63

Apprentice: TERRAZZO FINISHERS

Effective Date: 8/1/2026

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

Apprentice to Journeyworker Ratio: 1:5

TERRAZZO MECHANIC	2/1/2026	$67.97	$12.84	$15.57	$7.99	$0.00	$104.37
BRICKLAYERS LOCAL 3	8/1/2026	$70.17	$12.84	$15.57	$7.99	$0.00	$106.57
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	2/1/2027	$71.57	$12.84	$15.57	$7.99	$0.00	$107.97

Apprentice: TERRAZZO MECHANIC

Effective Date: 2/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$33.99	$12.84	$15.57	$7.99	$0.00	$70.39
2	60.00	$40.78	$12.84	$15.57	$7.99	$0.00	$77.18
3	70.00	$47.58	$12.84	$15.57	$7.99	$0.00	$83.98
4	80.00	$54.38	$12.84	$15.57	$7.99	$0.00	$90.78
5	90.00	$61.17	$12.84	$15.57	$7.99	$0.00	$97.57

Apprentice: TERRAZZO MECHANIC

Effective Date: 8/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$35.09	$12.84	$15.57	$7.99	$0.00	$71.49
2	60.00	$42.10	$12.84	$15.57	$7.99	$0.00	$78.50

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: TERRAZZO MECHANIC							
Effective Date: 8/1/2026							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
3 / 70.00		$49.12	$12.84	$15.57	$7.99	$0.00	$85.52
4 / 80.00		$56.14	$12.84	$15.57	$7.99	$0.00	$92.54
5 / 90.00		$63.15	$12.84	$15.57	$7.99	$0.00	$99.55
Apprentice to Journeyworker Ratio: 1:5							
TEST BORING DRILLER	6/1/2026	$53.25	$10.90	$9.75	$9.80	$0.00	$83.70
LABORERS LABORERS - FOUNDATION AND MARINE	12/1/2026	$54.75	$10.90	$9.75	$9.80	$0.00	$85.20
For apprentice rates see "Apprentice- LABORER"							
TEST BORING DRILLER HELPER	6/1/2026	$49.37	$10.90	$9.75	$9.80	$0.00	$79.82
LABORERS LABORERS - FOUNDATION AND MARINE	12/1/2026	$50.87	$10.90	$9.75	$9.80	$0.00	$81.32
For apprentice rates see "Apprentice- LABORER"							
TEST BORING LABORER	6/1/2026	$49.25	$10.90	$9.75	$9.80	$0.00	$79.70
LABORERS LABORERS - FOUNDATION AND MARINE	12/1/2026	$50.75	$10.90	$9.75	$9.80	$0.00	$81.20
For apprentice rates see "Apprentice- LABORER"							
TRACTORS	12/1/2023	$38.42	$13.78	$12.15	$3.00	$0.00	$67.35
OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
TRAILERS FOR EARTH MOVING EQUIPMENT	6/1/2026	$42.82	$16.17	$21.78	$0.00	$0.00	$80.77
TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	12/1/2026	$42.82	$16.17	$23.52	$0.00	$0.00	$82.51
	1/1/2027	$42.82	$16.77	$23.52	$0.00	$0.00	$83.11
TUNNEL WORK - COMPRESSED AIR	6/1/2026	$61.48	$10.90	$9.75	$10.25	$0.00	$92.38
LABORERS LABORERS (COMPRESSED AIR)	12/1/2026	$62.98	$10.90	$9.75	$10.25	$0.00	$93.88
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE)	6/1/2026	$63.48	$10.90	$9.75	$10.25	$0.00	$94.38
LABORERS LABORERS (COMPRESSED AIR)	12/1/2026	$64.98	$10.90	$9.75	$10.25	$0.00	$95.88
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - FREE AIR	6/1/2026	$53.55	$10.90	$9.75	$10.25	$0.00	$84.45
LABORERS LABORERS (FREE AIR TUNNEL)	12/1/2026	$55.05	$10.90	$9.75	$10.25	$0.00	$85.95
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - FREE AIR (HAZ. WASTE)	6/1/2026	$55.55	$10.90	$9.75	$10.25	$0.00	$86.45
LABORERS LABORERS (FREE AIR TUNNEL)	12/1/2026	$57.05	$10.90	$9.75	$10.25	$0.00	$87.95
For apprentice rates see "Apprentice- LABORER"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
VAC-HAUL TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$42.24	$16.17	$21.78	$0.00	$0.00	$80.19
	12/1/2026	$42.24	$16.17	$23.52	$0.00	$0.00	$81.93
	1/1/2027	$42.24	$16.77	$23.52	$0.00	$0.00	$82.53
WAGON DRILL OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
WATER METER INSTALLER PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$56.26	$12.00	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"							

Marine Drilling

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

Op Eng Marine (Dredging Work)

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

Additional Apprentice Information

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

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

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

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

MAURA HEALEY
Governor
KIM DRISCOLL
Lt. Governor

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

LAUREN JONES
Secretary
MICHAEL FLANAGAN
Director

Awarding Authority:	Massachusetts Highway	**City/Town:**	HINSDALE
Contract Number:	135582		
Description of Work:	CHESTERFIELD-HINSDALE-MIDDLEFIELD-PITTSFIELD – Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 2)		
Job Location:	Municipal Bridges at Multiple locations		

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 form 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

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
(2 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$41.95	$16.17	$21.78	$0.00	$0.00	$79.90
	12/1/2026	$41.95	$16.17	$23.52	$0.00	$0.00	$81.64
	1/1/2027	$41.95	$16.77	$23.52	$0.00	$0.00	$82.24
(3 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$42.02	$16.17	$21.78	$0.00	$0.00	$79.97
	12/1/2026	$42.02	$16.17	$23.52	$0.00	$0.00	$81.71
	1/1/2027	$42.02	$16.77	$23.52	$0.00	$0.00	$82.31
(4 & 5 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$42.14	$16.17	$21.78	$0.00	$0.00	$80.09
	12/1/2026	$42.14	$16.17	$23.52	$0.00	$0.00	$81.83
	1/1/2027	$42.14	$16.77	$23.52	$0.00	$0.00	$82.43
ADS/SUBMERSIBLE PILOT PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3) For apprentice rates see "Apprentice- PILE DRIVER"	8/1/2024	$117.16	$10.08	$11.62	$12.67	$0.00	$151.53
AIR TRACK OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	6/1/2026	$36.97	$10.90	$9.75	$6.60	$0.00	$64.22
	12/1/2026	$39.39	$10.90	$9.75	$6.60	$0.00	$66.64
	6/1/2027	$40.79	$10.90	$9.75	$6.60	$0.00	$68.04
	12/1/2027	$42.19	$10.90	$9.75	$6.60	$0.00	$69.44
	6/1/2028	$43.69	$10.90	$9.75	$6.60	$0.00	$70.94
	12/1/2028	$45.19	$10.90	$9.75	$6.60	$0.00	$72.44
AIR TRACK OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY) For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"	6/1/2026	$37.75	$10.90	$9.75	$6.60	$0.00	$65.00
	12/1/2026	$39.04	$10.90	$9.75	$6.60	$0.00	$66.29
ASBESTOS WORKER (PIPES & TANKS) HEAT & FROST INSULATORS LOCAL 6 HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)	12/1/2025	$40.32	$14.50	$4.30	$6.25	$0.00	$65.37
ASPHALT RAKER LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
ASPHALT RAKER (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY) For apprentice rates see "Apprentice- LABORER (Heavy and Highway)	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
AUTOMATIC GRADER-EXCAVATOR (RECLAIMER) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
BACKHOE/FRONT-END LOADER OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
BARCO-TYPE JUMPING TAMPER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
BATCH/CEMENT PLANT - ON SITE OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
BLOCK PAVER, RAMMER / CURB SETTER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.97	$10.90	$9.75	$6.60	$0.00	$64.22
	12/1/2026	$39.39	$10.90	$9.75	$6.60	$0.00	$66.64
	6/1/2027	$40.79	$10.90	$9.75	$6.60	$0.00	$68.04
	12/1/2027	$42.19	$10.90	$9.75	$6.60	$0.00	$69.44
	6/1/2028	$43.69	$10.90	$9.75	$6.60	$0.00	$70.94
	12/1/2028	$45.19	$10.90	$9.75	$6.60	$0.00	$72.44
For apprentice rates see "Apprentice- LABORER"							
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY) For apprentice rates see "Apprentice- LABORER (Heavy and Highway)	6/1/2026	$37.75	$10.90	$9.75	$6.60	$0.00	$65.00
	12/1/2026	$39.04	$10.90	$9.75	$6.60	$0.00	$66.29
BOILER MAKER BOILERMAKERS LOCAL 29 BOILERMAKERS LOCAL 29	1/1/2024	$48.12	$7.07	$14.60	$6.00	$0.00	$75.79

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING) BRICKLAYERS LOCAL 3 BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)	2/1/2026	$56.36	$12.84	$15.57	$5.89	$0.00	$90.66
	8/1/2026	$58.56	$12.84	$15.57	$5.89	$0.00	$92.86
	2/1/2027	$59.96	$12.84	$15.57	$5.89	$0.00	$94.26

Apprentice: BOILER MAKER

Effective Date: 1/1/2024

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

Apprentice to Journeyworker Ratio: 1:4

Apprentice: BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)

Effective Date: 2/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$28.18	$12.84	$15.57	$5.89	$0.00	$62.48
2	60.00	$33.82	$12.84	$15.57	$5.89	$0.00	$68.12
3	70.00	$39.45	$12.84	$15.57	$5.89	$0.00	$73.75
4	80.00	$45.09	$12.84	$15.57	$5.89	$0.00	$79.39
5	90.00	$50.72	$12.84	$15.57	$5.89	$0.00	$85.02

Apprentice: BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)

Effective Date: 8/1/2026

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

Apprentice to Journeyworker Ratio: 1:5

BULLDOZER/POWER SHOVEL/TREE SHREDDER /CLAM SHELL OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
CAISSON & UNDERPINNING BOTTOM MAN LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2026	$50.40	$10.90	$9.75	$9.80	$0.00	$80.85
	12/1/2026	$51.90	$10.90	$9.75	$9.80	$0.00	$82.35
For apprentice rates see "Apprentice- LABORER"							
CAISSON & UNDERPINNING LABORER LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2026	$49.25	$10.90	$9.75	$9.80	$0.00	$79.70
	12/1/2026	$50.75	$10.90	$9.75	$9.80	$0.00	$81.20
For apprentice rates see "Apprentice- LABORER"							
CAISSON & UNDERPINNING TOP MAN LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2026	$49.58	$10.90	$9.75	$9.80	$0.00	$80.03
	12/1/2026	$51.08	$10.90	$9.75	$9.80	$0.00	$81.53
For apprentice rates see "Apprentice- LABORER"							
CARBIDE CORE DRILL OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
CARPENTER CARPENTERS CARPENTERS LOCAL 336 - BERKSHIRE COUNTY	3/1/2026	$43.81	$9.19	$11.25	$6.90	$0.00	$71.15
	9/1/2026	$44.76	$9.19	$11.25	$6.90	$0.00	$72.10
	3/1/2027	$45.66	$9.19	$11.25	$6.90	$0.00	$73.00

Apprentice: CARPENTER

Effective Date: 3/1/2026

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

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
CARPENTER WOOD FRAME	10/1/2025	$27.37	$7.38	$4.47	$1.00	$0.00	$40.22
CARPENTERS	10/1/2026	$28.47	$7.38	$4.47	$1.00	$0.00	$41.32
CARPENTERS-ZONE 3 (Wood Frame)							

All Aspects of New Wood Frame Work

Apprentice: CARPENTER

Effective Date: 9/1/2026

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

Apprentice to Journeyworker Ratio: 1:5

Apprentice: CARPENTER WOOD FRAME

Effective Date: 10/1/2025

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

Apprentice: CARPENTER WOOD FRAME

Effective Date: 10/1/2026

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

Apprentice to Journeyworker Ratio: 1:5

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
CEMENT MASONRY/PLASTERING	7/1/2026	$49.32	$13.20	$16.30	$2.93	$1.69	$83.44
PLASTERERS AND CEMENT MASONS LOCAL 534	1/1/2027	$50.51	$13.20	$16.30	$2.93	$1.69	$84.63
Plasterers and Cement Masons - Zone 2	7/1/2027	$51.70	$13.20	$16.30	$2.93	$1.69	$85.82
	1/1/2028	$52.89	$13.20	$16.30	$2.93	$1.69	$87.01

Apprentice: CEMENT MASONRY/PLASTERING

Effective Date: 7/1/2026

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

Apprentice: CEMENT MASONRY/PLASTERING

Effective Date: 1/1/2027

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

Apprentice to Journeyworker Ratio: 1:5

CHAIN SAW OPERATOR	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
LABORERS	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19

For apprentice rates see "Apprentice- LABORER"

COMPRESSOR OPERATOR	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
CRANE OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$43.06	$13.78	$12.15	$3.00	$0.00	$71.99
DELEADER (BRIDGE) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$59.56	$10.35	$12.00	$12.60	$0.00	$94.51

Apprentice: DELEADER (BRIDGE)

Effective Date: 1/1/2026

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

Apprentice to Journeyworker Ratio: 1:1

DEMO: ADZEMAN LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	6/1/2026	$49.30	$10.90	$9.75	$9.65	$0.00	$79.60
	12/7/2026	$50.80	$10.90	$9.75	$9.65	$0.00	$81.10
	6/7/2027	$52.40	$10.90	$9.75	$9.65	$0.00	$82.70
	12/6/2027	$54.00	$10.90	$9.75	$9.65	$0.00	$84.30
	6/5/2028	$55.68	$10.90	$9.75	$9.65	$0.00	$85.98
	12/4/2028	$57.35	$10.90	$9.75	$9.65	$0.00	$87.65
DEMO: BACKHOE/LOADER/HAMMER OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	6/1/2026	$50.30	$10.90	$9.75	$9.65	$0.00	$80.60
	12/7/2026	$51.80	$10.90	$9.75	$9.65	$0.00	$82.10
	6/7/2027	$53.40	$10.90	$9.75	$9.65	$0.00	$83.70
	12/6/2027	$55.00	$10.90	$9.75	$9.65	$0.00	$85.30
	6/5/2028	$56.68	$10.90	$9.75	$9.65	$0.00	$86.98
	12/4/2028	$58.35	$10.90	$9.75	$9.65	$0.00	$88.65
DEMO: BURNERS LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$50.05	$10.90	$9.75	$9.65	$0.00	$80.35
	12/7/2026	$51.55	$10.90	$9.75	$9.65	$0.00	$81.85
	6/7/2027	$53.15	$10.90	$9.75	$9.65	$0.00	$83.45
	12/6/2027	$54.75	$10.90	$9.75	$9.65	$0.00	$85.05
	6/5/2028	$56.43	$10.90	$9.75	$9.65	$0.00	$86.73
	12/4/2028	$58.10	$10.90	$9.75	$9.65	$0.00	$88.40

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- LABORER"							
DEMO: CONCRETE CUTTER/SAWYER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$50.30	$10.90	$9.75	$9.65	$0.00	$80.60
	12/7/2026	$51.80	$10.90	$9.75	$9.65	$0.00	$82.10
	6/7/2027	$53.40	$10.90	$9.75	$9.65	$0.00	$83.70
	12/6/2027	$55.00	$10.90	$9.75	$9.65	$0.00	$85.30
	6/5/2028	$56.68	$10.90	$9.75	$9.65	$0.00	$86.98
	12/4/2028	$58.35	$10.90	$9.75	$9.65	$0.00	$88.65
For apprentice rates see "Apprentice- LABORER"							
DEMO: JACKHAMMER OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$50.05	$10.90	$9.75	$9.65	$0.00	$80.35
	12/7/2026	$51.55	$10.90	$9.75	$9.65	$0.00	$81.85
	6/7/2027	$53.15	$10.90	$9.75	$9.65	$0.00	$83.45
	12/6/2027	$54.75	$10.90	$9.75	$9.65	$0.00	$85.05
	6/5/2028	$56.43	$10.90	$9.75	$9.65	$0.00	$86.73
	12/4/2028	$58.10	$10.90	$9.75	$9.65	$0.00	$88.40
For apprentice rates see "Apprentice- LABORER"							
DEMO: WRECKING LABORER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$49.30	$10.90	$9.75	$9.65	$0.00	$79.60
	12/7/2026	$50.80	$10.90	$9.75	$9.65	$0.00	$81.10
	6/7/2027	$52.40	$10.90	$9.75	$9.65	$0.00	$82.70
	12/6/2027	$54.00	$10.90	$9.75	$9.65	$0.00	$84.30
	6/5/2028	$55.68	$10.90	$9.75	$9.65	$0.00	$85.98
	12/4/2028	$57.35	$10.90	$9.75	$9.65	$0.00	$87.65
For apprentice rates see "Apprentice- LABORER"							
DIVER PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$78.11	$10.08	$11.62	$12.67	$0.00	$112.48
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 3)	8/1/2024	$49.19	$10.08	$11.62	$12.67	$0.00	$83.56
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 3)	8/1/2024	$83.69	$10.08	$11.62	$12.67	$0.00	$118.06
For apprentice rates see "Apprentice- PILE DRIVER"							
DIVER/SLURRY (EFFLUENT) PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$117.16	$10.08	$11.62	$12.67	$0.00	$151.53
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
ELECTRICIAN (Including Core Drilling) ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37

Construction

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

Apprentice: ELECTRICIAN (Including Core Drilling)

Effective Date: 6/28/2026

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

Apprentice: ELECTRICIAN (Including Core Drilling)

Effective Date: 1/3/2027

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

Apprentice to Journeyworker Ratio: 2:3

Apprentice: ELEVATOR CONSTRUCTOR

Effective Date: 1/1/2026

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

Apprentice: ELEVATOR CONSTRUCTOR

Effective Date: 1/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$36.12	$16.48	$0.00	$0.00	$0.00	$52.60
2	55.00	$39.73	$16.48	$11.16	$11.00	$0.00	$78.37
3	65.00	$46.95	$16.48	$11.16	$11.00	$0.00	$85.59

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: ELEVATOR CONSTRUCTOR							
Effective Date: 1/1/2027							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
4 / 70.00		$50.56	$16.48	$11.16	$11.00	$0.00	$89.20
5 / 80.00		$57.78	$16.48	$11.16	$11.00	$0.00	$96.42
Apprentice to Journeyworker Ratio: 1:1							
ELEVATOR CONSTRUCTOR HELPER ELEVATOR CONSTRUCTORS LOCAL 41 ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2026	$48.46	$16.38	$11.06	$10.70	$0.00	$86.60
	1/1/2027	$50.56	$16.48	$11.16	$11.00	$0.00	$89.20
For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"							
FENCE & BEAM RAIL ERECTOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$44.69	$10.90	$9.75	$6.60	$0.00	$71.94
For apprentice rates see "Apprentice- LABORER"							
FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
FIELD ENG.INST/ROD-BLDG,SITE,HVY/HWY OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	6/1/1999	$18.84	$4.80	$4.10	$0.00	$0.00	$27.74
FIELD ENG.PARTY CHIEF:BLDG,SITE,HVY/HWY OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	6/1/1999	$21.33	$4.80	$4.10	$0.00	$0.00	$30.23
FIELD ENG.SURVEY CHIEF-BLDG,SITE,HVY/HWY OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	6/1/1999	$22.33	$4.80	$4.10	$0.00	$0.00	$31.23
FIRE ALARM INSTALLER ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
For apprentice rates see "Apprentice- ELECTRICIAN"							
FIRE ALARM REPAIR / MAINTENANCE / COMMISSIONING ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"							
FIREMAN OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: FIREMAN

Effective Date: 12/1/2023

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

Apprentice to Journeyworker Ratio: 1:6

FLAGGER & SIGNALER (HEAVY & HIGHWAY)	6/1/2026	$29.21	$10.90	$9.75	$6.60	$0.00	$56.46
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/1/2026	$29.21	$10.90	$9.75	$6.60	$0.00	$56.46
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
FLOORCOVERER	3/1/2026	$44.34	$8.56	$11.25	$6.90	$0.00	$71.05
FLOORCOVERERS LOCAL 2168 FLOORCOVERERS LOCAL 2168 ZONE III	9/1/2026	$45.29	$8.56	$11.25	$6.90	$0.00	$72.00
	3/1/2027	$46.19	$8.56	$11.25	$6.90	$0.00	$72.90

Apprentice: FLOORCOVERER

Effective Date: 3/1/2026

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

Apprentice: FLOORCOVERER

Effective Date: 9/1/2026

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

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice Notes Steps are 750 hrs.							
Apprentice to Journeyworker Ratio: 1:1							
FORK LIFT OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.25	$13.78	$12.15	$3.00	$0.00	$68.18
GENERATORS/LIGHTING PLANTS OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$35.80	$13.78	$12.15	$3.00	$0.00	$64.73
GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS) GLAZIERS LOCAL 1333 GLAZIERS LOCAL 1333	6/1/2026	$44.73	$11.20	$8.40	$6.05	$0.00	$70.38
	6/1/2027	$46.73	$11.60	$8.55	$6.60	$0.00	$73.48
	6/1/2028	$48.73	$12.00	$8.70	$7.20	$0.00	$76.63

Apprentice: GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)

Effective Date: 6/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$22.37	$11.20	$8.40	$6.05	$0.00	$48.02
2	56.25	$25.16	$11.20	$8.40	$6.05	$0.00	$50.81
3	62.50	$27.96	$11.20	$8.40	$6.05	$0.00	$53.61
4	68.75	$30.75	$11.20	$8.40	$6.05	$0.00	$56.40
5	75.00	$33.55	$11.20	$8.40	$6.05	$0.00	$59.20
6	81.25	$36.34	$11.20	$8.40	$6.05	$0.00	$61.99
7	87.50	$39.14	$11.20	$8.40	$6.05	$0.00	$64.79
8	93.75	$41.93	$11.20	$8.40	$6.05	$0.00	$67.58

Apprentice: GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)

Effective Date: 6/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$23.37	$11.60	$8.55	$6.60	$0.00	$50.12
2	56.25	$26.29	$11.60	$8.55	$6.60	$0.00	$53.04
3	62.50	$29.21	$11.60	$8.55	$6.60	$0.00	$55.96
4	68.75	$32.13	$11.60	$8.55	$6.60	$0.00	$58.88
5	75.00	$35.05	$11.60	$8.55	$6.60	$0.00	$61.80
6	81.25	$37.97	$11.60	$8.55	$6.60	$0.00	$64.72
7	87.50	$40.89	$11.60	$8.55	$6.60	$0.00	$67.64
8	93.75	$43.81	$11.60	$8.55	$6.60	$0.00	$70.56

Apprentice to Journeyworker Ratio: 3:1

GRADER/TRENCHING MACHINE/DERRICK	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
HVAC (DUCTWORK) SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63	7/1/2026	$43.48	$13.24	$11.01	$9.92	$2.13	$79.78
	1/1/2027	$43.48	$13.54	$11.01	$11.12	$2.13	$81.28
	7/1/2027	$44.98	$13.54	$11.01	$11.12	$2.13	$82.78
	1/1/2028	$46.48	$13.54	$11.01	$11.12	$2.13	$84.28
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (ELECTRICAL CONTROLS) ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
For apprentice rates see "Apprentice- ELECTRICIAN"							
HVAC (TESTING AND BALANCING - AIR) SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63	7/1/2026	$43.48	$13.24	$11.01	$9.92	$2.13	$79.78
	1/1/2027	$43.48	$13.54	$11.01	$11.12	$2.13	$81.28
	7/1/2027	$44.98	$13.54	$11.01	$11.12	$2.13	$82.78
	1/1/2028	$46.48	$13.54	$11.01	$11.12	$2.13	$84.28
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (TESTING AND BALANCING -WATER) PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
HVAC MECHANIC PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
HYDRAULIC DRILLS (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.75	$10.90	$9.75	$6.60	$0.00	$65.00
	12/1/2026	$39.04	$10.90	$9.75	$6.60	$0.00	$66.29
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
INSULATOR (PIPES & TANKS) HEAT & FROST INSULATORS LOCAL 6 HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)	9/1/2025	$48.27	$14.75	$9.52	$10.09	$0.00	$82.63
	9/1/2026	$51.01	$14.75	$9.52	$10.09	$0.00	$85.37

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: INSULATOR (PIPES & TANKS)

Effective Date: 9/1/2025

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

Apprentice: INSULATOR (PIPES & TANKS)

Effective Date: 9/1/2026

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

Apprentice to Journeyworker Ratio: 1:4

IRONWORKER/WELDER IRONWORKERS LOCAL 7 IRONWORKERS LOCAL 7 (SPRINGFIELD AREA)	3/16/2026	$42.46	$9.25	$12.75	$11.25	$0.00	$75.71

Apprentice: IRONWORKER/WELDER

Effective Date: 3/16/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	70.00	$29.72	$9.25	$12.75	$1.25	$0.00	$52.97
2	80.00	$33.97	$9.25	$12.75	$1.25	$0.00	$57.22
3	90.00	$38.21	$9.25	$12.75	$1.25	$0.00	$61.46
4	0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
5	0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
6	0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

Apprentice to Journeyworker Ratio: 1:4

JACKHAMMER & PAVING BREAKER OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19

For apprentice rates see "Apprentice- LABORER"

LABORER	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69

Apprentice: LABORER

Effective Date: 6/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$21.73	$10.90	$9.75	$6.60	$0.00	$48.98
2	70.00	$25.35	$10.90	$9.75	$6.60	$0.00	$52.60
3	80.00	$28.98	$10.90	$9.75	$6.60	$0.00	$56.23
4	90.00	$32.60	$10.90	$9.75	$6.60	$0.00	$59.85

Apprentice: LABORER

Effective Date: 12/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$23.18	$10.90	$9.75	$6.60	$0.00	$50.43
2	70.00	$27.05	$10.90	$9.75	$6.60	$0.00	$54.30
3	80.00	$30.91	$10.90	$9.75	$6.60	$0.00	$58.16
4	90.00	$34.78	$10.90	$9.75	$6.60	$0.00	$62.03

Apprentice to Journeyworker Ratio: 1:5

LABORER (HEAVY & HIGHWAY)	6/1/2026	$37.00	$10.90	$9.75	$6.60	$0.00	$64.25
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/1/2026	$38.29	$10.90	$9.75	$6.60	$0.00	$65.54

Apprentice: LABORER (HEAVY & HIGHWAY)

Effective Date: 6/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$22.20	$10.90	$9.75	$6.60	$0.00	$49.45
2	70.00	$25.90	$10.90	$9.75	$6.60	$0.00	$53.15
3	80.00	$29.60	$10.90	$9.75	$6.60	$0.00	$56.85
4	90.00	$33.30	$10.90	$9.75	$6.60	$0.00	$60.55

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: LABORER (HEAVY & HIGHWAY)							
Effective Date: 12/1/2026							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
1 / 60.00		$22.97	$10.90	$9.75	$6.60	$0.00	$50.22
2 / 70.00		$26.80	$10.90	$9.75	$6.60	$0.00	$54.05
3 / 80.00		$30.63	$10.90	$9.75	$6.60	$0.00	$57.88
4 / 90.00		$34.46	$10.90	$9.75	$6.60	$0.00	$61.71
Apprentice to Journeyworker Ratio: 1:5							
LABORER: CARPENTER TENDER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: CEMENT FINISHER TENDER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$35.67	$10.90	$9.75	$5.41	$0.00	$61.73
	12/1/2026	$36.96	$10.90	$9.75	$5.41	$0.00	$63.02
	6/1/2027	$38.26	$10.90	$9.75	$5.41	$0.00	$64.32
	12/1/2027	$39.56	$10.90	$9.75	$5.41	$0.00	$65.62
	6/5/2028	$40.91	$10.90	$9.75	$5.41	$0.00	$66.97
	12/4/2028	$42.26	$10.90	$9.75	$5.41	$0.00	$68.32
For apprentice rates see "Apprentice- LABORER"							
LABORER: MASON TENDER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$38.22	$10.90	$9.75	$6.60	$0.00	$65.47
	12/1/2026	$40.64	$10.90	$9.75	$6.60	$0.00	$67.89
	6/1/2027	$42.04	$10.90	$9.75	$6.60	$0.00	$69.29
	12/1/2027	$43.44	$10.90	$9.75	$6.60	$0.00	$70.69
	6/1/2028	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
	12/1/2028	$46.44	$10.90	$9.75	$6.60	$0.00	$73.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: MASON TENDER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
LABORER: MULTI-TRADE TENDER	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: TREE REMOVER	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
This classification applies to the removal of standing trees, and the trimming and removal of branches and limbs when related to public works construction or site clearance incidental to construction . For apprentice rates see "Apprentice- LABORER"							
LASER BEAM OPERATOR	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
LASER BEAM OPERATOR (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
MARBLE & TILE FINISHERS	2/1/2026	$45.56	$12.84	$15.10	$5.41	$0.00	$78.91
BRICKLAYERS LOCAL 3 BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	8/1/2026	$47.32	$12.84	$15.10	$5.41	$0.00	$80.67
	2/1/2027	$48.44	$12.84	$15.10	$5.41	$0.00	$81.79

Apprentice: MARBLE & TILE FINISHERS

Effective Date: 2/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$22.78	$12.84	$15.10	$5.41	$0.00	$56.13
2	60.00	$27.34	$12.84	$15.10	$5.41	$0.00	$60.69
3	70.00	$31.89	$12.84	$15.10	$5.41	$0.00	$65.24
4	80.00	$36.45	$12.84	$15.10	$5.41	$0.00	$69.80
5	90.00	$41.00	$12.84	$15.10	$5.41	$0.00	$74.35

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: MARBLE & TILE FINISHERS

Effective Date: 8/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$23.66	$12.84	$15.10	$5.41	$0.00	$57.01
2	60.00	$28.39	$12.84	$15.10	$5.41	$0.00	$61.74
3	70.00	$33.12	$12.84	$15.10	$5.41	$0.00	$66.47
4	80.00	$37.86	$12.84	$15.10	$5.41	$0.00	$71.21
5	90.00	$42.59	$12.84	$15.10	$5.41	$0.00	$75.94

Apprentice to Journeyworker Ratio: 1:5

MECH. SWEEPER OPERATOR (ON CONST. SITES) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
MECHANIC/WELDER/BOOM TRUCK OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
MILLWRIGHT (Zone 3) MILLWRIGHTS LOCAL 1121 MILLWRIGHTS LOCAL 1121 - Zone 3	1/5/2026	$45.20	$10.58	$11.47	$9.75	$0.00	$77.00

Apprentice: MILLWRIGHT (Zone 3)

Effective Date: 1/5/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	55.00	$24.86	$10.58	$0.00	$5.36	$0.00	$40.80
2	65.00	$29.38	$10.58	$0.00	$6.34	$0.00	$46.30
3	75.00	$33.90	$10.58	$11.47	$7.31	$0.00	$63.26
4	85.00	$38.42	$10.58	$11.47	$8.29	$0.00	$68.76

Apprentice Notes

Step 1&2 Appr. indentured after 1/6/2020 receive no pension,

Apprentice to Journeyworker Ratio: 1:4

MORTAR MIXER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19

For apprentice rates see "Apprentice- LABORER"

OILER OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$35.02	$13.78	$12.15	$3.00	$0.00	$63.95

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

OTHER POWER DRIVEN EQUIPMENT - CLASS VI OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$32.74	$13.78	$12.15	$3.00	$0.00	$61.67

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

PAINTER (BRIDGES/TANKS) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$59.56	$10.35	$12.00	$12.60	$0.00	$94.51

Apprentice: PAINTER (BRIDGES/TANKS)

Effective Date: 1/1/2026

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

Apprentice to Journeyworker Ratio: 1:1

PAINTER (SPRAY OR SANDBLAST, NEW) * * If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$42.03	$10.35	$12.00	$8.35	$0.00	$72.73

Apprentice: PAINTER (SPRAY OR SANDBLAST, NEW) *

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$21.02	$10.35	$0.00	$0.00	$0.00	$31.37
2	55.00	$23.12	$10.35	$0.00	$4.59	$0.00	$38.06
3	60.00	$25.22	$10.35	$0.00	$5.01	$0.00	$40.58

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: PAINTER (SPRAY OR SANDBLAST, NEW) *

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
4	65.00	$27.32	$10.35	$0.00	$5.43	$0.00	$43.10
5	70.00	$29.42	$10.35	$12.00	$5.85	$0.00	$57.62
6	75.00	$31.52	$10.35	$12.00	$6.26	$0.00	$60.13
7	80.00	$33.62	$10.35	$12.00	$6.68	$0.00	$62.65
8	90.00	$37.83	$10.35	$12.00	$7.52	$0.00	$67.70

Apprentice to Journeyworker Ratio: 1:1

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

Apprentice: PAINTER (SPRAY OR SANDBLAST, REPAINT)

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$19.68	$10.35	$0.00	$0.00	$0.00	$30.03
2	55.00	$21.64	$10.35	$0.00	$4.59	$0.00	$36.58
3	60.00	$23.61	$10.35	$0.00	$5.01	$0.00	$38.97
4	65.00	$25.58	$10.35	$0.00	$5.43	$0.00	$41.36
5	70.00	$27.55	$10.35	$12.00	$5.85	$0.00	$55.75
6	75.00	$29.51	$10.35	$12.00	$6.26	$0.00	$58.12
7	80.00	$31.48	$10.35	$12.00	$6.68	$0.00	$60.51
8	90.00	$35.42	$10.35	$12.00	$7.52	$0.00	$65.29

Apprentice to Journeyworker Ratio: 1:1

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

Apprentice: PAINTER / TAPER (BRUSH, NEW) *

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$20.32	$10.35	$0.00	$0.00	$0.00	$30.67
2	55.00	$22.35	$10.35	$0.00	$4.59	$0.00	$37.29
3	60.00	$24.38	$10.35	$0.00	$5.01	$0.00	$39.74
4	65.00	$26.41	$10.35	$0.00	$5.43	$0.00	$42.19
5	70.00	$28.44	$10.35	$12.00	$5.85	$0.00	$56.64
6	75.00	$30.47	$10.35	$12.00	$6.26	$0.00	$59.08
7	80.00	$32.50	$10.35	$12.00	$6.68	$0.00	$61.53

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: PAINTER / TAPER (BRUSH, NEW) *							
Effective Date: 1/1/2026							
Step / Percent		**Apprentice Base Wage**					
8 / 90.00		$36.57	$10.35	$12.00	$7.52	$0.00	$66.44
Apprentice to Journeyworker Ratio: 1:1							
PAINTER / TAPER (BRUSH, REPAINT) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$37.95	$10.35	$12.00	$8.35	$0.00	$68.65
Apprentice: PAINTER / TAPER (BRUSH, REPAINT)							
Effective Date: 1/1/2026							
Step / Percent		**Apprentice Base Wage**					
1 / 50.00		$18.98	$10.35	$0.00	$0.00	$0.00	$29.33
2 / 55.00		$20.87	$10.35	$0.00	$4.59	$0.00	$35.81
3 / 60.00		$22.77	$10.35	$0.00	$5.01	$0.00	$38.13
4 / 65.00		$24.67	$10.35	$0.00	$5.43	$0.00	$40.45
5 / 70.00		$26.57	$10.35	$12.00	$5.85	$0.00	$54.77
6 / 75.00		$28.46	$10.35	$12.00	$6.26	$0.00	$57.07
7 / 80.00		$30.36	$10.35	$12.00	$6.68	$0.00	$59.39
8 / 90.00		$34.16	$10.35	$12.00	$7.52	$0.00	$64.03
Apprentice to Journeyworker Ratio: 1:1							
PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.00	$10.90	$9.75	$6.60	$0.00	$64.25
	12/1/2026	$38.29	$10.90	$9.75	$6.60	$0.00	$65.54
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
PANEL & PICKUP TRUCKS DRIVER TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$41.78	$16.17	$21.78	$0.00	$0.00	$79.73
	12/1/2026	$41.78	$16.17	$23.52	$0.00	$0.00	$81.47
	1/1/2027	$41.78	$16.77	$23.52	$0.00	$0.00	$82.07
PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK) PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$49.19	$10.08	$11.62	$12.67	$0.00	$83.56
For apprentice rates see "Apprentice- PILE DRIVER"							
PILE DRIVER PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$49.19	$10.08	$11.62	$12.67	$0.00	$83.56
Apprentice: PILE DRIVER							
Effective Date: 8/1/2024							
Step / Percent		**Apprentice Base Wage**					

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: PILE DRIVER							
Effective Date: 8/1/2024							
Step / Percent		**Apprentice Base Wage**					
1 / 45.00		$22.14	$10.08	$0.00	$2.53	$0.00	$34.75
2 / 55.00		$27.05	$10.08	$0.00	$5.07	$0.00	$42.20
3 / 70.00		$34.43	$10.08	$11.62	$7.60	$0.00	$63.73
4 / 80.00		$39.35	$10.08	$11.62	$10.14	$0.00	$71.19
Apprentice to Journeyworker Ratio: 1:5							
PIPELAYER	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
LABORERS	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
PIPELAYER (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
LABORERS	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
LABORERS - ZONE 4 (HEAVY & HIGHWAY)							
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
PLUMBER & PIPEFITTER	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
PLUMBERS & PIPEFITTERS LOCAL 104	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
Apprentice: PLUMBER & PIPEFITTER							
Effective Date: 3/17/2026							
Step / Percent		**Apprentice Base Wage**					
1 / 45.00		$23.74	$13.50	$10.85	$0.00	$0.00	$48.09
2 / 50.00		$26.38	$13.50	$10.85	$0.00	$0.00	$50.73
3 / 55.00		$29.02	$13.50	$10.85	$0.00	$0.00	$53.37
4 / 60.00		$31.66	$13.50	$10.85	$0.00	$0.00	$56.01

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: PLUMBER & PIPEFITTER

Effective Date: 3/17/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
5	65.00	$34.29	$13.50	$10.85	$0.00	$0.00	$58.64
6	70.00	$36.93	$13.50	$10.85	$0.00	$0.00	$61.28
7	75.00	$39.57	$13.50	$10.85	$0.00	$0.00	$63.92
8	80.00	$42.21	$13.50	$10.85	$0.00	$0.00	$66.56
9	85.00	$44.85	$13.50	$10.85	$7.10	$0.00	$76.30
10	85.00	$44.85	$13.50	$10.85	$7.10	$0.00	$76.30

Apprentice: PLUMBER & PIPEFITTER

Effective Date: 9/17/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$24.64	$13.50	$0.00	$0.00	$0.00	$38.14
2	50.00	$27.38	$13.50	$0.00	$0.00	$0.00	$40.88
3	55.00	$30.12	$13.50	$0.00	$0.00	$0.00	$43.62
4	60.00	$32.86	$13.50	$0.00	$0.00	$0.00	$46.36
5	65.00	$35.59	$13.50	$0.00	$0.00	$0.00	$49.09
6	70.00	$38.33	$13.50	$0.00	$0.00	$0.00	$51.83
7	75.00	$41.07	$13.50	$0.00	$0.00	$0.00	$54.57
8	80.00	$43.81	$13.50	$0.00	$0.00	$0.00	$57.31
9	85.00	$46.55	$13.50	$0.00	$7.10	$0.00	$67.15
10	85.00	$46.55	$13.50	$0.00	$7.10	$0.00	$67.15

Apprentice Notes

**1:1,2:5,3:9,4:12

Apprentice to Journeyworker Ratio: 1:1

PNEUMATIC CONTROLS (TEMP.) PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
POWDERMAN & BLASTER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$37.22	$10.90	$9.75	$6.60	$0.00	$64.47
	12/1/2026	$39.64	$10.90	$9.75	$6.60	$0.00	$66.89
	6/1/2027	$41.04	$10.90	$9.75	$6.60	$0.00	$68.29

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	12/1/2027	$42.44	$10.90	$9.75	$6.60	$0.00	$69.69
	6/1/2028	$43.94	$10.90	$9.75	$6.60	$0.00	$71.19
	12/1/2028	$45.44	$10.90	$9.75	$6.60	$0.00	$72.69
For apprentice rates see "Apprentice- LABORER"							
POWDERMAN & BLASTER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$38.00	$10.90	$9.75	$6.60	$0.00	$65.25
	12/1/2026	$39.29	$10.90	$9.75	$6.60	$0.00	$66.54
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
PUMP OPERATOR (CONCRETE) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
PUMP OPERATOR (DEWATERING, OTHER) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
READY-MIX CONCRETE DRIVER TEAMSTERS 404 - Construction Service (Northampton) TEAMSTERS 404 - Construction Service (Northampton)	5/1/2024	$26.14	$11.82	$7.25	$0.00	$0.00	$45.21
RIDE-ON MOTORIZED BUGGY OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
ROLLER OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$38.42	$13.78	$12.15	$3.00	$0.00	$67.35
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
ROOFER (Coal tar pitch) ROOFERS LOCAL 248 ROOFERS LOCAL 248	7/16/2026	$46.73	$10.60	$8.70	$10.00	$0.00	$76.03
For apprentice rates see "Apprentice- ROOFER"							
ROOFER (Inc.Roofer Waterproofng &Roofer Damproofg) ROOFERS LOCAL 248 ROOFERS LOCAL 248	7/16/2026	$46.23	$10.60	$8.70	$10.00	$0.00	$75.53

Construction

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

Apprentice: SHEETMETAL WORKER

Effective Date: 7/1/2026

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

Apprentice: SHEETMETAL WORKER

Effective Date: 1/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$19.57	$6.09	$4.95	$0.00	$0.85	$31.46
2	50.00	$21.74	$6.77	$5.51	$0.00	$0.94	$34.96
3	55.00	$23.91	$7.45	$9.91	$0.00	$1.15	$42.42
4	60.00	$26.09	$8.36	$9.91	$0.00	$1.23	$45.59
5	65.00	$28.26	$8.86	$9.91	$0.00	$1.31	$48.34

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: SHEETMETAL WORKER							
Effective Date: 1/1/2027							
Step / Percent		**Apprentice Base Wage**					
6 / 70.00		$30.44	$9.48	$9.91	$0.00	$1.39	$51.22
7 / 75.00		$32.61	$10.15	$9.91	$0.00	$1.47	$54.14
8 / 80.00		$34.78	$10.83	$9.91	$11.12	$1.78	$68.42
9 / 85.00		$36.96	$11.51	$9.91	$11.12	$1.86	$71.36
10 / 90.00		$39.13	$12.18	$9.91	$11.12	$1.94	$74.28
Apprentice to Journeyworker Ratio: 1:3							
SPECIALIZED EARTH MOVING EQUIP < 35 TONS	6/1/2026	$42.24	$16.17	$21.78	$0.00	$0.00	$80.19
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	$42.24	$16.17	$23.52	$0.00	$0.00	$81.93
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	$42.24	$16.77	$23.52	$0.00	$0.00	$82.53
SPECIALIZED EARTH MOVING EQUIP > 35 TONS	6/1/2026	$42.53	$16.17	$21.78	$0.00	$0.00	$80.48
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	$42.53	$16.17	$23.52	$0.00	$0.00	$82.22
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	$42.53	$16.77	$23.52	$0.00	$0.00	$82.82
SPRINKLER FITTER	7/1/2026	$56.54	$13.60	$7.45	$9.41	$0.00	$87.00
SPRINKLER FITTERS LOCAL 669	10/1/2026	$56.54	$13.60	$7.45	$9.41	$0.00	$87.00
SPRINKLER FITTERS LOCAL 669	1/1/2027	$56.54	$14.55	$7.50	$9.41	$0.00	$88.00
	4/1/2027	$59.83	$14.55	$7.50	$9.41	$0.00	$91.29
	7/1/2027	$59.83	$14.55	$7.50	$9.41	$0.00	$91.29
	10/1/2027	$59.83	$14.55	$7.50	$9.41	$0.00	$91.29
	1/1/2028	$59.83	$15.50	$7.55	$9.41	$0.00	$92.29

Apprentice: SPRINKLER FITTER

Effective Date: 7/1/2026

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

Apprentice: SPRINKLER FITTER

Effective Date: 10/1/2026

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

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: SPRINKLER FITTER

Effective Date: 10/1/2026

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

Apprentice to Journeyworker Ratio: 1:1

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

For apprentice rates and ratios see "Apprentice- ELECTRICIAN"

Apprentice: TELECOMMUNICATION TECHNICIAN

Effective Date: 6/28/2026

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

Apprentice: TELECOMMUNICATION TECHNICIAN

Effective Date: 1/3/2027

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

Apprentice to Journeyworker Ratio: 1:1

TERRAZZO FINISHERS	2/10/2026	$66.89	$12.84	$15.57	$8.02	$0.00	$103.32

Construction

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

Apprentice: TERRAZZO FINISHERS

Effective Date: 2/10/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$33.45	$12.84	$15.57	$8.02	$0.00	$69.88
2	60.00	$40.13	$12.84	$15.57	$8.02	$0.00	$76.56
3	70.00	$46.82	$12.84	$15.57	$8.02	$0.00	$83.25
4	80.00	$53.51	$12.84	$15.57	$8.02	$0.00	$89.94
5	90.00	$60.20	$12.84	$15.57	$8.02	$0.00	$96.63

Apprentice: TERRAZZO FINISHERS

Effective Date: 8/1/2026

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

Apprentice to Journeyworker Ratio: 1:5

TERRAZZO MECHANIC	2/1/2026	$67.97	$12.84	$15.57	$7.99	$0.00	$104.37
BRICKLAYERS LOCAL 3	8/1/2026	$70.17	$12.84	$15.57	$7.99	$0.00	$106.57
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	2/1/2027	$71.57	$12.84	$15.57	$7.99	$0.00	$107.97

Apprentice: TERRAZZO MECHANIC

Effective Date: 2/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$33.99	$12.84	$15.57	$7.99	$0.00	$70.39
2	60.00	$40.78	$12.84	$15.57	$7.99	$0.00	$77.18
3	70.00	$47.58	$12.84	$15.57	$7.99	$0.00	$83.98
4	80.00	$54.38	$12.84	$15.57	$7.99	$0.00	$90.78
5	90.00	$61.17	$12.84	$15.57	$7.99	$0.00	$97.57

Apprentice: TERRAZZO MECHANIC

Effective Date: 8/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$35.09	$12.84	$15.57	$7.99	$0.00	$71.49
2	60.00	$42.10	$12.84	$15.57	$7.99	$0.00	$78.50

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: TERRAZZO MECHANIC							
Effective Date: 8/1/2026							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
3 / 70.00		$49.12	$12.84	$15.57	$7.99	$0.00	$85.52
4 / 80.00		$56.14	$12.84	$15.57	$7.99	$0.00	$92.54
5 / 90.00		$63.15	$12.84	$15.57	$7.99	$0.00	$99.55
Apprentice to Journeyworker Ratio: 1:5							
TEST BORING DRILLER	6/1/2026	$53.25	$10.90	$9.75	$9.80	$0.00	$83.70
LABORERS LABORERS - FOUNDATION AND MARINE	12/1/2026	$54.75	$10.90	$9.75	$9.80	$0.00	$85.20
For apprentice rates see "Apprentice- LABORER"							
TEST BORING DRILLER HELPER	6/1/2026	$49.37	$10.90	$9.75	$9.80	$0.00	$79.82
LABORERS LABORERS - FOUNDATION AND MARINE	12/1/2026	$50.87	$10.90	$9.75	$9.80	$0.00	$81.32
For apprentice rates see "Apprentice- LABORER"							
TEST BORING LABORER	6/1/2026	$49.25	$10.90	$9.75	$9.80	$0.00	$79.70
LABORERS LABORERS - FOUNDATION AND MARINE	12/1/2026	$50.75	$10.90	$9.75	$9.80	$0.00	$81.20
For apprentice rates see "Apprentice- LABORER"							
TRACTORS	12/1/2023	$38.42	$13.78	$12.15	$3.00	$0.00	$67.35
OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
TRAILERS FOR EARTH MOVING EQUIPMENT	6/1/2026	$42.82	$16.17	$21.78	$0.00	$0.00	$80.77
TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	12/1/2026	$42.82	$16.17	$23.52	$0.00	$0.00	$82.51
	1/1/2027	$42.82	$16.77	$23.52	$0.00	$0.00	$83.11
TUNNEL WORK - COMPRESSED AIR	6/1/2026	$61.48	$10.90	$9.75	$10.25	$0.00	$92.38
LABORERS LABORERS (COMPRESSED AIR)	12/1/2026	$62.98	$10.90	$9.75	$10.25	$0.00	$93.88
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE)	6/1/2026	$63.48	$10.90	$9.75	$10.25	$0.00	$94.38
LABORERS LABORERS (COMPRESSED AIR)	12/1/2026	$64.98	$10.90	$9.75	$10.25	$0.00	$95.88
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - FREE AIR	6/1/2026	$53.55	$10.90	$9.75	$10.25	$0.00	$84.45
LABORERS LABORERS (FREE AIR TUNNEL)	12/1/2026	$55.05	$10.90	$9.75	$10.25	$0.00	$85.95
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - FREE AIR (HAZ. WASTE)	6/1/2026	$55.55	$10.90	$9.75	$10.25	$0.00	$86.45
LABORERS LABORERS (FREE AIR TUNNEL)	12/1/2026	$57.05	$10.90	$9.75	$10.25	$0.00	$87.95
For apprentice rates see "Apprentice- LABORER"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
VAC-HAUL TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$42.24	$16.17	$21.78	$0.00	$0.00	$80.19
	12/1/2026	$42.24	$16.17	$23.52	$0.00	$0.00	$81.93
	1/1/2027	$42.24	$16.77	$23.52	$0.00	$0.00	$82.53
WAGON DRILL OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
WATER METER INSTALLER PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$56.26	$12.00	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"							

Marine Drilling

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

Op Eng Marine (Dredging Work)

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

Additional Apprentice Information

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

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

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

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

MAURA HEALEY
Governor
KIM DRISCOLL
Lt. Governor

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

LAUREN JONES
Secretary
MICHAEL FLANAGAN
Director

Awarding Authority:	Massachusetts Highway	**City/Town:**	MIDDLEFIELD
Contract Number:	135582		
Description of Work:	CHESTERFIELD-HINSDALE-MIDDLEFIELD-PITTSFIELD – Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 2)		
Job Location:	Municipal Bridges at Multiple locations		

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 form 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

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
(2 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$41.95	$16.17	$21.78	$0.00	$0.00	$79.90
	12/1/2026	$41.95	$16.17	$23.52	$0.00	$0.00	$81.64
	1/1/2027	$41.95	$16.77	$23.52	$0.00	$0.00	$82.24
(3 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$42.02	$16.17	$21.78	$0.00	$0.00	$79.97
	12/1/2026	$42.02	$16.17	$23.52	$0.00	$0.00	$81.71
	1/1/2027	$42.02	$16.77	$23.52	$0.00	$0.00	$82.31
(4 & 5 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$42.14	$16.17	$21.78	$0.00	$0.00	$80.09
	12/1/2026	$42.14	$16.17	$23.52	$0.00	$0.00	$81.83
	1/1/2027	$42.14	$16.77	$23.52	$0.00	$0.00	$82.43
ADS/SUBMERSIBLE PILOT PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3) For apprentice rates see "Apprentice- PILE DRIVER"	8/1/2024	$117.16	$10.08	$11.62	$12.67	$0.00	$151.53
AIR TRACK OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	6/1/2026	$36.97	$10.90	$9.75	$6.60	$0.00	$64.22
	12/1/2026	$39.39	$10.90	$9.75	$6.60	$0.00	$66.64
	6/1/2027	$40.79	$10.90	$9.75	$6.60	$0.00	$68.04
	12/1/2027	$42.19	$10.90	$9.75	$6.60	$0.00	$69.44
	6/1/2028	$43.69	$10.90	$9.75	$6.60	$0.00	$70.94
	12/1/2028	$45.19	$10.90	$9.75	$6.60	$0.00	$72.44
AIR TRACK OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY) For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"	6/1/2026	$37.75	$10.90	$9.75	$6.60	$0.00	$65.00
	12/1/2026	$39.04	$10.90	$9.75	$6.60	$0.00	$66.29
ASBESTOS WORKER (PIPES & TANKS) HEAT & FROST INSULATORS LOCAL 6 HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)	12/1/2025	$40.32	$14.50	$4.30	$6.25	$0.00	$65.37
ASPHALT RAKER LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
ASPHALT RAKER (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY) For apprentice rates see "Apprentice- LABORER (Heavy and Highway)	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
AUTOMATIC GRADER-EXCAVATOR (RECLAIMER) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
BACKHOE/FRONT-END LOADER OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
BARCO-TYPE JUMPING TAMPER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
BATCH/CEMENT PLANT - ON SITE OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
BLOCK PAVER, RAMMER / CURB SETTER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.97	$10.90	$9.75	$6.60	$0.00	$64.22
	12/1/2026	$39.39	$10.90	$9.75	$6.60	$0.00	$66.64
	6/1/2027	$40.79	$10.90	$9.75	$6.60	$0.00	$68.04
	12/1/2027	$42.19	$10.90	$9.75	$6.60	$0.00	$69.44
	6/1/2028	$43.69	$10.90	$9.75	$6.60	$0.00	$70.94
	12/1/2028	$45.19	$10.90	$9.75	$6.60	$0.00	$72.44
For apprentice rates see "Apprentice- LABORER"							
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY) For apprentice rates see "Apprentice- LABORER (Heavy and Highway)	6/1/2026	$37.75	$10.90	$9.75	$6.60	$0.00	$65.00
	12/1/2026	$39.04	$10.90	$9.75	$6.60	$0.00	$66.29
BOILER MAKER BOILERMAKERS LOCAL 29 BOILERMAKERS LOCAL 29	1/1/2024	$48.12	$7.07	$14.60	$6.00	$0.00	$75.79

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING) BRICKLAYERS LOCAL 3 BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)	2/1/2026	$56.36	$12.84	$15.57	$5.89	$0.00	$90.66
	8/1/2026	$58.56	$12.84	$15.57	$5.89	$0.00	$92.86
	2/1/2027	$59.96	$12.84	$15.57	$5.89	$0.00	$94.26

Apprentice: BOILER MAKER

Effective Date: 1/1/2024

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

Apprentice to Journeyworker Ratio: 1:4

Apprentice: BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)

Effective Date: 2/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$28.18	$12.84	$15.57	$5.89	$0.00	$62.48
2	60.00	$33.82	$12.84	$15.57	$5.89	$0.00	$68.12
3	70.00	$39.45	$12.84	$15.57	$5.89	$0.00	$73.75
4	80.00	$45.09	$12.84	$15.57	$5.89	$0.00	$79.39
5	90.00	$50.72	$12.84	$15.57	$5.89	$0.00	$85.02

Apprentice: BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)

Effective Date: 8/1/2026

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

Apprentice to Journeyworker Ratio: 1:5

BULLDOZER/POWER SHOVEL/TREE SHREDDER /CLAM SHELL OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
CAISSON & UNDERPINNING BOTTOM MAN LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2026	$50.40	$10.90	$9.75	$9.80	$0.00	$80.85
	12/1/2026	$51.90	$10.90	$9.75	$9.80	$0.00	$82.35
For apprentice rates see "Apprentice- LABORER"							
CAISSON & UNDERPINNING LABORER LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2026	$49.25	$10.90	$9.75	$9.80	$0.00	$79.70
	12/1/2026	$50.75	$10.90	$9.75	$9.80	$0.00	$81.20
For apprentice rates see "Apprentice- LABORER"							
CAISSON & UNDERPINNING TOP MAN LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2026	$49.58	$10.90	$9.75	$9.80	$0.00	$80.03
	12/1/2026	$51.08	$10.90	$9.75	$9.80	$0.00	$81.53
For apprentice rates see "Apprentice- LABORER"							
CARBIDE CORE DRILL OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
CARPENTER CARPENTERS CARPENTERS LOCAL 336 - HAMPDEN HAMPSHIRE FRANKLIN	3/1/2026	$43.81	$9.19	$11.25	$6.90	$0.00	$71.15
	9/1/2026	$44.76	$9.19	$11.25	$6.90	$0.00	$72.10
	3/1/2027	$45.66	$9.19	$11.25	$6.90	$0.00	$73.00

Apprentice: CARPENTER

Effective Date: 3/1/2026

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

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
CARPENTER WOOD FRAME CARPENTERS CARPENTERS-ZONE 3 (Wood Frame)	10/1/2025	$27.37	$7.38	$4.47	$1.00	$0.00	$40.22
	10/1/2026	$28.47	$7.38	$4.47	$1.00	$0.00	$41.32

All Aspects of New Wood Frame Work

Apprentice: CARPENTER

Effective Date: 9/1/2026

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

Apprentice to Journeyworker Ratio: 1:5

Apprentice: CARPENTER WOOD FRAME

Effective Date: 10/1/2025

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

Apprentice: CARPENTER WOOD FRAME

Effective Date: 10/1/2026

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

Apprentice to Journeyworker Ratio: 1:5

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
CEMENT MASONRY/PLASTERING	7/1/2026	$49.32	$13.20	$16.30	$2.93	$1.69	$83.44
PLASTERERS AND CEMENT MASONS LOCAL 534	1/1/2027	$50.51	$13.20	$16.30	$2.93	$1.69	$84.63
Plasterers and Cement Masons - Zone 2	7/1/2027	$51.70	$13.20	$16.30	$2.93	$1.69	$85.82
	1/1/2028	$52.89	$13.20	$16.30	$2.93	$1.69	$87.01

Apprentice: CEMENT MASONRY/PLASTERING

Effective Date: 7/1/2026

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

Apprentice: CEMENT MASONRY/PLASTERING

Effective Date: 1/1/2027

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

Apprentice to Journeyworker Ratio: 1:5

CHAIN SAW OPERATOR	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
LABORERS	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19

For apprentice rates see "Apprentice- LABORER"

COMPRESSOR OPERATOR	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
CRANE OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$43.06	$13.78	$12.15	$3.00	$0.00	$71.99
DELEADER (BRIDGE) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$59.56	$10.35	$12.00	$12.60	$0.00	$94.51

Apprentice: DELEADER (BRIDGE)

Effective Date: 1/1/2026

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

Apprentice to Journeyworker Ratio: 1:1

DEMO: ADZEMAN LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	6/1/2026	$49.30	$10.90	$9.75	$9.65	$0.00	$79.60
	12/7/2026	$50.80	$10.90	$9.75	$9.65	$0.00	$81.10
	6/7/2027	$52.40	$10.90	$9.75	$9.65	$0.00	$82.70
	12/6/2027	$54.00	$10.90	$9.75	$9.65	$0.00	$84.30
	6/5/2028	$55.68	$10.90	$9.75	$9.65	$0.00	$85.98
	12/4/2028	$57.35	$10.90	$9.75	$9.65	$0.00	$87.65
DEMO: BACKHOE/LOADER/HAMMER OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	6/1/2026	$50.30	$10.90	$9.75	$9.65	$0.00	$80.60
	12/7/2026	$51.80	$10.90	$9.75	$9.65	$0.00	$82.10
	6/7/2027	$53.40	$10.90	$9.75	$9.65	$0.00	$83.70
	12/6/2027	$55.00	$10.90	$9.75	$9.65	$0.00	$85.30
	6/5/2028	$56.68	$10.90	$9.75	$9.65	$0.00	$86.98
	12/4/2028	$58.35	$10.90	$9.75	$9.65	$0.00	$88.65
DEMO: BURNERS LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$50.05	$10.90	$9.75	$9.65	$0.00	$80.35
	12/7/2026	$51.55	$10.90	$9.75	$9.65	$0.00	$81.85
	6/7/2027	$53.15	$10.90	$9.75	$9.65	$0.00	$83.45
	12/6/2027	$54.75	$10.90	$9.75	$9.65	$0.00	$85.05
	6/5/2028	$56.43	$10.90	$9.75	$9.65	$0.00	$86.73
	12/4/2028	$58.10	$10.90	$9.75	$9.65	$0.00	$88.40

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- LABORER"							
DEMO: CONCRETE CUTTER/SAWYER	6/1/2026	$50.30	$10.90	$9.75	$9.65	$0.00	$80.60
LABORERS	12/7/2026	$51.80	$10.90	$9.75	$9.65	$0.00	$82.10
LABORERS - ZONE 4 (BUILDING & SITE)	6/7/2027	$53.40	$10.90	$9.75	$9.65	$0.00	$83.70
	12/6/2027	$55.00	$10.90	$9.75	$9.65	$0.00	$85.30
	6/5/2028	$56.68	$10.90	$9.75	$9.65	$0.00	$86.98
	12/4/2028	$58.35	$10.90	$9.75	$9.65	$0.00	$88.65
For apprentice rates see "Apprentice- LABORER"							
DEMO: JACKHAMMER OPERATOR	6/1/2026	$50.05	$10.90	$9.75	$9.65	$0.00	$80.35
LABORERS	12/7/2026	$51.55	$10.90	$9.75	$9.65	$0.00	$81.85
LABORERS - ZONE 4 (BUILDING & SITE)	6/7/2027	$53.15	$10.90	$9.75	$9.65	$0.00	$83.45
	12/6/2027	$54.75	$10.90	$9.75	$9.65	$0.00	$85.05
	6/5/2028	$56.43	$10.90	$9.75	$9.65	$0.00	$86.73
	12/4/2028	$58.10	$10.90	$9.75	$9.65	$0.00	$88.40
For apprentice rates see "Apprentice- LABORER"							
DEMO: WRECKING LABORER	6/1/2026	$49.30	$10.90	$9.75	$9.65	$0.00	$79.60
LABORERS	12/7/2026	$50.80	$10.90	$9.75	$9.65	$0.00	$81.10
LABORERS - ZONE 4 (BUILDING & SITE)	6/7/2027	$52.40	$10.90	$9.75	$9.65	$0.00	$82.70
	12/6/2027	$54.00	$10.90	$9.75	$9.65	$0.00	$84.30
	6/5/2028	$55.68	$10.90	$9.75	$9.65	$0.00	$85.98
	12/4/2028	$57.35	$10.90	$9.75	$9.65	$0.00	$87.65
For apprentice rates see "Apprentice- LABORER"							
DIVER	8/1/2024	$78.11	$10.08	$11.62	$12.67	$0.00	$112.48
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
as of 8-1-24, Apprentices with diving licenses begin at second year. % of Diver wage 70/80/90 2A $69.83, 3A $91.79,4A $102.14 Total Rate							
DIVER TENDER	8/1/2024	$49.19	$10.08	$11.62	$12.67	$0.00	$83.56
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
as of 8-1-24, Apprentices with diving licenses begin at second year. % of Piledriver wage 70/80/90 2A $54.20, 3A $73.93,4A $82.05 Total Rate							
DIVER TENDER (EFFLUENT)	8/1/2024	$83.69	$10.08	$11.62	$12.67	$0.00	$118.06
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
For apprentice rates see "Apprentice- PILE DRIVER"							
DIVER/SLURRY (EFFLUENT)	8/1/2024	$117.16	$10.08	$11.62	$12.67	$0.00	$151.53
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
For apprentice rates see "Apprentice- PILE DRIVER"							
DRAWBRIDGE OPERATOR (Construction)	7/1/2020	$26.77	$6.67	$3.93	$0.00	$0.16	$37.53
DRAWBRIDGE - SEIU LOCAL 888							
DRAWBRIDGE - SEIU LOCAL 888							
ELECTRICIAN (Including Core Drilling)	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
ELECTRICIANS LOCAL 7	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
ELECTRICIANS LOCAL 7							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: ELECTRICIAN (Including Core Drilling)

Effective Date: 6/28/2026

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

Apprentice: ELECTRICIAN (Including Core Drilling)

Effective Date: 1/3/2027

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

Apprentice to Journeyworker Ratio: 2:3

ELEVATOR CONSTRUCTOR	1/1/2026	$69.23	$16.38	$11.06	$10.70	$0.00	$107.37
ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2027	$72.23	$16.48	$11.16	$11.00	$0.00	$110.87
ELEVATOR CONSTRUCTORS LOCAL 41							

Apprentice: ELEVATOR CONSTRUCTOR

Effective Date: 1/1/2026

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

Apprentice: ELEVATOR CONSTRUCTOR

Effective Date: 1/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$36.12	$16.48	$0.00	$0.00	$0.00	$52.60
2	55.00	$39.73	$16.48	$11.16	$11.00	$0.00	$78.37
3	65.00	$46.95	$16.48	$11.16	$11.00	$0.00	$85.59

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: ELEVATOR CONSTRUCTOR							
Effective Date: 1/1/2027							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
4 / 70.00		$50.56	$16.48	$11.16	$11.00	$0.00	$89.20
5 / 80.00		$57.78	$16.48	$11.16	$11.00	$0.00	$96.42
Apprentice to Journeyworker Ratio: 1:1							
ELEVATOR CONSTRUCTOR HELPER ELEVATOR CONSTRUCTORS LOCAL 41 ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2026	$48.46	$16.38	$11.06	$10.70	$0.00	$86.60
	1/1/2027	$50.56	$16.48	$11.16	$11.00	$0.00	$89.20
For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"							
FENCE & BEAM RAIL ERECTOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$44.69	$10.90	$9.75	$6.60	$0.00	$71.94
For apprentice rates see "Apprentice- LABORER"							
FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
FIELD ENG.INST/ROD-BLDG,SITE,HVY/HWY OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	6/1/1999	$18.84	$4.80	$4.10	$0.00	$0.00	$27.74
FIELD ENG.PARTY CHIEF:BLDG,SITE,HVY/HWY OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	6/1/1999	$21.33	$4.80	$4.10	$0.00	$0.00	$30.23
FIELD ENG.SURVEY CHIEF-BLDG,SITE,HVY/HWY OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	6/1/1999	$22.33	$4.80	$4.10	$0.00	$0.00	$31.23
FIRE ALARM INSTALLER ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
For apprentice rates see "Apprentice- ELECTRICIAN"							
FIRE ALARM REPAIR / MAINTENANCE / COMMISSIONING ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"							
FIREMAN OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: FIREMAN

Effective Date: 12/1/2023

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

Apprentice to Journeyworker Ratio: 1:6

FLAGGER & SIGNALER (HEAVY & HIGHWAY)	6/1/2026	$29.21	$10.90	$9.75	$6.60	$0.00	$56.46
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/1/2026	$29.21	$10.90	$9.75	$6.60	$0.00	$56.46
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
FLOORCOVERER	3/1/2026	$44.34	$8.56	$11.25	$6.90	$0.00	$71.05
FLOORCOVERERS LOCAL 2168 FLOORCOVERERS LOCAL 2168 ZONE III	9/1/2026	$45.29	$8.56	$11.25	$6.90	$0.00	$72.00
	3/1/2027	$46.19	$8.56	$11.25	$6.90	$0.00	$72.90

Apprentice: FLOORCOVERER

Effective Date: 3/1/2026

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

Apprentice: FLOORCOVERER

Effective Date: 9/1/2026

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

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice Notes

Steps are 750 hrs.

Apprentice to Journeyworker Ratio: 1:1

FORK LIFT OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.25	$13.78	$12.15	$3.00	$0.00	$68.18
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
GENERATORS/LIGHTING PLANTS OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$35.80	$13.78	$12.15	$3.00	$0.00	$64.73
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS) GLAZIERS LOCAL 1333 GLAZIERS LOCAL 1333	6/1/2026	$44.73	$11.20	$8.40	$6.05	$0.00	$70.38
	6/1/2027	$46.73	$11.60	$8.55	$6.60	$0.00	$73.48
	6/1/2028	$48.73	$12.00	$8.70	$7.20	$0.00	$76.63

Apprentice: GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)

Effective Date: 6/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$22.37	$11.20	$8.40	$6.05	$0.00	$48.02
2	56.25	$25.16	$11.20	$8.40	$6.05	$0.00	$50.81
3	62.50	$27.96	$11.20	$8.40	$6.05	$0.00	$53.61
4	68.75	$30.75	$11.20	$8.40	$6.05	$0.00	$56.40
5	75.00	$33.55	$11.20	$8.40	$6.05	$0.00	$59.20
6	81.25	$36.34	$11.20	$8.40	$6.05	$0.00	$61.99
7	87.50	$39.14	$11.20	$8.40	$6.05	$0.00	$64.79
8	93.75	$41.93	$11.20	$8.40	$6.05	$0.00	$67.58

Apprentice: GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)

Effective Date: 6/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$23.37	$11.60	$8.55	$6.60	$0.00	$50.12
2	56.25	$26.29	$11.60	$8.55	$6.60	$0.00	$53.04
3	62.50	$29.21	$11.60	$8.55	$6.60	$0.00	$55.96
4	68.75	$32.13	$11.60	$8.55	$6.60	$0.00	$58.88
5	75.00	$35.05	$11.60	$8.55	$6.60	$0.00	$61.80
6	81.25	$37.97	$11.60	$8.55	$6.60	$0.00	$64.72
7	87.50	$40.89	$11.60	$8.55	$6.60	$0.00	$67.64
8	93.75	$43.81	$11.60	$8.55	$6.60	$0.00	$70.56

Apprentice to Journeyworker Ratio: 3:1

GRADER/TRENCHING MACHINE/DERRICK	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
HVAC (DUCTWORK) SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63	7/1/2026	$43.48	$13.24	$11.01	$9.92	$2.13	$79.78
	1/1/2027	$43.48	$13.54	$11.01	$11.12	$2.13	$81.28
	7/1/2027	$44.98	$13.54	$11.01	$11.12	$2.13	$82.78
	1/1/2028	$46.48	$13.54	$11.01	$11.12	$2.13	$84.28
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (ELECTRICAL CONTROLS) ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
For apprentice rates see "Apprentice- ELECTRICIAN"							
HVAC (TESTING AND BALANCING - AIR) SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63	7/1/2026	$43.48	$13.24	$11.01	$9.92	$2.13	$79.78
	1/1/2027	$43.48	$13.54	$11.01	$11.12	$2.13	$81.28
	7/1/2027	$44.98	$13.54	$11.01	$11.12	$2.13	$82.78
	1/1/2028	$46.48	$13.54	$11.01	$11.12	$2.13	$84.28
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (TESTING AND BALANCING -WATER) PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
HVAC MECHANIC PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
HYDRAULIC DRILLS (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.75	$10.90	$9.75	$6.60	$0.00	$65.00
	12/1/2026	$39.04	$10.90	$9.75	$6.60	$0.00	$66.29
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
INSULATOR (PIPES & TANKS) HEAT & FROST INSULATORS LOCAL 6 HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)	9/1/2025	$48.27	$14.75	$9.52	$10.09	$0.00	$82.63
	9/1/2026	$51.01	$14.75	$9.52	$10.09	$0.00	$85.37

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: INSULATOR (PIPES & TANKS)

Effective Date: 9/1/2025

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

Apprentice: INSULATOR (PIPES & TANKS)

Effective Date: 9/1/2026

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

Apprentice to Journeyworker Ratio: 1:4

IRONWORKER/WELDER IRONWORKERS LOCAL 7 IRONWORKERS LOCAL 7 (SPRINGFIELD AREA)	3/16/2026	$42.46	$9.25	$12.75	$11.25	$0.00	$75.71

Apprentice: IRONWORKER/WELDER

Effective Date: 3/16/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	70.00	$29.72	$9.25	$12.75	$1.25	$0.00	$52.97
2	80.00	$33.97	$9.25	$12.75	$1.25	$0.00	$57.22
3	90.00	$38.21	$9.25	$12.75	$1.25	$0.00	$61.46
4	0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
5	0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00
6	0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00

Apprentice to Journeyworker Ratio: 1:4

JACKHAMMER & PAVING BREAKER OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19

For apprentice rates see "Apprentice- LABORER"

LABORER	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69

Apprentice: LABORER

Effective Date: 6/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$21.73	$10.90	$9.75	$6.60	$0.00	$48.98
2	70.00	$25.35	$10.90	$9.75	$6.60	$0.00	$52.60
3	80.00	$28.98	$10.90	$9.75	$6.60	$0.00	$56.23
4	90.00	$32.60	$10.90	$9.75	$6.60	$0.00	$59.85

Apprentice: LABORER

Effective Date: 12/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$23.18	$10.90	$9.75	$6.60	$0.00	$50.43
2	70.00	$27.05	$10.90	$9.75	$6.60	$0.00	$54.30
3	80.00	$30.91	$10.90	$9.75	$6.60	$0.00	$58.16
4	90.00	$34.78	$10.90	$9.75	$6.60	$0.00	$62.03

Apprentice to Journeyworker Ratio: 1:5

LABORER (HEAVY & HIGHWAY)	6/1/2026	$37.00	$10.90	$9.75	$6.60	$0.00	$64.25
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/1/2026	$38.29	$10.90	$9.75	$6.60	$0.00	$65.54

Apprentice: LABORER (HEAVY & HIGHWAY)

Effective Date: 6/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$22.20	$10.90	$9.75	$6.60	$0.00	$49.45
2	70.00	$25.90	$10.90	$9.75	$6.60	$0.00	$53.15
3	80.00	$29.60	$10.90	$9.75	$6.60	$0.00	$56.85
4	90.00	$33.30	$10.90	$9.75	$6.60	$0.00	$60.55

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: LABORER (HEAVY & HIGHWAY)							
Effective Date: 12/1/2026							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
1 / 60.00		$22.97	$10.90	$9.75	$6.60	$0.00	$50.22
2 / 70.00		$26.80	$10.90	$9.75	$6.60	$0.00	$54.05
3 / 80.00		$30.63	$10.90	$9.75	$6.60	$0.00	$57.88
4 / 90.00		$34.46	$10.90	$9.75	$6.60	$0.00	$61.71
Apprentice to Journeyworker Ratio: 1:5							
LABORER: CARPENTER TENDER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: CEMENT FINISHER TENDER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$35.67	$10.90	$9.75	$5.41	$0.00	$61.73
	12/1/2026	$36.96	$10.90	$9.75	$5.41	$0.00	$63.02
	6/1/2027	$38.26	$10.90	$9.75	$5.41	$0.00	$64.32
	12/1/2027	$39.56	$10.90	$9.75	$5.41	$0.00	$65.62
	6/5/2028	$40.91	$10.90	$9.75	$5.41	$0.00	$66.97
	12/4/2028	$42.26	$10.90	$9.75	$5.41	$0.00	$68.32
For apprentice rates see "Apprentice- LABORER"							
LABORER: MASON TENDER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$38.22	$10.90	$9.75	$6.60	$0.00	$65.47
	12/1/2026	$40.64	$10.90	$9.75	$6.60	$0.00	$67.89
	6/1/2027	$42.04	$10.90	$9.75	$6.60	$0.00	$69.29
	12/1/2027	$43.44	$10.90	$9.75	$6.60	$0.00	$70.69
	6/1/2028	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
	12/1/2028	$46.44	$10.90	$9.75	$6.60	$0.00	$73.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: MASON TENDER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
LABORER: MULTI-TRADE TENDER	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: TREE REMOVER	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
This classification applies to the removal of standing trees, and the trimming and removal of branches and limbs when related to public works construction or site clearance incidental to construction . For apprentice rates see "Apprentice- LABORER"							
LASER BEAM OPERATOR	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
LASER BEAM OPERATOR (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
MARBLE & TILE FINISHERS	2/1/2026	$45.56	$12.84	$15.10	$5.41	$0.00	$78.91
BRICKLAYERS LOCAL 3 BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	8/1/2026	$47.32	$12.84	$15.10	$5.41	$0.00	$80.67
	2/1/2027	$48.44	$12.84	$15.10	$5.41	$0.00	$81.79

Apprentice: MARBLE & TILE FINISHERS

Effective Date: 2/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$22.78	$12.84	$15.10	$5.41	$0.00	$56.13
2	60.00	$27.34	$12.84	$15.10	$5.41	$0.00	$60.69
3	70.00	$31.89	$12.84	$15.10	$5.41	$0.00	$65.24
4	80.00	$36.45	$12.84	$15.10	$5.41	$0.00	$69.80
5	90.00	$41.00	$12.84	$15.10	$5.41	$0.00	$74.35

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: MARBLE & TILE FINISHERS

Effective Date: 8/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$23.66	$12.84	$15.10	$5.41	$0.00	$57.01
2	60.00	$28.39	$12.84	$15.10	$5.41	$0.00	$61.74
3	70.00	$33.12	$12.84	$15.10	$5.41	$0.00	$66.47
4	80.00	$37.86	$12.84	$15.10	$5.41	$0.00	$71.21
5	90.00	$42.59	$12.84	$15.10	$5.41	$0.00	$75.94

Apprentice to Journeyworker Ratio: 1:5

MECH. SWEEPER OPERATOR (ON CONST. SITES) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
MECHANIC/WELDER/BOOM TRUCK OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
MILLWRIGHT (Zone 3) MILLWRIGHTS LOCAL 1121 MILLWRIGHTS LOCAL 1121 - Zone 3	1/5/2026	$45.20	$10.58	$11.47	$9.75	$0.00	$77.00

Apprentice: MILLWRIGHT (Zone 3)

Effective Date: 1/5/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	55.00	$24.86	$10.58	$0.00	$5.36	$0.00	$40.80
2	65.00	$29.38	$10.58	$0.00	$6.34	$0.00	$46.30
3	75.00	$33.90	$10.58	$11.47	$7.31	$0.00	$63.26
4	85.00	$38.42	$10.58	$11.47	$8.29	$0.00	$68.76

Apprentice Notes

Step 1&2 Appr. indentured after 1/6/2020 receive no pension,

Apprentice to Journeyworker Ratio: 1:4

MORTAR MIXER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19

For apprentice rates see "Apprentice- LABORER"

OILER OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$35.02	$13.78	$12.15	$3.00	$0.00	$63.95

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

OTHER POWER DRIVEN EQUIPMENT - CLASS VI OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$32.74	$13.78	$12.15	$3.00	$0.00	$61.67

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

PAINTER (BRIDGES/TANKS) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$59.56	$10.35	$12.00	$12.60	$0.00	$94.51

Apprentice: PAINTER (BRIDGES/TANKS)

Effective Date: 1/1/2026

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

Apprentice to Journeyworker Ratio: 1:1

PAINTER (SPRAY OR SANDBLAST, NEW) * * If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$42.03	$10.35	$12.00	$8.35	$0.00	$72.73

Apprentice: PAINTER (SPRAY OR SANDBLAST, NEW) *

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$21.02	$10.35	$0.00	$0.00	$0.00	$31.37
2	55.00	$23.12	$10.35	$0.00	$4.59	$0.00	$38.06
3	60.00	$25.22	$10.35	$0.00	$5.01	$0.00	$40.58

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: PAINTER (SPRAY OR SANDBLAST, NEW) *

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
4	65.00	$27.32	$10.35	$0.00	$5.43	$0.00	$43.10
5	70.00	$29.42	$10.35	$12.00	$5.85	$0.00	$57.62
6	75.00	$31.52	$10.35	$12.00	$6.26	$0.00	$60.13
7	80.00	$33.62	$10.35	$12.00	$6.68	$0.00	$62.65
8	90.00	$37.83	$10.35	$12.00	$7.52	$0.00	$67.70

Apprentice to Journeyworker Ratio: 1:1

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

Apprentice: PAINTER (SPRAY OR SANDBLAST, REPAINT)

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$19.68	$10.35	$0.00	$0.00	$0.00	$30.03
2	55.00	$21.64	$10.35	$0.00	$4.59	$0.00	$36.58
3	60.00	$23.61	$10.35	$0.00	$5.01	$0.00	$38.97
4	65.00	$25.58	$10.35	$0.00	$5.43	$0.00	$41.36
5	70.00	$27.55	$10.35	$12.00	$5.85	$0.00	$55.75
6	75.00	$29.51	$10.35	$12.00	$6.26	$0.00	$58.12
7	80.00	$31.48	$10.35	$12.00	$6.68	$0.00	$60.51
8	90.00	$35.42	$10.35	$12.00	$7.52	$0.00	$65.29

Apprentice to Journeyworker Ratio: 1:1

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

Apprentice: PAINTER / TAPER (BRUSH, NEW) *

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$20.32	$10.35	$0.00	$0.00	$0.00	$30.67
2	55.00	$22.35	$10.35	$0.00	$4.59	$0.00	$37.29
3	60.00	$24.38	$10.35	$0.00	$5.01	$0.00	$39.74
4	65.00	$26.41	$10.35	$0.00	$5.43	$0.00	$42.19
5	70.00	$28.44	$10.35	$12.00	$5.85	$0.00	$56.64
6	75.00	$30.47	$10.35	$12.00	$6.26	$0.00	$59.08
7	80.00	$32.50	$10.35	$12.00	$6.68	$0.00	$61.53

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: PAINTER / TAPER (BRUSH, NEW) *							
Effective Date: 1/1/2026							
Step / Percent		**Apprentice Base Wage**					
8 / 90.00		$36.57	$10.35	$12.00	$7.52	$0.00	$66.44
Apprentice to Journeyworker Ratio: 1:1							
PAINTER / TAPER (BRUSH, REPAINT) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$37.95	$10.35	$12.00	$8.35	$0.00	$68.65
Apprentice: PAINTER / TAPER (BRUSH, REPAINT)							
Effective Date: 1/1/2026							
Step / Percent		**Apprentice Base Wage**					
1 / 50.00		$18.98	$10.35	$0.00	$0.00	$0.00	$29.33
2 / 55.00		$20.87	$10.35	$0.00	$4.59	$0.00	$35.81
3 / 60.00		$22.77	$10.35	$0.00	$5.01	$0.00	$38.13
4 / 65.00		$24.67	$10.35	$0.00	$5.43	$0.00	$40.45
5 / 70.00		$26.57	$10.35	$12.00	$5.85	$0.00	$54.77
6 / 75.00		$28.46	$10.35	$12.00	$6.26	$0.00	$57.07
7 / 80.00		$30.36	$10.35	$12.00	$6.68	$0.00	$59.39
8 / 90.00		$34.16	$10.35	$12.00	$7.52	$0.00	$64.03
Apprentice to Journeyworker Ratio: 1:1							
PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.00	$10.90	$9.75	$6.60	$0.00	$64.25
	12/1/2026	$38.29	$10.90	$9.75	$6.60	$0.00	$65.54
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
PANEL & PICKUP TRUCKS DRIVER TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$41.78	$16.17	$21.78	$0.00	$0.00	$79.73
	12/1/2026	$41.78	$16.17	$23.52	$0.00	$0.00	$81.47
	1/1/2027	$41.78	$16.77	$23.52	$0.00	$0.00	$82.07
PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK) PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$49.19	$10.08	$11.62	$12.67	$0.00	$83.56
For apprentice rates see "Apprentice- PILE DRIVER"							
PILE DRIVER PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$49.19	$10.08	$11.62	$12.67	$0.00	$83.56
Apprentice: PILE DRIVER							
Effective Date: 8/1/2024							
Step / Percent		**Apprentice Base Wage**					

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: PILE DRIVER							
Effective Date: 8/1/2024							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
1 / 45.00		$22.14	$10.08	$0.00	$2.53	$0.00	$34.75
2 / 55.00		$27.05	$10.08	$0.00	$5.07	$0.00	$42.20
3 / 70.00		$34.43	$10.08	$11.62	$7.60	$0.00	$63.73
4 / 80.00		$39.35	$10.08	$11.62	$10.14	$0.00	$71.19
Apprentice to Journeyworker Ratio: 1:5							
PIPELAYER	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
PIPELAYER (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
PLUMBER & PIPEFITTER	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
Apprentice: PLUMBER & PIPEFITTER							
Effective Date: 3/17/2026							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
1 / 45.00		$23.74	$13.50	$10.85	$0.00	$0.00	$48.09
2 / 50.00		$26.38	$13.50	$10.85	$0.00	$0.00	$50.73
3 / 55.00		$29.02	$13.50	$10.85	$0.00	$0.00	$53.37
4 / 60.00		$31.66	$13.50	$10.85	$0.00	$0.00	$56.01

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: PLUMBER & PIPEFITTER

Effective Date: 3/17/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
5	65.00	$34.29	$13.50	$10.85	$0.00	$0.00	$58.64
6	70.00	$36.93	$13.50	$10.85	$0.00	$0.00	$61.28
7	75.00	$39.57	$13.50	$10.85	$0.00	$0.00	$63.92
8	80.00	$42.21	$13.50	$10.85	$0.00	$0.00	$66.56
9	85.00	$44.85	$13.50	$10.85	$7.10	$0.00	$76.30
10	85.00	$44.85	$13.50	$10.85	$7.10	$0.00	$76.30

Apprentice: PLUMBER & PIPEFITTER

Effective Date: 9/17/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$24.64	$13.50	$0.00	$0.00	$0.00	$38.14
2	50.00	$27.38	$13.50	$0.00	$0.00	$0.00	$40.88
3	55.00	$30.12	$13.50	$0.00	$0.00	$0.00	$43.62
4	60.00	$32.86	$13.50	$0.00	$0.00	$0.00	$46.36
5	65.00	$35.59	$13.50	$0.00	$0.00	$0.00	$49.09
6	70.00	$38.33	$13.50	$0.00	$0.00	$0.00	$51.83
7	75.00	$41.07	$13.50	$0.00	$0.00	$0.00	$54.57
8	80.00	$43.81	$13.50	$0.00	$0.00	$0.00	$57.31
9	85.00	$46.55	$13.50	$0.00	$7.10	$0.00	$67.15
10	85.00	$46.55	$13.50	$0.00	$7.10	$0.00	$67.15

Apprentice Notes

**1:1,2:5,3:9,4:12

Apprentice to Journeyworker Ratio: 1:1

PNEUMATIC CONTROLS (TEMP.) PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21

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

PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79

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

POWDERMAN & BLASTER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$37.22	$10.90	$9.75	$6.60	$0.00	$64.47
	12/1/2026	$39.64	$10.90	$9.75	$6.60	$0.00	$66.89
	6/1/2027	$41.04	$10.90	$9.75	$6.60	$0.00	$68.29

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	12/1/2027	$42.44	$10.90	$9.75	$6.60	$0.00	$69.69
	6/1/2028	$43.94	$10.90	$9.75	$6.60	$0.00	$71.19
	12/1/2028	$45.44	$10.90	$9.75	$6.60	$0.00	$72.69
For apprentice rates see "Apprentice- LABORER"							
POWDERMAN & BLASTER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$38.00	$10.90	$9.75	$6.60	$0.00	$65.25
	12/1/2026	$39.29	$10.90	$9.75	$6.60	$0.00	$66.54
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
PUMP OPERATOR (CONCRETE) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
PUMP OPERATOR (DEWATERING, OTHER) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
READY-MIX CONCRETE DRIVER TEAMSTERS 404 - Construction Service (Northampton) TEAMSTERS 404 - Construction Service (Northampton)	5/1/2024	$26.14	$11.82	$7.25	$0.00	$0.00	$45.21
RIDE-ON MOTORIZED BUGGY OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
ROLLER OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$38.42	$13.78	$12.15	$3.00	$0.00	$67.35
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
ROOFER (Coal tar pitch) ROOFERS LOCAL 248 ROOFERS LOCAL 248	7/16/2026	$46.73	$10.60	$8.70	$10.00	$0.00	$76.03
For apprentice rates see "Apprentice- ROOFER"							
ROOFER (Inc.Roofer Waterproofng &Roofer Damproofg) ROOFERS LOCAL 248 ROOFERS LOCAL 248	7/16/2026	$46.23	$10.60	$8.70	$10.00	$0.00	$75.53

Construction

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

Apprentice: SHEETMETAL WORKER

Effective Date: 7/1/2026

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

Apprentice: SHEETMETAL WORKER

Effective Date: 1/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$19.57	$6.09	$4.95	$0.00	$0.85	$31.46
2	50.00	$21.74	$6.77	$5.51	$0.00	$0.94	$34.96
3	55.00	$23.91	$7.45	$9.91	$0.00	$1.15	$42.42
4	60.00	$26.09	$8.36	$9.91	$0.00	$1.23	$45.59
5	65.00	$28.26	$8.86	$9.91	$0.00	$1.31	$48.34

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: SHEETMETAL WORKER							
Effective Date: 1/1/2027							
Step / Percent		**Apprentice Base Wage**					
6 / 70.00		$30.44	$9.48	$9.91	$0.00	$1.39	$51.22
7 / 75.00		$32.61	$10.15	$9.91	$0.00	$1.47	$54.14
8 / 80.00		$34.78	$10.83	$9.91	$11.12	$1.78	$68.42
9 / 85.00		$36.96	$11.51	$9.91	$11.12	$1.86	$71.36
10 / 90.00		$39.13	$12.18	$9.91	$11.12	$1.94	$74.28
Apprentice to Journeyworker Ratio: 1:3							
SPECIALIZED EARTH MOVING EQUIP < 35 TONS	6/1/2026	$42.24	$16.17	$21.78	$0.00	$0.00	$80.19
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	$42.24	$16.17	$23.52	$0.00	$0.00	$81.93
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	$42.24	$16.77	$23.52	$0.00	$0.00	$82.53
SPECIALIZED EARTH MOVING EQUIP > 35 TONS	6/1/2026	$42.53	$16.17	$21.78	$0.00	$0.00	$80.48
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	$42.53	$16.17	$23.52	$0.00	$0.00	$82.22
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	$42.53	$16.77	$23.52	$0.00	$0.00	$82.82
SPRINKLER FITTER	7/1/2026	$56.54	$13.60	$7.45	$9.41	$0.00	$87.00
SPRINKLER FITTERS LOCAL 669	10/1/2026	$56.54	$13.60	$7.45	$9.41	$0.00	$87.00
SPRINKLER FITTERS LOCAL 669	1/1/2027	$56.54	$14.55	$7.50	$9.41	$0.00	$88.00
	4/1/2027	$59.83	$14.55	$7.50	$9.41	$0.00	$91.29
	7/1/2027	$59.83	$14.55	$7.50	$9.41	$0.00	$91.29
	10/1/2027	$59.83	$14.55	$7.50	$9.41	$0.00	$91.29
	1/1/2028	$59.83	$15.50	$7.55	$9.41	$0.00	$92.29

Apprentice: SPRINKLER FITTER

Effective Date: 7/1/2026

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

Apprentice: SPRINKLER FITTER

Effective Date: 10/1/2026

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

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: SPRINKLER FITTER

Effective Date: 10/1/2026

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

Apprentice to Journeyworker Ratio: 1:1

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

For apprentice rates and ratios see "Apprentice- ELECTRICIAN"

Apprentice: TELECOMMUNICATION TECHNICIAN

Effective Date: 6/28/2026

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

Apprentice: TELECOMMUNICATION TECHNICIAN

Effective Date: 1/3/2027

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

Apprentice to Journeyworker Ratio: 1:1

TERRAZZO FINISHERS	2/10/2026	$66.89	$12.84	$15.57	$8.02	$0.00	$103.32

Construction

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

Apprentice: TERRAZZO FINISHERS

Effective Date: 2/10/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$33.45	$12.84	$15.57	$8.02	$0.00	$69.88
2	60.00	$40.13	$12.84	$15.57	$8.02	$0.00	$76.56
3	70.00	$46.82	$12.84	$15.57	$8.02	$0.00	$83.25
4	80.00	$53.51	$12.84	$15.57	$8.02	$0.00	$89.94
5	90.00	$60.20	$12.84	$15.57	$8.02	$0.00	$96.63

Apprentice: TERRAZZO FINISHERS

Effective Date: 8/1/2026

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

Apprentice to Journeyworker Ratio: 1:5

TERRAZZO MECHANIC	2/1/2026	$67.97	$12.84	$15.57	$7.99	$0.00	$104.37
BRICKLAYERS LOCAL 3	8/1/2026	$70.17	$12.84	$15.57	$7.99	$0.00	$106.57
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	2/1/2027	$71.57	$12.84	$15.57	$7.99	$0.00	$107.97

Apprentice: TERRAZZO MECHANIC

Effective Date: 2/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$33.99	$12.84	$15.57	$7.99	$0.00	$70.39
2	60.00	$40.78	$12.84	$15.57	$7.99	$0.00	$77.18
3	70.00	$47.58	$12.84	$15.57	$7.99	$0.00	$83.98
4	80.00	$54.38	$12.84	$15.57	$7.99	$0.00	$90.78
5	90.00	$61.17	$12.84	$15.57	$7.99	$0.00	$97.57

Apprentice: TERRAZZO MECHANIC

Effective Date: 8/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$35.09	$12.84	$15.57	$7.99	$0.00	$71.49
2	60.00	$42.10	$12.84	$15.57	$7.99	$0.00	$78.50

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: TERRAZZO MECHANIC							
Effective Date: 8/1/2026							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
3 / 70.00		$49.12	$12.84	$15.57	$7.99	$0.00	$85.52
4 / 80.00		$56.14	$12.84	$15.57	$7.99	$0.00	$92.54
5 / 90.00		$63.15	$12.84	$15.57	$7.99	$0.00	$99.55
Apprentice to Journeyworker Ratio: 1:5							
TEST BORING DRILLER	6/1/2026	$53.25	$10.90	$9.75	$9.80	$0.00	$83.70
LABORERS LABORERS - FOUNDATION AND MARINE	12/1/2026	$54.75	$10.90	$9.75	$9.80	$0.00	$85.20
For apprentice rates see "Apprentice- LABORER"							
TEST BORING DRILLER HELPER	6/1/2026	$49.37	$10.90	$9.75	$9.80	$0.00	$79.82
LABORERS LABORERS - FOUNDATION AND MARINE	12/1/2026	$50.87	$10.90	$9.75	$9.80	$0.00	$81.32
For apprentice rates see "Apprentice- LABORER"							
TEST BORING LABORER	6/1/2026	$49.25	$10.90	$9.75	$9.80	$0.00	$79.70
LABORERS LABORERS - FOUNDATION AND MARINE	12/1/2026	$50.75	$10.90	$9.75	$9.80	$0.00	$81.20
For apprentice rates see "Apprentice- LABORER"							
TRACTORS	12/1/2023	$38.42	$13.78	$12.15	$3.00	$0.00	$67.35
OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
TRAILERS FOR EARTH MOVING EQUIPMENT	6/1/2026	$42.82	$16.17	$21.78	$0.00	$0.00	$80.77
TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	12/1/2026	$42.82	$16.17	$23.52	$0.00	$0.00	$82.51
	1/1/2027	$42.82	$16.77	$23.52	$0.00	$0.00	$83.11
TUNNEL WORK - COMPRESSED AIR	6/1/2026	$61.48	$10.90	$9.75	$10.25	$0.00	$92.38
LABORERS LABORERS (COMPRESSED AIR)	12/1/2026	$62.98	$10.90	$9.75	$10.25	$0.00	$93.88
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE)	6/1/2026	$63.48	$10.90	$9.75	$10.25	$0.00	$94.38
LABORERS LABORERS (COMPRESSED AIR)	12/1/2026	$64.98	$10.90	$9.75	$10.25	$0.00	$95.88
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - FREE AIR	6/1/2026	$53.55	$10.90	$9.75	$10.25	$0.00	$84.45
LABORERS LABORERS (FREE AIR TUNNEL)	12/1/2026	$55.05	$10.90	$9.75	$10.25	$0.00	$85.95
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - FREE AIR (HAZ. WASTE)	6/1/2026	$55.55	$10.90	$9.75	$10.25	$0.00	$86.45
LABORERS LABORERS (FREE AIR TUNNEL)	12/1/2026	$57.05	$10.90	$9.75	$10.25	$0.00	$87.95
For apprentice rates see "Apprentice- LABORER"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
VAC-HAUL TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$42.24	$16.17	$21.78	$0.00	$0.00	$80.19
	12/1/2026	$42.24	$16.17	$23.52	$0.00	$0.00	$81.93
	1/1/2027	$42.24	$16.77	$23.52	$0.00	$0.00	$82.53
WAGON DRILL OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
WATER METER INSTALLER PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$56.26	$12.00	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"							

Marine Drilling

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

Op Eng Marine (Dredging Work)

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

Additional Apprentice Information

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

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

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

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

MAURA HEALEY
Governor
KIM DRISCOLL
Lt. Governor

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

LAUREN JONES
Secretary
MICHAEL FLANAGAN
Director

Awarding Authority:	Massachusetts Highway	**City/Town:**	PITTSFIELD
Contract Number:	135582		
Description of Work:	CHESTERFIELD-HINSDALE-MIDDLEFIELD-PITTSFIELD – Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 2)		
Job Location:	Municipal Bridges at Multiple locations		

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 form 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

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
(2 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$41.95	$16.17	$21.78	$0.00	$0.00	$79.90
	12/1/2026	$41.95	$16.17	$23.52	$0.00	$0.00	$81.64
	1/1/2027	$41.95	$16.77	$23.52	$0.00	$0.00	$82.24
(3 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$42.02	$16.17	$21.78	$0.00	$0.00	$79.97
	12/1/2026	$42.02	$16.17	$23.52	$0.00	$0.00	$81.71
	1/1/2027	$42.02	$16.77	$23.52	$0.00	$0.00	$82.31
(4 & 5 AXLE) DRIVER - EQUIPMENT TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$42.14	$16.17	$21.78	$0.00	$0.00	$80.09
	12/1/2026	$42.14	$16.17	$23.52	$0.00	$0.00	$81.83
	1/1/2027	$42.14	$16.77	$23.52	$0.00	$0.00	$82.43
ADS/SUBMERSIBLE PILOT PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3) For apprentice rates see "Apprentice- PILE DRIVER"	8/1/2024	$117.16	$10.08	$11.62	$12.67	$0.00	$151.53
AIR TRACK OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.97	$10.90	$9.75	$6.60	$0.00	$64.22
	12/1/2026	$39.39	$10.90	$9.75	$6.60	$0.00	$66.64
	6/1/2027	$40.79	$10.90	$9.75	$6.60	$0.00	$68.04
	12/1/2027	$42.19	$10.90	$9.75	$6.60	$0.00	$69.44
	6/1/2028	$43.69	$10.90	$9.75	$6.60	$0.00	$70.94
	12/1/2028	$45.19	$10.90	$9.75	$6.60	$0.00	$72.44
For apprentice rates see "Apprentice- LABORER"							
AIR TRACK OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY) For apprentice rates see "Apprentice- LABORER (Heavy and Highway)	6/1/2026	$37.75	$10.90	$9.75	$6.60	$0.00	$65.00
	12/1/2026	$39.04	$10.90	$9.75	$6.60	$0.00	$66.29
ASBESTOS WORKER (PIPES & TANKS) HEAT & FROST INSULATORS LOCAL 6 HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)	12/1/2025	$40.32	$14.50	$4.30	$6.25	$0.00	$65.37
ASPHALT RAKER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
ASPHALT RAKER (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY) For apprentice rates see "Apprentice- LABORER (Heavy and Highway)	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
AUTOMATIC GRADER-EXCAVATOR (RECLAIMER) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
BACKHOE/FRONT-END LOADER OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
BARCO-TYPE JUMPING TAMPER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
BATCH/CEMENT PLANT - ON SITE OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
BLOCK PAVER, RAMMER / CURB SETTER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.97	$10.90	$9.75	$6.60	$0.00	$64.22
	12/1/2026	$39.39	$10.90	$9.75	$6.60	$0.00	$66.64
	6/1/2027	$40.79	$10.90	$9.75	$6.60	$0.00	$68.04
	12/1/2027	$42.19	$10.90	$9.75	$6.60	$0.00	$69.44
	6/1/2028	$43.69	$10.90	$9.75	$6.60	$0.00	$70.94
	12/1/2028	$45.19	$10.90	$9.75	$6.60	$0.00	$72.44
For apprentice rates see "Apprentice- LABORER"							
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY) For apprentice rates see "Apprentice- LABORER (Heavy and Highway)	6/1/2026	$37.75	$10.90	$9.75	$6.60	$0.00	$65.00
	12/1/2026	$39.04	$10.90	$9.75	$6.60	$0.00	$66.29
BOILER MAKER BOILERMAKERS LOCAL 29 BOILERMAKERS LOCAL 29	1/1/2024	$48.12	$7.07	$14.60	$6.00	$0.00	$75.79

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING) BRICKLAYERS LOCAL 3 BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)	2/1/2026	$56.36	$12.84	$15.57	$5.89	$0.00	$90.66
	8/1/2026	$58.56	$12.84	$15.57	$5.89	$0.00	$92.86
	2/1/2027	$59.96	$12.84	$15.57	$5.89	$0.00	$94.26

Apprentice: BOILER MAKER

Effective Date: 1/1/2024

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

Apprentice to Journeyworker Ratio: 1:4

Apprentice: BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)

Effective Date: 2/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$28.18	$12.84	$15.57	$5.89	$0.00	$62.48
2	60.00	$33.82	$12.84	$15.57	$5.89	$0.00	$68.12
3	70.00	$39.45	$12.84	$15.57	$5.89	$0.00	$73.75
4	80.00	$45.09	$12.84	$15.57	$5.89	$0.00	$79.39
5	90.00	$50.72	$12.84	$15.57	$5.89	$0.00	$85.02

Apprentice: BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)

Effective Date: 8/1/2026

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

Apprentice to Journeyworker Ratio: 1:5

BULLDOZER/POWER SHOVEL/TREE SHREDDER /CLAM SHELL OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
CAISSON & UNDERPINNING BOTTOM MAN LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2026	$50.40	$10.90	$9.75	$9.80	$0.00	$80.85
	12/1/2026	$51.90	$10.90	$9.75	$9.80	$0.00	$82.35
For apprentice rates see "Apprentice- LABORER"							
CAISSON & UNDERPINNING LABORER LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2026	$49.25	$10.90	$9.75	$9.80	$0.00	$79.70
	12/1/2026	$50.75	$10.90	$9.75	$9.80	$0.00	$81.20
For apprentice rates see "Apprentice- LABORER"							
CAISSON & UNDERPINNING TOP MAN LABORERS LABORERS - FOUNDATION AND MARINE	6/1/2026	$49.58	$10.90	$9.75	$9.80	$0.00	$80.03
	12/1/2026	$51.08	$10.90	$9.75	$9.80	$0.00	$81.53
For apprentice rates see "Apprentice- LABORER"							
CARBIDE CORE DRILL OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
CARPENTER CARPENTERS CARPENTERS LOCAL 336 - BERKSHIRE COUNTY	3/1/2026	$43.81	$9.19	$11.25	$6.90	$0.00	$71.15
	9/1/2026	$44.76	$9.19	$11.25	$6.90	$0.00	$72.10
	3/1/2027	$45.66	$9.19	$11.25	$6.90	$0.00	$73.00

Apprentice: CARPENTER

Effective Date: 3/1/2026

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

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
CARPENTER WOOD FRAME	10/1/2025	$27.37	$7.38	$4.47	$1.00	$0.00	$40.22
CARPENTERS	10/1/2026	$28.47	$7.38	$4.47	$1.00	$0.00	$41.32
CARPENTERS-ZONE 3 (Wood Frame)							

All Aspects of New Wood Frame Work

Apprentice: CARPENTER

Effective Date: 9/1/2026

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

Apprentice to Journeyworker Ratio: 1:5

Apprentice: CARPENTER WOOD FRAME

Effective Date: 10/1/2025

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

Apprentice: CARPENTER WOOD FRAME

Effective Date: 10/1/2026

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

Apprentice to Journeyworker Ratio: 1:5

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
CEMENT MASONRY/PLASTERING	7/1/2026	$49.32	$13.20	$16.30	$2.93	$1.69	$83.44
PLASTERERS AND CEMENT MASONS LOCAL 534	1/1/2027	$50.51	$13.20	$16.30	$2.93	$1.69	$84.63
Plasterers and Cement Masons - Zone 2	7/1/2027	$51.70	$13.20	$16.30	$2.93	$1.69	$85.82
	1/1/2028	$52.89	$13.20	$16.30	$2.93	$1.69	$87.01

Apprentice: CEMENT MASONRY/PLASTERING

Effective Date: 7/1/2026

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

Apprentice: CEMENT MASONRY/PLASTERING

Effective Date: 1/1/2027

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

Apprentice to Journeyworker Ratio: 1:5

CHAIN SAW OPERATOR	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
LABORERS	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19

For apprentice rates see "Apprentice- LABORER"

COMPRESSOR OPERATOR	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
CRANE OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$43.06	$13.78	$12.15	$3.00	$0.00	$71.99
DELEADER (BRIDGE) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$59.56	$10.35	$12.00	$12.60	$0.00	$94.51

Apprentice: DELEADER (BRIDGE)

Effective Date: 1/1/2026

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

Apprentice to Journeyworker Ratio: 1:1

DEMO: ADZEMAN LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	6/1/2026	$49.30	$10.90	$9.75	$9.65	$0.00	$79.60
	12/7/2026	$50.80	$10.90	$9.75	$9.65	$0.00	$81.10
	6/7/2027	$52.40	$10.90	$9.75	$9.65	$0.00	$82.70
	12/6/2027	$54.00	$10.90	$9.75	$9.65	$0.00	$84.30
	6/5/2028	$55.68	$10.90	$9.75	$9.65	$0.00	$85.98
	12/4/2028	$57.35	$10.90	$9.75	$9.65	$0.00	$87.65
DEMO: BACKHOE/LOADER/HAMMER OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE) For apprentice rates see "Apprentice- LABORER"	6/1/2026	$50.30	$10.90	$9.75	$9.65	$0.00	$80.60
	12/7/2026	$51.80	$10.90	$9.75	$9.65	$0.00	$82.10
	6/7/2027	$53.40	$10.90	$9.75	$9.65	$0.00	$83.70
	12/6/2027	$55.00	$10.90	$9.75	$9.65	$0.00	$85.30
	6/5/2028	$56.68	$10.90	$9.75	$9.65	$0.00	$86.98
	12/4/2028	$58.35	$10.90	$9.75	$9.65	$0.00	$88.65
DEMO: BURNERS LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$50.05	$10.90	$9.75	$9.65	$0.00	$80.35
	12/7/2026	$51.55	$10.90	$9.75	$9.65	$0.00	$81.85
	6/7/2027	$53.15	$10.90	$9.75	$9.65	$0.00	$83.45
	12/6/2027	$54.75	$10.90	$9.75	$9.65	$0.00	$85.05
	6/5/2028	$56.43	$10.90	$9.75	$9.65	$0.00	$86.73
	12/4/2028	$58.10	$10.90	$9.75	$9.65	$0.00	$88.40

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- LABORER"							
DEMO: CONCRETE CUTTER/SAWYER	6/1/2026	$50.30	$10.90	$9.75	$9.65	$0.00	$80.60
LABORERS	12/7/2026	$51.80	$10.90	$9.75	$9.65	$0.00	$82.10
LABORERS - ZONE 4 (BUILDING & SITE)	6/7/2027	$53.40	$10.90	$9.75	$9.65	$0.00	$83.70
	12/6/2027	$55.00	$10.90	$9.75	$9.65	$0.00	$85.30
	6/5/2028	$56.68	$10.90	$9.75	$9.65	$0.00	$86.98
	12/4/2028	$58.35	$10.90	$9.75	$9.65	$0.00	$88.65
For apprentice rates see "Apprentice- LABORER"							
DEMO: JACKHAMMER OPERATOR	6/1/2026	$50.05	$10.90	$9.75	$9.65	$0.00	$80.35
LABORERS	12/7/2026	$51.55	$10.90	$9.75	$9.65	$0.00	$81.85
LABORERS - ZONE 4 (BUILDING & SITE)	6/7/2027	$53.15	$10.90	$9.75	$9.65	$0.00	$83.45
	12/6/2027	$54.75	$10.90	$9.75	$9.65	$0.00	$85.05
	6/5/2028	$56.43	$10.90	$9.75	$9.65	$0.00	$86.73
	12/4/2028	$58.10	$10.90	$9.75	$9.65	$0.00	$88.40
For apprentice rates see "Apprentice- LABORER"							
DEMO: WRECKING LABORER	6/1/2026	$49.30	$10.90	$9.75	$9.65	$0.00	$79.60
LABORERS	12/7/2026	$50.80	$10.90	$9.75	$9.65	$0.00	$81.10
LABORERS - ZONE 4 (BUILDING & SITE)	6/7/2027	$52.40	$10.90	$9.75	$9.65	$0.00	$82.70
	12/6/2027	$54.00	$10.90	$9.75	$9.65	$0.00	$84.30
	6/5/2028	$55.68	$10.90	$9.75	$9.65	$0.00	$85.98
	12/4/2028	$57.35	$10.90	$9.75	$9.65	$0.00	$87.65
For apprentice rates see "Apprentice- LABORER"							
DIVER	8/1/2024	$78.11	$10.08	$11.62	$12.67	$0.00	$112.48
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
as of 8-1-24, Apprentices with diving licenses begin at second year. % of Diver wage 70/80/90 2A $69.83, 3A $91.79,4A $102.14 Total Rate							
DIVER TENDER	8/1/2024	$49.19	$10.08	$11.62	$12.67	$0.00	$83.56
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
as of 8-1-24, Apprentices with diving licenses begin at second year. % of Piledriver wage 70/80/90 2A $54.20, 3A $73.93,4A $82.05 Total Rate							
DIVER TENDER (EFFLUENT)	8/1/2024	$83.69	$10.08	$11.62	$12.67	$0.00	$118.06
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
For apprentice rates see "Apprentice- PILE DRIVER"							
DIVER/SLURRY (EFFLUENT)	8/1/2024	$117.16	$10.08	$11.62	$12.67	$0.00	$151.53
PILE DRIVER LOCAL 56							
PILE DRIVER LOCAL 56 (ZONE 3)							
For apprentice rates see "Apprentice- PILE DRIVER"							
DRAWBRIDGE OPERATOR (Construction)	7/1/2020	$26.77	$6.67	$3.93	$0.00	$0.16	$37.53
DRAWBRIDGE - SEIU LOCAL 888							
DRAWBRIDGE - SEIU LOCAL 888							
ELECTRICIAN (Including Core Drilling)	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
ELECTRICIANS LOCAL 7	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
ELECTRICIANS LOCAL 7							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: ELECTRICIAN (Including Core Drilling)

Effective Date: 6/28/2026

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

Apprentice: ELECTRICIAN (Including Core Drilling)

Effective Date: 1/3/2027

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

Apprentice to Journeyworker Ratio: 2:3

ELEVATOR CONSTRUCTOR	1/1/2026	$69.23	$16.38	$11.06	$10.70	$0.00	$107.37
ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2027	$72.23	$16.48	$11.16	$11.00	$0.00	$110.87
ELEVATOR CONSTRUCTORS LOCAL 41							

Apprentice: ELEVATOR CONSTRUCTOR

Effective Date: 1/1/2026

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

Apprentice: ELEVATOR CONSTRUCTOR

Effective Date: 1/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$36.12	$16.48	$0.00	$0.00	$0.00	$52.60
2	55.00	$39.73	$16.48	$11.16	$11.00	$0.00	$78.37
3	65.00	$46.95	$16.48	$11.16	$11.00	$0.00	$85.59

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: ELEVATOR CONSTRUCTOR							
Effective Date: 1/1/2027							
Step / Percent		**Apprentice Base Wage**					
4 / 70.00		$50.56	$16.48	$11.16	$11.00	$0.00	$89.20
5 / 80.00		$57.78	$16.48	$11.16	$11.00	$0.00	$96.42
Apprentice to Journeyworker Ratio: 1:1							
ELEVATOR CONSTRUCTOR HELPER ELEVATOR CONSTRUCTORS LOCAL 41 ELEVATOR CONSTRUCTORS LOCAL 41	1/1/2026	$48.46	$16.38	$11.06	$10.70	$0.00	$86.60
	1/1/2027	$50.56	$16.48	$11.16	$11.00	$0.00	$89.20
For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"							
FENCE & BEAM RAIL ERECTOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$44.69	$10.90	$9.75	$6.60	$0.00	$71.94
For apprentice rates see "Apprentice- LABORER"							
FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
FIELD ENG.INST/ROD-BLDG,SITE,HVY/HWY OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	6/1/1999	$18.84	$4.80	$4.10	$0.00	$0.00	$27.74
FIELD ENG.PARTY CHIEF:BLDG,SITE,HVY/HWY OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	6/1/1999	$21.33	$4.80	$4.10	$0.00	$0.00	$30.23
FIELD ENG.SURVEY CHIEF-BLDG,SITE,HVY/HWY OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	6/1/1999	$22.33	$4.80	$4.10	$0.00	$0.00	$31.23
FIRE ALARM INSTALLER ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
For apprentice rates see "Apprentice- ELECTRICIAN"							
FIRE ALARM REPAIR / MAINTENANCE / COMMISSIONING ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"							
FIREMAN OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: FIREMAN							
Effective Date: 12/1/2023							
Step / Percent		**Apprentice Base Wage**					
1 / 60.00		$23.42	$13.78	$12.15	$3.00	$0.00	$52.35
2 / 70.00		$27.32	$13.78	$12.15	$3.00	$0.00	$56.25
3 / 80.00		$31.22	$13.78	$12.15	$3.00	$0.00	$60.15
4 / 90.00		$35.13	$13.78	$12.15	$3.00	$0.00	$64.06
Apprentice to Journeyworker Ratio: 1:6							
FLAGGER & SIGNALER (HEAVY & HIGHWAY)	6/1/2026	$29.21	$10.90	$9.75	$6.60	$0.00	$56.46
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/1/2026	$29.21	$10.90	$9.75	$6.60	$0.00	$56.46
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
FLOORCOVERER	3/1/2026	$44.34	$8.56	$11.25	$6.90	$0.00	$71.05
FLOORCOVERERS LOCAL 2168 FLOORCOVERERS LOCAL 2168 ZONE III	9/1/2026	$45.29	$8.56	$11.25	$6.90	$0.00	$72.00
	3/1/2027	$46.19	$8.56	$11.25	$6.90	$0.00	$72.90
Apprentice: FLOORCOVERER							
Effective Date: 3/1/2026							
Step / Percent		**Apprentice Base Wage**					
1 / 45.00		$19.95	$8.56	$0.00	$1.38	$0.00	$29.89
2 / 45.00		$19.95	$8.56	$0.00	$1.38	$0.00	$29.89
3 / 55.00		$24.39	$8.56	$0.00	$2.76	$0.00	$35.71
4 / 55.00		$24.39	$8.56	$0.00	$2.76	$0.00	$35.71
5 / 70.00		$31.04	$8.56	$11.25	$4.14	$0.00	$54.99
6 / 70.00		$31.04	$8.56	$11.25	$4.14	$0.00	$54.99
7 / 80.00		$35.47	$8.56	$11.25	$5.52	$0.00	$60.80
8 / 80.00		$35.47	$8.56	$11.25	$5.52	$0.00	$60.80
Apprentice: FLOORCOVERER							
Effective Date: 9/1/2026							
Step / Percent		**Apprentice Base Wage**					
1 / 45.00		$20.38	$8.56	$0.00	$1.38	$0.00	$30.32
2 / 45.00		$20.38	$8.56	$0.00	$1.38	$0.00	$30.32
3 / 55.00		$24.91	$8.56	$0.00	$2.76	$0.00	$36.23
4 / 55.00		$24.91	$8.56	$0.00	$2.76	$0.00	$36.23
5 / 70.00		$31.70	$8.56	$11.25	$4.14	$0.00	$55.65
6 / 70.00		$31.70	$8.56	$11.25	$4.14	$0.00	$55.65
7 / 80.00		$36.23	$8.56	$11.25	$5.52	$0.00	$61.56
8 / 80.00		$36.23	$8.56	$11.25	$5.52	$0.00	$61.56

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice Notes Steps are 750 hrs.							
Apprentice to Journeyworker Ratio: 1:1							
FORK LIFT OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$39.25	$13.78	$12.15	$3.00	$0.00	$68.18
GENERATORS/LIGHTING PLANTS OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/1/2023	$35.80	$13.78	$12.15	$3.00	$0.00	$64.73
GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS) GLAZIERS LOCAL 1333 GLAZIERS LOCAL 1333	6/1/2026	$44.73	$11.20	$8.40	$6.05	$0.00	$70.38
	6/1/2027	$46.73	$11.60	$8.55	$6.60	$0.00	$73.48
	6/1/2028	$48.73	$12.00	$8.70	$7.20	$0.00	$76.63

Apprentice: GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)

Effective Date: 6/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$22.37	$11.20	$8.40	$6.05	$0.00	$48.02
2	56.25	$25.16	$11.20	$8.40	$6.05	$0.00	$50.81
3	62.50	$27.96	$11.20	$8.40	$6.05	$0.00	$53.61
4	68.75	$30.75	$11.20	$8.40	$6.05	$0.00	$56.40
5	75.00	$33.55	$11.20	$8.40	$6.05	$0.00	$59.20
6	81.25	$36.34	$11.20	$8.40	$6.05	$0.00	$61.99
7	87.50	$39.14	$11.20	$8.40	$6.05	$0.00	$64.79
8	93.75	$41.93	$11.20	$8.40	$6.05	$0.00	$67.58

Apprentice: GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)

Effective Date: 6/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$23.37	$11.60	$8.55	$6.60	$0.00	$50.12
2	56.25	$26.29	$11.60	$8.55	$6.60	$0.00	$53.04
3	62.50	$29.21	$11.60	$8.55	$6.60	$0.00	$55.96
4	68.75	$32.13	$11.60	$8.55	$6.60	$0.00	$58.88
5	75.00	$35.05	$11.60	$8.55	$6.60	$0.00	$61.80
6	81.25	$37.97	$11.60	$8.55	$6.60	$0.00	$64.72
7	87.50	$40.89	$11.60	$8.55	$6.60	$0.00	$67.64
8	93.75	$43.81	$11.60	$8.55	$6.60	$0.00	$70.56

Apprentice to Journeyworker Ratio: 3:1

GRADER/TRENCHING MACHINE/DERRICK	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
HVAC (DUCTWORK) SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63	7/1/2026	$43.48	$13.24	$11.01	$9.92	$2.13	$79.78
	1/1/2027	$43.48	$13.54	$11.01	$11.12	$2.13	$81.28
	7/1/2027	$44.98	$13.54	$11.01	$11.12	$2.13	$82.78
	1/1/2028	$46.48	$13.54	$11.01	$11.12	$2.13	$84.28
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (ELECTRICAL CONTROLS) ELECTRICIANS LOCAL 7 ELECTRICIANS LOCAL 7	6/28/2026	$54.41	$14.00	$8.43	$7.03	$0.00	$83.87
	1/3/2027	$55.56	$14.25	$8.47	$7.09	$0.00	$85.37
For apprentice rates see "Apprentice- ELECTRICIAN"							
HVAC (TESTING AND BALANCING - AIR) SHEETMETAL WORKERS LOCAL 63 SHEETMETAL WORKERS LOCAL 63	7/1/2026	$43.48	$13.24	$11.01	$9.92	$2.13	$79.78
	1/1/2027	$43.48	$13.54	$11.01	$11.12	$2.13	$81.28
	7/1/2027	$44.98	$13.54	$11.01	$11.12	$2.13	$82.78
	1/1/2028	$46.48	$13.54	$11.01	$11.12	$2.13	$84.28
For apprentice rates see "Apprentice- SHEET METAL WORKER"							
HVAC (TESTING AND BALANCING -WATER) PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
HVAC MECHANIC PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
HYDRAULIC DRILLS (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.75	$10.90	$9.75	$6.60	$0.00	$65.00
	12/1/2026	$39.04	$10.90	$9.75	$6.60	$0.00	$66.29
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
INSULATOR (PIPES & TANKS) HEAT & FROST INSULATORS LOCAL 6 HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)	9/1/2025	$48.27	$14.75	$9.52	$10.09	$0.00	$82.63
	9/1/2026	$51.01	$14.75	$9.52	$10.09	$0.00	$85.37

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: INSULATOR (PIPES & TANKS)

Effective Date: 9/1/2025

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

Apprentice: INSULATOR (PIPES & TANKS)

Effective Date: 9/1/2026

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

Apprentice to Journeyworker Ratio: 1:4

IRONWORKER/WELDER IRONWORKERS LOCAL 12 IRONWORKERS LOCAL 12	1/1/2025	$39.50	$5.50	$14.28	$4.55	$0.00	$63.83

Apprentice: IRONWORKER/WELDER

Effective Date: 1/1/2025

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	0.00	$23.50	$5.75	$0.00	$3.75	$0.00	$33.00
2	0.00	$25.50	$5.75	$10.00	$3.75	$0.00	$45.00
3	0.00	$27.50	$5.75	$11.42	$3.75	$0.00	$48.42
4	0.00	$29.50	$5.75	$12.85	$3.75	$0.00	$51.85

Apprentice to Journeyworker Ratio: 1:4

JACKHAMMER & PAVING BREAKER OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19

For apprentice rates see "Apprentice- LABORER"

LABORER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69

Apprentice: LABORER

Effective Date: 6/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$21.73	$10.90	$9.75	$6.60	$0.00	$48.98
2	70.00	$25.35	$10.90	$9.75	$6.60	$0.00	$52.60
3	80.00	$28.98	$10.90	$9.75	$6.60	$0.00	$56.23
4	90.00	$32.60	$10.90	$9.75	$6.60	$0.00	$59.85

Apprentice: LABORER

Effective Date: 12/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$23.18	$10.90	$9.75	$6.60	$0.00	$50.43
2	70.00	$27.05	$10.90	$9.75	$6.60	$0.00	$54.30
3	80.00	$30.91	$10.90	$9.75	$6.60	$0.00	$58.16
4	90.00	$34.78	$10.90	$9.75	$6.60	$0.00	$62.03

Apprentice to Journeyworker Ratio: 1:5

LABORER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.00	$10.90	$9.75	$6.60	$0.00	$64.25
	12/1/2026	$38.29	$10.90	$9.75	$6.60	$0.00	$65.54

Apprentice: LABORER (HEAVY & HIGHWAY)

Effective Date: 6/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	60.00	$22.20	$10.90	$9.75	$6.60	$0.00	$49.45
2	70.00	$25.90	$10.90	$9.75	$6.60	$0.00	$53.15
3	80.00	$29.60	$10.90	$9.75	$6.60	$0.00	$56.85
4	90.00	$33.30	$10.90	$9.75	$6.60	$0.00	$60.55

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: LABORER (HEAVY & HIGHWAY)							
Effective Date: 12/1/2026							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
1 / 60.00		$22.97	$10.90	$9.75	$6.60	$0.00	$50.22
2 / 70.00		$26.80	$10.90	$9.75	$6.60	$0.00	$54.05
3 / 80.00		$30.63	$10.90	$9.75	$6.60	$0.00	$57.88
4 / 90.00		$34.46	$10.90	$9.75	$6.60	$0.00	$61.71
Apprentice to Journeyworker Ratio: 1:5							
LABORER: CARPENTER TENDER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: CEMENT FINISHER TENDER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$35.67	$10.90	$9.75	$5.41	$0.00	$61.73
	12/1/2026	$36.96	$10.90	$9.75	$5.41	$0.00	$63.02
	6/1/2027	$38.26	$10.90	$9.75	$5.41	$0.00	$64.32
	12/1/2027	$39.56	$10.90	$9.75	$5.41	$0.00	$65.62
	6/5/2028	$40.91	$10.90	$9.75	$5.41	$0.00	$66.97
	12/4/2028	$42.26	$10.90	$9.75	$5.41	$0.00	$68.32
For apprentice rates see "Apprentice- LABORER"							
LABORER: MASON TENDER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$38.22	$10.90	$9.75	$6.60	$0.00	$65.47
	12/1/2026	$40.64	$10.90	$9.75	$6.60	$0.00	$67.89
	6/1/2027	$42.04	$10.90	$9.75	$6.60	$0.00	$69.29
	12/1/2027	$43.44	$10.90	$9.75	$6.60	$0.00	$70.69
	6/1/2028	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
	12/1/2028	$46.44	$10.90	$9.75	$6.60	$0.00	$73.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: MASON TENDER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
LABORER: MULTI-TRADE TENDER	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
For apprentice rates see "Apprentice- LABORER"							
LABORER: TREE REMOVER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.22	$10.90	$9.75	$6.60	$0.00	$63.47
	12/1/2026	$38.64	$10.90	$9.75	$6.60	$0.00	$65.89
	6/1/2027	$40.04	$10.90	$9.75	$6.60	$0.00	$67.29
	12/1/2027	$41.44	$10.90	$9.75	$6.60	$0.00	$68.69
	6/1/2028	$42.94	$10.90	$9.75	$6.60	$0.00	$70.19
	12/1/2028	$44.44	$10.90	$9.75	$6.60	$0.00	$71.69
This classification applies to the removal of standing trees, and the trimming and removal of branches and limbs when related to public works construction or site clearance incidental to construction . For apprentice rates see "Apprentice- LABORER"							
LASER BEAM OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
LASER BEAM OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
MARBLE & TILE FINISHERS BRICKLAYERS LOCAL 3 BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	2/1/2026	$45.56	$12.84	$15.10	$5.41	$0.00	$78.91
	8/1/2026	$47.32	$12.84	$15.10	$5.41	$0.00	$80.67
	2/1/2027	$48.44	$12.84	$15.10	$5.41	$0.00	$81.79

Apprentice: MARBLE & TILE FINISHERS

Effective Date: 2/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$22.78	$12.84	$15.10	$5.41	$0.00	$56.13
2	60.00	$27.34	$12.84	$15.10	$5.41	$0.00	$60.69
3	70.00	$31.89	$12.84	$15.10	$5.41	$0.00	$65.24
4	80.00	$36.45	$12.84	$15.10	$5.41	$0.00	$69.80
5	90.00	$41.00	$12.84	$15.10	$5.41	$0.00	$74.35

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: MARBLE & TILE FINISHERS

Effective Date: 8/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$23.66	$12.84	$15.10	$5.41	$0.00	$57.01
2	60.00	$28.39	$12.84	$15.10	$5.41	$0.00	$61.74
3	70.00	$33.12	$12.84	$15.10	$5.41	$0.00	$66.47
4	80.00	$37.86	$12.84	$15.10	$5.41	$0.00	$71.21
5	90.00	$42.59	$12.84	$15.10	$5.41	$0.00	$75.94

Apprentice to Journeyworker Ratio: 1:5

MECH. SWEEPER OPERATOR (ON CONST. SITES) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
MECHANIC/WELDER/BOOM TRUCK OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
MILLWRIGHT (Zone 3) MILLWRIGHTS LOCAL 1121 MILLWRIGHTS LOCAL 1121 - Zone 3	1/5/2026	$45.20	$10.58	$11.47	$9.75	$0.00	$77.00

Apprentice: MILLWRIGHT (Zone 3)

Effective Date: 1/5/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	55.00	$24.86	$10.58	$0.00	$5.36	$0.00	$40.80
2	65.00	$29.38	$10.58	$0.00	$6.34	$0.00	$46.30
3	75.00	$33.90	$10.58	$11.47	$7.31	$0.00	$63.26
4	85.00	$38.42	$10.58	$11.47	$8.29	$0.00	$68.76

Apprentice Notes

Step 1&2 Appr. indentured after 1/6/2020 receive no pension,

Apprentice to Journeyworker Ratio: 1:4

MORTAR MIXER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
OILER	12/1/2023	$35.02	$13.78	$12.15	$3.00	$0.00	$63.95
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
OTHER POWER DRIVEN EQUIPMENT - CLASS VI	12/1/2023	$32.74	$13.78	$12.15	$3.00	$0.00	$61.67
OPERATING ENGINEERS LOCAL 98							
OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
PAINTER (BRIDGES/TANKS)	1/1/2026	$59.56	$10.35	$12.00	$12.60	$0.00	$94.51
PAINTERS LOCAL 35							
PAINTERS LOCAL 35 - ZONE 3							

Apprentice: PAINTER (BRIDGES/TANKS)

Effective Date: 1/1/2026

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

Apprentice to Journeyworker Ratio: 1:1

PAINTER (SPRAY OR SANDBLAST, NEW) *	1/1/2026	$42.03	$10.35	$12.00	$8.35	$0.00	$72.73
* If 30% or more of surfaces to be painted are new construction,							
NEW paint rate shall be used.							
PAINTERS LOCAL 35							
PAINTERS LOCAL 35 - ZONE 3							

Apprentice: PAINTER (SPRAY OR SANDBLAST, NEW) *

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$21.02	$10.35	$0.00	$0.00	$0.00	$31.37
2	55.00	$23.12	$10.35	$0.00	$4.59	$0.00	$38.06
3	60.00	$25.22	$10.35	$0.00	$5.01	$0.00	$40.58

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: PAINTER (SPRAY OR SANDBLAST, NEW) *

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
4	65.00	$27.32	$10.35	$0.00	$5.43	$0.00	$43.10
5	70.00	$29.42	$10.35	$12.00	$5.85	$0.00	$57.62
6	75.00	$31.52	$10.35	$12.00	$6.26	$0.00	$60.13
7	80.00	$33.62	$10.35	$12.00	$6.68	$0.00	$62.65
8	90.00	$37.83	$10.35	$12.00	$7.52	$0.00	$67.70

Apprentice to Journeyworker Ratio: 1:1

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

Apprentice: PAINTER (SPRAY OR SANDBLAST, REPAINT)

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$19.68	$10.35	$0.00	$0.00	$0.00	$30.03
2	55.00	$21.64	$10.35	$0.00	$4.59	$0.00	$36.58
3	60.00	$23.61	$10.35	$0.00	$5.01	$0.00	$38.97
4	65.00	$25.58	$10.35	$0.00	$5.43	$0.00	$41.36
5	70.00	$27.55	$10.35	$12.00	$5.85	$0.00	$55.75
6	75.00	$29.51	$10.35	$12.00	$6.26	$0.00	$58.12
7	80.00	$31.48	$10.35	$12.00	$6.68	$0.00	$60.51
8	90.00	$35.42	$10.35	$12.00	$7.52	$0.00	$65.29

Apprentice to Journeyworker Ratio: 1:1

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

Apprentice: PAINTER / TAPER (BRUSH, NEW) *

Effective Date: 1/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$20.32	$10.35	$0.00	$0.00	$0.00	$30.67
2	55.00	$22.35	$10.35	$0.00	$4.59	$0.00	$37.29
3	60.00	$24.38	$10.35	$0.00	$5.01	$0.00	$39.74
4	65.00	$26.41	$10.35	$0.00	$5.43	$0.00	$42.19
5	70.00	$28.44	$10.35	$12.00	$5.85	$0.00	$56.64
6	75.00	$30.47	$10.35	$12.00	$6.26	$0.00	$59.08
7	80.00	$32.50	$10.35	$12.00	$6.68	$0.00	$61.53

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: PAINTER / TAPER (BRUSH, NEW) *							
Effective Date: 1/1/2026							
Step / Percent		**Apprentice Base Wage**					
8 / 90.00		$36.57	$10.35	$12.00	$7.52	$0.00	$66.44
Apprentice to Journeyworker Ratio: 1:1							
PAINTER / TAPER (BRUSH, REPAINT) PAINTERS LOCAL 35 PAINTERS LOCAL 35 - ZONE 3	1/1/2026	$37.95	$10.35	$12.00	$8.35	$0.00	$68.65
Apprentice: PAINTER / TAPER (BRUSH, REPAINT)							
Effective Date: 1/1/2026							
Step / Percent		**Apprentice Base Wage**					
1 / 50.00		$18.98	$10.35	$0.00	$0.00	$0.00	$29.33
2 / 55.00		$20.87	$10.35	$0.00	$4.59	$0.00	$35.81
3 / 60.00		$22.77	$10.35	$0.00	$5.01	$0.00	$38.13
4 / 65.00		$24.67	$10.35	$0.00	$5.43	$0.00	$40.45
5 / 70.00		$26.57	$10.35	$12.00	$5.85	$0.00	$54.77
6 / 75.00		$28.46	$10.35	$12.00	$6.26	$0.00	$57.07
7 / 80.00		$30.36	$10.35	$12.00	$6.68	$0.00	$59.39
8 / 90.00		$34.16	$10.35	$12.00	$7.52	$0.00	$64.03
Apprentice to Journeyworker Ratio: 1:1							
PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.00	$10.90	$9.75	$6.60	$0.00	$64.25
	12/1/2026	$38.29	$10.90	$9.75	$6.60	$0.00	$65.54
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
PANEL & PICKUP TRUCKS DRIVER TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$41.78	$16.17	$21.78	$0.00	$0.00	$79.73
	12/1/2026	$41.78	$16.17	$23.52	$0.00	$0.00	$81.47
	1/1/2027	$41.78	$16.77	$23.52	$0.00	$0.00	$82.07
PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK) PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$49.19	$10.08	$11.62	$12.67	$0.00	$83.56
For apprentice rates see "Apprentice- PILE DRIVER"							
PILE DRIVER PILE DRIVER LOCAL 56 PILE DRIVER LOCAL 56 (ZONE 3)	8/1/2024	$49.19	$10.08	$11.62	$12.67	$0.00	$83.56
Apprentice: PILE DRIVER							
Effective Date: 8/1/2024							
Step / Percent		**Apprentice Base Wage**					

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: PILE DRIVER							
Effective Date: 8/1/2024							
Step / Percent		**Apprentice Base Wage**					
1 / 45.00		$22.14	$10.08	$0.00	$2.53	$0.00	$34.75
2 / 55.00		$27.05	$10.08	$0.00	$5.07	$0.00	$42.20
3 / 70.00		$34.43	$10.08	$11.62	$7.60	$0.00	$63.73
4 / 80.00		$39.35	$10.08	$11.62	$10.14	$0.00	$71.19
Apprentice to Journeyworker Ratio: 1:5							
PIPELAYER	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
PIPELAYER (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
PLUMBER & PIPEFITTER	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
Apprentice: PLUMBER & PIPEFITTER							
Effective Date: 3/17/2026							
Step / Percent		**Apprentice Base Wage**					
1 / 45.00		$23.74	$13.50	$10.85	$0.00	$0.00	$48.09
2 / 50.00		$26.38	$13.50	$10.85	$0.00	$0.00	$50.73
3 / 55.00		$29.02	$13.50	$10.85	$0.00	$0.00	$53.37
4 / 60.00		$31.66	$13.50	$10.85	$0.00	$0.00	$56.01

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: PLUMBER & PIPEFITTER

Effective Date: 3/17/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
5	65.00	$34.29	$13.50	$10.85	$0.00	$0.00	$58.64
6	70.00	$36.93	$13.50	$10.85	$0.00	$0.00	$61.28
7	75.00	$39.57	$13.50	$10.85	$0.00	$0.00	$63.92
8	80.00	$42.21	$13.50	$10.85	$0.00	$0.00	$66.56
9	85.00	$44.85	$13.50	$10.85	$7.10	$0.00	$76.30
10	85.00	$44.85	$13.50	$10.85	$7.10	$0.00	$76.30

Apprentice: PLUMBER & PIPEFITTER

Effective Date: 9/17/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$24.64	$13.50	$0.00	$0.00	$0.00	$38.14
2	50.00	$27.38	$13.50	$0.00	$0.00	$0.00	$40.88
3	55.00	$30.12	$13.50	$0.00	$0.00	$0.00	$43.62
4	60.00	$32.86	$13.50	$0.00	$0.00	$0.00	$46.36
5	65.00	$35.59	$13.50	$0.00	$0.00	$0.00	$49.09
6	70.00	$38.33	$13.50	$0.00	$0.00	$0.00	$51.83
7	75.00	$41.07	$13.50	$0.00	$0.00	$0.00	$54.57
8	80.00	$43.81	$13.50	$0.00	$0.00	$0.00	$57.31
9	85.00	$46.55	$13.50	$0.00	$7.10	$0.00	$67.15
10	85.00	$46.55	$13.50	$0.00	$7.10	$0.00	$67.15

Apprentice Notes

**1:1,2:5,3:9,4:12

Apprentice to Journeyworker Ratio: 1:1

PNEUMATIC CONTROLS (TEMP.) PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$54.76	$13.50	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"							
PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
POWDERMAN & BLASTER LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$37.22	$10.90	$9.75	$6.60	$0.00	$64.47
	12/1/2026	$39.64	$10.90	$9.75	$6.60	$0.00	$66.89
	6/1/2027	$41.04	$10.90	$9.75	$6.60	$0.00	$68.29

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
	12/1/2027	$42.44	$10.90	$9.75	$6.60	$0.00	$69.69
	6/1/2028	$43.94	$10.90	$9.75	$6.60	$0.00	$71.19
	12/1/2028	$45.44	$10.90	$9.75	$6.60	$0.00	$72.69
For apprentice rates see "Apprentice- LABORER"							
POWDERMAN & BLASTER (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$38.00	$10.90	$9.75	$6.60	$0.00	$65.25
	12/1/2026	$39.29	$10.90	$9.75	$6.60	$0.00	$66.54
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"							
PUMP OPERATOR (CONCRETE) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.56	$13.78	$12.15	$3.00	$0.00	$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
PUMP OPERATOR (DEWATERING, OTHER) OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$39.03	$13.78	$12.15	$3.00	$0.00	$67.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
READY-MIX CONCRETE DRIVER TEAMSTERS 404 - Construction Service (Northampton) TEAMSTERS 404 - Construction Service (Northampton)	5/1/2024	$26.14	$11.82	$7.25	$0.00	$0.00	$45.21
RIDE-ON MOTORIZED BUGGY OPERATOR LABORERS LABORERS - ZONE 4 (BUILDING & SITE)	6/1/2026	$36.47	$10.90	$9.75	$6.60	$0.00	$63.72
	12/1/2026	$38.89	$10.90	$9.75	$6.60	$0.00	$66.14
	6/1/2027	$40.29	$10.90	$9.75	$6.60	$0.00	$67.54
	12/1/2027	$41.69	$10.90	$9.75	$6.60	$0.00	$68.94
	6/1/2028	$43.19	$10.90	$9.75	$6.60	$0.00	$70.44
	12/1/2028	$47.26	$9.90	$9.25	$5.53	$0.00	$71.94
	6/1/2205	$34.29	$9.90	$0.00	$0.00	$0.00	$44.19
	12/1/2205	$36.79	$9.90	$9.25	$5.53	$0.00	$61.47
	6/1/2206	$39.29	$9.90	$9.25	$5.53	$0.00	$63.97
	12/1/2206	$41.46	$9.90	$9.25	$5.53	$0.00	$66.14
	6/1/2207	$43.11	$9.90	$9.25	$5.53	$0.00	$67.79
	12/1/2207	$44.51	$9.90	$9.25	$5.53	$0.00	$69.19
	6/1/2208	$46.01	$9.90	$9.25	$5.53	$0.00	$70.69
	12/1/2208	$44.94	$10.90	$9.75	$6.60	$0.00	$72.19
For apprentice rates see "Apprentice- LABORER"							
ROLLER OPERATOR OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98	12/1/2023	$38.42	$13.78	$12.15	$3.00	$0.00	$67.35
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
ROOFER (Coal tar pitch) ROOFERS LOCAL 248 ROOFERS LOCAL 248	7/16/2026	$46.73	$10.60	$8.70	$10.00	$0.00	$76.03
For apprentice rates see "Apprentice- ROOFER"							
ROOFER (Inc.Roofer Waterproofng &Roofer Damproofg) ROOFERS LOCAL 248 ROOFERS LOCAL 248	7/16/2026	$46.23	$10.60	$8.70	$10.00	$0.00	$75.53

Construction

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

Apprentice: SHEETMETAL WORKER

Effective Date: 7/1/2026

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

Apprentice: SHEETMETAL WORKER

Effective Date: 1/1/2027

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	45.00	$19.57	$6.09	$4.95	$0.00	$0.85	$31.46
2	50.00	$21.74	$6.77	$5.51	$0.00	$0.94	$34.96
3	55.00	$23.91	$7.45	$9.91	$0.00	$1.15	$42.42
4	60.00	$26.09	$8.36	$9.91	$0.00	$1.23	$45.59
5	65.00	$28.26	$8.86	$9.91	$0.00	$1.31	$48.34

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: SHEETMETAL WORKER							
Effective Date: 1/1/2027							
Step / Percent		**Apprentice Base Wage**					
6 / 70.00		$30.44	$9.48	$9.91	$0.00	$1.39	$51.22
7 / 75.00		$32.61	$10.15	$9.91	$0.00	$1.47	$54.14
8 / 80.00		$34.78	$10.83	$9.91	$11.12	$1.78	$68.42
9 / 85.00		$36.96	$11.51	$9.91	$11.12	$1.86	$71.36
10 / 90.00		$39.13	$12.18	$9.91	$11.12	$1.94	$74.28
Apprentice to Journeyworker Ratio: 1:3							
SPECIALIZED EARTH MOVING EQUIP < 35 TONS	6/1/2026	$42.24	$16.17	$21.78	$0.00	$0.00	$80.19
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	$42.24	$16.17	$23.52	$0.00	$0.00	$81.93
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	$42.24	$16.77	$23.52	$0.00	$0.00	$82.53
SPECIALIZED EARTH MOVING EQUIP > 35 TONS	6/1/2026	$42.53	$16.17	$21.78	$0.00	$0.00	$80.48
TEAMSTERS JOINT COUNCIL NO. 10	12/1/2026	$42.53	$16.17	$23.52	$0.00	$0.00	$82.22
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	1/1/2027	$42.53	$16.77	$23.52	$0.00	$0.00	$82.82
SPRINKLER FITTER	7/1/2026	$56.54	$13.60	$7.45	$9.41	$0.00	$87.00
SPRINKLER FITTERS LOCAL 669	10/1/2026	$56.54	$13.60	$7.45	$9.41	$0.00	$87.00
SPRINKLER FITTERS LOCAL 669	1/1/2027	$56.54	$14.55	$7.50	$9.41	$0.00	$88.00
	4/1/2027	$59.83	$14.55	$7.50	$9.41	$0.00	$91.29
	7/1/2027	$59.83	$14.55	$7.50	$9.41	$0.00	$91.29
	10/1/2027	$59.83	$14.55	$7.50	$9.41	$0.00	$91.29
	1/1/2028	$59.83	$15.50	$7.55	$9.41	$0.00	$92.29

Apprentice: SPRINKLER FITTER

Effective Date: 7/1/2026

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

Apprentice: SPRINKLER FITTER

Effective Date: 10/1/2026

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

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate

Apprentice: SPRINKLER FITTER

Effective Date: 10/1/2026

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

Apprentice to Journeyworker Ratio: 1:1

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

For apprentice rates and ratios see "Apprentice- ELECTRICIAN"

Apprentice: TELECOMMUNICATION TECHNICIAN

Effective Date: 6/28/2026

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

Apprentice: TELECOMMUNICATION TECHNICIAN

Effective Date: 1/3/2027

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

Apprentice to Journeyworker Ratio: 1:1

TERRAZZO FINISHERS	2/10/2026	$66.89	$12.84	$15.57	$8.02	$0.00	$103.32

Construction

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

Apprentice: TERRAZZO FINISHERS

Effective Date: 2/10/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$33.45	$12.84	$15.57	$8.02	$0.00	$69.88
2	60.00	$40.13	$12.84	$15.57	$8.02	$0.00	$76.56
3	70.00	$46.82	$12.84	$15.57	$8.02	$0.00	$83.25
4	80.00	$53.51	$12.84	$15.57	$8.02	$0.00	$89.94
5	90.00	$60.20	$12.84	$15.57	$8.02	$0.00	$96.63

Apprentice: TERRAZZO FINISHERS

Effective Date: 8/1/2026

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

Apprentice to Journeyworker Ratio: 1:5

TERRAZZO MECHANIC	2/1/2026	$67.97	$12.84	$15.57	$7.99	$0.00	$104.37
BRICKLAYERS LOCAL 3	8/1/2026	$70.17	$12.84	$15.57	$7.99	$0.00	$106.57
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	2/1/2027	$71.57	$12.84	$15.57	$7.99	$0.00	$107.97

Apprentice: TERRAZZO MECHANIC

Effective Date: 2/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$33.99	$12.84	$15.57	$7.99	$0.00	$70.39
2	60.00	$40.78	$12.84	$15.57	$7.99	$0.00	$77.18
3	70.00	$47.58	$12.84	$15.57	$7.99	$0.00	$83.98
4	80.00	$54.38	$12.84	$15.57	$7.99	$0.00	$90.78
5	90.00	$61.17	$12.84	$15.57	$7.99	$0.00	$97.57

Apprentice: TERRAZZO MECHANIC

Effective Date: 8/1/2026

Step	Percent	Apprentice Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
1	50.00	$35.09	$12.84	$15.57	$7.99	$0.00	$71.49
2	60.00	$42.10	$12.84	$15.57	$7.99	$0.00	$78.50

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
Apprentice: TERRAZZO MECHANIC							
Effective Date: 8/1/2026							
Step / Percent		**Apprentice Base Wage**	**Health**	**Pension**	**Annuity**	**Supplemental Unemployment**	**Total Rate**
3 / 70.00		$49.12	$12.84	$15.57	$7.99	$0.00	$85.52
4 / 80.00		$56.14	$12.84	$15.57	$7.99	$0.00	$92.54
5 / 90.00		$63.15	$12.84	$15.57	$7.99	$0.00	$99.55
Apprentice to Journeyworker Ratio: 1:5							
TEST BORING DRILLER	6/1/2026	$53.25	$10.90	$9.75	$9.80	$0.00	$83.70
LABORERS LABORERS - FOUNDATION AND MARINE	12/1/2026	$54.75	$10.90	$9.75	$9.80	$0.00	$85.20
For apprentice rates see "Apprentice- LABORER"							
TEST BORING DRILLER HELPER	6/1/2026	$49.37	$10.90	$9.75	$9.80	$0.00	$79.82
LABORERS LABORERS - FOUNDATION AND MARINE	12/1/2026	$50.87	$10.90	$9.75	$9.80	$0.00	$81.32
For apprentice rates see "Apprentice- LABORER"							
TEST BORING LABORER	6/1/2026	$49.25	$10.90	$9.75	$9.80	$0.00	$79.70
LABORERS LABORERS - FOUNDATION AND MARINE	12/1/2026	$50.75	$10.90	$9.75	$9.80	$0.00	$81.20
For apprentice rates see "Apprentice- LABORER"							
TRACTORS	12/1/2023	$38.42	$13.78	$12.15	$3.00	$0.00	$67.35
OPERATING ENGINEERS LOCAL 98 OPERATING ENGINEERS LOCAL 98							
For apprentice rates see "Apprentice- OPERATING ENGINEERS"							
TRAILERS FOR EARTH MOVING EQUIPMENT	6/1/2026	$42.82	$16.17	$21.78	$0.00	$0.00	$80.77
TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	12/1/2026	$42.82	$16.17	$23.52	$0.00	$0.00	$82.51
	1/1/2027	$42.82	$16.77	$23.52	$0.00	$0.00	$83.11
TUNNEL WORK - COMPRESSED AIR	6/1/2026	$61.48	$10.90	$9.75	$10.25	$0.00	$92.38
LABORERS LABORERS (COMPRESSED AIR)	12/1/2026	$62.98	$10.90	$9.75	$10.25	$0.00	$93.88
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE)	6/1/2026	$63.48	$10.90	$9.75	$10.25	$0.00	$94.38
LABORERS LABORERS (COMPRESSED AIR)	12/1/2026	$64.98	$10.90	$9.75	$10.25	$0.00	$95.88
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - FREE AIR	6/1/2026	$53.55	$10.90	$9.75	$10.25	$0.00	$84.45
LABORERS LABORERS (FREE AIR TUNNEL)	12/1/2026	$55.05	$10.90	$9.75	$10.25	$0.00	$85.95
For apprentice rates see "Apprentice- LABORER"							
TUNNEL WORK - FREE AIR (HAZ. WASTE)	6/1/2026	$55.55	$10.90	$9.75	$10.25	$0.00	$86.45
LABORERS LABORERS (FREE AIR TUNNEL)	12/1/2026	$57.05	$10.90	$9.75	$10.25	$0.00	$87.95
For apprentice rates see "Apprentice- LABORER"							

Construction

Classification	Effective Date	Base Wage	Health	Pension	Annuity	Supplemental Unemployment	Total Rate
VAC-HAUL TEAMSTERS JOINT COUNCIL NO. 10 TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	6/1/2026	$42.24	$16.17	$21.78	$0.00	$0.00	$80.19
	12/1/2026	$42.24	$16.17	$23.52	$0.00	$0.00	$81.93
	1/1/2027	$42.24	$16.77	$23.52	$0.00	$0.00	$82.53
WAGON DRILL OPERATOR (HEAVY & HIGHWAY) LABORERS LABORERS - ZONE 4 (HEAVY & HIGHWAY)	6/1/2026	$37.25	$10.90	$9.75	$6.60	$0.00	$64.50
	12/1/2026	$38.54	$10.90	$9.75	$6.60	$0.00	$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)							
WATER METER INSTALLER PLUMBERS & PIPEFITTERS LOCAL 104 PLUMBERS & PIPEFITTERS LOCAL 104	3/17/2026	$52.76	$13.50	$10.85	$7.10	$0.00	$84.21
	9/17/2026	$56.26	$12.00	$10.85	$7.10	$0.00	$86.21
	3/17/2027	$58.26	$12.00	$10.85	$7.10	$0.00	$88.21
	9/17/2027	$60.26	$12.00	$10.85	$7.10	$0.00	$90.21
	3/17/2028	$62.26	$12.00	$10.85	$7.10	$0.00	$92.21
	9/17/2028	$64.26	$12.00	$10.85	$7.10	$0.00	$94.21
	3/17/2029	$66.26	$12.00	$10.85	$7.10	$0.00	$96.21
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"							

Marine Drilling

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

Op Eng Marine (Dredging Work)

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

Additional Apprentice Information

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

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

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

DOCUMENT A00801

SPECIAL PROVISIONS

CHESTERFIELD-HINSDALE-MIDDLEFIELD-PITTSFIELD
Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 2)

Labor participation goals for this Project shall be 15.3% for minorities and 6.9% for women for each job category. The goals are applicable to both Contractor's and Subcontractor's on-site construction workforce. Refer to Document 00820 for details.

SCOPE OF WORK

All work under this Contract shall be done in conformance with the *2026 Standard Specifications for Highways and Bridges, the Supplemental Specifications* contained in this book, the *Construction Standard Details* in effect as of May 2026, the *1990 Standard Drawings for Signs and Supports*, the 2015 *Overhead Signal Structure and Foundation Standard Drawings*, the *11th Edition of the Manual on Uniform Traffic Control Devices (MUTCD)* and the *January 2026 Massachusetts Amendments to the MUTCD*, *the 1968 Standard Drawings for Traffic Signals and Highway Lighting*, the latest edition of The *American Standard for Nursery Stock*, the Plans and these Special Provisions.

The work to be done under this Contract consists of removal and replacement of hot mix asphalt wearing surfaces, full and partial depth deck repairs, joint replacements, substructure repairs, cleaning and painting of structural steel and structural steel repairs.

The scope of work also includes maintenance of traffic during all operations according to the Temporary Traffic Control Plans as well as all other items of work as may be indicated on the plans or within these specifications.

The extent of the work is location dependent; locations of work are listed below under the heading "Location of Work".

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.

LOCATION OF WORK

The following specific bridges are to have worked performed as follows.

BRIDGE NO.	CITY / TOWN	FACILITY CARRIED	FEATURE INTERSECTED	APPROACH ROADWAY WEARING SURFACE	DECK REPAIRS	JOINT REPAIRS OR REPLACEMENT	SUBSTRUCTURE REPAIRS	CLEANING & PAINTING	CLEAN AND PRIME EXIST STEEL (GALV. REPAIRS)	STRUCTURAL STEEL REPAIRS
C-12-019 (0GA)	CHESTERFIELD	INDIAN HOLLOW ROAD	CHAUNCEY BROOK		YES			NO	YES	YES
H-16-006 (04Y)	HINSDALE	OLD WINDSOR ROAD	WINDSOR BROOK		YES		YES	YES	NO	YES
M-19-003 (05P)	MIDDLEFIELD	TOWN HILL ROAD	FACTORY BROOK	YES	YES			NO	YES	YES
M-19-004 (05Q)	MIDDLEFIELD	TOWN HILL ROAD	FACTORY BROOK		YES		YES	NO	YES	YES
P-10-001 (01W)	PITTSFIELD	HOLMES ROAD	HOUSATONIC RIVER	YES	YES	YES		NO	YES	YES

CONTRACTOR QUESTIONS AND ADDENDUM ACKNOWLEDGEMENTS

Prospective bidders are required to submit all questions to the Construction Contracts Engineer by 3:00 P.M. on the Tuesday of the previous week before the scheduled bid opening date. Any questions received after this time will not be considered for review by the Department.

Contractors should email questions and addendum acknowledgements to the following email address massdotspecifications@dot.state.ma.us The MassDOT proposal number and municipality is to be placed in the subject line.

NONCONFORMING COMPRESSIVE STRENGTH OF CEMENT CONCRETE

Concrete with compressive strength test results failing to attain the limits specified in Table 901.64-3 of 901.64.B: Acceptance Testing shall be evaluated for structural adequacy and serviceability at the Contractors' expense. The Department will review all production records, the concrete test records, petrographic analysis report, field notes, and the placement records for the concrete in question. If the Engineer determines the material is found to be adequate to remain in place, payment shall be adjusted in accordance with the following formula:

$$P = \frac{2(fc - f'c)(UP)(Q)}{f'c}$$

Where:

P = pay adjustment for substandard concrete
$f'c$ = specified minimum compressive strength at 28 days
fc = substandard concrete cylinder compressive strength at 56 days
Q = quantity of concrete represented by the acceptance cylinders tested
UP = unit contract price or the lump sum breakdown price per cubic yard for the class of concrete involved complete in place

HOLIDAY WORK RESTRICTIONS

(Supplementing Subsection 7.09)

The District Highway Director (DHD) may authorize work to continue during these specified time periods if it is determined by the District that the work will not negatively impact the traveling public. DHD may allow work in those areas on a case by case basis and where work is behind barrier and will not impact traffic

Below are the holiday work restrictions:

New Years Day (Federal Holiday)
No work on major arterial roadways from 5:00 AM on the day before until the normal start of business on the next subsequent business day. No work on local roadways on the holiday without permission by the DHD and the local police chief.

Martin Luther King's Birthday (Federal Holiday)
No work restrictions due to traffic concerns, however work on local roadways requires permission by the DHD and local police chief.

President's Day (Federal Holiday)
No work restrictions due to traffic concerns, however work on local roadways requires permission by the DHD and local police chief.

Evacuation Day (Suffolk County State Holiday)
No work restrictions due to traffic concerns.

HOLIDAY WORK RESTRICTIONS (Continued)

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.

SOIL STOCKPILING DIRECTIVE P-22-001

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

SUBSECTION 8.02 SCHEDULE OF OPERATIONS

Replace this subsection with the following:

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

TRUCK SAFETY DEVICES

(Supplementing Subsection 7.04: Motor Vehicles)

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

The Contractor shall certify to the Registry of Motor Vehicles, in a manner prescribed by the Registrar, that all applicable vehicles are equipped with Lateral Protective Devices, Convex Mirrors, Cross Over Mirror(s) and Back Up Cameras in accordance with the requirements of 540 CMR 4.00.

The Contractor shall provide evidence satisfactory to the Department to demonstrate compliance with the above certification requirement for all applicable vehicles operated under this Contract by the Contractor and its subcontractors and vendors in a manner set forth by the Department. Thereafter, the Contractor shall have an affirmative obligation to continue to provide such evidence of compliance on an ongoing basis and no later than 7 days after certification with the Registry of Motor Vehicles of any additional vehicles operated under this Contract by the Contractor and its subcontractors and vendors.

Non-compliance with respect to a vehicle that is subject to 540 CMR 4.00 may subject the Contractor to statutory fines as established in M.G.L. c. 90, § 7 and/or contractual remedies up to and including termination of the Contract.

SUBSECTION 8.14 UTILITY COORDINATION, DOCUMENTATION, AND MONITORING RESPONSIBILITIES

A. GENERAL

In accordance with the provisions of Section 8.00 Prosecution and Progress, utility coordination is a critical aspect to this Contract. This section defines the responsibility of the Contractor and MassDOT, with regard to the initial utility relocation plan and changes that occur as the prosecution of the Work progresses. The Engineer, with assistance from the Contractor shall coordinate with Utility companies that are impacted by the Contractor's operations. To support this effort, the Contractor shall provide routine and accurate schedule updates, provide notification of delays, and provide documentation of the steps taken to resolve any conflicts for the temporary and/or permanent relocations of the impacted utilities. The Contractor shall provide copies to the Engineer of the Contractor communication with the Utility companies, including but not limited to:

- Providing advanced notice, for all utility-related meetings initiated by the Contractor.
- Providing meeting minutes for all utility-related meetings that the Contractor attends.
- Providing all test pit records.
- Request for Early Utility work requirements of this section (see below).
- Notification letters for any proposed changes to Utility start dates and/or sequencing.
- Written notification to the Engineer of all apparent utility delays within seven (7) Calendar Days after a recognized delay to actual work in the field – either caused by a Utility or the Contractor.
- Any communication, initiated by the Contractor, associated with additional Right-of-Way needs in support of utility work.
- Submission of completed Utility Completion Forms.

B. PROJECT UTILITY COORDINATION (PUC) FORM

The utility schedule and sequence information provided in the Project Utility Coordination Form (if applicable) is the best available information at the time of the bid and has been considered in setting the contract duration. The Contractor shall use all of this information in developing the bid price and the Baseline Schedule Submission, inclusive of the individual utility durations sequencing requirements, and any work that has been noted as potentially concurrent utility installations.

C. INITIATION OF UTILITY WORK

The Engineer will issue all initial notice-to-proceed dates to each Utility company based on either the:

1) Contractor's accepted Baseline Schedule
2) An approved Early Utility Request in the form of an Early Utility sub-net schedule (in accordance with the requirements of this Subsection)
3) An approved Proposal Schedule

C.1 - BASELINE SCHEDULE – UTILITY BASIS

The Contractor shall provide a Baseline Schedule submission in accordance with the requirements of Subsection 8.02 and inclusive of all of the information provided in the PUC Form that has been issued in the Contract documents. This is to include the utility durations, sequencing of work, allowable concurrent work, and all applicable considerations that have been depicted on the PUC Form.

SUBSECTION 8.14 (Continued)

C.2 – EARLY UTILITY REQUEST – (aka SUBNET SCHEDULE) PRIOR TO THE BASELINE
All early utility work is defined as any anticipated/required utility relocations that need to occur prior to the Baseline Schedule acceptance. In all cases of proposed early utility relocation, the Contractor shall present all known information at the pre-construction conference in the form of a 'sub-net' schedule showing when each early utility activity needs to be issued a notice-to-proceed. The Contractor shall provide advance notification of this intent to request early utility work in writing at or prior to the Pre-Construction meeting. Prior to officially requesting approval for early utility work, the Contractor shall also coordinate with MassDOT and all utility companies (private, state or municipal) which may be impacted by the Contract. If this request is acceptable to the Utilities and to MassDOT, the Engineer will issue a notice-to-proceed to the affected Utilities, based on these accepted dates.

C.3 – PROPOSAL SCHEDULE - CHANGES TO THE PUC FORM
If the Contractor intends to submit a schedule (in accordance with MassDOT Standard Specifications, Division I, Subsection 8.02) that contains durations or sequencing that vary from those provided in the Project Utility Coordination (PUC) Form, the Contactor must submit this as an intended change, in the form of a Proposal Schedule and in accordance with MassDOT Standard Specifications, Division I, Subsection 8.02. These proposed changes are subject to the approval of the Engineer and the impacted utilities, in the form of this Proposal Schedule and a proposed revision to the PUC form. The Contractor shall not proceed with any changes of this type without written authorization from the Engineer, that references the approved Proposal Schedule and PUC form changes. The submission of the Baseline Schedule should not include any of these types of proposed utility changes and should not delay the submission of the Baseline Schedule. As a prerequisite to the Proposal Schedule submission, and in advance of the utility notification(s) period, the Contractor shall coordinate the proposed utility changes with the Engineer and the utility companies, to develop a mutually agreed upon schedule, prior to the start of construction.

D. UTILITY DELAYS
The Contractor shall notify the Engineer upon becoming aware that a Utility owner is not advancing the work in accordance with the approved utility schedule. Such notice shall be provided to the Engineer no later than seven (7) calendar days after the occurrence of the event that the Contractor believes to be a utility delay. After such notice, the Engineer and the Contractor shall continue to diligently seek the Utility Owner's cooperation in performing their scope of Work.

In order to demonstrate that a critical path delay has been caused by a third-party Utility, the Contractor must demonstrate, through the requirements of the monthly Progress Schedule submissions and the supporting contract records associated with Subsection 8.02, 8.10 and 8.14, that the delays were beyond the control of the Contractor.

SUBSECTION 8.14 (Continued)

All documentation provided in this section is subject to the review and verification of the Engineer and, if required, the Utility Owner. In accordance with MassDOT Specifications, Division I, Subsection 8.10, a Time Extension will be granted for a delay caused by a Utility, only if the actual duration of the utility work is in excess of that shown on the Project Utility Coordination Form, and only if;

1) proper Notification of Delay was provided to MassDOT in accordance with the time requirements that are specified in this Section
2) the utility delay is a critical path impact to the Baseline Schedule (or most recently approved Progress Schedule)

E. LOCATION OF UTILITIES

The locations of existing utilities are shown on the Contract drawings as an approximation only. The Contractor shall perform a pre-construction utility survey, including any required test pits, to determine the location of all known utilities no later than thirty (30) calendar days before commencing physical site work in the affected area.

F. POST UTILITY SURVEY – NOTIFICATION

Following completion of a utility survey of existing locations, the Contractor will be responsible to notify the Engineer of any known conflicts associated with the actual location of utilities prior to the start of the work. The Engineer and the Contractor will coordinate with any utility whose assets are to be affected by the Work of this Contract. A partial list of utility contact information is provided in the Project Utility Coordination Form.

G. MEETINGS AND COOPERATION WITH UTILITY OWNERS

The Contractor shall notify the Engineer in advance of any meeting they initiate with a Utility Owner's representative to allow MassDOT to participate in the meeting if needed.

Prior to the Pre-Construction Meeting, the Contractor should meet with all Utility Owners who will be required to perform utility relocations within the first 6 months of the project, to update the affected utilities of the Project Utility Coordination Form and all other applicable Contract requirements that impact the Utilities. The Contractor shall copy the Engineer on any correspondence between the Utility Owner and the Contractor.

H. FORCE ACCOUNT / UTILITY MONITORING REQUIREMENTS

The Engineer will be responsible for recording daily Utility work force reports. The start, suspension, re-start, and completion dates of each of the Utilities, within each phase of the utility relocation work, will be monitored and agreed to by the Engineer and the Contractor as the work progresses.

I. ACCESS AND INSPECTION

The Contractor shall be responsible for allowing Utility owners access to their own utilities to perform the relocations and/or inspections. The Contractor shall schedule their work accordingly so as not to delay or prevent each utility from maintaining their relocation schedule.

COMPLIANCE WITH THE NATIONAL DEFENSE AUTHORIZATION ACT

(Supplementing Subsection 7.01)

On all projects, the "Prohibition on Certain Telecommunications and Video Surveillance Services or Equipment" Regulation (2 CFR 200.216) prohibits the Contractor from using or furnishing the following telecommunications equipment or services:

- Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities).
- For the purpose of public safety, security of government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities).
- Telecommunications or video surveillance services provided by such entities or using such equipment.
- Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of the National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

This prohibition applies to all products manufactured by the aforementioned companies, including any individual components or parts.

By submitting a bid on a project, the Contractor certifies that all work will be in compliance with the terms of 2 CFR 200.216. The Contractor shall submit a COC indicating compliance with the above provisions for all telecommunications equipment or services included in the Contract.

Payment for the item in which the materials are incorporated may be withheld until these COCs are received. Any cost involved in furnishing the certificate(s) shall be borne by the Contractor.

PROPRIETARY PRODUCTS

A letter discussing the HILTI HIT RE-500V3. ADHESIVE ANCHOR as a proprietary specification pursuant to M.G.L. c. 30, sec. 39M(b) has been placed in the Project file. The HILTI HIT RE-500V3, ADHESIVE ANCHOR shall be manufactured by HILTI CORPORATION or approved equal.

CONTRACTOR ACCESS

Contractors shall be aware that there are multi-span bridges with abutments located away from the road. No compensation will be made for access roads to get equipment or personnel to the work site. In addition, no compensation will be made for staging to access repair areas, etc.

SCHEDULE OF WORK

The Contractor shall coordinate all construction operations with the municipalities of Chesterfield, Hinsdale, Middlefield (two bridge locations), and Pittsfield, including traffic control, lane closures, detours, staging, and work hours. A minimum of 14 calendar days written notice shall be provided to the municipalities and the Engineer prior to any traffic control setup, lane closure, detour, or staging change, and a minimum of 72 hours notice shall be provided for short-duration or temporary changes unless otherwise approved by the Engineer. No night work shall be permitted unless approved in writing by the Engineer. The Middlefield bridges will not be under construction concurrently since they provide the detour for the adjacent bridge.

All detours and lane closures shall be in place for a maximum of six (6) weeks.

The Contractor shall coordinate with local police, fire, and emergency services to maintain emergency access at all times and shall maintain access to residences, businesses, and abutting properties at all times unless otherwise approved by the Engineer.

For work in Chesterfield, construction activities shall be prohibited from May 1 through September 30 when the Indian Hollow Campground is open to the public; work may proceed between October 1 through April 30 unless otherwise directed by the Engineer. The Contractor shall coordinate all operations with the adjacent property owner to maintain access and operational needs, and shall maintain steel plates on-site or readily available to provide temporary access during deck repair operations as directed by the Engineer. The Contractor shall designate a single point of contact for coordination and provide contact information to the Engineer and municipalities prior to commencement of work.

No separate payment will be made for work required under this provision; all costs shall be included in the Contract prices for the applicable items.

MassDOT has determined that the Contractor shall schedule work to expedite bridge work with a minimum disruption to road users and minimal impact to environmental resources while providing work zone safety. As a result, the Contractor is encouraged to perform concurrent work to facilitate on-time, on-budget project completion.

The Contractor shall schedule work to ensure the final coat of paint is not damaged by other operations. Any damage to coatings due to other Contractor's operations shall be repaired at the Contractor's expense.

The Contractor shall schedule the work with consideration that zinc primer alone left exposed may deteriorate over a season. If the zinc primer is left exposed the contractor will be responsible for any surface preparation or rework needed prior to the application of the intermediate and final coats. Consideration should be given to applying the full three-coat system in a single season in all areas that do not require steel repairs, to limit rework as much as practical.

The Contractor shall schedule operations such that any beam requiring temporary support or jacking shall be performed efficiently and will be paid once per location. This may require concurrent substructure and superstructure repairs.

SCHEDULE OF WORK (Continued)

Any jacking and shoring reused at the same bridge crossing shall be considered a remove and reset. Jacking and shoring transported to a new location will be considered a new payment of the jacking and shoring item.

The Project involves bridge preservation at multiple locations. Concurrent traffic control shall be restricted as follows:
Bridges No. M-19-003 and M-19-004 topside traffic control cannot occur simultaneously as each bridge provides the detour route for the other bridge.

The Contractor shall pursue all reasonable means to minimize road closures by ensuring that all required work is being performed simultaneously.

SUBSECTION 8.06 LIMITATIONS OF OPERATIONS

Add/amend the following at the end of the Section:

Access Restraints:

An Access Restraint is a restriction of physical work, of a specific area or operation in the Contract, to allow all bidders to evaluate anticipated work restrictions, equally, during the pre-bid planning stages.

This Contract contains the following Access Restraints that shall be included in the Contractor's Baseline Schedule submission, in accordance with the terms and conditions of the contract that identifies the Access Restraints noted below:

- **AR#1 – Access Restraint #01**: The Contractor shall detour traffic for construction for Bridge Structure Number C-12-019 (0GA), Indian Hollow Road in Chesterfield. The daily bridge closure is only allowed between October 1 to May 1 when the Indian Hollow Campground is closed. The contractor to retain steel plates on site to plate over work as required for access to the abutting residence. Daily bridge closures are only allowed to be in place no longer than 6 weeks.

- **AR#2 – Access Restraint #02:** The Contractor shall detour traffic for construction for Bridge Structure Number H-16-006 (04Y), Old Windsor Road in Hinsdale. Detour is exempt from the 6-week closure restriction.

- **AR#3 – Access Restraint #03:** The Contractor shall detour traffic for construction for Bridge Structure Number M-19-003 (05P), Town Hill Road in Middlefield. Detour for this bridge cannot occur while bridge M-19-004 is closed. Detour to be in place no longer than 6 weeks.

SUBSECTION 8.06 LIMITATIONS OF OPERATIONS (Continued)

- **AR#4 – Access Restraint #04:** The Contractor shall detour traffic for construction for Bridge Structure Number M-19-004 (05Q), Town Hill Road in Middlefield. Detour for this bridge cannot occur while bridge M-19-003 is closed. Detour to be in place no longer than 6 weeks.

- **AR#5 – Access Restraint #05:** The Contractor shall use one lane alternating staged construction for Bridge Structure Number P-10-001 (01W), Holmes Road in Pittsfield. Contractor to perform end diaphragm work under existing lane configuration. Contractor's equipment to be staged off the bridge during this phase and no equipment to travel in the closed zones of the bridge without approval of the Engineer. After end diaphragms have sufficiently cured, contractor to complete work with daytime closures under police details. Road to be opened at night so contractor to stage work to only what can be completed in a day. The City has requested the work be performed between June 25th and August 20th when the contractor's operations will not affect school bus traffic. The contractor to coordinate with the City for approval of any work outside this window.

Work Restrictions:

Additionally, this contract contains the following work restrictions:

- Bridge Structure Numbers C-12-019 (0GA), H-16-006 (04Y), M-19-003 (05P), and M-19-004 (05Q) shall be closed to traffic, to accomplish the work described to repair and reopen the bridge to traffic.
- No temporary traffic control other than daily traffic setups are to be in place during winter shutdowns.
- All work must be scheduled and coordinated with the respective municipalities. The municipalities must be notified a minimum of 30 days prior to the work commencing.
- Each long term temporary traffic control shall be in place no longer than 6 weeks.

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.

NOTICE TO OWNERS OF UTILITIES

(Supplementing Subsection 7.13)

District 2 Utility/Constructability Engineer Paul Kelly

Paul.Kelly@DOT.state.ma.us

If available, existing 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.

EVERSOURCE EMERGENCY TELEPHONE NUMBERS

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

BERKSHIRE GAS EMERGENCY TELEPHONE NUMBERS

GAS:
Outage/Emergency: 1-800-292-5012 or 413-499-1680
New Service: 1- 800-297-7144
Customer Support: 1-800-292-5012

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 be responsible for informing 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.

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.

GENERAL REQUIREMENTS FOR DEMOLITION AND WORK INVOLVING PAINTED STEEL (Continued)

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".

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.

GENERAL REQUIREMENTS FOR DEMOLITION AND WORK INVOLVING PAINTED STEEL (Continued)

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 30µg/m3.

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.

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.

EMERALD ASH BORER ADVISORY

To the extent possible, all trees and brush shall be disposed on site, typically chipped and spread in place. When trees or brush must be removed, such as in urban, or otherwise populated areas, Contractor shall identify proposed location for disposal, and provide written notification to the Engineer for approval. Disposal shall be in city or town of project, or at minimum, within county, of construction operations.

SUPPLEMENTAL REQUIREMENTS FOR NON-BID ITEMS
(Supplementing Subsection 3.04)

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

CONTAMINATED MATERIALS

When generation of hazardous wastes and/or excavation may be conducted within a contaminated area, this information is to be communicated to the Resident Engineer (RE), District Environmental Engineer (DEE), or the project designee prior to initiating the work. The RE, DEE, or project designee is responsible for assisting in the development of the required management procedures for hazardous/regulated wastes that may be generated during the project (including personal protective equipment, generation of manifests, collection/storage of wastes, transfer/disposal of wastes, and tracking manifest documentation). The work will be paid under Non-Bid Items as required by the Engineer. No Assignment of work will be allowed without the approval of the Engineer.

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, 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.

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

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.
- 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.**

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

- **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).
        - 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.

ITEM 101.01 CLEARING AND GRUBBING AT BRIDGES SQUARE YARD

The work under this item shall conform to the relevant provisions of Subsection 101 of the Standard Specifications and the following:

The work to be done under this item consists of clearing trees and shrubs outside the proposed parapet face of the wingwall and other selected areas directed by the Engineer to provide access for repair and inspection work.

Areas along the wingwall, abutments, and along the ten (10) feet of approach sidewalks or curblines of the bridges shall be cleared and grubbed for a width of fifteen (15) feet from the face of feature or to the edge of the right of way if less than fifteen (15) feet from the face of feature and as directed by the Engineer.

All debris shall be removed and properly disposed from the site.

METHOD OF MEASUREMENT

Item 101.01 will be measured for payment by Square Yard, by the horizontal plane area.

BASIS OF PAYMENT

Item 101.01 will be paid for at the contract unit price per Square Yard, which price shall include all labor, materials, equipment, removal of all brush, trees, stumps and roots within the designated area, and incidental costs required to complete the work.

No separate payment will be made for any individual trees or stumps removed within the area.

ITEM 102. SELECTIVE CLEARING AND THINNING ACRE

Work under this Item shall conform to the relevant provisions of Subsection 101, and the following:

For Bridge P-10-001 (Holmes Road over the Housatonic) all areas along the wing walls and abutments shall be selectively cleared and thinned a minimum 10 feet wide. Only small trees (diameter less than 3-inches), hazard trees, shrubs, and limbs shall be removed for the purpose of contractor inspection and access. The selective clearing and thinning shall only occur using hand tools or via machinery located on the existing roadway. All felled debris must be removed from the area immediately and stockpiled on existing paved areas if needed. Any chipping or mulching of the woody vegetation shall occur on existing paved areas. No ground disturbance may occur.

Should woody vegetation be removed not as specified or ground disturbance occur, the Massachusetts Natural Heritage and Endangered Species Program (NHESP) may issue a cease work order for the contractor and the project will be in violation of the Massachusetts Endangered Species Act (MESA).

ITEM 106.493 POLYESTER POLYMER CONCRETE FOR TOPSIDE DECK REPAIRS SQUARE YARD

The work under this Item consists of using polyester polymer concrete (PPC) for patching the topside of bridge decks and concrete joint headers.

The work shall follow the provided contract drawings where the deck patch does not exceed 2" in depth and shall be as required by the Engineer. The final surface shall meet the existing profile and existing cross slopes.

MATERIALS

The PPC shall consist of polyester resin binder and aggregate as specified below. It shall also include a compatible primer which when mixed with other specified ingredients and applied as specified herein, is capable of producing a PPC meeting the requirements of this specification. All components must be supplied as complete system by same provider referred to as the System Provider.

Polyester Resin Binder. Polyester resin binder shall have the following properties:

(1) Be an unsaturated isophthalic polyester-styrene co-polymer. The resin content shall be 12% +/-1% of the weight of the dry aggregate.
(2) Be used with a promoter that is compatible with suitable methyl ethyl ketone peroxide and cumene hydroperoxide initiators.
(3) Have the values for the material properties shown in the table below:
(4) Accelerators or inhibitor may be required to achieve proper setting time of PPC. They shall be used as recommended by the System Provider.

POLYESTER RESIN BINDER PROPERTIES (Tested yearly)

Property	Test Method	Requirement
Viscosity*	ASTM D 2196	75 – 200 cps (RVT No.1 Spindle, 20 RPM at 77 °F)
Specific Gravity*	ASTM D 1475	1.05 to 1.10 at 77 °F
Elongation	ASTM D 638	35 percent, minimum Type I specimen, thickness 0.25 ± 0.03" at Rate = 0.45 inch/minute.
	ASTM D 618	Sample Conditioning: 18/25/50+5/70
Tensile Strength	ASTM D 638	2,500 psi, minimum Type I specimen, thickness 0.25 ± 0.03" at Rate = 0.45 inch/minute.
	ASTM D 618	Sample Conditioning: 18/25/50+5/70
* Test shall be performed before adding initiator.		

ITEM 106.493 (Continued)

(A) **High Molecular Weight Methacrylate (HMWM) Primer.** Primer for the substrate concrete surface shall be a wax-free low odor, high molecular weight methacrylate primer, and consist of a resin, initiator, and promoter. The primer shall conform to the requirements outlined in the table below, and all components shall be supplied by the System Provider. Initiator for the methacrylate resin shall consist of a metal drier and peroxide. If supplied separately from the resin, the metal drier shall not be mixed with the peroxide directly; a VIOLENT EXOTHERMIC REACTION will occur. The containers and measuring devices shall not be stored in a manner that allows leakage or spilling to contact the containers or materials of the other.

HIGH MOLECULAR WEIGHT METHACRYLATE RESIN PROPERTIES (Tested yearly)

Property	Test Method	Requirement
Viscosity**	ASTM D 2196	25 cps maximum (Brookfield RVT with UL adapter, 50 RPM at 77 °F)
Volatile Content**	ASTM D 2369	30 percent, maximum
Specific Gravity**	ASTM D 1475	0.90 minimum at 77 °F
Flash Point	ASTM D 3278	180 °F minimum
Vapor Pressure**	ASTM D 323	1.0 mm Hg, maximum at 77 °F
**Test shall be performed before initiator is added		

(B) **Aggregates.** Polyester concrete aggregate shall have the following properties:

(1) Provide fine aggregate consisting of natural sand only.
(2) At the time of mixing with resin, have moisture content of not more than one half of the weighted-average aggregate absorption when tested under AASHTO Test Method T255.
(3) Conform to the Table and comply with the aggregate gradation requirements specified therein.

AGGREGATE PROPERTIES (Tested yearly)

Property	Test Method	Requirement
Crushed particles	AASHTO T335	<45% Crushed Particles, retained on the No. 8 Sieve
Weighted-average aggregate absorption	AASHTO T84 and T85	<1%
Moh's Hardness	Mohs Hardness Test	≥7 (≥6.5 if system has demonstrated more than 10 years of success on large scale installations)

ITEM 106.493 (Continued)

AGGREGATE GRADATION (Tested yearly)

Sieve Size	Percent Passing
3/8”	98
No. 4	62-85
No. 8	45-67
No. 16	29-50
No. 30	16-36
No. 50	5-20
No. 100	0-7
No. 200	0-3

2. **Polyester Polymer Concrete (PPC).** The PPC composite mixture must meet the following requirements

COMPOSITE PROPERTIES (Tested yearly)

Property	Test Method	Requirement
PCC Saturated Surface Dry Bond Strength	CT 551	500 psi minimum at 24 hrs. and 70°± 1° F (without primer, at 12% resin content by weight of the dry aggregate, on Saturated Surface Dry Specimen)
PCC Saturated Surface-Dry Bond Strength (Adhesive)	CT 551	700 psi, minimum at 24 hours and 70° ± 1°F (at 12% resin content by weight of the dry aggregate), HMWM primed surface

3. **Surface Finishing Sand.** Sand for abrasive sand finish shall have the following properties:
   (1) Be commercial-quality blast sand.
   (2) Have not less than 85 percent pass the No. 8 sieve and not less than 90 percent retained on the No. 20 sieve when tested under AASHTO Test Method T27.
   (3) Shall be kiln dried and protected from moisture until time of placement to ensure dryness at the time of application.

Construction Requirements

Trial Application. Prior to constructing the overlay, one or more trial applications shall be placed on a previously constructed concrete base to demonstrate proper initial set time as specified herein and the effectiveness of the surface prep, mixing, placing, and finishing equipment/methods proposed. Each trial application shall be the planned paving width, at least 10 feet long, and the same specified thickness. Conditions during the construction of the trial application(s) and equipment used shall be similar to those to be used for construction. The location of the trial application(s) shall be approved by the Engineer. Trial applications shall be properly disposed of off-site by the Contractor if removal is necessary.

ITEM 106.493 (Continued)

If significant successful experience is demonstrated by both the installer and System Provider together, the first shift of PPC installation may be considered as the Trial Application if approved

by the Engineer. Rejection of all or part of the trial in this case will be required to be removed and disposed of at no additional cost. If no further installation is allowed due to full rejection after multiple trials, the site will be restored to initial in-service conditions at no additional cost

The number of trial applications required shall be as many as necessary for the Contractor to demonstrate the ability to construct an acceptable trial section and competency to perform the work. However, the installer, proposed equipment/techniques, or material may be rejected if not shown to be acceptable after two (2) trials.

Tensile bond testing and soundness testing shall be performed in accordance with the acceptance testing herein. Acceptable test results shall be achieved on a trial application before further approved installation may proceed. Tensile bond testing shall be performed by an independent testing firm and shall be arranged by the Contractor, cost to be included in bid price for PPC placement item.

Equipment. All equipment for cleaning the existing concrete surface, and mixing & applying the overlay system shall be as specified, in accordance with the System Provider's recommendations, and as approved by the Engineer prior to commencement of any work.

(a) ***Mixing Equipment:*** A portable mechanical mixer of appropriate size for proposed batches, as recommended by the System Provider and approved by the Engineer, may be used for all PPC patching applications and for smaller area applications if approved by the Engineer.

(b) ***Finishing Equipment*****:** Finishing of patch areas shall be completed using hand concrete finishing tools. Patches shall be placed flush with the top of the existing deck surface.

Surface Preparation.

For newly constructed bridge decks, the deck concrete shall cure a minimum of 28 days and attain the required Field Compressive Strength prior to the placement of PPC

The surface of concrete substrate shall be prepared for application of the PPC by abrasive blasting in order to remove all grease, slurry, oils, paint, dirt, striping, cure compound, rust, membrane, milling slurry, weak surface mortar or any other contaminants that could interfere with the proper adhesion of the PPC mix. Hydro blasting will not be allowed for surface preparation. The areas to be repaired shall be blown off with oil free and moisture free compressed air just prior to placement of the primer and shall be completely dry. Cleaning methods other than those detailed by specification may be suggested by the System Provider and approved by the Engineer. All steel surfaces that will be in contact with the PPC shall be cleaned in accordance with SSPC-SP No. 10, Near-White Blast Cleaning, except that wet blasting methods shall not be allowed.

ITEM 106.493 (Continued)

Application of PPC. Methods shown in this specification are typical of general installations and may be modified per the System Provider's recommendations as approved by the Engineer.

The concrete substrate surface must be dry before placing the HMWM primer and PPC. The surface must be free of any standing water or surface darkening that would indicate locations of previously standing water. The entire concrete substrate surface must appear to be uniformly light

in color and show no further lightening when drying methods such as blowing compressed air or heating with a propane torch are applied. Cracks in the concrete substrate must also be dry.

The concrete surface temperature shall be between 40° (and rising) and 100° F at the time of the placement of PPC. Night work may be required when temperatures cannot be met during the day. Exact conditions should be verified as within successful experience for the proposed System. Substrate deck repairs may be performed with PPC outside of the specified temperature range provided the system and technical support representative have demonstrated sufficient successful experience within the anticipated conditions.

(a) ***HMWM Primer Application:*** Immediately before placing primer, all exposed surfaces shall be completely dry and blown clean with oil-free compressed air from 185 CFM minimum compressor through maximum 1.5 in blow pipe. Lawn/leaf blowers will not be accepted for final cleaning of prepared surface. Exposed surfaces shall not be exposed to precipitation or heavy dew during and after the application of the primer.

After the exposed surfaces have been prepared and are dry, primer shall be applied in accordance with the System Provider's recommendations. Primer shall be placed within 5 minutes of mixing at approximately 90 sf/gal or the rate that provides substrate saturation acceptable to the Engineer.

Primer shall be applied by flooding and uniformly spread to completely cover all surfaces designated to receive the PPC mix. Care shall be taken to avoid heavy application that results in excess puddling. Excess material shall be removed or distributed to meet the required saturation without excessive puddling. Primer shall be reapplied to any areas that appear dry fifteen (15) minutes after primer placement, prior to the placement of the PPC mix.

(b) Polyester Concrete Application: The polyester concrete shall be applied after 15 minutes and within 2 hours after the primer has been applied. The polyester concrete shall be placed prior to gelling or 15 minutes following addition of initiator, whichever occurs first.

The polyester resin binder shall be initiated and blended completely. Aggregate shall be added and mixed sufficiently when a portable mechanical mixer is used.

Polyester concrete shall have an initial set time of at least 20 minutes and at most 90 minutes following resin catalyzation. The initial set time can be determined in the field when the in-place PPC cannot be deformed by pressing with a finger, indicating that the resin binder is no longer in a liquid state. **If the initial set is not within 90 minutes of catalyzation, the material shall be removed and replaced at no additional cost**.

ITEM 106.493 (Continued)

The mix shall be consolidated and finished to the required grade and cross-section using PPC placement equipment as defined herein.

Resin content shall be as specified in Materials A and yield a PPC consistency that requires surface applied consolidation and finishing to consolidate the PPC and yield a slight sheen of bleed resin on top surface yet does not yield excess bleed resin. Lower resin contents may be acceptable to achieve the proper consolidation and finish in excess of 2 inches thick.

Surface friction sand finish of at least 2.2 lbs. per square yard shall be applied evenly to refusal by hand broadcasting onto the glossy surface immediately after sufficient finishing and before resin gelling occurs. To ensure adequate pavement friction, the completed PPC overlay surface shall be free of any smooth or "glassy" areas such as those resulting from insufficient quantities of surface aggregate. Any such surface defects shall be repaired by the Contractor in the manner recommended by the System Provider and approved by the Engineer at no additional cost.

(c) Curing: Protect the overlay from moisture, traffic, and equipment for at least 2 hours after final finishing. The Engineer may extend protection time if sufficient strength or adhesion is not achieved. **The in-place material must achieve test reading from a calibrated Schmidt Hammer of at least 3,000 psi within 4 hours after final finishing**, and before traffic or equipment is allowed on the overlay if opened in less than four hours. Proper cure rate necessary to achieve sufficient initial and final strength depends on proper initiator/accelerator levels to account for field conditions such as ambient and substrate temperatures.

METHOD OF MEASUREMENT

Item 106.493 will be measured for payment by the Square Yard of polyester polymer concrete placed upon the deck, as required by the Engineer.

BASIS OF PAYMENT

Item 106.493 will be paid at the Contract unit price per Square Yard, which price shall include all labor, materials, tools, equipment, all costs associated with providing the manufacturer's representatives, all costs associated with the cathodic arrestor, and incidental costs required to complete the work.

ITEM 106.88 JACKING AND SHORING EACH

The work under these Items consists of jacking and shoring existing beams/girders as required by the Contract Plans and Details and/or as directed by work order or the Engineer. The work shall also include removal and resetting of jacking and shoring from installed locations to support other existing beams/girders as directed by the work order or Engineer.

Shoring materials may be new or second hand. The Contractor shall submit a plan of the proposed work showing the details and indicating the materials to be used. The submittal shall include the jacking load calculations and shoring design computations, based on the bridge configurations and the working stresses of the materials used, sequence of operations, and all details incidental thereto. Unless otherwise directed by the Engineer, the proposed jacking and shoring system shall be designed to apply force in increments to the existing beam/girder to relieve load from the existing substructure. The jack(s) shall have a locking mechanism preventing the beam/girder from lowering in the event of loss of hydraulic pressure. All components of the system shall have load capacity greater than the total calculated load carried by the existing beam/girder during normal traffic operation, which includes but not limited to, dead load, live load, and impact load.

The Contractor shall design, furnish, and install all jacking and shoring systems such that they are anchored to the front face of the abutment. Temporary supports shall not be located within or bear on the stream bed. In-water work is not permitted under the project permits; therefore, systems requiring placement within the channel will not be allowed, unless the contractor acquires the required environmental permits with no compensation from the owner, including for schedule delays.

Bridge Loads: The Contractor shall be responsible for calculating loads (live and impact loads, dead loads...etc.) necessary to design shoring paid under this Item. Soil bearing values shall be determined per section 2.5.2 of the AASHTO Guide Design Specifications for Bridge Temporary Works. All materials (except jacks) shall be designed by working stress design (ASD). Type of jacks used, and factor of safety shall be per industry standards.

Approval of this submission shall be obtained prior to the commencement of any work under this item. The above plan and computations shall bear the seal and signature of a Professional Engineer of the appropriate discipline registered in Massachusetts.

Materials shall meet the following:
Wood Products: M9.05.1
Fastenings: M8.01.5
Bridge Related Structural Steel: M8.05.0

The Contractor shall remove and retain ownership of all materials and items furnished by him and that are not part of the permanent structure, unless other prior arrangements are made with the Engineer for MassDOT to purchase all or some of the shoring elements.

ITEM 106.88 (Continued)

All treated wood supplied by the Contractor shall meet the requirements of M9.05.1 for Wood Products, including the most recent versions of AWPA U1 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.

The successful prosecution, safety, and completion of the work in an acceptable manner is the responsibility of the Contractor. In the event of any damage to the structure due to inadequate supports, or Contractor negligence, the Contractor shall repair or replace any such damaged components at no cost to the department. The support of the beams/girders shall remain in place until repair is completed to the satisfaction of the Engineer.

The work shall be performed as follows:

Erect supports under each beam/girder as directed by the Engineer. When possible, all supports shall be located on the beam seat in front of the bearing and aligned with the bearing centerline. In some cases, inadequate space or existing beam seat deterioration will prevent jacking in front of the bearing. At these locations, the Contractor shall install a steel bracket to the face of the abutment as shown in the Contract Plans. The Contractor shall clarify their intended method of jacking and shoring (i.e. in front of bearing or from a steel bracket) in the jacking and shoring submittal. Under no circumstances shall the jacking and shoring system be located within the waterway.

In the event of any damage to the structure by the Contractor's operations, the Contractor shall repair or replace any such damaged components at no cost to the department.

In the case that both concrete beam seat repairs and bearing reset are required at the same beam end, the Contractor shall perform the work such that all work is completed under one jacking and shoring effort. No extra payment shall be made to re-install a temporary support at a beam end location that has already been removed. The Contractor is responsible for phasing the proposed work appropriately.

Method of Measurements

Item 106.88 will be measured for payment by the Each steel beam/girder end jacked and shored as directed by the Engineer, complete in place. Multiple jacking of the same end for the same repair will not be measured separately.

Basis of Payment

Item 106.88 will be paid for at the Contract unit price by the Each, which price shall include all labor, materials, tools, equipment, engineering services and incidental costs required to complete the work.

Contractor will only be compensated once per jacking and shoring location and shall sequence the work accordingly.

ITEM 107.97 STRUCTURAL STEEL REPAIRS POUND

The work under this Item shall conform to the relevant provisions of Subsections 960 and 961 of the Standard Specifications and the following:

The work shall include furnishing, fabricating, transporting, and erecting structural steel for repairing the deterioration of the structural steel beams. It shall also include replacing structural steel bracing, utility support and diaphragms, as required by the Engineer.

Additional steel repairs may be required following completion of the cleaning and priming of the steel. An inspection shall be performed by the Engineer following cleaning and priming of the steel and all limits confirmed at the time of inspection. The final limits for each of the repairs and additional in-kind replacement will be provided by the Engineer, after cleaning and priming of the steel. Live loads and construction loads shall be removed from the bridge during installation of the flange repair plates.

The Contractor shall note that certain repair locations are known to have obstacles that are in conflict with the work that is to be performed. Work required to move, remove, replace, work around, or modify any obstacles interfering with the structural steel repair work, such as utilities and diaphragms, shall be included in this item and be performed with no additional compensation, and shall be incidental to the unit price bid for this item.

At locations with loose or backed-off anchor bolt nuts, tighten the nuts to the required condition. All labor, materials (including the neoprene pad), and equipment necessary to complete this work and shall be incidental to the unit price bid for this item.

Keeper plates and all related work necessary for their furnishing, fabrication, and installation shall be paid under Item 107.97 – Structural Steel Repairs. This shall include, but not be limited to, field measuring, shop fabrication, cutting, drilling, surface preparation, fasteners, bolting, welding where required, field fitting, and all incidental work required to complete the repairs and ensure proper integration with existing structural steel components. Threaded rods are also paid for under this item.

Structural steel components damaged by the Contractor's operation shall be repaired in conformance with these specifications. The costs of such repairs shall be borne by the Contractor. Structural steel repairs will include repairing deteriorated beam ends at locations as directed by the Engineer; also, the in-kind replacement of deteriorated bracing and/or utility supports when deemed required by the Engineer.

The Contractor shall be required to clean and prime repair areas prior to any structural steel repairs required by the Engineer, which will be considered incidental to this item. Repair areas shall be cleaned and painted two feet beyond repair limits.

Prior to priming steel all areas are to be prepared to a power tool cleaned condition (SSPC-SP 3). All paint, rust, oil, scale, grease and other deleterious materials are to be removed in accordance with SSPC-SP 1 or SSPC-SP 3, as applicable.

ITEM 107.97 (Continued)

After cleaning and priming of the steel, the proposed repair areas shall be made available to the Engineer. The final limits of each repair and additional in-kind replacement are subject to the approval of the District Bridge Engineer.

The Contractor shall submit to the Engineer a plan of the proposed repairs, showing the methods of procedures, materials, and equipment they intend to use. The submittal shall include design computations based on all applicable loads (i.e. dead load, live load + impact, etc.), working stresses of the materials used, sequence of operations, and all details incidental thereto. All loads shall be calculated by the Contractor. Approval of this submission shall be obtained prior to the commencement of any work under this Item. The above plan and computations shall bear the seal and signature of a Professional Engineer of the appropriate discipline registered in Massachusetts.

The design calculations should include an evaluation of the rating for the design vehicle at areas of section loss to inform the Engineer's decision as to whether the section loss warrants a repair.

All work shall be done per the contract plans and as directed by and to the satisfaction of the Engineer and in accordance with the details and sequence of construction supplied by the Contractor and approved by the Engineer.

MATERIALS

All new structural steel and new high strength bolts shall conform to the requirements of Sections M8.05.0 and M8.04.3 of the Standard Specifications, respectively.

All structural steel shall be AASHTO M270, Grade 36 or Grade 50 steel.

The repair steel shall be considered main member and conform to the Charpy V - notch impact test requirements for AASHTO Temperature Zone T2.

All bolts for bolted connections shall conform to the requirements of ASTM F3125 and be installed in accordance with the Standard Specifications. All proposed nuts shall conform to ASTM A563. Washers shall conform to ASTM F436 specifications for hardened steel washers. All bolts, nuts and washers shall be mechanically galvanized in accordance with requirements of ASTM B695, Class 50. Galvanized bolts shall be retested after galvanizing as required by ASTM F3125.

Prior to installing steel repair components, an epoxy-based metal filler compound shall be applied to existing deteriorated steel web surfaces and flanges in a manner which restores deteriorated sections to their original thicknesses to prevent voids between the filler surface and proposed repair plates. Filler is to be used to ensure contact between all repair plates, including filler plates that contact existing steel and along all web or flange components. Filler material shall be applied as shown in the plans and as directed by the Engineer. Epoxy filler compound shall be "ITW Philadelphia Resin Repair Compound (RRC)" (web site: http://chockfast.com/products/repair-and-accessory-products/itw-repair-compound/), or Sikadur 31, Hi-Mod Gel (web site: http://usa.sika.com), or Adhesives Technology Ultrabond 2100, Class C (web site: http://atcepoxy.com/medium-viscosity-bonding-agent-ultrabond-2100/), or an approved equal. The filler compound shall be applied in strict accordance with the manufacturer's specifications.

ITEM 107.97 (Continued)

The Contractor is alerted that the existing paint is likely lead-based. Any removal and disposal of paint for the operations described herein shall be performed in strict conformance with all State and Federal health and environmental regulations, as stipulated in these specifications.

CONSTRUCTION METHODS

The Contractor shall submit for review an engineering submittal for each repair location. The submittal shall include, but is not limited to, a repair procedure and drawings detailing the repairs. The engineering submittal shall bear the seal and signature of a Professional Engineer of the appropriate discipline registered in Massachusetts. The methods of procedures, materials, equipment, or anchorage proposed by the Contractor shall be submitted on a standard shop drawing for approval by the Engineer prior to beginning of work for each location. Approval shall not relieve the Contractor of responsibility for the successful completion of the work.

All steel repair dimensions shall be field verified by the Contractor prior to developing shop drawings and fabrication of steel repair components. The limits of steel repairs shall be verified via Non-destructive testing (PT, MT, UT) at locations as required by the Engineer. Testing shall be performed by a certified testing agency and shall meet the requirements of Subsection 960.61, Inspection paragraphs of the Standard Specifications. The cost associated with the Non-destructive testing will be compensated under the Non-Bid Items provisions of this Contract. The Contractor shall submit shop drawings using field measurements. The Engineer will verify the proposed repair limits shown on the shop drawings. Fabrication of repair components shall not start prior to acceptance of shop drawings by the Engineer.

All work shall be done as directed by and to the satisfaction of the Engineer and in accordance with the details approved by the Engineer.

Gouges in the steel shall be ground smooth on a slope of 1:10. All grinding shall be in direction of stress (along the length of the beam). Gouges greater than 1/4 inch deep in edges of beams or plates shall be repaired by welding. Gouges greater than 1/16 inch on surfaces of the steel shall be repaired by welding. The filler metal shall extend 1/16 inch above the surface and shall then be ground smooth.

At Old Windsor Road over Windsor Brook Bridge No. H-16-006 (04Y), all exposed structural steel shall be cleaned to a Near-White Blast Cleaning condition (SSPC-SP 10) and shall receive a full paint system consisting of prime, intermediate, and finish coats in accordance with Subsection 961, *"Maintenance Painting of Steel Bridges."* Subsequent to completion of steel repairs and primer touch-up, the entire superstructure steel shall receive the intermediate and finish coats. All costs associated with cleaning and priming full superstructure shall be included in and paid under Item 961.201 Clean (Full Removal) and Paint Steel Bridge No. H-16-006 (04Y).

ITEM 107.97 (Continued)

At all other repair locations where galvanized steel repairs are proposed, existing steel surfaces in the vicinity of repairs shall be cleaned in accordance with SSPC-SP 1 and SSPC-SP 3, as applicable. Cleaning shall remove all paint, rust, mill scale, oil, grease, and other deleterious materials to ensure proper contact and performance of the repair. Prior to the installation of any new steel, all existing steel surfaces that are to receive new steel shall be thoroughly cleaned and prepared to a minimum power tool cleaned condition (SSPC-SP 3), where required, and shall receive a prime coat in accordance with the Contract Specifications.

Following completion of steel repairs, all disturbed or cleaned areas, including those adjacent to galvanized steel repairs, shall receive primer touch-up in accordance with Subsection 961. The Engineer shall verify deterioration limits in the field prior to fabrication of repair components. All costs associated with cleaning and priming shall be in accordance with and paid for under Item 107.97.

Welding

All welding shall conform to the latest edition of the Bridge Welding Code AASHTO/AWS D1.5 and shall meet the following requirements unless specified otherwise:

All welding required to complete the repairs will be considered incidental to the repair and no separate compensation will be allowed. All welders shall be certified. Welders' qualifications certificates must be submitted to the Engineer for approval. Electroslag and electro gas welding will not be permitted. Welding will not be permitted when the air temperature is below 35 F or when the surfaces to be welded are wet from condensation, rain, snow, or ice. When the temperature is between 35 F and 45 F, the surface within 3” of the point where the weld is to be started shall be heated to a temperature of approximately 100 F, and this temperature shall be maintained as a minimum within this distance until the bead is completed.

The Contractor shall submit for approval by the Engineer a welding procedure for each of the repair areas that will require welding.

Inspection and Non-Destructive Weld Testing

All welds are to be inspected and tested (non-destructively) in accordance with latest addition of AASHTO/AWS D1.5 and the applicable provisions of the Standard Specifications Subsection 960, and the specifications stipulated in these special provisions.

Inspection shall consist of checking the type, location, size, length, returns and profile of field welds and shop welds. Welds will be evaluated by their surface appearance, completeness for penetration and fusion, avoidance of undercutting, freedom from slag, inclusions, porosity, cracks and general appearance.

All welds that are found to be defective shall be corrected in accordance with the AWS procedures and to the acceptance of the Engineer and shall then be re-inspected as outlined above. The expense of such corrective work shall be borne by the Contractor.

ITEM 107.97 (Continued)

The Contractor is responsible for Quality Control Inspection and Non-Destructive Weld Testing of all shop welding and field welding of non-fracture-critical members in accordance with the requirements herein specified. These costs shall be considered incidental to the various steel repair pay items.

Cutting of Steel

Existing steel components that are directed for replacement by the Engineer shall be carefully removed by dismantling existing connections. Cutting of existing steel shall be performed with care to avoid undercutting, overheating, notching or other damage of material which is to remain. The Contractor shall use temperature-indicating crayons which meet the approval of the Engineer for 275 degrees Fahrenheit and 300 degrees Fahrenheit. These indicator crayons shall be used on surfaces of the web and beam adjacent to an area undergoing a process of cutting or grinding as ordered by the Engineer.

Cutting or grinding shall be discontinued temporarily, to allow cooling, if the temperature of the base steel in the girder web or flange exceeds 275 degrees Fahrenheit.

If the Contractor damages materials to remain during cutting operations, he shall replace, repair, or reinforce the damaged area as may be needed to restore the materials to existing condition prior to damage. This work shall be performed by the Contractor as ordered by the Engineer at no additional cost to MassDOT, and to the acceptance of the Engineer.

Environmental

All applicable portions of Sections 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 Section 961.68 "Handling of Hazardous Waste and Reporting Release Programs". Submittals shall be according to Section 961.69 "Submittals".

Additional Requirements

The edges of the existing steel to be repaired, as well as the faces that will meet the new steel, shall be ground smooth and primed prior to the installation of the new plates or shapes. Holes in steel shall be drilled, not punched or burned. Rust holes +/- 3” in diameters shall be drilled through prior to installation of repair plates. Isolated rust holes in the girder web panel shall be drilled through or coped to a consistent web thickness of 1/8”. Edges of the holes or copes are to be ground smooth to the acceptance of the Engineer. Filler plates cut to fit shall be installed in places of severe rust holes and drilled through prior to installation of repair plates. Filler plates are incidental to this Item with no additional compensation.

ITEM 107.97 (Continued)

The Contractor is fully responsible for the accuracy and fit of the work and thus shall determine what measurements are required and shall allow adequate time and resources for obtaining field measurements in developing the fabrication and construction.

The Contractor shall submit shop drawings utilizing the field measurements of the replacement/repair areas to verify fit of bridge components and all other repair dimensions. Fabrication shall not start prior to acceptance of shop drawings.

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

When it is necessary to temporarily support utility lines/pipes during steel repairs, the Contractor shall consult with the affected utility owners on the proposed Means and Methods of this work item. Any damages to the utilities caused by the Contractor's operations shall be repaired by the Contractor to the acceptance of the Engineer and the affected utilities, at the Contractor's own expense.

Adequate measures shall be taken by the Contractor to prevent work generated debris, tools, and/or materials from entering adjacent roadway lanes or dropping to the ground or waterway below the structure. All debris and any materials which accidentally fall into such areas shall be removed immediately at the Contractor's expense. Any damage from falling debris shall be repaired by the Contractor to the acceptance of the Engineer, at the Contractor's own expense.

Except as otherwise specified, all removed steel and appurtenances shall become the property of the Contractor who shall remove and dispose of this material.

The Contractor shall take the necessary precautions such as flaggers, warning signs and/or temporary protective structures for the safety of vehicles or pedestrians using any area adjacent to or under the work areas. Any such structure shall be adequate for the purpose and shall be approved by the Engineer.

ITEM 107.97 (Continued)

METHOD OF MEASUREMENT

Item 107.97 will be measured by the net weight of new steel in Pounds, including nuts, bolt heads and permanent washers installed in the structure, completed, and accepted by the Engineer.

BASIS OF PAYMENT

Item 107.97 will be paid at the Contract unit price by the net weight of new steel in Pounds, including nuts, bolt heads, and permanent washers installed in the structure, completed, and accepted by the Engineer.

Payment shall constitute full compensation for all materials, labor, submittal preparation, equipment, scaffolding, welding, tools, field inspection, submittal preparation, utility support, diaphragm and cross frame support, localized cleaning and paint removal required to perform repair, lead-based paint removal and disposal, epoxy-based metal filler compound, and other incidentals thereto.

ITEM 127.1 REINFORCED CONCRETE EXCAVATION CUBIC YARD
ITEM 127.4 REINFORCED CONCRETE DECK EXCAVATION (FULL DEPTH) SQUARE YARD
ITEM 127.41 REINFORCED CONCRETE DECK EXCAVATION (PARTIAL DEPTH) CUBIC YARD

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

The work under these Items shall consist of the excavation, removal and disposal of all deteriorated, spalled, and scaled concrete as required to repair the existing concrete elements to the general lines identified on the drawings and/or as required by the Engineer.

The work under Item 127.1 shall consist of curb excavation for the repair of existing curbs.

The work under Item 127.4 shall consist of excavation for the repair of existing decks when depth of deteriorated concrete is greater than 50% of the structural deck thickness.

The work under Item 127.41 shall consist of excavation for the repair of existing decks when depth of deteriorated concrete is less than or equal to 50% of the structural deck thickness.

Prior to excavation, the Contractor shall cover all drainage structures and install silt sacks within catch basins 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. Patch 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. If no reinforcing is exposed, shallow depth repair is applicable. No concrete shall be placed until approval of the Engineer is given.

Surface preparation and 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.

ITEMS 127.1, 127.4 and 127.41 (Continued)

Abrasive Blasting Equipment: Abrasive blasting equipment shall be capable of removing rust and old concrete from exposed reinforcing steel when deemed necessary 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 directed 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. Reinforcing steel shall be considered unsuitable if it exhibits section loss, corrosion, deformation, or other deterioration such that the bar cannot meet the required strength or bond or cannot be properly incorporated into the Work. Conditions indicating unsuitability include, but are not limited to, significant pitting, scaling, cracking, kinking, misalignment, or insufficient embedment. The determination of suitability shall be made by the Engineer. 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.

The Contractor shall exercise caution when excavating near existing guardrail anchor bolts that are to remain. Any existing anchor bolts damaged or otherwise made unsatisfactory for continued use as a result of the Contractor's operations shall be replaced at the Contractor's expense.

Temporary Protective Shielding must be used on all bridges 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.

Before placing new concrete, the existing surface must be cleaned with oil-free compressed air. After the surface preparation has been accepted, every effort should be made to thoroughly wet the concrete surface and all porous surfaces to be in contact with new concrete for 24 hours. This may be accomplished by continuous wetting with soaker hoses or the use of burlap/burlene, etc., where moisture can be maintained. If, in the opinion of the Engineer, conditions or the situation prohibits this, then the surfaces should be wetted for as long as possible. Surfaces must be wetted by means acceptable to the Engineer using potable water. Preparation of concrete surfaces is to be paid for by the appropriate concrete item.

ITEMS 127.1, 127.4 and 127.41 (Continued)

The Contractor shall remove any puddles of free-standing water with oil-free compressed air, and protect the surfaces from drying, so the existing concrete remains in a clean, saturated surface dry (SSD) condition until placement of the new concrete.

Immediately before placement of new concrete, the exposed area to be patched shall be free of foreign materials. These materials shall be removed by abrasive blasting and by use of oil free compressed air. No grease, dust, rust, or laitance will be allowed to remain on reinforcing steel and exposed concrete surfaces.

The Contractor shall take all measures necessary to protect the waterway 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.

All excavated materials shall become the property of the Contractor and shall be removed from the job site.

METHOD OF MEASUREMENT

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

BASIS OF PAYMENT

Items 127.1 and 127.41 will be paid at the respective contract unit price per Cubic Yard. Item 127.4 will be paid at the Contract unit price per Square Yard. The Contract unit price shall include all labor, tools and equipment, including the incidental removal of any sawcutting necessary to complete the work as required by the Engineer. The quantity paid for these Items shall be the actual area or volume excavated to be removed and properly disposed according to all city, town, State and Federal rules, regulations, and requirements and as required by the Engineer.

Item 127.1 will compensate the Contractor for excavation performed for the curb repair work.

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

The Contractor will be compensated under either Item 127.1, 127.4 or 127.41 for excavated concrete. In no case will the Contractor be compensated under more than one Item for the same excavated material. Removal and/or cutting cutting of existing granite curbs shall be incidental to Item 127.1.

Payment for temporary protective shielding shall be made under Item 994.1 and 994.021.

New reinforcing steel will be paid under Item 910.1.

ITEM 127.12 REINFORCED CONCRETE SUBSTRUCTURE EXCAVATION CUBIC YARD

The work under this Item shall conform to the relevant Provisions of Subsection 120 and 482 of the Standard Specifications and the following:

The work under this Item consists of the removal and disposal of all deteriorated, spalled, and scaled concrete as required to repair the existing concrete substructure elements to the general lines identified on the drawings and as directed by the Engineer.

During the prosecution of the 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. Pneumatic hammers heavier than the nominal 25 pounds mass shall not be used unless approved by the Engineer.

Excavation shall extend to sound concrete. If reinforcing bars are exposed or become exposed during excavation, the excavation shall not be less than one inch (1") behind the inner most layer of reinforcing steel, or less than four inches (4") from the original surface. The Contractor shall stop excavating deteriorated concrete when the depth of excavation reaches six inches (6") and shall notify the Engineer immediately. The edges of the patch shall be cut to neat lines by saw cutting or by methods approved by the Engineer, and the patch areas shall be made rectangular in shape, if possible, with horizontal and vertical edges and avoid over cutting square corners. Required shoring shall be designed by a Massachusetts PE and calculations and plans shall be submitted for review and approval.

The Contractor shall take all precautions necessary so as not to damage those portions of the bridge including reinforcing steel that are to remain. This includes determining the concrete cover to the steel bars at the edge of each patch prior to excavating concrete. Any steel that is unsuitable for further use through no fault of the Contractor shall be replaced under Item 910.1 Steel Reinforcement for Structures – Epoxy Coated. All reinforcing steel that is loose shall be tied tightly together using epoxy coated wire ties.

Also, included under this Item are all costs in connection with the cleaning, cutting, and bending of the existing reinforcing steel designated to be retained in the proposed repair. Immediately before preparation for placement of new concrete, the exposed reinforcing steel and concrete area to be patched shall be free of all oil, grease, rust or other foreign materials. These materials shall be removed by abrasive blasting or other methods approved by the Engineer.

No debris, tools or incidental equipment of any kind will be permitted to fall into the waterway below. Any material that accidentally falls into such areas shall be removed immediately.

DISPOSAL OF EXCAVATED MATERIALS AND SITE CLEANING

Surplus materials obtained from reinforced concrete excavation and not needed for further use, as determined by the Engineer, shall become the property of the Contractor and shall be properly disposed of by the Contractor outside the location at no additional compensation.

ITEM 127.12 (Continued)

The Contractor is required to broom clean all work site areas after the removal of excavated debris regardless of preexisting conditions. This includes areas under the excavated repair area. Removal of debris, site cleaning, and disposal of debris are incidental to the Contract and no additional payment will be made.

METHOD OF MEASUREMENT

Item 127.12 will be measured for at the Contract unit price per Cubic Yard of substructure concrete excavated, removed, and properly disposed of.

BASIS OF PAYMENT

Item 127.12 will be paid for at the Contract price per Cubic Yard , which shall include all labor, tools, equipment, sawcutting and incidental costs required to complete the work, and final disposal of the excavated material to the satisfaction of the Engineer.

New reinforcing steel will be paid under Item 910.1

ITEM 226.37 CLEANING BRIDGE SEATS FOOT

All contaminated surfaces to be cleaned shall be cleaned to remove all oil, grease, dirt, salt, and bird guano. Loose mill scale, loose rust, and loose paint shall also be removed from all bearings and structural steel located within five (5) feet of the bearing.

The Contractor shall lay out areas to be cleaned, limiting activities to one location and confine this operation only to a point where the work can be completed within the same shift.

NOTE: Lead paint and pigeon waste are considered hazardous waste materials. This type of material shall be disposed of in accordance with all Federal, State, and Local environmental requirements and in accordance with the Subsection 961 – "MAINTENANCE PAINTING OF STEEL BRIDGES" of the MassDOT Standard Specification for Highway and Bridges.

If, in the opinion of the Engineer, certain areas have insufficient light for proper cleaning operations, the Contractor shall furnish and erect temporary flood lights to create a minimum of 30-foot candles on a work surface area. Electrical power shall be supplied by the Contractor. If necessary, scaffolding, ladders, or staging, shall be provided, or rearranged, to afford complete inspection by the Engineer.

Cleaning Abutment Bridge Seats and Face of Breastwall:

The designated surfaces of the abutments shall be cleaned of all debris, which may include but are not limited to, sand, gravel, lead paint chips, bituminous material, and guano. These materials shall be removed and disposed of away from the job site. When the bridge is over water, the Contractor shall take all precautions necessary so as not to have any guano or other debris fall into the water below.

After the debris has been removed the Contractor shall pressure wash the surfaces of the abutments in accordance with these special provisions. Cleaning of the abutment surfaces shall be so programmed that dust and other contaminants from the cleaning process and from adjacent beam end cleaning will not contaminate wet, newly cleaned surfaces.

METHOD OF MEASUREMENT

Item 226.37 will be measured for paymentby the Foot of bridge seat cleaned. The measurements will be taken horizontally, along the centerline of bearing at abutment, between the outer limits of the abutment bridge seat. The cleaning of superstructure and substructure elements located directly above the beam seat being cleaned shall be considered incidental to Item 226.37.

BASIS OF PAYMENT

Item 226.37 will be paid for at the Contract price per Foot, which shall include all labor, tools, equipment, containment of debris, and incidental costs required to complete the work, and final disposal of the foreign material removed from the bridge to the satisfaction of the Engineer.

ITEM 482.31 SAWING AND SEALING JOINTS IN ASPHALT PAVEMENT AT BRIDGES FOOT

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

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

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

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

Once the groove is clean and dry, the Contractor shall fill it completely with a Hot Applied 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 Systems 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 (RADF)
- 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 (not including the bypass tray)
- Automatic duplexing
- Finisher with staple functions
- Standard Ethernet. Print Controller
- Scan documents to PDF, PC and USB
- ability to print with authenticated access protection

The Contractor shall supply a maintenance contract for next day service, and all supplies (toner, staples, paper) necessary to meet estimated monthly usage.

The Engineer's Field Office and the equipment included herein including the computer system, and printer shall remain the property of the Contractor at the completion of the project. Disks, flash drives, and card readers with cards shall become the property of the Department.

Compensation for this work will be made at the contract unit price per month which price includes full compensation for all services and equipment, and incidentals necessary to provide equipment, maintenance, insurance as specified and as directed by the Engineer.

ITEM 905.2 5000 PSI, 3/8 INCH. 710 HP CEMENT 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 forming and placing 5000 PSI, 3/8 inch HP Cement Concrete. This item shall be used for patching after all deteriorated and/or unsound concrete is removed under Item 127.1, 127.4, 127.41, and 127.12.

All existing concrete surfaces that will be in contract with the proposed concrete shall be prepared in accordance with PREPARATION OF CONCRETE SURFACES.

All formwork shall be approved by the Engineer prior to concrete placement.

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.

METHOD OF MEASUREMENT

Item 905.2 will be measured for payment by Cubic Yard of cement concrete furnished and placed, complete in place.

BASIS OF PAYMENT

Item 905.2 will be paid for at the Contract unit price per Cubic Yard, which price shall include all labor, materials, equipment, surface preparation, protective sealing, and all incidental costs required to complete the work.

No separate payment will be made for the installation of subsequent removal of any formwork, coating/patching of the steel reinforcing, but all costs in connection therewith shall be included in the Contract unit price bid.

ITEM 908.11 EXPOSED CONCRETE BRIDGE DECK SEALING SQUARE YARD

The work under this Item shall conform to the relevant provisions of Subsection 965 of the Standard Specifications and the furnishing and installing Sealant using high molecular weight methacrylate in accordance with the contract documents and as directed by the Engineer.

MATERIALS

The High Molecular Weight Methacrylate (HMWM) resin shall be low viscosity and non-fuming. Acceptance is based on the manufacturer certifying that it conforms to the following, and the Contractor submitting the certifications to the Department:

Viscosity	Less than 25 cps when measured according to ASTM D2849
Density	Greater than 62.4 pcf at 77° F
Flash Point	Greater than 200° F
Vapor Pressure	Less than 0.039 inch Hg @ 77° F (ASTM D323)
TG (DSC)	Greater than 136° F (ASTM D3418)
Gel Time	Greater than 40 minutes for a 3.5 ounce mass
Percent Solids	Greater than 90% by weight
Bond Strength	Greater than 1.5 ksi (ASTM C882)

Sand shall be commercial quality dry blast sand. 95% of the sand shall pass the 0.0937 inch (No. 8) sieve, and 95% shall be retained on the 0.0234 inch (No. 30) sieve.

The container shall include the following information:

Name of the manufacturer
Brand name of the product
Date of manufacture

CONSTRUCTION

This work shall consist of cleaning the portland cement concrete bridge deck surface as shown on the plans and as specified in these special provisions. The deck surface shall be cleaned by abrasive blasting and shall be dry when blast cleaning is performed. Traffic stripes, pavement markings, and pavement markers shall be removed as specified in these special provisions during the process of cleaning the deck.

After abrasive cleaning, loose material shall be blown from visible cracks using high pressure air, and the entire deck surface shall be cleaned by manual or power sweeping. Equipment shall be fitted with suitable traps, filters, drip pans, or other devices as necessary to prevent oil or other deleterious material from being deposited on the deck. If the surface becomes contaminated at anytime prior to placing the penetrating sealer, the affected surface shall be cleaned by abrasive blasting followed by manual or power sweeping.\

ITEM 908.11 (Continued)

The Contractor shall apply methacrylate resin only to the specified area. Joints and drainage facilities shall be adequately protected to prevent contamination by the treatment material. Contaminated Items shall be repaired at the Contractor's expense.

Do not apply sealers if rain is expected within 12 hours of completion. Apply sealers to clean, dry surfaces when the surface temperature is at least 50° F, and if near 50° F, rising. The sealer shall be mixed and applied according to the manufacturer's instructions and no more than 2.5 gallons at a time. Sweep, pour, squeegee, or spray the area to receive the sealers, allowing the sealers to flow into the cracks. If the manufacturer does not recommend an application rate, use 75 to 100 square feet per gallon, as needed. After the resin has been applied, at least 20 minutes shall elapse before applying the sand. The sand shall be broadcast at a rate of approximately 3 ounces per square foot, completely covering the sealer.

Two coats minimum are required on all surfaces to be treated.

Excess unbounded sand is to be removed after the resin is tack free and before traffic is permitted to resume.

METHOD OF MEASUREMENT

Item 980.11 will be measured for payment by the Square Yard based on plan dimensions. The Square Yard measurement will be for two (2) coats of methacrylate.

BASIS OF PAYMENT

Item 908.11 will be paid for at the Contract unit price per Square Yard and shall include full compensation for both coats including furnishing all labor, materials (including methacrylate resin), tools, equipment, and incidentals, and for doing all the work involved in the test sealing, cleaning concrete surfaces, and applying treatment material, as shown on the contract drawings, as specified on these special provisions, and 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 shall consist of the supplying, mixing, placing, and curing of a low permeability rapid hardening concrete for repairs. This item shall be used for patching after all deteriorated and/or unsound concrete is removed from the bridge deck.

This item will be used only as shown on the drawings without prior approval from MassDOT. The item is anticipated on bridges where the construction is staged or when abutter access is required. If the contractor elects to utilize this material instead of 905.2 when the bridge is detoured for construction as a way to accelerate the schedule, no additional compensation will be given, and the item will not be eligible for re-negotiation based on the quantity discrepancy.

MATERIALS

Materials shall meet the requirements specified in the following Subsections of Division III:
M4.03.0 Concrete Produced by Volumetric Mixers
M4.06.4 Rapid Hardening Concrete
The nominal maximum aggregate size shall be 3/8 inch.

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

CONSTRUCTION METHODS

All cement concrete materials, concrete handling, placement, protection, curing, and finishing requirements of the Subsection 901 shall apply.

PLACEMENT AND FINISHING

The Contractor's attention is directed towards the Repair Procedure as noted in Document A00803.

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

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

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.

ITEM 909.3 (Continued)

Curing method shall be in accordance with Subsection 901.38.D.1: Liquid membrane-Forming Compounds for Curing.

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

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

Approval by the Engineer for all formwork shall be required prior to placement of any concrete. Formwork shall be maintained and remain in place a minimum of seventy-two (72) hours after placement.

BRIDGE DECK VIBRATION

At the direction of the Engineer, in order to minimize the effects of vibrations from vehicular traffic passing in adjacent lanes next to each placement, traffic should be slowed along the adjacent travel lanes and the placement of concrete should be executed between the hours of lower traffic volumes, generally between 1:00 AM and 3:00 AM.

OPEN TO TRAFFIC

Compressive strength of 2000 psi shall be attained prior to opening the area to traffic.

Rapid setting concrete placements shall be staged so that the required compressive strength is attained before the area is opened to traffic.

DEPARTMENT ACCEPTANCE

Quality Control and Department Acceptance shall meet the requirements specified in the following Subsections of Division III:
M4.03.2 Producer Quality Control
M4.03.3 Department Acceptance

METHOD OF MEASUREMENT

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

BASIS OF PAYMENT

Item 909.3 will be paid for at the Contract unit price per Cubic Yard, which price shall include all labor, materials, equipment, surface preparation, and all incidental costs required to complete the work. No separate payment will be made for the installation and subsequent removal of any formwork, coating/patching of the steel reinforcing, but all costs in connection therewith shall be included in the Contract unit price bid.

ITEM 909.5 RAPID HARDENING CEMENTITIOUS PRODUCTS FOR CONCRETE REPAIRS CUBIC YARD

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

The work shall consist of the supplying, mixing, placing, and curing of rapid hardening cementitious products for concrete repairs. This item shall be used for patching after all deteriorated and/or unsound concrete is removed from the bridge deck.

MATERIALS

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

M4.04.2 Rapid Hardening Cementitious Products for Concrete Repairs

The product must be listed on the Department Qualified Construction Materials List (QCML) for the appropriate application. All the manufacturer's recommendations shall be met.

The material is to be non-shrink.

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.

If the product is extended with aggregate not include in original product packaging, shall also meet the requirements specified in the following Subsections of Division III:

M4.01.2 Aggregate

Products that are extended with aggregate not included in the original product packaging shall be formulated per the product's technical data sheet and evaluated through Department mix design evaluation and verification testing.

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.

The nominal maximum aggregate size shall be 3/8 inch.

CONSTRUCTION METHODS

All cement concrete materials, concrete handling, placement, protection, curing, and finishing requirements of the Subsection 901 shall apply.

ITEM 909.5 (Continued)

MIXING, PLACEMENT AND FINISHING

The Contractor's attention is directed towards the Repair Procedure as noted in Document A00803. Surfaces that are adjacent to the placement shall be protected with drop cloths, waterproof paper, or other means to maintain them free of material splashes, water, and debris.

The Contractor shall be required to mix and place the cement by using an eight (8) cubic foot minimum rubber-blade portable 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.

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

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

Curing method shall be in accordance with Subsection 901.38.D.1: Liquid membrane-Forming Compounds for Curing.

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

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

For cold conditions the requirements of 901.33B shall apply.

Approval by the Engineer for all formwork shall be required prior to placement of any concrete. Formwork shall be maintained and remain in place a minimum of seventy-two (72) hours after placement.

BRIDGE DECK VIBRATION

At the direction of the Engineer, in order to minimize the effects of vibrations from vehicular traffic passing in adjacent lanes next to each placement, traffic should be slowed along the adjacent travel lanes and the placement of concrete should be executed between the hours of lower traffic volumes, generally between 1:00 AM and 3:00 AM.

ITEM 909.5 (Continued)

OPEN TO TRAFFIC

Compressive strength of 2000 psi shall be attained prior to opening the area to traffic.

Rapid setting concrete placements shall be staged so that the required compressive strength is attained before the area is opened to traffic.

DEPARTMENT ACCEPTANCE

Quality Control and Department Acceptance shall meet the requirements specified in the following Subsections of Division III:

M4.03.2 Producer Quality Control

Item 909.5 will be paid for at the Contract unit price per Cubic Yard, which price shall include all labor, materials, equipment, surface preparation, and all incidental costs required to complete the work.

M4.03.3 Department acceptance.

METHOD OF MEASUREMENT

Item 909.5 will be measured for payment by the Cubic Yard of Rapid Hardening Cementitious Products for Repairs installed, complete in place.

BASIS OF PAYMENT

Item 909.5 will be paid for at the Contract unit price per Cubic Yard, which price shall include all labor, materials, tools, equipment, and incidental costs required to complete the work.

No separate payment will be made for the installation and subsequent removal of any formwork, coating/patching of the steel reinforcing.

ITEM 910.1 STEEL REINFOCEMENT FOR STRUCTURES – EPOXY COATED POUND

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

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.

METHOD OF MEASUREMENT

Item 910.1 will be measured by the Pound as directed by the Engineer.

BASIS OF PAYMENT

Item 910.1 will be paid for at the Contract unit price per Pound, which price shall include all labor, materials, tools, equipment, and incidental costs required to complete the work as required by the Engineer.

ITEM 912. DRILLING AND GROUTING DOWELS EACH

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

The work shall consist of drilling holes, furnishing, installing, and grouting of steel dowel reinforcement at the locations shown on the drawings or as required by the Engineer.

The dowel embedment must be adequate to fully develop 125% of the yield strength of the bar. The embedment length, the method and equipment used to drill the dowel holes, and the diameter of the drilled hole shall at a minimum conform to the recommendations of the manufacturer and be submitted to the Engineer for approval.

MATERIALS

The grout to be used for these dowels shall be selected from the MassDOT Qualified Construction Materials List for its specific application. Reinforcing steel dowels shall meet the requirements of M8.01.7. Reinforcing steel dowels shall be incidental to the work under this Item.

CONSTRUCTION METHODS

All dowel holes shall be air drilled provided that the minimum edge distance of 6 inches is observed. Should, in the Engineer's opinion, air drilling be inappropriate due to questionable strength of the existing /concrete or insufficient edge distance, the dowel holes shall be diamond core drilled. The inner surfaces of the diamond core drilled dowel hole's inner surfaces shall be subject to the approval of the Engineer. The diameter of the drilled dowel holes shall be in accordance with the recommendations of the grout manufacturer. The holes shall be blown clear of any debris and shall have the approval of the Engineer prior to the placement of any grout material. The drilling operation shall be performed without damage to any portion of the existing structure that is to remain in place. Any damage to any portion of the existing structure that is to remain in place shall be repaired to a condition equal to or better than that existing prior to the beginning of the Contractor's operations and shall be repaired at the Contractor's expense.

The Contractor shall strictly follow the recommendations of the manufacturer for mixing and placing the grout material prior to the placement of the dowel. The Contractor shall adhere to the recommendations of the manufacturer regarding minimum and maximum temperatures while placing the grout. Any excessive grout around the hole after placement of the dowel shall be struck off smooth while the grout is still fresh.

ITEM 912. (Continued)

The Contractor shall perform on site a minimum of one (1) tests of the dowels for capacity in tension in each location and component. The test shall be performed in the presence of and to the acceptance of the Engineer. The testing, including the necessary material and equipment to perform the test, is incidental to the work under this Item. The pullout force shall correspond to 3,000 pounds. If the test bar pulls out or if the concrete utilized in the test shows signs of fracture, the Contractor shall adjust the hole diameter, embedment length, and/or grout material to meet this requirement. The method of applying the tension load to the dowels shall conform to ASTM E488. Details of the test procedure, materials, and equipment shall be submitted to the Engineer for review and approval prior to commencement of the test. Dowels shall not be ordered until the embedment lengths have been approved by the Engineer.

The Contractor shall arrange with the material's manufacturer or distributor to have the services of a competent field representative at the work site prior to any drilling of the proposed dowel holes to instruct the work crews in proper dowel installation procedures. The field representative shall remain at the job site after work commences and continue to instruct until the representative, the Contractor, and Engineer are satisfied that the crew has mastered the technique of installing the dowels successfully. The representative shall make periodic visits to the project as the work progresses and shall confer on each visit with the Contractor, Inspector and/or Engineer. The manufacture's field representative must be fully qualified to perform the work and shall be subject to the approval of the Engineer.

METHOD OF MEASUREMENT

Item 912. will be measured for payment by the Each dowel installed, complete in place.

BASIS OF PAYMENT

Item 912. will be paid for at the Contract unit price per Each, which price shall include all labor, materials, equipment, furnishing dowels, drilling holes, grouting the dowels regardless of the diameter or depth of the hole, and all incidental costs required to complete the work.

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

ITEM 961.201 CLEAN (FULL REMOVAL) AND PAINT STEEL BRIDGE NO. H-16-006 (04Y) LUMP SUM

The work under this Item shall conform to the relevant provisions of Subsection 961 of the Standard Specifications, and the following:

This work shall consist of cleaning and painting exposed structural steel, which shall include but is not limited to stringers, girders, cross girders, diaphragms, seismic restraints, connection plates and bearings.

Work under Item 961.201 shall include the cleaning (full removal) and painting of all exposed steel at the respective bridges; all associated bearings will also be included.

Steel repairs, if any, required by the Engineer, shall be completed before steel surfaces receive the intermediate and topcoat applications. The Contractor shall be required to clean and prime beam ends prior to any structural steel repairs required by the Engineer, which will be paid under Item 107.97.

CONSTRUCTION METHODS

Pigeon Waste/Debris Removal & Cleaning Abutment Seats

The Contractor shall first remove all accumulation of sediment, debris, and pigeon waste from the tops of abutment bridge seats (including drainage troughs), pier caps, steel members, and other areas where work is being performed as directed by the Engineer. Cleaning of beam seats to be in accordance with and paid by Item 226.37.

Structural Steel Inspection

The Contractor shall notify the Engineer if significant amount of section loss is found on the structural steel during the cleaning and blasting process. If requested by the Engineer, the Contractor shall provide the access and time window to the Engineer to inspect and document the structural steel section loss after the cleaning and blasting operation.

BASIS OF PAYMENT

Item 961.201 will be paid for at the contract unit price Lump Sum , which price shall include all labor, materials, equipment, design and installation of the required containment system/work platform, removal and disposal of accumulated pigeon waste and other toxic contaminants, temporary removal and resetting the anti-missile fencing to access the steel for painting, and all incidental costs required to complete the work.

Partial payments of the lump sum will be made in accordance with Section 961.80 of the Standard Specifications.

Partial payments shall be made only after any inspections associated with the phase have been completed and signed.

ITEM 961.201 (Continued)

SPECIAL NOTES REGARDING PREVAILING WAGE REQUIREMENTS

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 973.2 PRE-COMPRESSED JOINT SEAL FOOT

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

The work under this item shall consist of furnishing and installing a bridge joint system consisting of a pre-compressed joint seal as shown on the contract drawings. Repairs to the existing deck slab and/or repair or replacement of the existing joint headers will be compensated for under other pay contract items.

MATERIALS

The pre-compressed seal system shall be installed in parts the bridge joint horizontal section, the curb unit section and the bridge parapet unit section.

The pre-compressed joint seal system assembly shall consist of a preformed (pre-compressed) seal made of silicone-and-impregnated-foam hybrid, installed into field applied highway-grade, low-modulus, fuel resistant silicone epoxy adhesive on the joint faces with a silicone sealant band, all combined in manner to form a continuous watertight seal.

The material of the pre-compressed seal joint system shall be capable of accommodating movements of +50%,-50% (Total 100%) of nominal material size. The foam shall have the following properties:

Foam Property	**Value**	**Test Method**
Base Material	Cellular, high density, polyurethane foam	N/A
Temperature Service Range: High Low	 185°F -40°F	ASTM C711
UV Resistance	No changes – 2000 hours	ASTM G155-00A
Accelerated Weatherometer Resistance to Aging	No changes – 2000 hours	ASTM G155-00A
Bleeding: -40°F to 180°F	No bleeding when compressed to minimum of claimed movement, i.e. -50% of nominal size when simultaneously heated to 180°F for 3 hours.	
(Continued)	Material recovers to +50% of nominal size within 24 hours of compression to -50% of nominal size and simultaneous heating to 180°F for 3 hours.	

ITEM 973.2

The silicone coating applied in the field to achieve joint continuity and the factory applied silicone coating shall both have the following properties:

Property	**Value**
Color	Black
Percent Solids (min.)	96
Specific Gravity	1.26 – 1.34
Tests Conducted on Cured Sealant after 21 days at 77°F and 50% Relative Humidity:	
Elongation Percent (min.)	1400
Joint Modulus at 50% Elongation, PSI (max.)	7
Joint Modulus at 100% Elongation, PSI (max.)	8
Joint Modulus at 150% Elongation, PSI (max.)	9
Adhesion to Concrete, Percent Elongation (min.)	+600
Adhesion to Asphalt, Percent Elongation (min.)	+600
Joint Movement Capability, +100/-50 Percent, 10 Cycles	No Failure
Weatherability	Unaffected by Climatic Extremes
Flexibility	Cured sealant stays rubbery from -50°F to 300°F

Dissimilar materials shall not be used to splice units of the pre-compressed seal system in the field.

SUBMITTALS

At least 30 days prior to start of the work, the Contractor shall submit to the Engineer for review and approval a detailed plan for the installation of the pre-compressed joint seal. No work shall be performed until this submittal has been approved. The submittal shall include:

A list of all manufactured materials and their properties to be incorporated in the joint system, including, but not limited to the pre-compressed joint seal and method of packaging.

A detailed step by step installation procedure and a list of the specific equipment to be used for the installation. The plan must fully comply with the specifications and address all anticipated field conditions, including periods of inclement weather.

Materials Certificates and Certified Test Reports shall be submitted by the Contractor certifying that the pre-compressed joint seal satisfies the specification requirements.

CONSTRUCTION

The pre-compressed seal profile shall be shipped to the job site in nominal 6.5 feet standard lengths in the manufacturer's standard shipping cartons. The seals shall be cut to length on the jobsite where required for straight lengths or directional change transitions. The appropriate tools, saws and miter boxes shall be utilized. All cuts shall be accurately measured and completed in a neat and workmanlike manner to ensure quality work.

ITEM 973.2 (Continued)

Any required deck and/or joint header repairs must be fully cured and reach its design compressive strength prior to beginning joint installation. The Contractor shall produce uniform and parallel surfaces in the forming within the reinforced concrete deck slabs as detailed on the plans. 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 pre-compressed seal, the joint opening shall be abrasive blast cleaned, blown clean using compressed air that is free of moisture and oil, and then solvent cleaned to remove any remaining dust or debris. The solvent used shall be either acetone or xylene. Water shall not be used as the solvent and only clean cloths shall be used. When the pre-compressed seal is to be attached to concrete surfaces, these surfaces shall be abrasive blast and solvent cleaned so that the surface profile meets ICRI CSP 2 (minimum) or CSP 3 (preferred). The depth of cleaning shall extend 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 contaminates 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's drawings. 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. 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.

Pre-compressed Seal 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.

The manufacturer's field representative 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 representative and the bid contract price shall be full compensation for all costs in connection therewith.

ITEM 973.2 (Continued)

METHOD OF MEASUREMENT

Item 973.2 will be measured per foot along the joint centerline and between curb lines complete in place. The joint preparation and installation of pre-compressed seal at the safety curb, sidewalk and median shall be considered incidental to the work to be done under this item. Where existing expansion joint types, including armored joint assemblies, strip seals, compression seals, and asphaltic plug joints, are to be removed or modified for this joint system installation, that work will be compensated under the applicable contract items. Any reconstruction of the existing deck concrete beneath the joint headers will be paid for under the applicable contract items.

BASIS OF PAYMENT

Item 973.2 will be paid for at the contract unit bid price per foot. Payment shall be considered full compensation for installation of the Pre-compressed Joint Seal including all labor, material equipment, manufacturer's representative and all items incidental to the satisfactory completion of the work

ITEM 974.3 METAL BRIDGE RAILING REMOVED FOOT

The work under this item shall conform to the relevant provisions of 975 of the Standard Specifications, and the following:

This work shall consist of removing existing steel bridge railings at Bridge No. M-19-004 05Q). Removal includes both the metal posts and the timber railings.

METHOD OF MEASUREMENT

Item 974.3 will be measured for payment by the Foot of bridge rail.

BASIS OF PAYMENT

Ityem 974.3 will be paid for at the contract unit price for Foot of bridge railing. The unit cost shall include all costs for labor, materials equiptment and incidental required for removal of the existing railing.

ITEM 975.51 STEEL RAILING REPAIR POUND

The work under this Item consists of detailing, furnishing, and installation of various railing components. The work under this Item shall conform to the relevant provisions of Subsection 975 of the Standard Specifications, and the following:

The work under this Item shall include field measurements of the existing railing components to be replaced in kind.

- H-16-006 has steel pipe horizontal rail members that suffered collision damage and require replacement in kind
- Various bridges have concrete repairs to areas of the concrete curb that will require re-setting the post anchorage. The posts and base plates are to be re-used wherever possible, as determined by the engineer. The anchor bolt assembly is to be replaced in kind in the new concrete. All assemblies are to be reset by template in the wet concrete and the posts and base plate is to be reinstalled after the concrete has cured.

Removal and disposal of the existing railing components is incidental to this item.

METHOD OF MEASUREMENT

Item 975.51 will be measured for payment by the Pound of railing elements complete and installed as required by the Engineer.

BASIS OF PAYMENT

Item 975.51 will be paid at the Contract unit price per Pound of railing elements complete and in place as shown on the plans and as directed by the Engineer.

The Contract price shall include all labor, materials, tools, equipment, and incidental costs required to complete the work as required by the Engineer.

ITEM 975.8 THRIE BEAM BRIDGE RAIL WITH HANDRAIL FOOT

The work to be performed under this item shall consist of the fabrication and installation of a Thrie Beam Bridge Rail system including Handrail. Work shall conform to the relevant provisions of Subsection 975 and Subsection 601 of the Standard Specifications and the following.

Thrie beam panels shall be 10-gauge panels unless noted otherwise on the drawings and shall conform to AASHTO M 180 Class B and shall meet the other requirements of M8.07.0 and M8.07.1. Offset blocks shall be in accordance with M8.07.0.B.

The posts and base plates shall be in accordance with M8.05.9, except that components need not be painted, finish will be the galvanizing only.

Handrail pipes shall be ASTM A 500 Grade B, Galvanized in accordance with M7.10.0.

The bridge rail posts shall be installed into the existing bridge curbs with the use of the HILTI HIT RE-500V3 adhesive anchor system. The installation of anchors shall be in accordance with all manufacturer recommendations.

METHOD OF MEASUREMENT

Item 975.8 will be measured by foot installed and accepted by the Engineer. The measurement shall be made along the face of the thrie beam between the center of the first and last post installed on and anchored to the curbs on each side of the bridge.

BASIS OF PAYMENT

Item 975.8 will be paid for at the Contract Unit Price per foot of Thrie Beam Bridge Rail system with Handrail installed. The Contractor shall be responsible for all necessary labor, materials, tools, equipment and the disposal of all materials incidental to the work to the satisfaction of the Engineer. Separate measurement and payment shall be made for each element of all Highway Guardrail at each of the four quadrants leading into or out of the bridge.

Cost for the handrail will incidental to this Item.

ITEM 994.021 TEMPORARY PROTECTIVE SHIELDING (OUTSIDE FASCIA BEAM) SQUARE FOOT

ITEM 994.1 TEMPORARY PROTECTIVE SHIELDING SQUARE FOOT

The work under this Item consists of designing, furnishing, installing, maintaining, removing and disposing of a protective shielding system on the outside fascia and under bridges in locations shown on the drawings and as required by the Engineer. The shielding shall protect traffic and personnel on the bridge and the waterway below from falling debris.

The work under this Item shall provide for the protection of the waterways beneath bridges from falling debris during the removal of the unsound concrete from bridge decks, parapets, copings and sidewalks. This shall be accomplished by the utilization of adequate shielding methods.

No portion of the bridge deck shall be removed until the protective shielding is in place and complete.

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:

1. Temporary Protective Shielding must be used on bridges over the 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, parapets or coping. In some cases, the Contractor may be able to utilize the bottom flanges of existing steel beams as supports for the protective shielding. However, the Contractor will not be permitted to weld onto, drill into, or cut any existing structural steel beams.

2. The Contractor shall submit drawings and calculations stamped by a Professional Engineer of the appropriate discipline registered in Massachusetts of the proposed temporary shielding to the Engineer for approval prior to its installation. The drawings shall include details of all connections, brackets, and fasteners. However, when the spacing between existing steel beams is 70 inches or less, the Contractor may utilize a wood plank shielding scheme.

3. Shielding shall be designed to safely withstand all loads that it will be subjected to. The allowable design stresses shall be in accordance with AASHTO Standard Specifications for Highway Bridges, 17th Edition. The design shall also include a description of the equipment and construction methods proposed for the deck, parapet, or coping excavation and the maximum size of the area being excavated. The shielding shall also be designed to withstand the maximum size of the excavated area should it fall during excavation or removal. No debris shall be swung over traffic on the bridge.

4. Shielding shall be designed such that impact on traffic during installation and removal shall be minimal. The Contractor shall submit the traffic plan to the Engineer for approval.

ITEM 994.1 and 994.021 (Continued)

5. The shielding shall extend a sufficient distance above and beyond the deck overhang at the fascia where concrete excavation is required outside the fascia beams. The shielding shall extend the length of the damaged or distressed portion of the deck a length of sufficient distance to do the required deck demolition. Also, the width of shielding shall completely extend over the river below and shall extend a minimum of one beam width in the transverse direction beyond the limits of the excavation.

6. The area for shielding shall be approved by the Engineer prior to any installation of any shielding. All spaces along the perimeter of the shielding and at the seams shall be sealed to prevent dust, water, and debris from escaping and falling into the waterway below the bridge.

7. The Engineer may request that the shielding be designed so that it may also serve as false work (forms) for all areas of full-depth concrete replacement/repair.

8. The shielding shall 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 forming for the areas of full depth repair. The shielding shall remain the property of the Contractor and shall be removed by the Contractor from the site when no longer needed.

If the Contractor's operations damage any existing portions of the bridge that are to remain, such damage shall be repaired at the Contractor's own expense.

All materials used in the temporary shielding system shall become the property of the Contractor and shall be removed from the site upon the completion of the project.

METHOD OF MEASUREMENT

Item 994.1 will be measured for payment by the Square Foot of shielding installed, maintained, and removed upon completion of repair work as required by the Engineer.

Item 994.021 will be measured for payment by the Square Foot of protective shielding installed, maintained, and removed upon completion of repair work.

ITEM 994.1 and 994.021 (Continued)

BASIS OF PAYMENT

Item 994.1 will be paid for at the Contract unit price per Square Foot, which price shall include all labor, materials, equipment, removal and disposal all debris, shielding installation, maintenance, final removal upon completion of repair work, and all incidental costs required to complete the work.

Item 994.021 will be paid for at the respective contract unit prices per Square Foot, which prices shall include all labor, materials, equipment, removal and disposal all debris, shielding installation, maintenance, final removal upon completion of repair work, and all incidental costs required to complete the work.

Compensation to provide design of temporary protective shielding shall be incidental to these items. All costs associated with the safe removal and disposal of accumulated pigeon waste and other toxic contaminants are incidental to these items and no additional compensation will be made.

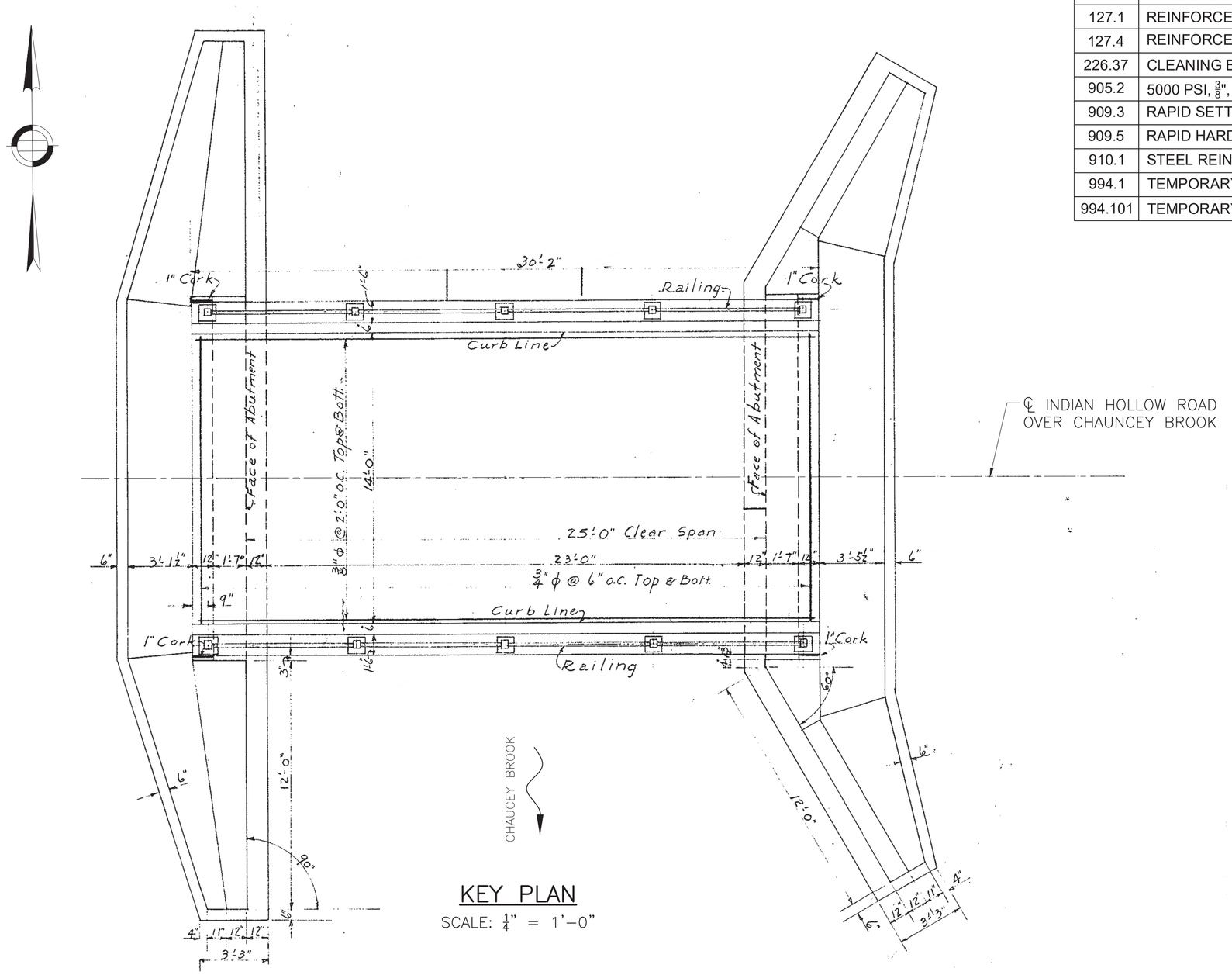
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DOCUMENT A00803

DRAWINGS

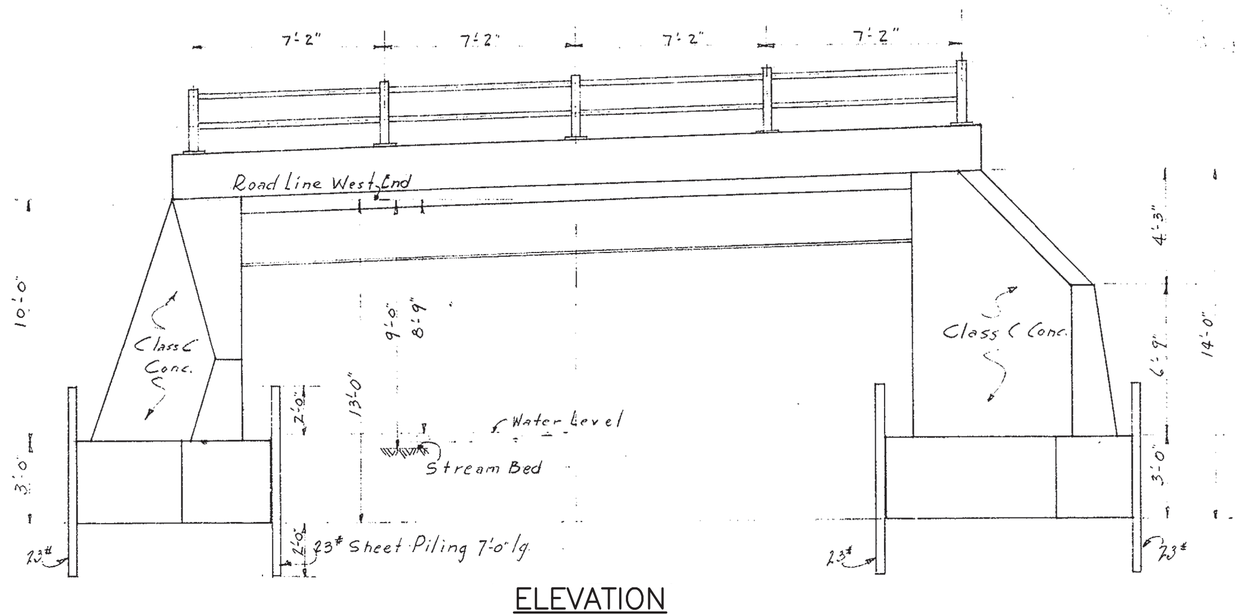
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Proposal No. 616282-135582



KEY PLAN

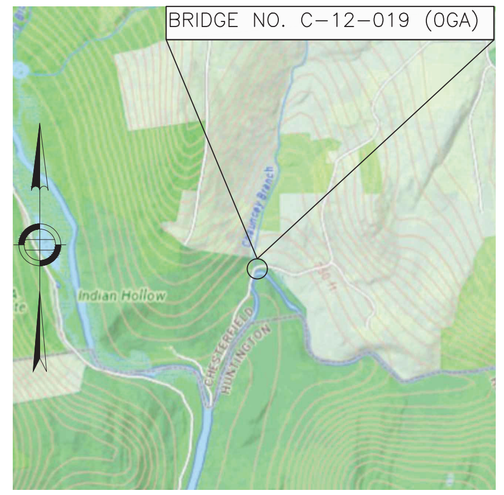
SCALE: 1/4" = 1'-0"



ELEVATION

SCALE: 1/4" = 1'-0"

ESTIMATED QUANTITIES (NOT GUARANTEED)			
ITEM	DESCRIPTION	QUANTITY	UNITS
106.493	POLYESTER POLYMER CONCRETE FOR TOPSIDE DECK REPAIRS	2	CY
107.97	STRUCTURAL STEEL REPAIRS	820	LBS
127.1	REINFORCED CONCRETE EXCAVATION	1	CY
127.4	REINFORCED CONCRETE DECK EXCAVATION (FULL DEPTH)	2	SY
226.37	CLEANING BRIDGE SEATS	36	FT
905.2	5000 PSI, 3/8", 710 HP CEMENT CONCRETE	1	CY
909.3	RAPID SETTING LOW PERMEABILITY CONCRETE	1	CY
909.5	RAPID HARDENING CEMENTITIOUS PRODUCTS FOR REPAIRS	3	CY
910.1	STEEL REINFORCEMENT FOR STRUCUTURES - EPOXY COATED	80	LB
994.1	TEMPORARY PROTECTIVE SHIELDING	40	SF
994.101	TEMPORARY PROTECTIVE SHIELDING (OUTSIDE FASCIA BEAM)	80	SF



LOCUS MAP

SCALE: 1" = 2000'

GENERAL NOTES:

1. GENERAL REPAIR DESIGN IN ACCORDANCE WITH THE 17TH EDITION OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES WITH INTERIM SPECIFICATIONS THROUGH 2002, FOR H20 LOADING.
2. ALL WORK SCHEDULES, WILL BE PRE-APPROVED BY THE DEPARTMENT PRIOR TO BEGINNING WORK. WORK NECESSARY OUTSIDE OF NORMAL WORK HOURS BECAUSE OF TRAFFIC CONDITIONS, AS NOTED IN THE PLANS OR SPECIFICATIONS, WILL BE SUBMITTED TO MASSDOT FOR APPROVAL. ALL WORK PERFORMED WILL BE IN CONFORMANCE WITH THE MASSDOT NOISE ORDINANCES.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RELEVANT SECTIONS OF THE CURRENT MASSDOT "STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES", INCLUDING CURRENT SUPPLEMENTALS.
4. THESE DRAWINGS WERE FORMATTED FOR 24"x36" PLAN SHEETS. SCALES NOTED ON THE DRAWINGS ARE NOT APPLICABLE TO REDUCED SIZE PRINTS.
5. EXISTING STRUCTURE DIMENSIONS AND DETAILS ARE ACCORDING TO ORIGINAL CONSTRUCTION DRAWINGS, OBSERVATION, AND FIELD MEASUREMENTS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE AND ESTABLISH ALL DIMENSIONS AND EXISTING DETAILS NECESSARY FOR COMPLETION OF ALL WORK BY FIELD MEASUREMENT (I.E. BEARING LOCATIONS, EXISTING REPAIRS, ETC.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY AND ACCURACY THEREOF, AND SHALL NOT ORDER ANY MATERIAL OR COMMENCE ANY FABRICATION UNTIL THEY HAVE MADE THE REQUIRED MEASUREMENTS ON THE ACTUAL STRUCTURE AND THE EXTENT OF THE PROPOSED WORK HAS BEEN APPROVED BY THE ENGINEER.
6. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY NOT TO DAMAGE UTILITIES, EQUIPMENT, STRUCTURES, OR THOSE PORTIONS OF THE SUPERSTRUCTURE THAT ARE TO REMAIN IN PLACE, THAT ARE TO BE REUSED, OR THAT ARE TO REMAIN THE PROPERTY OF OTHERS. ANY PORTION OF THE SUPERSTRUCTURE AND SUBSTRUCTURE TO REMAIN WHICH BECOMES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR SHALL ASSUME ALL EXISTING COATINGS CONTAIN LEAD UNLESS OTHERWISE DETERMINED BY TESTING. ALL DEBRIS CREATED BY OPERATIONS SHALL BE PROPERLY CONTAINED AND DISPOSED OF.
8. TEMPORARY SHIELDING WILL BE PROVIDED TO PROTECT THE BROOK BENEATH THE BRIDGE FROM FALLING OR FLYING DEBRIS OR ANY TOOLS OR INCIDENTAL EQUIPMENT DURING ALL ACTIVITIES, INCLUDING STEEL REPAIR PLATE INSTALLATION, PREPARATION, CLEANING & PAINTING, ETC.
9. ALL STRUCTURAL STEEL PLATES AND ANGLES SHALL CONFORM TO AASHTO M270 AND/OR DUAL CERTIFIED WITH ASTM A709, GRADE 36 OR 50 DESIGNATION. CHARPY V-NOTCH TESTING IS REQUIRED FOR MAIN MEMBER REPAIR, ACCORDING TO MASSDOT STANDARD SPECIFICATIONS. ALL NEW STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 111.
10. ALL BOLTS AND RELATED HARDWARE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M164 (ASTM F3125 GRADE A325). ALL NEW BOLTS SHALL BE 7/8"ø HIGH STRENGTH BOLTS IN 15/16"ø HOLES, WITH MINIMUM 1½" EDGE DISTANCE AND 3" CENTER TO CENTER MINIMUM SPACING UNLESS NOTED OTHERWISE. ALL BOLT SIZES AND BOLT TYPES TO BE USED SHALL BE LABELED ON SHOP DRAWINGS. NEW BOLTS AND NUTS SHALL BE GALVANIZED.
11. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31 GRADE 60 EPOXY COATED.
12. PRIOR TO THE INSTALLATION OF ANY NEW STEEL, AREAS OF EXISTING STEEL THAT ARE TO RECEIVE NEW STEEL SHALL BE THOROUGHLY CLEANED OF ALL PAINT, RUST, SCALE, OIL, GREASE, AND OTHER DELETERIOUS MATERIAL IN ACCORDANCE WITH SSPC-SP 1 OR SSPC-SP 3, AS APPLICABLE. CLEANED SURFACES SHALL BE PREPARED TO A POWER TOOL CLEANED CONDITION (SSPC-SP 3) WHERE REQUIRED AND SHALL RECEIVE A PRIME COAT OF PAINT IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS PRIOR TO INSTALLATION OF NEW STEEL
13. NO REPAIRS SHALL COMMENCE UNTIL ALL MATERIALS (EXCLUDING CONCRETE) ARE ON HAND FOR THE REPAIR. THIS INCLUDES TRANSFER OF EXISTING HOLE LOCATIONS TO NEW STEEL AND COMPLETION OF SUB DRILLED/PUNCHED HOLES.
14. ALL HOLES IN THE NEW STEEL SHALL BE SUB DRILLED (OR SUB PUNCHED) TO 11/16"ø AND REAMED FULL SIZE WITH ALL PLIES OF THE CONNECTION OR REPAIR IN PLACE.
15. FIELD DRILLING OF NEW HOLES IN THE EXISTING AND NEW STEEL, FOR INSTALLATION OF HIGH STRENGTH BOLTS, SHALL BE DRILLED 1/16" LARGER THAN THE BOLT DIAMETER. BURNING OR PUNCHING OF HOLES WILL NOT BE ALLOWED.
16. EPOXY COMPOUND FOR STRUCTURAL STEEL REPAIRS SHALL BE A SOLVENT FREE, MOISTURE TOLERANT, EPOXY PASTE ADHESIVE SYSTEM. THE EPOXY PASTE SHALL BE DEVELOPED SPECIFICALLY FOR FILLING, SMOOTHING, SEALING, OR FAIRING APPLICATIONS ON METALS. THE PASTE SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S LATEST WRITTEN INSTRUCTIONS.
17. RESTRICT ALL CONSTRUCTION ACTIVITIES DURING THE SUMMER SEASON (MAY THROUGH SEPTEMBER) WHEN THE INDIAN HOLLOW CAMPGROUND IS OPEN TO THE PUBLIC. WINTER WORK (OCTOBER THROUGH APRIL) MAY BE PERMITTED UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
18. COORDINATE ALL WORK WITH THE ADJACENT PROPERTY OWNER (ABUTTER) TO ENSURE ACCESS AND OPERATIONAL NEEDS ARE MAINTAINED THROUGHOUT CONSTRUCTION. MAINTAIN STEEL PLATES ON-SITE OR READILY AVAILABLE TO PROVIDE TEMPORARY ACCESS DURING DECK REPAIR OPERATIONS AS DIRECTED OR REQUIRED BY THE ENGINEER.
19. CLEARING AND GRUBBING ITEM 101. PAY LIMITS SHALL NOT EXCEED 0.15 ACRE PER STRUCTURE UNLESS OTHERWISE DIRECTED BY THE ENGINEER AND ALL CLEARING AND GRUBBING REQUIRED BEYOND THESE LIMITS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND SHALL NOT BE PAID FOR SEPARATELY.

CHESTERFIELD
INDIAN HOLLOW ROAD OVER CHAUNCEY BROOK

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GENERAL NOTES, LOCUS, PROFILE, AND INDEX

INDEX OF SHEETS

1. GENERAL NOTES, LOCUS AND INDEX
2. FRAMING PLAN & TYPICAL CROSS SECTION
3. GENERAL PLAN & TYPICAL CURB REPAIRS
4. STEEL BEAM END REPAIR DETAILS
5. DECK REPAIRS
6. BEARING KEEPER PLATE REPAIR DETAIL
7. TEMPORARY ROAD CLOSURE PLAN

JULY 18, 2026 | ISSUED FOR CONSTRUCTION

MassDOT Massachusetts Department of Transportation Highway Division

PROPOSED BRIDGE PRESERVATION

DISTRICT 1 - MULTIPLE LOCATIONS

INDIAN HOLLOW ROAD
OVER CHAUNCEY BROOK

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION
10 PARK PLAZA BOSTON, MASS

H&H
ONE WASHINGTON MALL
SUITE 1602
BOSTON, MA 02108
(617) 268-2017

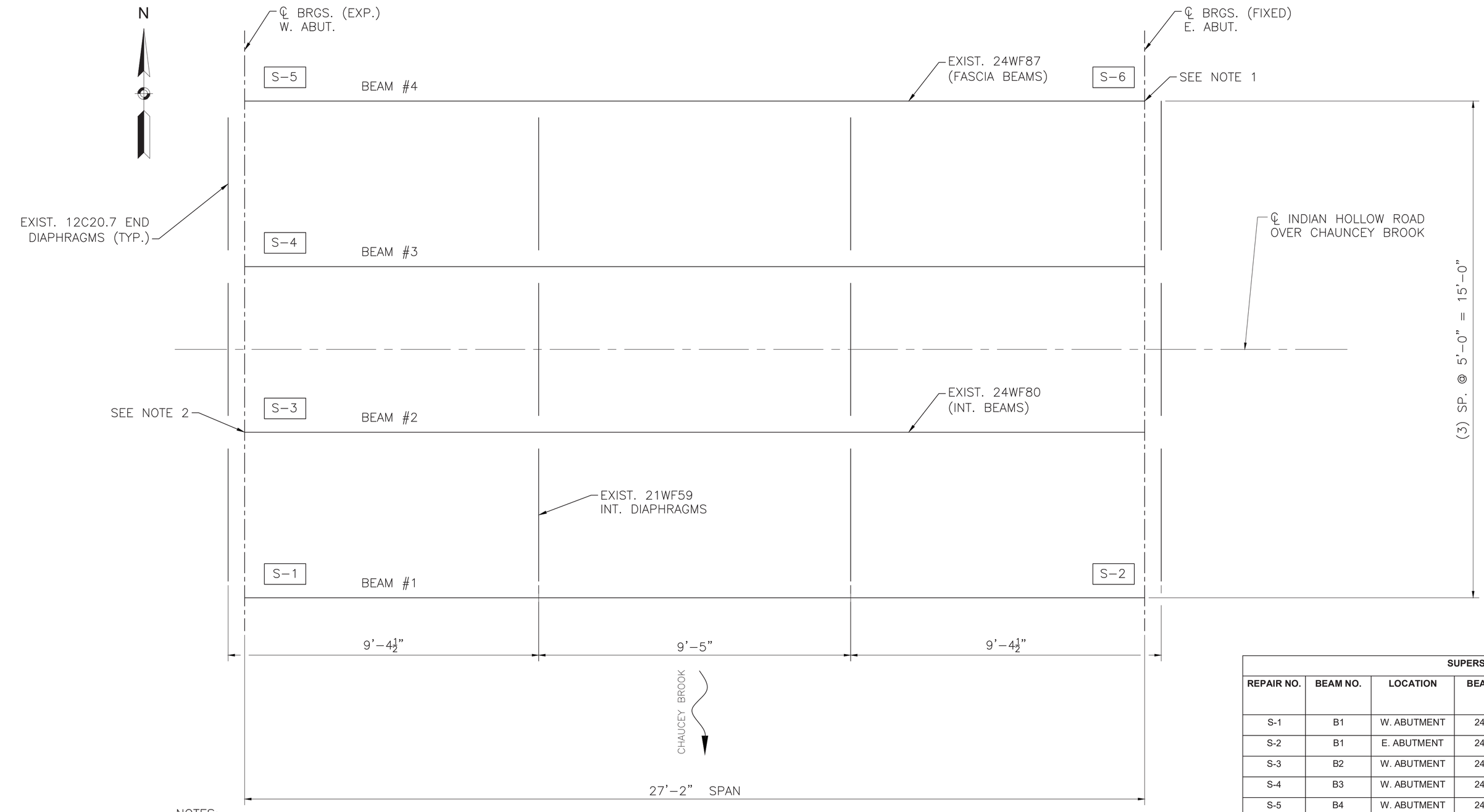
SHEET 1 OF 7 SHEETS BRIDGE NO. C-12-019 (0GA)

C-12-019 (0GA).DWG Plotted on 11-Jun-2026 11:46 AM
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CHESTERFIELD
INDIAN HOLLOW ROAD OVER CHAUNCEY BROOK

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	2	7
PROJECT FILE NO.	616286		

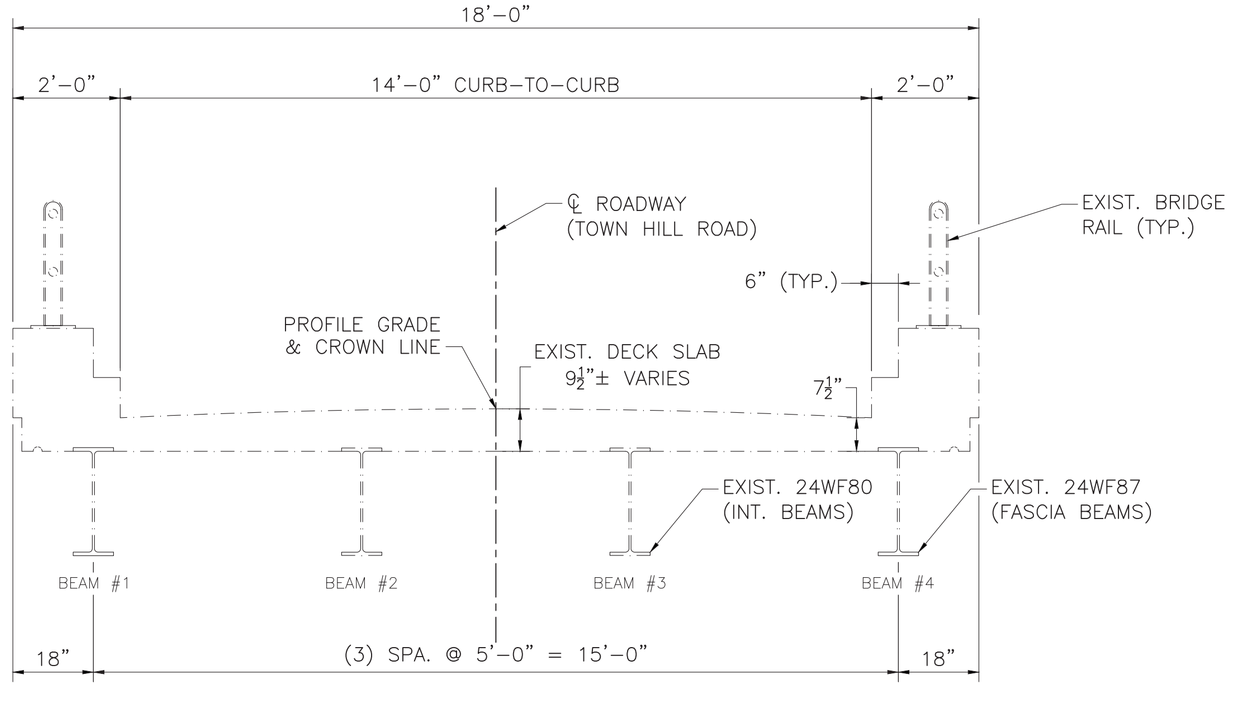
FRAMING PLAN & TYPICAL CROSS SECTION



NOTES:

1. AT THE LOCATION SHOWN, TIGHTEN THE BACKED-OFF ANCHOR BOLT NUT. THIS WORK SHALL BE INCIDENTAL TO ITEM 107.97 – STRUCTURAL STEEL REPAIRS.
2. LOCATION OF PROPOSED BEARING KEEPER PLATE (SEE DETAILS ON SHEET 5). THIS WORK SHALL BE PAID UNDER ITEM 107.97 – STRUCTURAL STEEL REPAIRS.

FRAMING PLAN
SCALE: ½" = 1'-0"



EXISTING TYPICAL CROSS-SECTION
SCALE: ½" = 1'-0"

SUPERSTRUCTURE - SCHEDULE OF REPAIRS (STEEL REPAIRS)

REPAIR NO.	BEAM NO.	LOCATION	BEAM SIZE	SHORING REQUIRED	JACKING REQUIRED	REPAIR LENGTH (IN.)	REPAIR HEIGHT (IN.)	NOTES
S-1	B1	W. ABUTMENT	24WF87	NO	NO	33	6.5	SEE SHEET 4 FOR DETAILS
S-2	B1	E. ABUTMENT	24WF87	NO	NO	33	6.5	SEE SHEET 4 FOR DETAILS
S-3	B2	W. ABUTMENT	24WF80	NO	NO	33	6.5	SEE SHEET 4 FOR DETAILS
S-4	B3	W. ABUTMENT	24WF80	NO	NO	33	6.5	SEE SHEET 4 FOR DETAILS
S-5	B4	W. ABUTMENT	24WF87	NO	NO	33	6.5	SEE SHEET 4 FOR DETAILS
S-6	B4	E. ABUTMENT	24WF87	NO	NO	33	6.5	SEE SHEET 4 FOR DETAILS

DATE	DESCRIPTION
JULY 18, 2026	ISSUED FOR CONSTRUCTION
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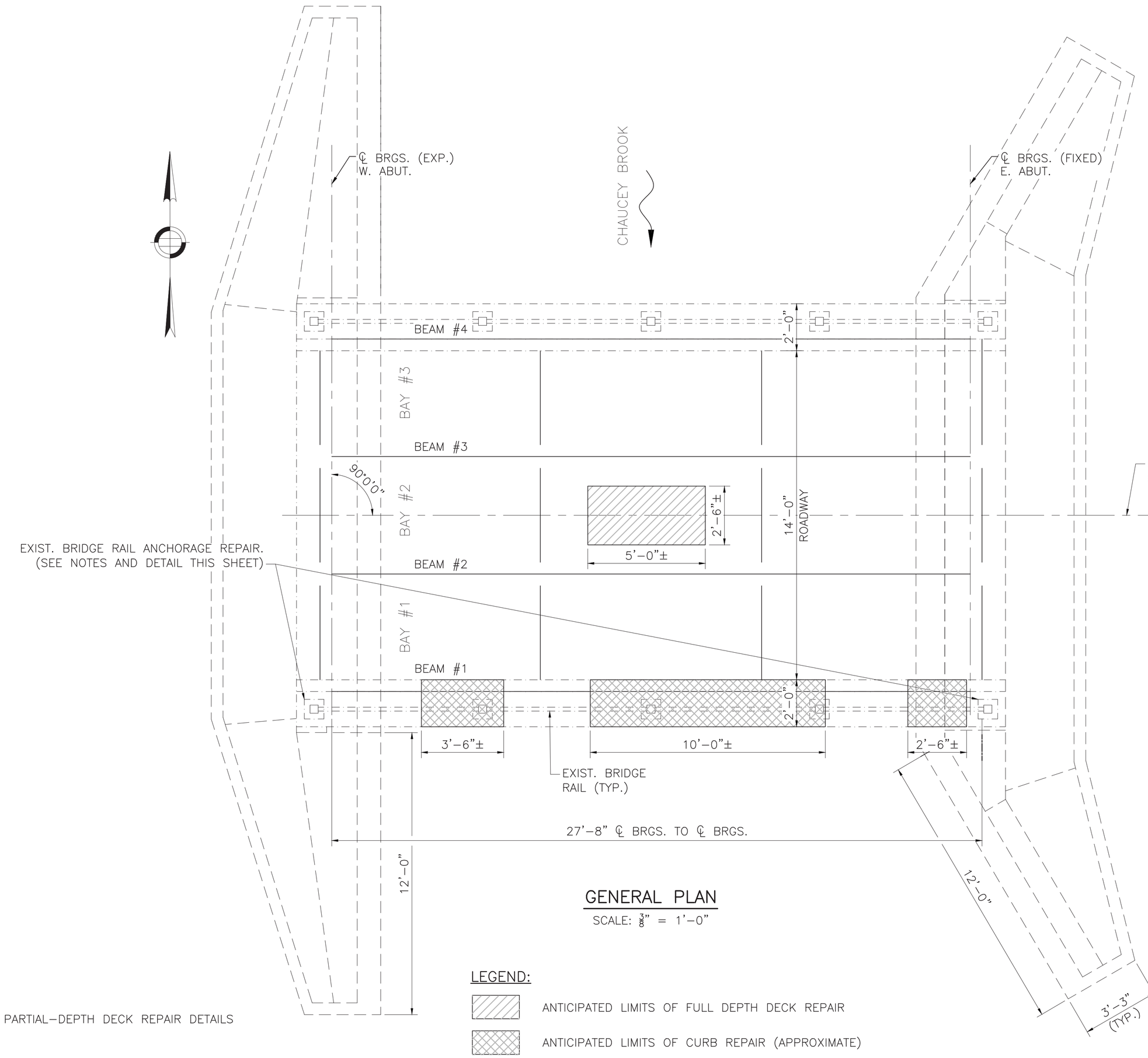
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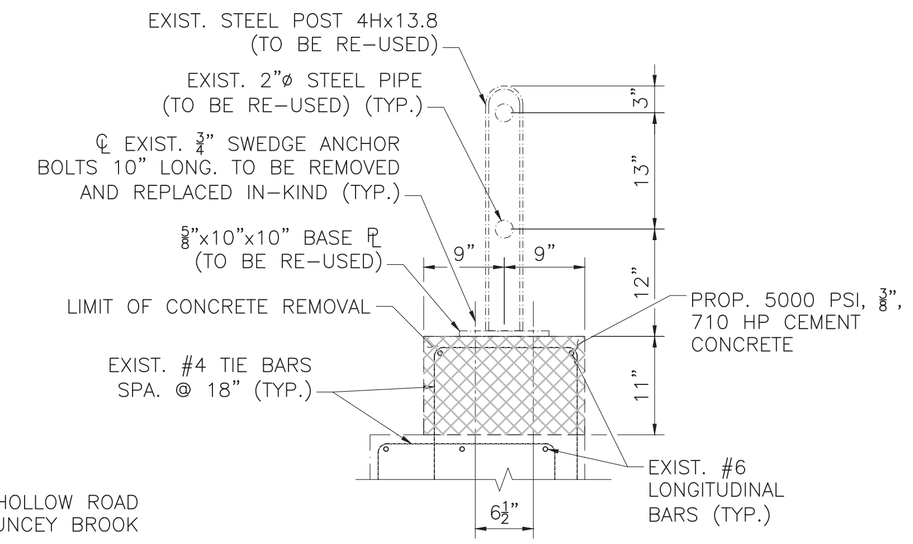
CHESTERFIELD
INDIAN HOLLOW ROAD OVER CHAUNCEY BROOK

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	3	7
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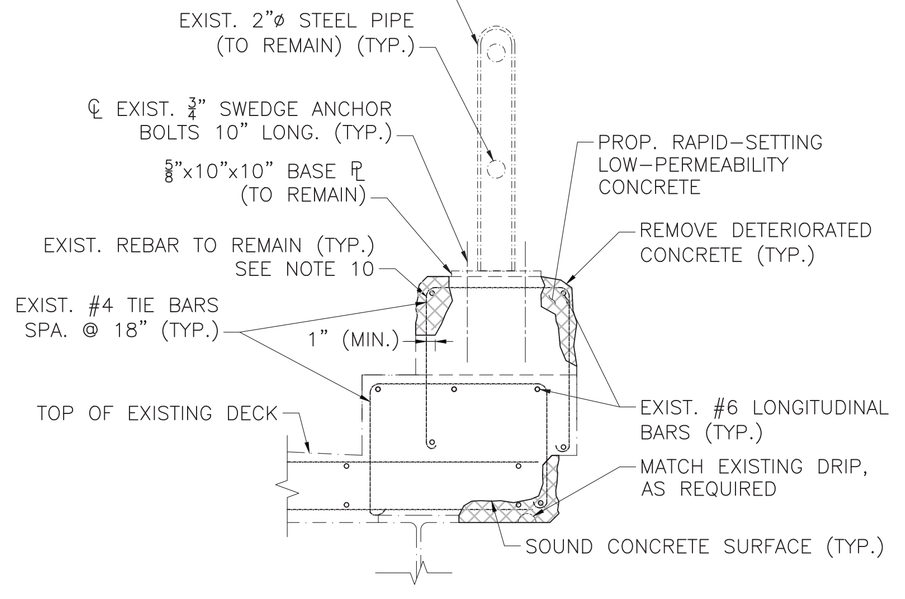
GENERAL PLAN & TYPICAL CURB REPAIRS



GENERAL PLAN
SCALE: $\frac{3}{8}$" = 1'-0"



RAIL ANCHORAGE REPAIR DETAIL
SCALE: 1" = 1'-0"



TYPICAL CURB REPAIRS
SCALE: 1" = 1'-0"

LEGEND:

ANTICIPATED LIMITS OF FULL DEPTH DECK REPAIR

ANTICIPATED LIMITS OF CURB REPAIR (APPROXIMATE)

DECK REPAIR NOTES:

1. SEE SHEET 6 FOR FULL-DEPTH AND PARTIAL-DEPTH DECK REPAIR DETAILS AND ADDITIONAL REQUIREMENTS.

BRIDGE RAIL BASEPLATE ANCHORS AND CURB REPAIR NOTES:

1. REMOVE CONCRETE CURB AS REQUIRED TO REMOVE EXISTING ANCHOR BOLTS. REMOVE ALL ADJACENT LOOSE OR DETERIORATED CONCRETE.
2. INSTALL ¾"ø x 10" LONG SWEDGE ANCHOR BOLTS, CAST INTO NEW CONCRETE PRIOR TO PLACEMENT OF BASEPLATES. LOCATE AND ALIGN ANCHORS TO MATCH EXISTING FIELD CONDITIONS.
3. RECONSTRUCT CURB TO MATCH EXISTING LINE, GRADE, AND CROSS SLOPE. PATCH DISTURBED AREAS.
4. PLACE BASEPLATES OVER EMBEDDED ANCHORS. INSTALL WASHERS AND HEX NUTS AFTER CONCRETE REACHES DESIGN STRENGTH AND SEAL EXPOSED PERIMETERS WITH AN ELASTOMERIC SEALANT IN ACCORDANCE WITH MASSDOT STANDARD SPECIFICATIONS TO PREVENT MOISTURE INTRUSION.
5. REMOVE ALL DIRT, DEBRIS, LOOSE MATERIAL, AND UNSOUND CONCRETE FROM CURB SURFACES WITHIN REPAIR LIMITS.
6. PREPARE ALL CONCRETE REPAIR SURFACES BY MECHANICAL MEANS TO SOUND, CLEAN CONCRETE. PROVIDE A ROUGHENED SURFACE WITH A MINIMUM 1/4 IN. AMPLITUDE.
7. ALL EXISTING REINFORCING STEEL TO REMAIN SHALL BE ABRASIVELY BLAST CLEANED TO REMOVE RUST, OIL, AND LOOSE SCALE.
8. CLEAN ALL PREPARED SURFACES WITH COMPRESSED AIR TO REMOVE DUST AND LOOSE PARTICLES PRIOR TO PLACEMENT OF REPAIR MATERIAL.
9. ALL EXISTING CONCRETE SURFACES TO RECEIVE REPAIR MATERIAL SHALL BE PRE-WETTED FOR A MINIMUM OF 24 HOURS AND BROUGHT TO A SATURATED SURFACE DRY (SSD) CONDITION IMMEDIATELY PRIOR TO PLACEMENT.
10. 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.
11. SURFACE PREPARATION, CLEANING, AND CONDITIONING SHALL CONFORM TO THE MASSDOT STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

NOTE:

1. AT THE TIME OF INSPECTION, THE BRIDGE CURBS WERE SNOW COVERED. INDICATED REPAIR LIMITS ARE APPROXIMATE AND REPRESENT GENERAL AREAS WHERE REPAIRS ARE ANTICIPATED. CONTRACTOR SHALL VERIFY ACTUAL LIMITS IN THE FIELD, AND THE CONSTRUCTION ENGINEER SHALL CONFIRM FIELD CONDITIONS PRIOR TO EXECUTION OF WORK. ALL REPAIR AREAS SHALL BE PREPARED IN ACCORDANCE WITH MASSDOT STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

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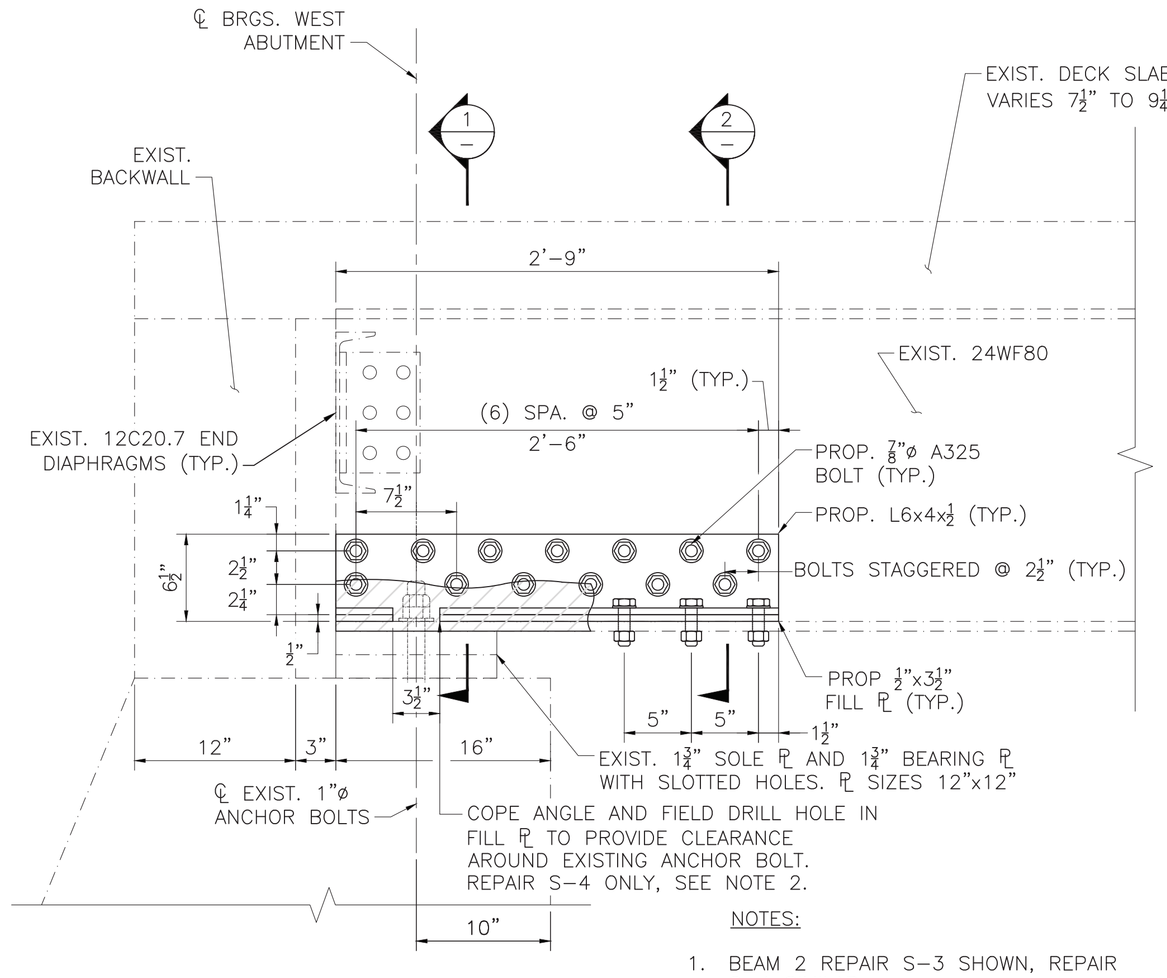
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STEEL BEAM END REPAIR DETAILS

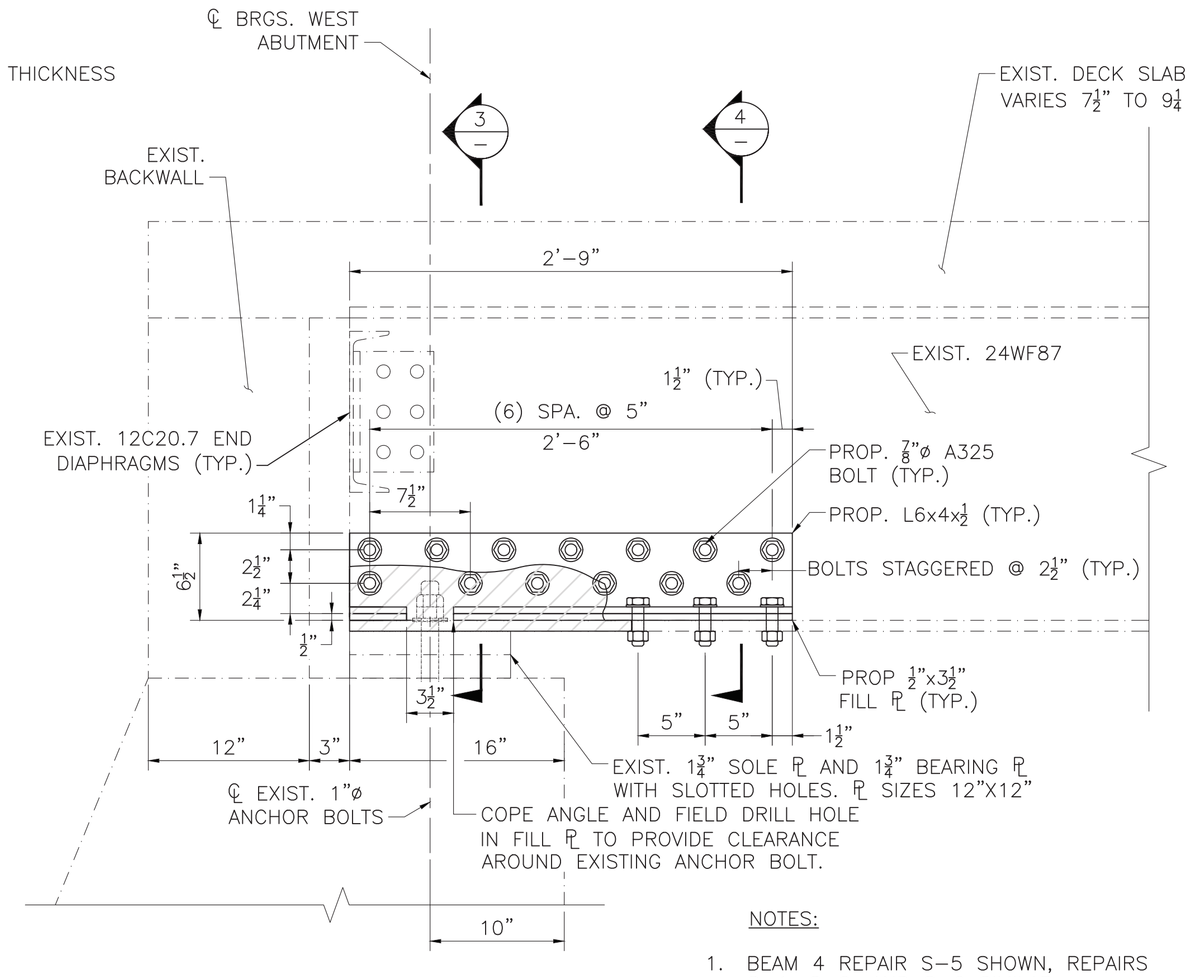


BEAM 2 REPAIR S–3 DETAILS

SCALE: 1½" = 1'–0"

NOTES:

1. BEAM 2 REPAIR S–3 SHOWN, REPAIR S–4 SIMILAR.
2. BEAM 2 REPAIR S–3: PROPOSED KEEPER PLATE INSTALLATION. CUT EXISTING ANCHOR BOLT FLUSH WITH SOLE PLATE. DO NOT COPE REPAIR ANGLE OR FILL PLATE.

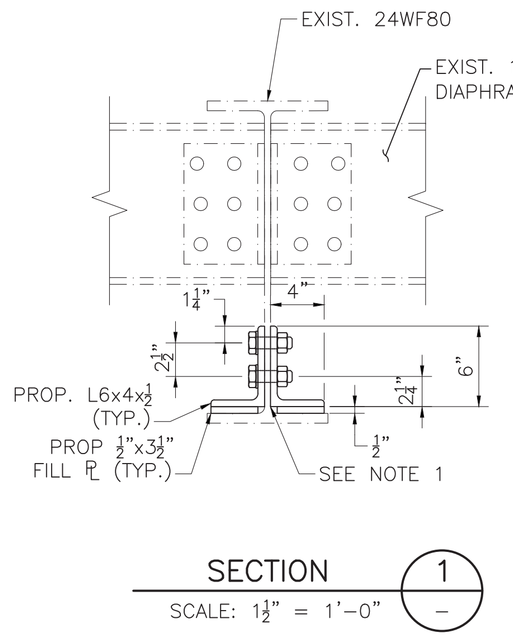


BEAM 4 REPAIR S–5 DETAILS

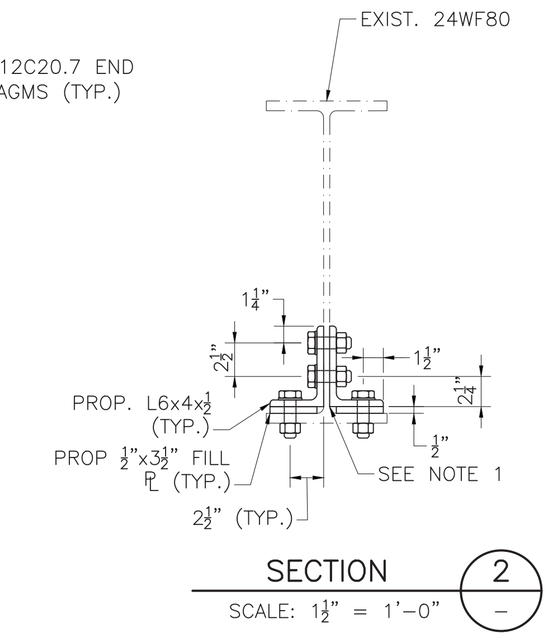
SCALE: 1½" = 1'–0"

NOTES:

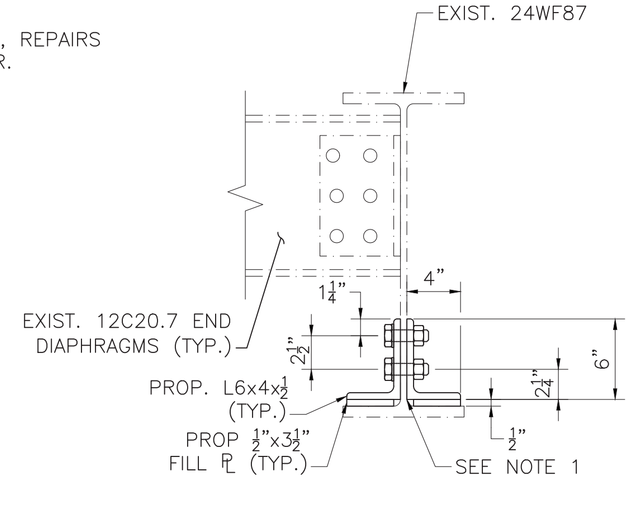
1. BEAM 4 REPAIR S–5 SHOWN, REPAIRS S–1, S–2, AND S–6 SIMILAR.



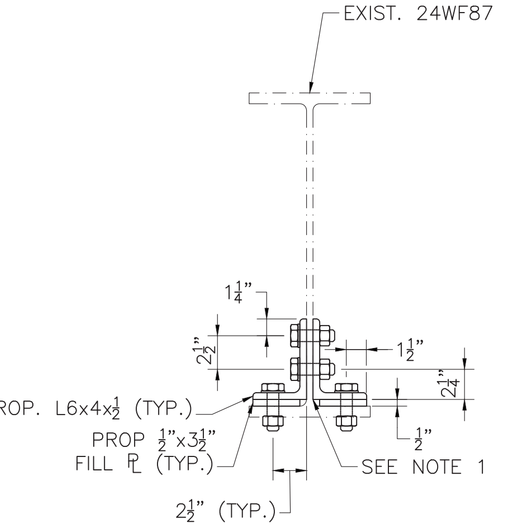
SECTION 1 / SCALE: 1½" = 1'–0"



SECTION 2 / SCALE: 1½" = 1'–0"



SECTION 3 / SCALE: 1½" = 1'–0"



SECTION 4 / SCALE: 1½" = 1'–0"

NOTES:

1. GRIND HEEL OF ANGLE OR END OF PLATE AS NECESSARY TO CLEAR FILLETS OF EXISTING MEMBERS.

LEGEND:

APPROXIMATE AREA OF SECTION LOSS

◎ NEW H.S. BOLT IN NEW HOLE

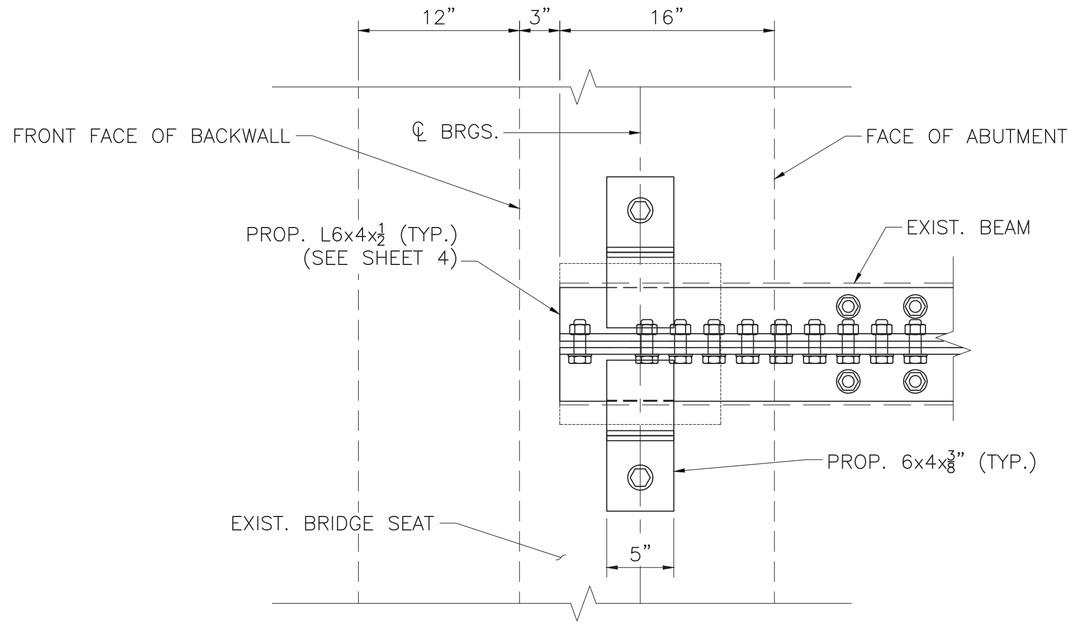
○ EXISTING RIVET

STEEL REPAIR NOTES:

1. CLEAN THE CONTACT SURFACES OF EXISTING STEEL IN ACCORDANCE WITH SPECIAL PROVISIONS. THE CONTACT SURFACES SHALL BE FREE OF PAINT, OIL, AND GREASE.
2. STEEL IS TO BE PRIMED AFTER CLEANING AND PRIOR TO INSTALLATION OF ANY REPAIR MEMBERS. SEE GENERAL NOTES.
3. ENGINEER TO INSPECT CLEANED REPAIR AREA AND VERIFY REPAIR LIMITS BASED ON CONDITIONS EXPOSED BY CLEANING.
4. THE BEAM SHALL BE INSPECTED FOR DAMAGE DUE TO CONTRACTOR OPERATIONS. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTORS' EXPENSE.
5. THE CONTRACTOR SHALL INSTALL FLANGE BOLTS AND CLAMP AREAS WHERE FLANGE BOLTS ARE NOT REQUIRED PRIOR TO DRILLING HOLES FOR WEB BOLTS.
6. FIELD DRILL HOLES IN BEAM WEB TO MATCH HOLE PATTERN IN FABRICATED ANGLE CONNECTION.
7. IN LOCATIONS WHERE HEAVY DETERIORATION HAS OCCURRED OR AS DIRECTED BY THE ENGINEER, EPOXY REPAIR FAIRING COMPOUND SHALL BE APPLIED OVER THE PRIME COAT AS FOLLOWS:
   A. THE EPOXY REPAIR COMPOUND SHALL BE APPLIED TO THE DETERIORATED AREAS (WEB & FLANGE WHERE NEW PLATES ARE TO BE INSTALLED) IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL THE METHODS, PROCEDURES, AND MATERIALS TO BE USED FOR THE WORK.
   B. THE REPAIR COMPOUND SHALL ONLY BE APPLIED TO THOSE AREAS OF THE EXISTING STEEL THAT EXHIBIT SEVERE SECTION LOSS TO COMPLETELY FILL THE IRREGULARITIES IN THE EXISTING STEEL SURFACES SUCH THAT NO VOIDS REMAIN BETWEEN THE PLIES OF THE EXISTING STEEL AND THE PROPOSED STRENGTHENING STEEL IN THE FINAL REPAIRED CONDITION.
   C. THE PROPOSED REPAIR STEEL SHALL BE PROPERLY POSITIONED AND BROUGHT INTO FIRM CONTACT WITHIN THE WORKING TIME LIMITS OF THE EPOXY REPAIR COMPOUND. THE REPAIR STEEL SHALL BE SECURED IN PLACE USING POSITIONING BOLTS TENSIONED TO A SNUG TIGHT CONDITION AND CLAMPS OR OTHER MECHANICAL MEANS TO BRING THE PLIES OF THE EXISTING STEEL AND NEW STEEL INTO FIRM CONTACT. WELDING IS NOT ALLOWED.
   D. ONCE THE PROPOSED STEEL HAS BEEN SECURED INTO POSITION WITH THE POSITIONING BOLTS, AND THE EPOXY COMPOUND HAS CURED, THE REMAINING H.S. BOLTS SHALL BE INSTALLED FOLLOWING THE PROCEDURE OUTLINED IN THE GENERAL NOTES.
   E. EPOXY COMPOUND FOR STRUCTURAL STEEL REPAIRS SHALL BE A SOLVENT FREE, MOISTURE TOLERANT, EPOXY PASTE ADHESIVE SYSTEM. THE EPOXY PASTE SHALL BE DEVELOPED SPECIFICALLY FOR FILLING, SMOOTHING, SEALING, OR FAIRING APPLICATIONS ON METALS. THE PASTE SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S LATEST WRITTEN INSTRUCTIONS. AN ACCEPTABLE PRODUCT SHALL BE ONE OF THE FOLLOWING OR AN APPROVED EQUAL: TW PHILADELPHIA RESINS REPAIR COMPOUND MANUFACTURED BY: ITW PHILADELPHIA RESINS, SIKADUR 31, HI–MOD GEL MANUFACTURED BY: SIKA CORPORATION, DEVCON PLASTIC STEEL PUTTY (A) MANUFACTURED BY: ITW DEVCON, FX–738 METAL FILLED EPOXY MANUFACTURED BY: SIMPSON STRONG TIE.
8. REPAIR STEEL ELEMENTS SHALL BE FIELD BOLTED TO EXISTING STEEL MEMBERS USING HIGH–STRENGTH BOLTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. SEE GENERAL NOTES FOR SURFACE PREPARATION AND COATING REQUIREMENTS.
9. ALL STRUCTURAL STEEL PLATES AND ANGLES SHALL CONFORM TO AASHTO M270 AND/OR DUAL CERTIFIED WITH ASTM A709, GRADE 36 OR 50 DESIGNATION. CHARPY V–NOTCH TESTING IS REQUIRED FOR MAIN MEMBER REPAIR, ACCORDING TO MASSDOT STANDARD SPECIFICATIONS.
10. IN THE CASE THAT ANY STEEL REPAIR ANGLE INTERFERES WITH THE EXISTING ANCHOR BOLT, A LEG OF THE ANGLE CAN BE COPED TO PROVIDE CLEARANCE AROUND THE EXISTING ANCHOR BOLT UNLESS OTHERWISE NOTED.
11. SEAL PERIMETER OF ALL STEEL WITH SILICONE CAULK.
12. FOR ADDITIONAL NOTES, SEE BRIDGE GENERAL NOTES ON SHEET 1.

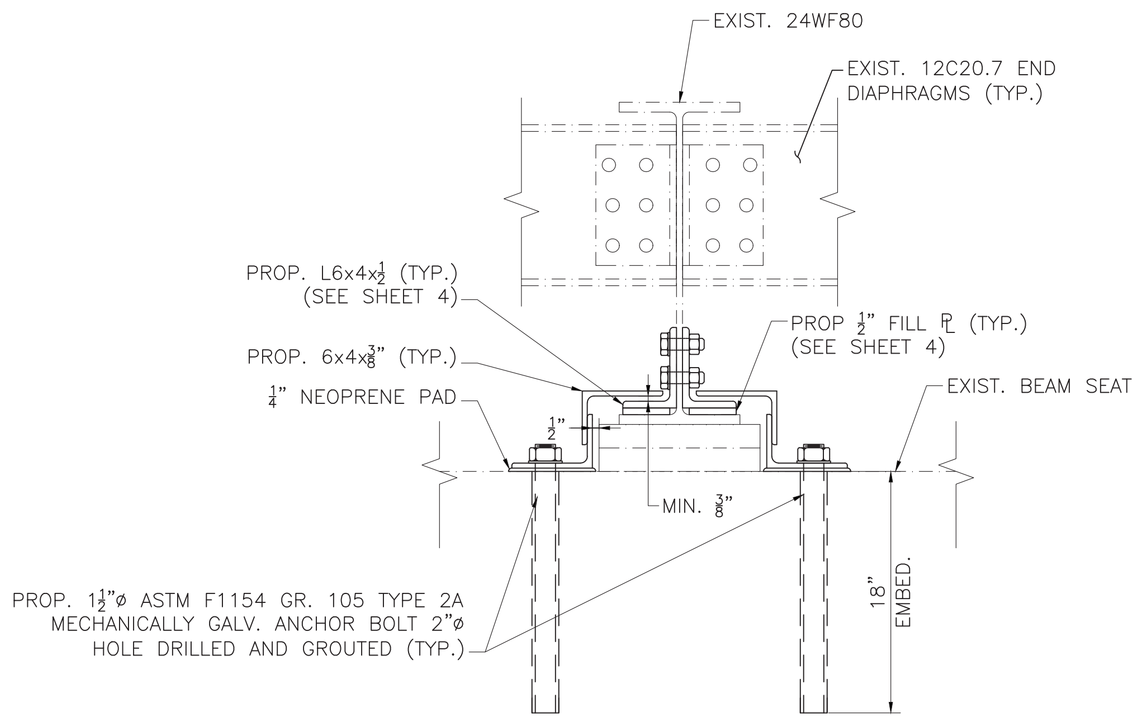
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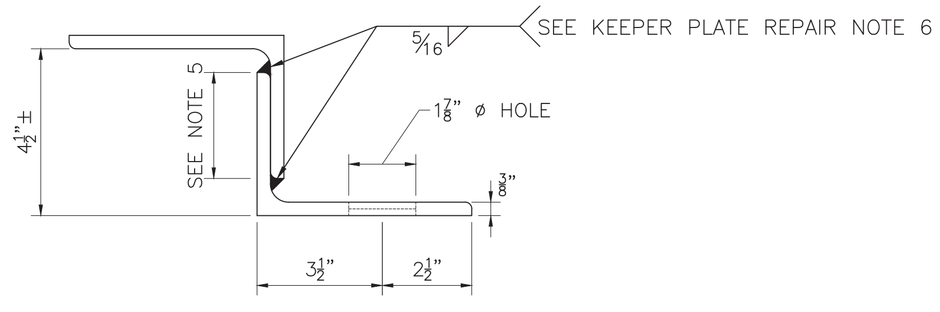
BEARING KEEPER PLATE PLAN VIEW

SCALE: 1½" = 1'–0"



BEARING KEEPER PLATE REPAIR SECTION

SCALE: 1½" = 1'–0"



KEEPER PLATE DETAIL

SCALE: 3" = 1'–0"

KEEPER PLATE REPAIR NOTES:

1. THIS DETAIL SHALL BE UTILIZED AT ALL LOCATIONS WHERE ANCHOR BOLT REPLACEMENT IS PROPOSED.
2. CONTRACTOR SHALL HAND TOOL CLEAN THE EXISTING BEARING SURFACES AND BRIDGE SEAT PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL SEQUENCE KEEPER PLATE REPAIR WORK TO NOT INTERFERE WITH BEAM END REPAIRS AT THE SAME LOCATION.
4. CONTRACTOR SHALL NOT INSTALL NEW KEEPER PLATES UNTIL ALL CONTACT SURFACES HAVE BEEN CLEANED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
5. ANGLE LEG OVERLAP SHALL BE ADJUSTED AS REQUIRED TO ACHIEVE MINIMUM CLEARANCE TO BEAM BOTTOM FLANGE
6. FILLET WELD SHALL TERMINATE ¼" BEFORE ENDS OF ANGLE LEG.
7. KEEPER PLATE SHALL BE GALVANIZED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
8. KEEPER PLATES AND ALL ASSOCIATED MATERIALS, LABOR, EQUIPMENT, AND INCIDENTAL WORK REQUIRED TO COMPLETE THE STRUCTURAL STEEL REPAIRS SHALL BE PAID UNDER ITEM 107.97 – STRUCTURAL STEEL REPAIRS.

CHESTERFIELD
INDIAN HOLLOW ROAD OVER CHAUNCEY BROOK

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BEARING KEEPER PLATE REPAIR DETAIL

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SHEET 5 OF 7 SHEETS BRIDGE NO. C–12–019 (0GA)

Proposal No. 616282-135582

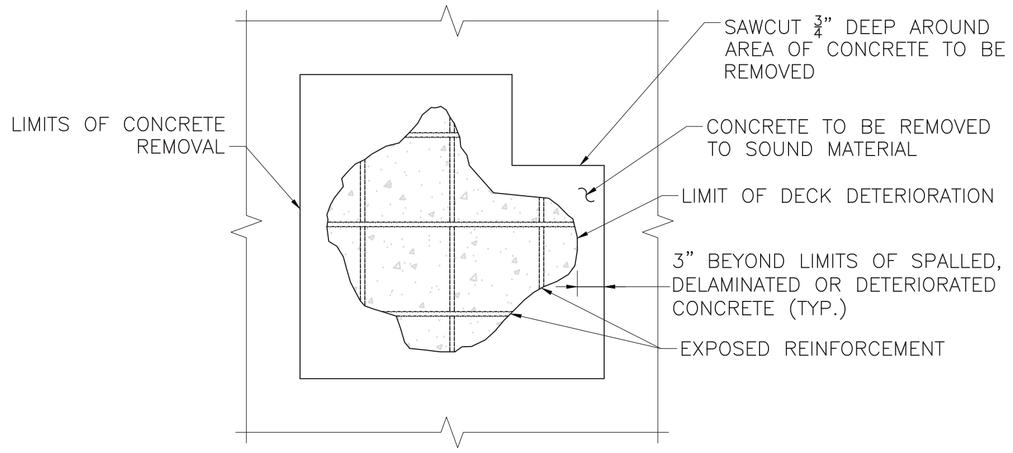
C-12-019 (0GA).DWG Plotted on 11-Jun-2026 11:46 AM

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2ND STRUCTURAL SUBMISSION 11-JUNE-2026

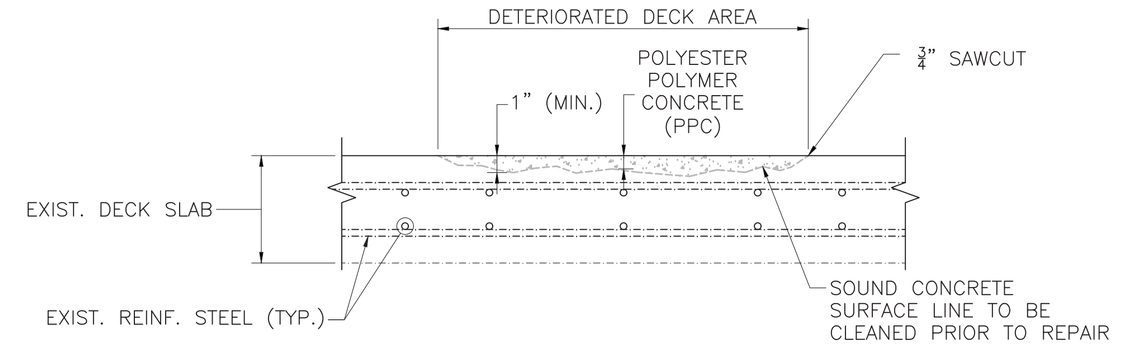
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	6	7
PROJECT FILE NO.	616286		

DECK REPAIRS



LIMITS OF REPAIR AREA

SCALE: 1" = 1'–0"



TYPICAL MINOR SPALL REPAIR

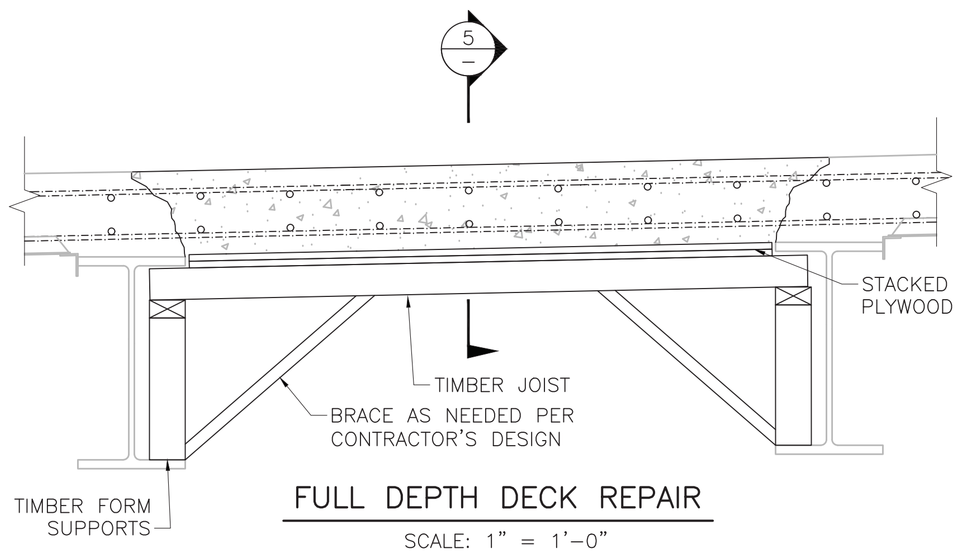
SCALE: 1½" = 1'–0"

NOTE:

1. IF REINFORCING BARS ARE EXPOSED, THEN COMPLETE REPAIR AS A PARTIAL DEPTH REPAIR WITH 1" EXCAVATED BENEATH THE EXPOSED BARS.

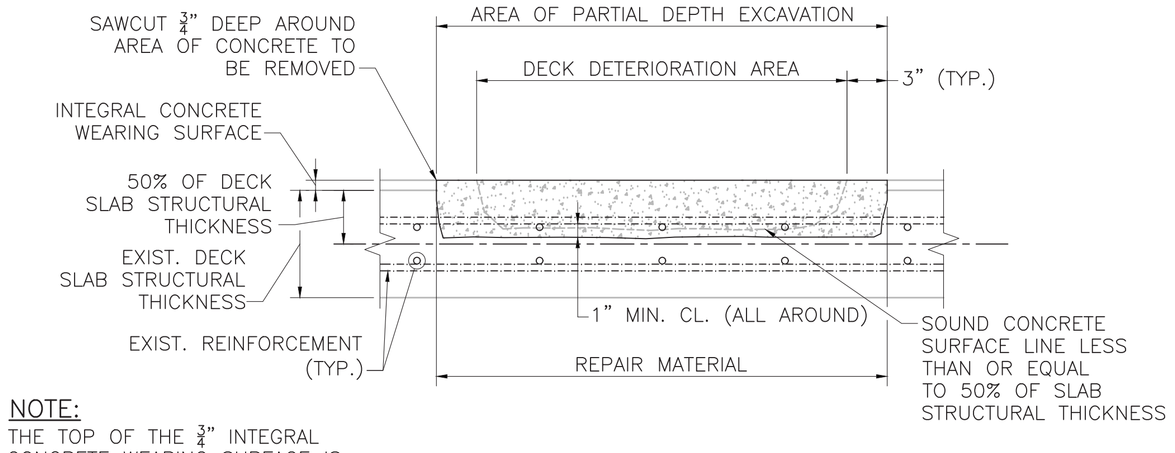
DECK REPAIR NOTES:

1. TOP OF BRIDGE DECK IS COVERED WITH DIRT, GRAVEL, AND DEBRIS. CONTRACTOR SHALL REMOVE LOOSE MATERIAL AS REQUIRED FOR INSPECTION AND REPAIRS.
2. MINOR SPALL REPAIRS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 106.493 – POLYESTER POLYMER CONCRETE FOR TOPSIDE DECK REPAIRS. MATERIALS, SURFACE PREPARATION, AND APPLICATION SHALL CONFORM TO THE STANDARD SPECIFICATIONS. REPAIR LIMITS SHALL BE AS DIRECTED BY THE ENGINEER.
3. FULL–DEPTH AND PARTIAL–DEPTH BRIDGE DECK REPAIRS (WHEN THE BRIDGE IS CLOSED TO TRAFFIC) SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 909.5 – RAPID HARDENING CEMENTITIOUS PRODUCTS FOR REPAIRS. CONCRETE PLACEMENT, FINISHING, AND CURING SHALL CONFORM TO THE STANDARD SPECIFICATIONS.
4. PARTIAL DEPTH REPAIRS SHALL BE PERFORMED WHERE THE DEPTH OF DETERIORATED CONCRETE EXTENDS LESS THAN OR EQUAL TO 50% OF THE THICKNESS OF THE EXISTING CONCRETE DECK. CONCRETE SHALL BE REMOVED TO A MINIMUM OF 1" BELOW THE BOTTOM OF THE TOP MAT OF EXISTING REINFORCING STEEL.
5. FULL DEPTH REPAIRS SHALL BE PERFORMED WHERE THE DEPTH OF DETERIORATED CONCRETE EXTENDS GREATER THAN 50% OF THE THICKNESS OF THE EXISTING CONCRETE DECK.
6. WHEN FULL DEPTH REPAIRS ARE REQUIRED IN THE DECK OVERHANGS, THE LENGTH OF REPAIR ALONG THE STRUCTURE SHOULD BE LIMITED TO 4'–0" LONG SEGMENTS.
7. THE TOP SURFACE OF THE DECK REPAIRS SHALL BE FINISHED FLUSH WITH THE ADJACENT TOP OF DECK SLAB AND SHALL MAINTAIN THE EXISTING GRADES AND CROSS SLOPES.
8. 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 SURFACES THAT WILL BE IN CONTACT WITH REPAIR CONCRETE SHALL BE PRE–WETTED FOR A MINIMUM OF 24 HOURS USING POTABLE WATER IN ORDER TO ACHIEVE A SATURATED SURFACE DRY CONDITION IMMEDIATELY PRIOR TO PLACEMENT OF REPAIR CONCRETE.
9. 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.



FULL DEPTH DECK REPAIR

SCALE: 1" = 1'–0"

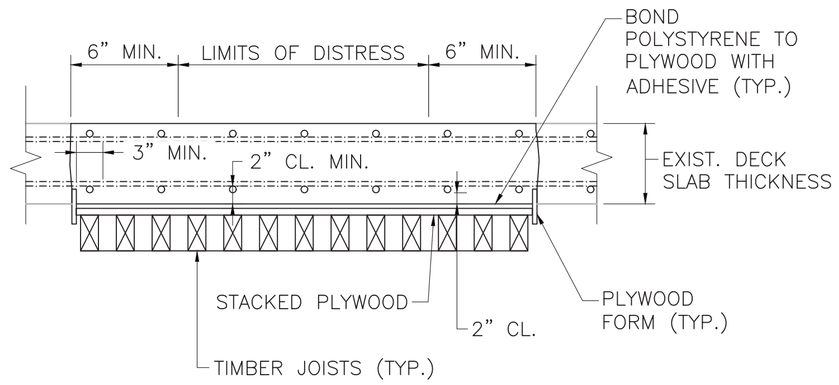


NOTE:

THE TOP OF THE ¾" INTEGRAL CONCRETE WEARING SURFACE IS CONSIDERED NON–STRUCTURAL.

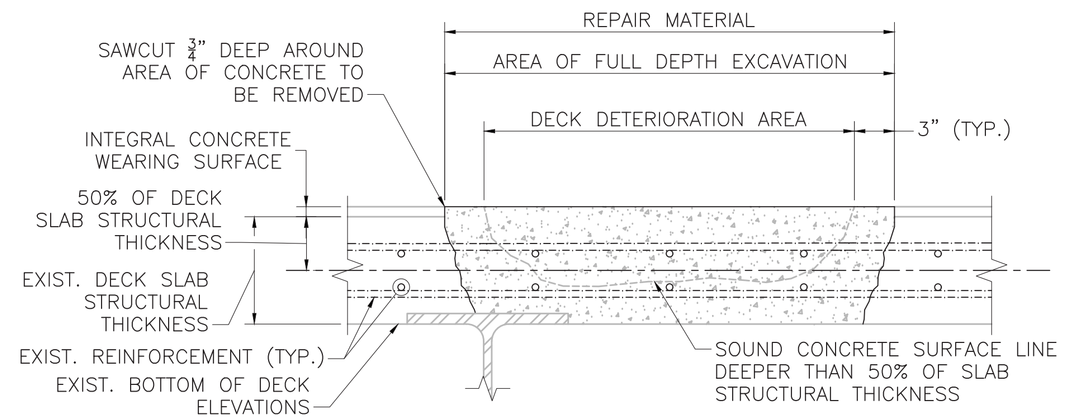
PARTIAL DEPTH DECK REPAIR DETAIL

SCALE: 1½" = 1'–0"



FULL DECK REPAIR SECTION (5 / –)

SCALE: 1" = 1'–0"

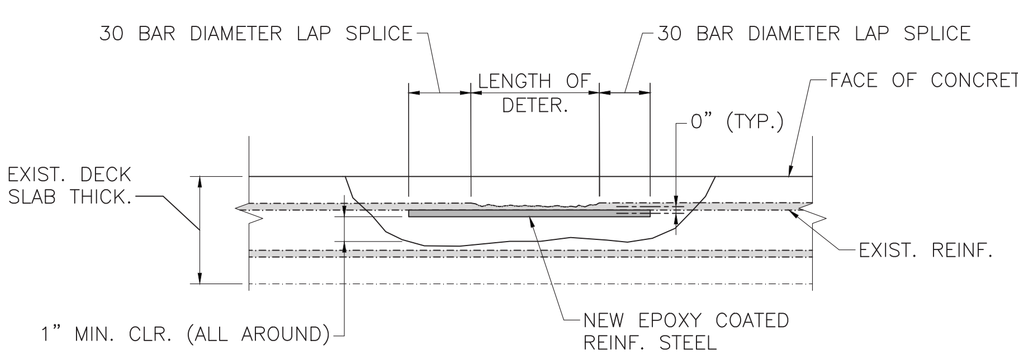


FULL DEPTH DECK REPAIR DETAIL

SCALE: 1½" = 1'–0"

NOTE:

1. DECK FORMS SHALL BE INSTALLED FLUSH WITH EXISTING DECK UNDERSIDE AND SHALL BE REMOVED AFTER CURING IS COMPLETE.
2. THE TOP ¾" OF INTEGRAL CONCRETE WEARING SURFACE IS CONSIDERED NON–STRUCTURAL.



TYPICAL DETERIORATED REINFORCEMENT STEEL REPAIR

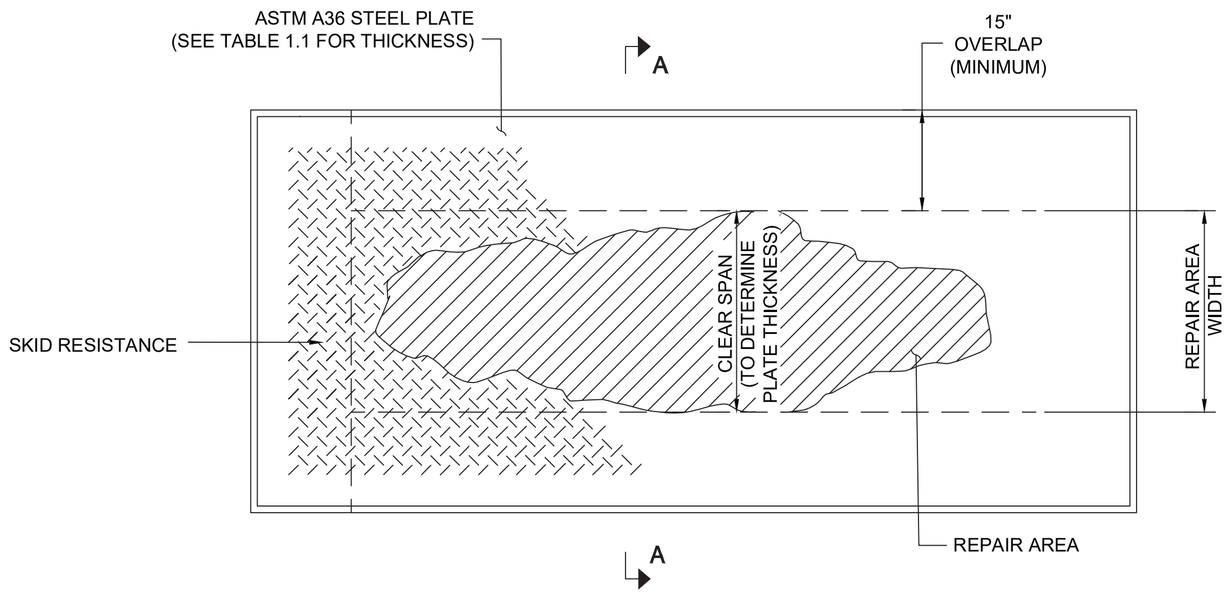
SCALE: 1½" = 1'–0"

JULY 18, 2026	ISSUED FOR CONSTRUCTION
DATE	DESCRIPTION
USE ONLY PRINTS OF LATEST DATE	

Proposal No. 616282-135582
C-12-019 (0GA).DWG Plotted on 11-Jun-2026 11:46 AM
A00803 - 8
2ND STRUCTURAL SUBMISSION 11-JUNE-2026

Proposal No. 616282-135582

TRAFFIC SIGN SUMMARY - BRIDGE C-12-019 (0GA)												
IDENTIFICATION NUMBER	SIZE OF SIGN (INCHES)		LEGEND	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			NUMBER OF SUPPORTS REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACKGROUND	LEGEND	BORDER			
MA-R11-2b	48	30	BRIDGE CLOSED	SEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES			2	WHITE	BLACK	BLACK	Mounted on Type III Barricades	10.00	20.00
MA-R11-3b (1.5 MILES)	60	30	BRIDGE CLOSED 1.5 MILES AHEAD LOCAL TRAFFIC ONLY				1	WHITE	BLACK	BLACK	2	12.50	12.50



PLAN VIEW - EXAMPLE OF STEEL PLATE OVER REPAIR AREA

NOT TO SCALE

DETAIL NOTES:

1. THE CONTRACTOR TO HAVE STEEL PLATE ON HAND SUFFICIENT TO PROVIDE ACCESS TO THE ABUTTER AT ANY POINT DURING CONSTRUCTION. THE CONTRACTOR TO COORDINATE WITH THE ABUTTER AND STAGE WORK TO AVOID CONFLICTS WITH ABUTTER ACCESS. PLATES TO ALWAYS BE AVAILABLE ON SITE FOR EMERGENCY ACCESS AND CONTRACTOR TO PLATE OVER REPAIRS AND ALLOW ACCESS WITHIN 10 MINUTES FOR EMERGENCY ACCESS.
2. SECURE BRIDGING AGAINST DISPLACEMENT.
3. ENSURE THAT ALL STEEL PLATES WITHIN THE RIGHT-OF-WAY, USED IN OR OUT OF THE ROADWAY, ARE WITHOUT DEFORMATION. INSPECTORS CAN DETERMINE THE TRUENESS OF STEEL PLATES BY USING A STRAIGHT EDGE AND SHOULD REJECT ANY PLATE THAT IS PERMANENTLY DEFORMED.
4. USE LOW SPEED INSTALLATION WITHOUT ANCHOR BOLTS. ENSURE STEEL PLATE USED MEETS MATERIAL AND DIMENSIONAL CRITERIA, PROVIDED HEREIN. A SINGLE PLATE IS RECOMMENDED.

TABLE 1.1 - STEEL PLATE THICKNESS	
MAX. CLEAR SPAN OR TRENCH WIDTH	MIN. TOTAL PLATE THICKNESS *
1'-11"	0'-0 3/4"
3'-5"	0'-1"
5'-3"	1 3/4 "

* THE MINIMUM PLATE THICKNESS LISTED IN THIS TABLE IS INTENDED FOR EMERGENCY VEHICLE AND TRUCK ACCESS. ABUTTER ACCESS FOR PASSENGER VEHICLES TO BE PROVIDED USING A 1" PLATE TO SPAN A MAXIMUM OF 5'-3".

LEGEND:

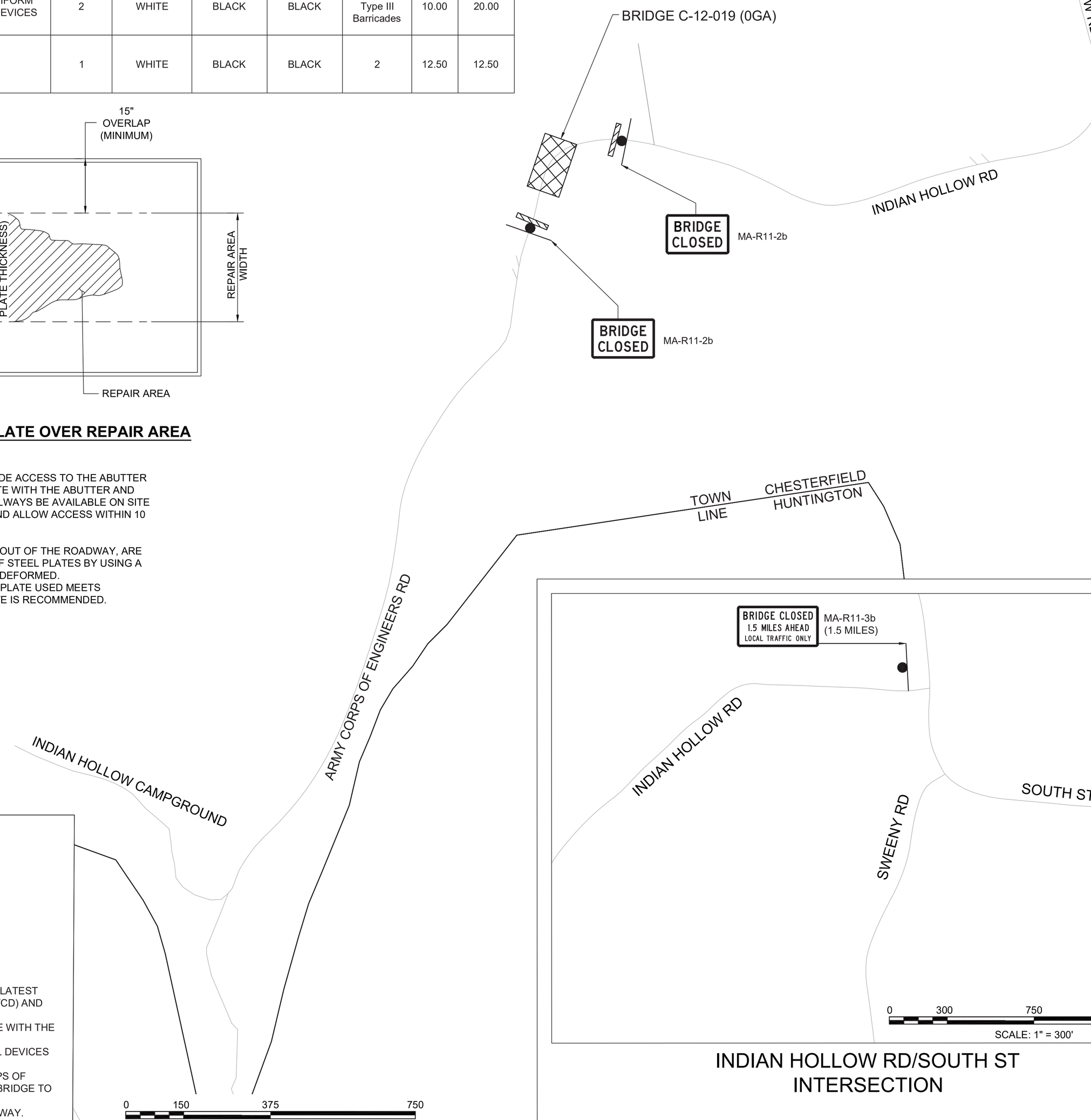
SIGN FACE

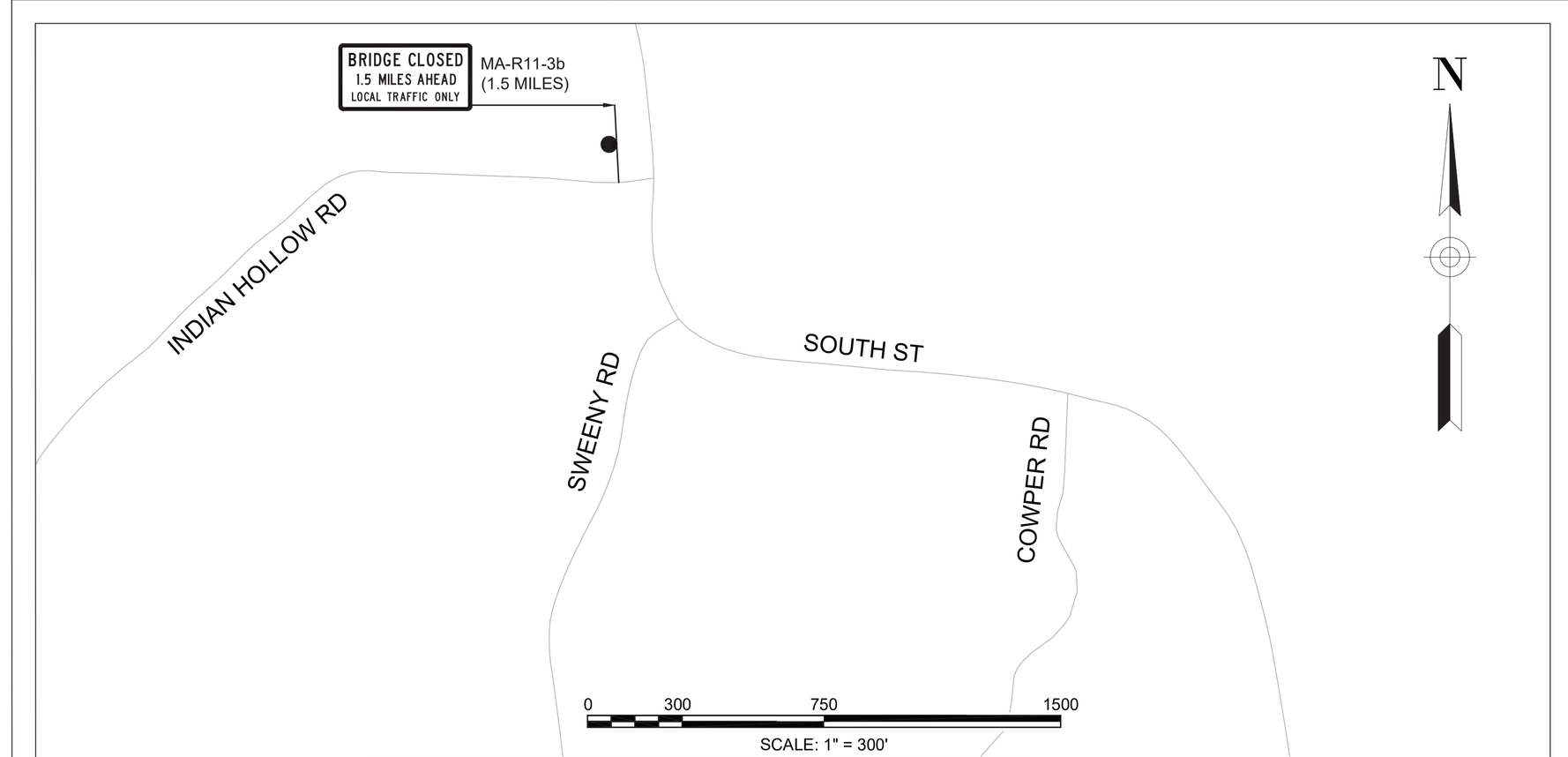
TYPE III BARRICADES

CLOSED BRIDGE

NOTES:

1. ALL THE TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERSEDED BY THESE PLANS.
2. ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
3. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
4. MASSDOT WILL COORDINATE WITH RESIDENTS AND WITH THE ARMY CORPS OF ENGINEERS (ACOE)/ INDIAN HOLLOW CAMPGROUND ON CLOSED SIDE OF BRIDGE TO MAINTAIN ACCESS.
5. TYPE III BARRICADES SHALL BE PLACED ACROSS ENTIRE WIDTH OF ROADWAY.
6. THE CONTRACTOR SHALL REMOVE THE TYPE III BARRICADES FROM ACROSS THE ROAD TO ALLOW THE HOMEOWNER TO CROSS THE BRIDGE.





INDIAN HOLLOW RD/SOUTH ST INTERSECTION

CHESTERFIELD
INDIAN HOLLOW RD OVER CHAUNCEY BROOK

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	7	7
PROJECT FILE NO. 616286			

TEMPORARY ROAD CLOSURE PLAN

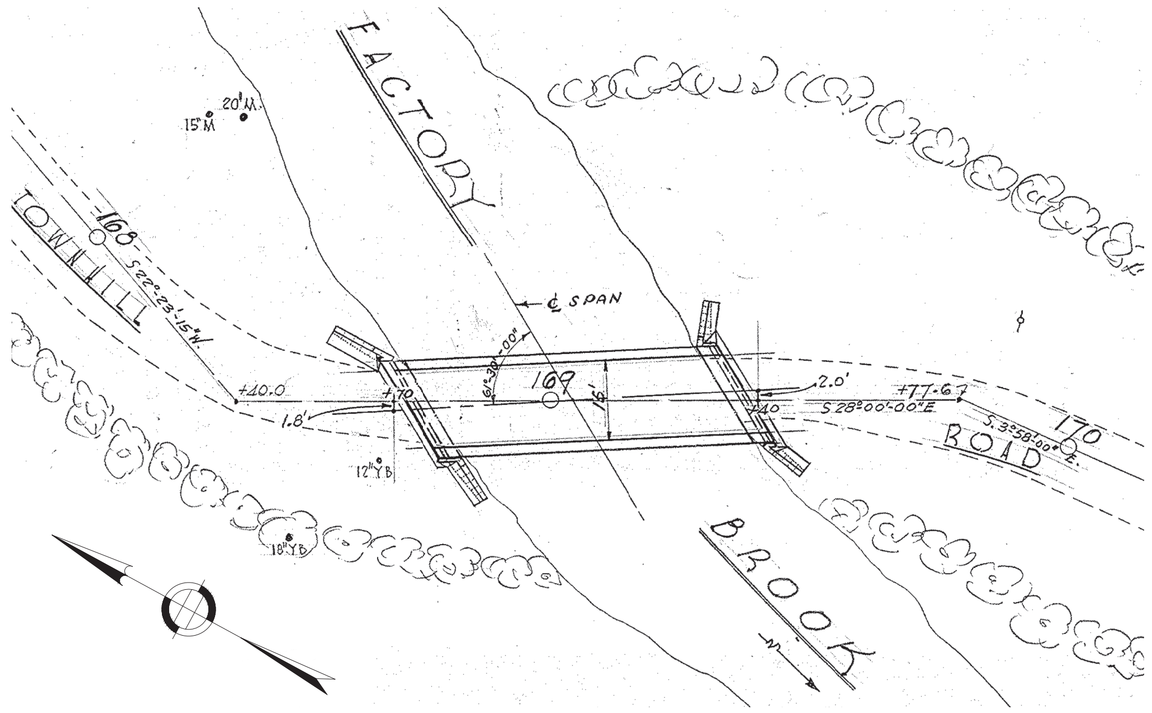
DATE	DESCRIPTION
JULY 18, 2026	ISSUED FOR CONSTRUCTION
USE ONLY PRINTS OF LATEST DATE	

SHEET 7 OF 7 SHEETS BRIDGE NO. C-12-019 (0GA)

115768 C-12-019 CLOSURE.DWG Plotted on 1-Jul-2026 8:43 AM

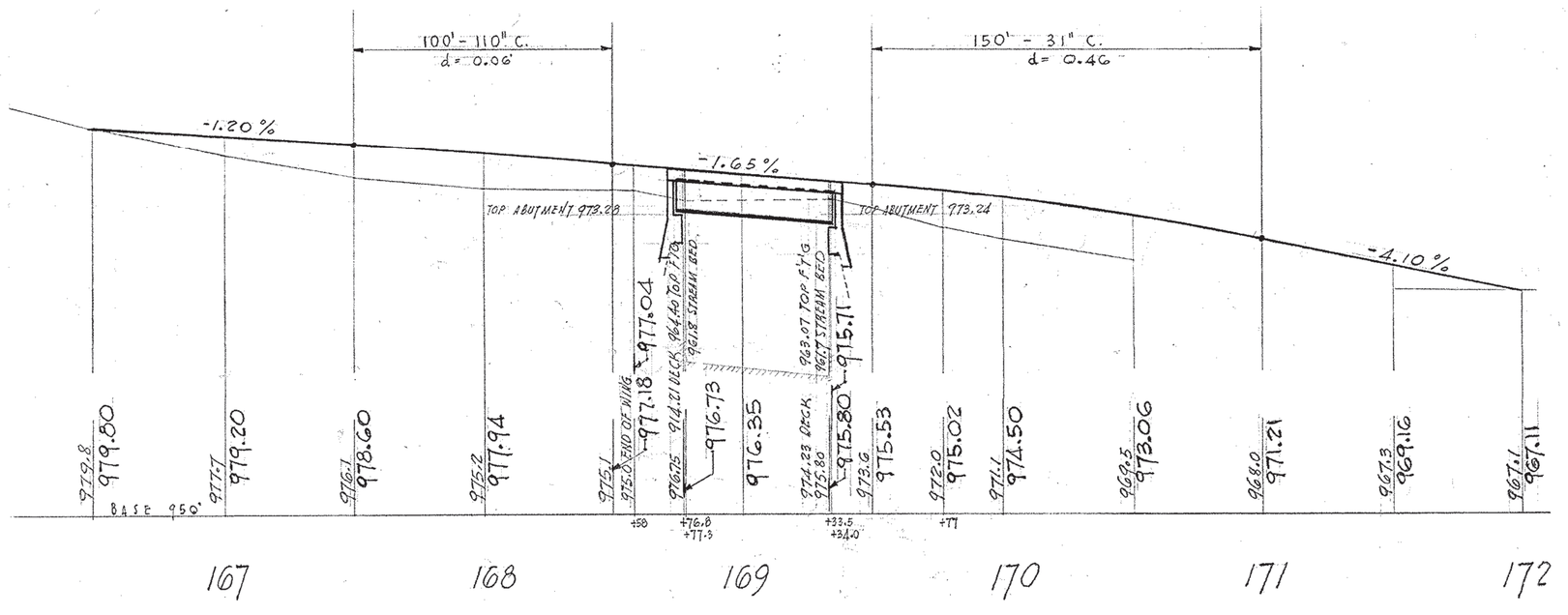
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PS&E SUBMISSION 11-JULY-2026



EXISTING BRIDGE KEY PLAN

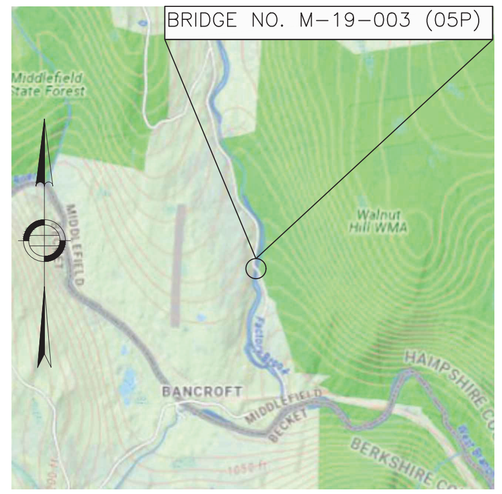
SCALE: 1" = 20'



PROFILE ALONG TOWN HILL ROAD

HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'-0"

ESTIMATED QUANTITIES (NOT GUARANTEED)			
ITEM	DESCRIPTION	QUANTITY	UNITS
106.493	POLYESTER POLYMER CONCRETE FOR TOPSIDE DECK REPAIRS	5	CY
107.97	STRUCTURAL STEEL REPAIRS	1729	LB
127.4	REINFORCED CONCRETE DECK EXCAVATION (FULL DEPTH)	19	SY
226.37	CLEANING BRIDGE SEATS	38	FT
905.2	5000 PSI, $\frac{3}{8}$", 710 HP CEMENT CONCRETE	12	CY
908.11	EXPOSED CONCRETE BRIDGE DECK SEALING	1100	SY
909.3	RAPID SETTING LOW PERMEABILITY CONCRETE	1	CY
910.1	STEEL REINFORCEMENT FOR STRUCUTURES - EPOXY COATED	238	LB
994.1	TEMPORARY PROTECTIVE SHIELDING	520	SF



LOCUS MAP

SCALE: 1" = 2000'

GENERAL NOTES:

1. GENERAL REPAIR DESIGN IN ACCORDANCE WITH THE 17TH EDITION OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES WITH INTERIM SPECIFICATIONS THROUGH 2002. THE BRIDGE WAS ORIGINALLY DESIGNED FOR H15 LOADING AND THE REPAIRS ARE INTENDED TO MEET OR EXCEED THAT DESIGN CAPACITY.
2. ALL WORK SCHEDULES, WILL BE PRE-APPROVED BY THE DEPARTMENT PRIOR TO BEGINNING WORK. WORK NECESSARY OUTSIDE OF NORMAL WORK HOURS BECAUSE OF TRAFFIC CONDITIONS, AS NOTED IN THE PLANS OR SPECIFICATIONS, WILL BE SUBMITTED TO MASSDOT FOR APPROVAL. ALL WORK PERFORMED WILL BE IN CONFORMANCE WITH THE MASSDOT NOISE ORDINANCES.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RELEVANT SECTIONS OF THE CURRENT MASSDOT "STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES", INCLUDING CURRENT SUPPLEMENTALS.
4. THESE DRAWINGS WERE FORMATTED FOR 24"x36" PLAN SHEETS. SCALES NOTED ON THE DRAWINGS ARE NOT APPLICABLE TO REDUCED SIZE PRINTS.
5. EXISTING STRUCTURE DIMENSIONS AND DETAILS ARE ACCORDING TO ORIGINAL CONSTRUCTION DRAWINGS, OBSERVATION, AND FIELD MEASUREMENTS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE AND ESTABLISH ALL DIMENSIONS AND EXISTING DETAILS NECESSARY FOR COMPLETION OF ALL WORK BY FIELD MEASUREMENT (I.E. BEARING LOCATIONS, EXISTING REPAIRS, ETC.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY AND ACCURACY THEREOF, AND SHALL NOT ORDER ANY MATERIAL OR COMMENCE ANY FABRICATION UNTIL THEY HAVE MADE THE REQUIRED MEASUREMENTS ON THE ACTUAL STRUCTURE AND THE EXTENT OF THE PROPOSED WORK HAS BEEN APPROVED BY THE ENGINEER.
6. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY NOT TO DAMAGE UTILITIES, EQUIPMENT, STRUCTURES, OR THOSE PORTIONS OF THE SUPERSTRUCTURE THAT ARE TO REMAIN IN PLACE, THAT ARE TO BE REUSED, OR THAT ARE TO REMAIN THE PROPERTY OF OTHERS. ANY PORTION OF THE SUPERSTRUCTURE AND SUBSTRUCTURE TO REMAIN WHICH BECOMES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR SHALL ASSUME ALL EXISTING COATINGS CONTAIN LEAD UNLESS OTHERWISE DETERMINED BY TESTING. ALL DEBRIS CREATED BY OPERATIONS SHALL BE PROPERLY CONTAINED AND DISPOSED OF.
8. TEMPORARY SHIELDING WILL BE PROVIDED TO PROTECT THE BROOK BENEATH THE BRIDGE FROM FALLING OR FLYING DEBRIS OR ANY TOOLS OR INCIDENTAL EQUIPMENT DURING ALL ACTIVITIES, INCLUDING STEEL REPAIR PLATE INSTALLATION, PREPARATION, CLEANING & PAINTING, ETC.
9. ALL STRUCTURAL STEEL PLATES AND ANGLES SHALL CONFORM TO AASHTO M270 AND/OR DUAL CERTIFIED WITH ASTM A709, GRADE 36 OR 50 DESIGNATION. CHARPY V-NOTCH TESTING IS REQUIRED FOR MAIN MEMBER REPAIR, ACCORDING TO MASSDOT STANDARD SPECIFICATIONS. ALL NEW STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 111.
10. ALL BOLTS AND RELATED HARDWARE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M164 (ASTM F3125 GRADE A325). ALL NEW BOLTS SHALL BE $\frac{7}{8}$"ø HIGH STRENGTH BOLTS IN $\frac{15}{16}$"ø HOLES, WITH MINIMUM $1\frac{1}{2}$" EDGE DISTANCE AND 3" CENTER TO CENTER MINIMUM SPACING UNLESS NOTED OTHERWISE. ALL BOLT SIZES AND BOLT TYPES TO BE USED SHALL BE LABELED ON SHOP DRAWINGS. NEW BOLTS AND NUTS SHALL BE GALVANIZED.
11. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31 GRADE 60 EPOXY COATED.
12. PRIOR TO THE INSTALLATION OF ANY NEW STEEL, AREAS OF EXISTING STEEL THAT ARE TO RECEIVE NEW STEEL SHALL BE THOROUGHLY CLEANED OF ALL PAINT, RUST, SCALE, OIL, GREASE, AND OTHER DELETERIOUS MATERIAL IN ACCORDANCE WITH SSPC-SP 1 OR SSPC-SP 3, AS APPLICABLE. CLEANED SURFACES SHALL BE PREPARED TO A POWER TOOL CLEANED CONDITION (SSPC-SP 3) WHERE REQUIRED AND SHALL RECEIVE A PRIME COAT OF PAINT IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS PRIOR TO INSTALLATION OF NEW STEEL.
13. NO REPAIRS SHALL COMMENCE UNTIL ALL MATERIALS (EXCLUDING CONCRETE) ARE ON HAND FOR THE REPAIR. THIS INCLUDES TRANSFER OF EXISTING HOLE LOCATIONS TO NEW STEEL AND COMPLETION OF SUB DRILLED/PUNCHED HOLES.
14. ALL HOLES IN THE NEW STEEL SHALL BE SUB DRILLED (OR SUB PUNCHED) TO $\frac{11}{16}$"ø AND REAMED FULL SIZE WITH ALL PLIES OF THE CONNECTION OR REPAIR IN PLACE.
15. FIELD DRILLING OF NEW HOLES IN THE EXISTING AND NEW STEEL, FOR INSTALLATION OF HIGH STRENGTH BOLTS, SHALL BE DRILLED 1/16" LARGER THAN THE BOLT DIAMETER. BURNING OR PUNCHING OF HOLES WILL NOT BE ALLOWED.
16. EPOXY COMPOUND FOR STRUCTURAL STEEL REPAIRS SHALL BE A SOLVENT FREE, MOISTURE TOLERANT, EPOXY PASTE ADHESIVE SYSTEM. THE EPOXY PASTE SHALL BE DEVELOPED SPECIFICALLY FOR FILLING, SMOOTHING, SEALING, OR FAIRING APPLICATIONS ON METALS. THE PASTE SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S LATEST WRITTEN INSTRUCTIONS.
17. CLEARING AND GRUBBING ITEM 101. PAY LIMITS SHALL NOT EXCEED 0.15 ACRE PER STRUCTURE UNLESS OTHERWISE DIRECTED BY THE ENGINEER AND ALL CLEARING AND GRUBBING REQUIRED BEYOND THESE LIMITS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND SHALL NOT BE PAID FOR SEPARATELY.

MIDDLEFIELD
TOWN HILL ROAD OVER FACTORY BROOK

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	1	8
PROJECT FILE NO.	616286		

GENERAL NOTES, LOCUS, PROFILE, AND INDEX

INDEX OF SHEETS

1. GENERAL NOTES, LOCUS, PROFILE, AND INDEX
2. FRAMING PLAN & TYPICAL CROSS SECTION
3. GENERAL PLAN
4. STEEL BEAM REPAIR DETAILS (1 OF 2)
5. STEEL BEAM REPAIR DETAILS (2 OF 2)
6. DECK REPAIRS
7. DETOUR PLAN
8. SIGN SHEET

JULY 18, 2026 | ISSUED FOR CONSTRUCTION

MassDOT Massachusetts Department of Transportation Highway Division

PROPOSED BRIDGE PRESERVATION

DISTRICT 1 - MULTIPLE LOCATIONS

TOWN HILL ROAD
OVER FACTORY BROOK

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION
10 PARK PLAZA BOSTON, MASS

H&H
ONE WASHINGTON MALL
SUITE 1602
BOSTON, MA 02108
(617) 268-2017

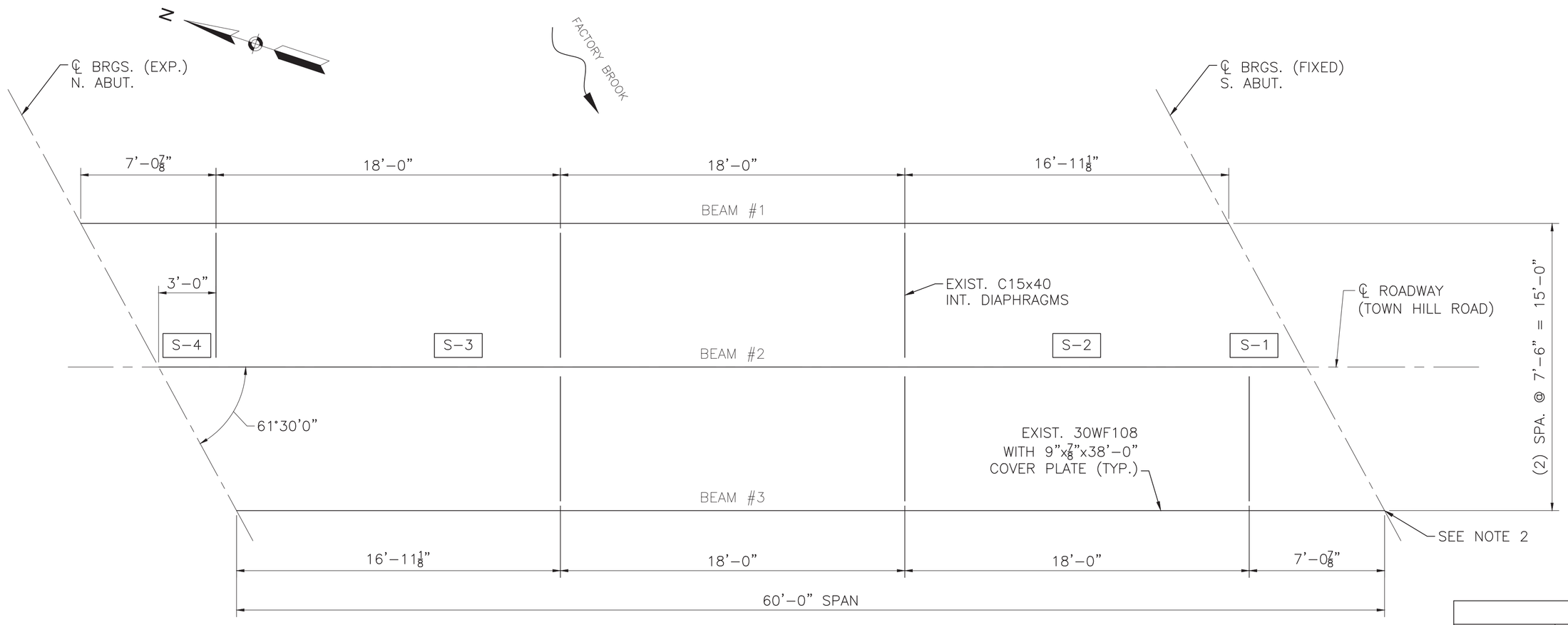
SHEET 1 OF 8 SHEETS BRIDGE NO. M-19-003 (05P)

Proposal No. 616282-135582
M-19-003 (05P).DWG Plotted on 11-Jun-2026 4:40 PM
A00803 - 10
PS&E SUBMISSION 11-JUNE-2026

MIDDLEFIELD
TOWN HILL ROAD OVER FACTORY BROOK

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	2	8
PROJECT FILE NO.	616286		

FRAMING PLAN & TYPICAL CROSS SECTION



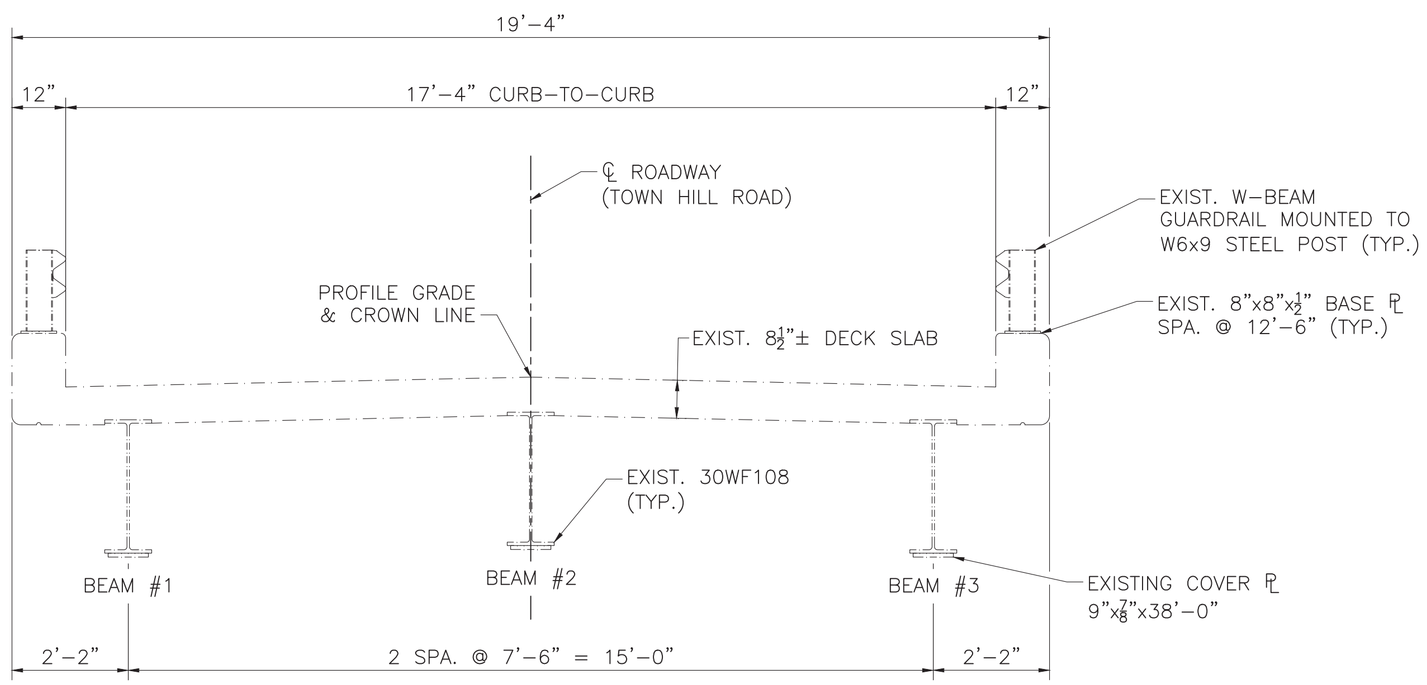
NOTES:

1. THIS STRUCTURE DOES NOT CONTAIN END DIAPHRAGMS.
2. AT THE LOCATION SHOWN, TIGHTEN THE BACKED–OFF ANCHOR BOLT NUT. THIS WORK SHALL BE INCIDENTAL TO ITEM 107.97 – STRUCTURAL STEEL REPAIRS

FRAMING PLAN
SCALE: ¼" = 1'–0"

SUPERSTRUCTURE - SCHEDULE OF REPAIRS (STEEL REPAIRS)

REPAIR NO.	BEAM NO.	LOCATION	BEAM SIZE	SHORING REQUIRED	JACKING REQUIRED	REPAIR LENGTH (IN.)	REPAIR HEIGHT (IN.)	NOTES
S–1	B2	S. ABUTMENT	30WF108	NO	NO	38	VARIES	SEE SHEET 4 FOR DETAILS
S–2	B2	MIDSPAN	30WF108	NO	NO	55	VARIES	SEE SHEET 4 FOR DETAILS
S–3	B2	MIDSPAN	30WF108	NO	NO	50	VARIES	SEE SHEET 5 FOR DETAILS
S–4	B2	N. ABUTMENT	30WF108	NO	NO	28	VARIES	SEE SHEET 5 FOR DETAILS



EXISTING TYPICAL CROSS–SECTION
SCALE: ½" = 1'–0"

DATE	DESCRIPTION
JULY 18, 2026	ISSUED FOR CONSTRUCTION
	USE ONLY PRINTS OF LATEST DATE

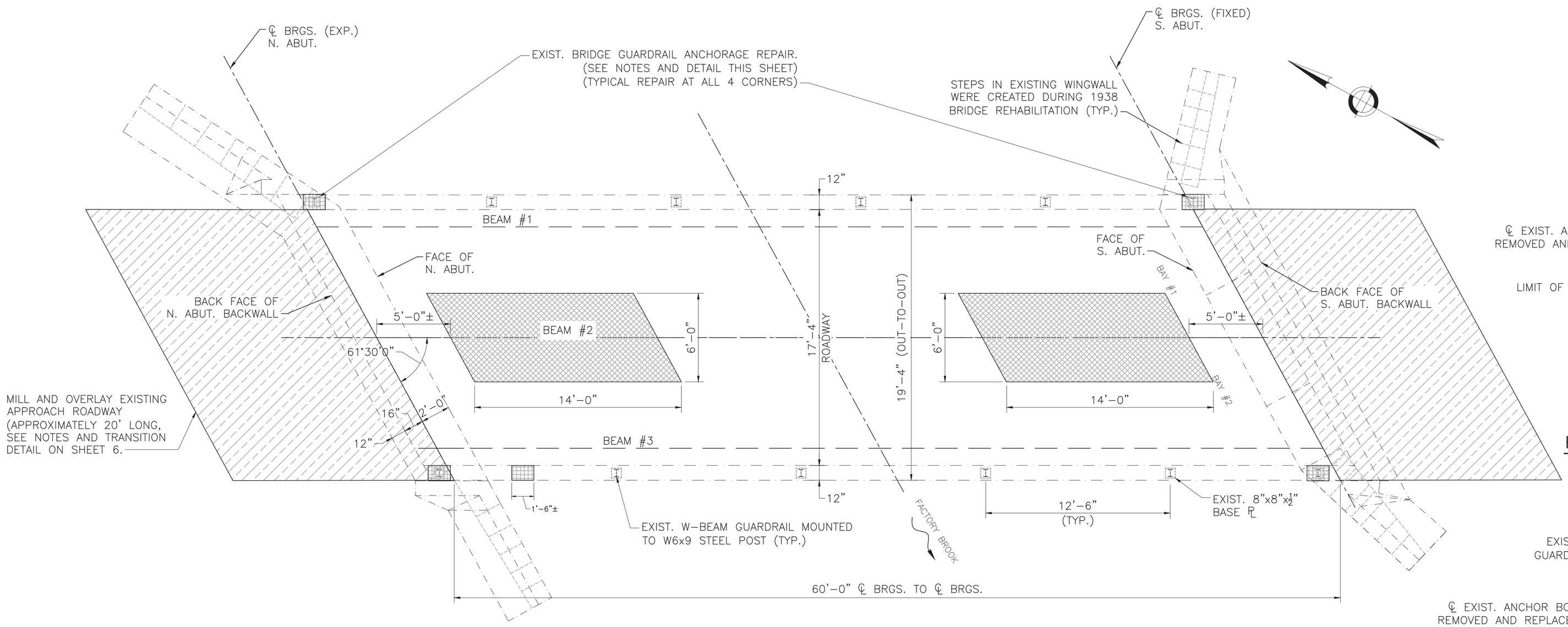
Proposal No. 616282-135582
M-19-003 (05P).DWG Plotted on 11-Jun-2026 4:41 PM
A00803 - 11
FS&E SUBMISSION 11-JUNE-2026

Proposal No. 616282-135582

MIDDLEFIELD
TOWN HILL ROAD OVER FACTORY BROOK

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	3	8
PROJECT FILE NO.	616286		

GENERAL PLAN

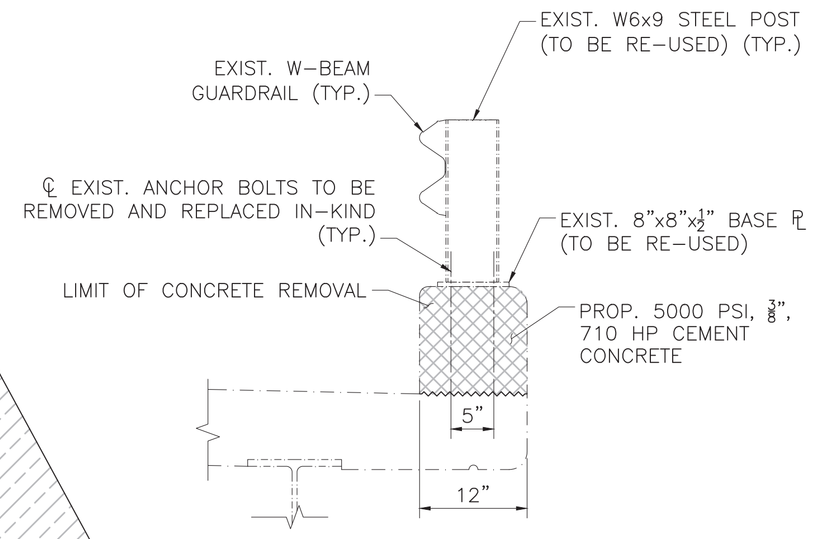


GENERAL PLAN

SCALE: $\frac{1}{4}$" = 1'-0"

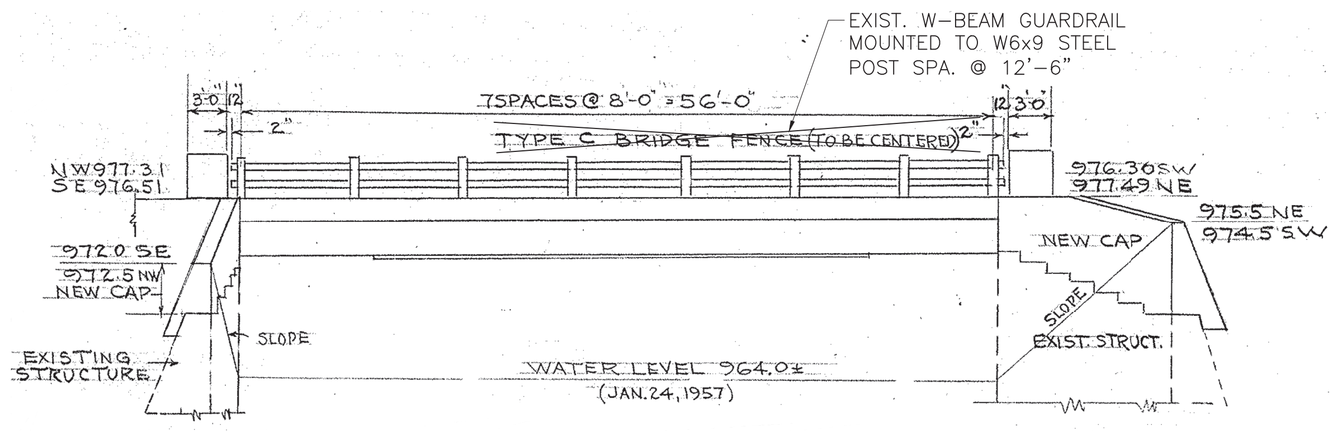
LEGEND:

- ANTICIPATED LIMITS OF FULL DEPTH DECK REPAIR
- ANTICIPATED LIMITS OF CURB REPAIR (APPROXIMATE)
- MILL AND OVERLAY APPROACH PAVEMENT



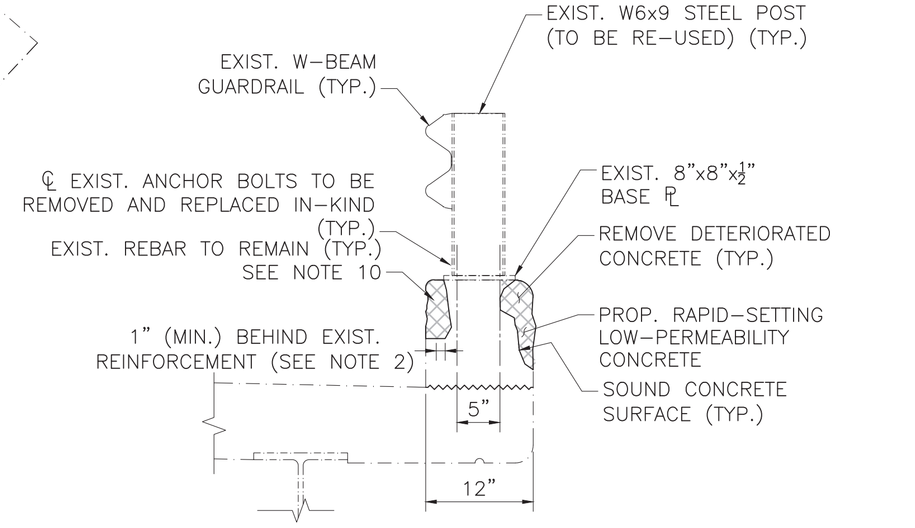
RAIL ANCHORAGE REPAIR DETAIL

SCALE: 1" = 1'-0"



WEST ELEVATION

SCALE: $\frac{1}{8}$" = 1'-0"



TYPICAL CURB REPAIRS

SCALE: 1" = 1'-0"

NOTE:

1. AT THE TIME OF INSPECTION, THE BRIDGE CURBS WERE SNOW COVERED. INDICATED REPAIR LIMITS ARE APPROXIMATE AND REPRESENT GENERAL AREAS WHERE REPAIRS ARE ANTICIPATED. CONTRACTOR SHALL VERIFY ACTUAL LIMITS IN THE FIELD, AND THE CONSTRUCTION ENGINEER SHALL CONFIRM FIELD CONDITIONS PRIOR TO EXECUTION OF WORK. ALL REPAIR AREAS SHALL BE PREPARED IN ACCORDANCE WITH MASSDOT STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. THE CURB WAS REPLACED SUBSEQUENT TO THE ORIGINAL CONSTRUCTION, AND NO RECORD INFORMATION IS AVAILABLE FOR THE EXISTING REINFORCEMENT LAYOUT. THE CONTRACTOR SHALL FIELD VERIFY REINFORCEMENT LOCATION AND CONFIGURATION PRIOR TO PERFORMING WORK. ANY DAMAGE TO EXISTING REINFORCEMENT SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER, AT NO ADDITIONAL COST.

DECK REPAIR NOTES:

1. SEE SHEET 6 FOR FULL-DEPTH DECK REPAIR DETAILS AND ADDITIONAL REQUIREMENTS.
2. TYPICAL PROPOSED GUARDRAIL SHALL BE INSTALLED IN ACCORDANCE WITH MASSDOT STANDARD SPECIFICATIONS AND STANDARD DETAILS (LATEST EDITION).
3. DAMAGED NORTHWEST APPROACH GUARDRAIL SHALL BE REPLACED IN-KIND. CONTRACTOR TO VERIFY LIMITS PRIOR TO BIDDING.
4. WIRE ROPES IN NORTHEAST TRANSITION ARE MISSING AND SHALL BE REPLACED TO MATCH EXISTING SYSTEM. FINAL EXTENT TO BE VERIFIED IN FIELD PRIOR TO INSTALLATION. PAID FOR UNDER ITEM 107.97.
5. DECK SURFACE SHALL BE SEALED WITH TWO COATS OF METHACRYLATE IN ACCORDANCE WITH MASSDOT STANDARD SPECIFICATIONS AND THE CONTRACT SPECIAL PROVISIONS. SURFACE PREPARATION, APPLICATION, AND CURING SHALL FOLLOW THE MANUFACTURER'S RECOMMENDATIONS

BRIDGE RAIL BASEPLATE ANCHORS AND CURB REPAIR NOTES:

1. REMOVE CONCRETE CURB AS REQUIRED TO REMOVE EXISTING ANCHOR BOLTS. REMOVE ALL ADJACENT LOOSE OR DETERIORATED CONCRETE.
2. INSTALL ANCHOR BOLTS, CAST INTO NEW CONCRETE PRIOR TO PLACEMENT OF BASEPLATES. LOCATE AND ALIGN ANCHORS TO MATCH EXISTING FIELD CONDITIONS.
3. RECONSTRUCT CURB TO MATCH EXISTING LINE, GRADE, AND CROSS SLOPE. PATCH DISTURBED AREAS.
4. PLACE BASEPLATES OVER EMBEDDED ANCHORS. INSTALL WASHERS AND HEX NUTS AFTER CONCRETE REACHES DESIGN STRENGTH AND SEAL EXPOSED PERIMETERS WITH AN ELASTOMERIC SEALANT IN ACCORDANCE WITH MASSDOT STANDARD SPECIFICATIONS TO PREVENT MOISTURE INTRUSION.
5. REMOVE ALL DIRT, DEBRIS, LOOSE MATERIAL, AND UNSOUND CONCRETE FROM CURB SURFACES WITHIN REPAIR LIMITS.
6. PREPARE ALL CONCRETE REPAIR SURFACES BY MECHANICAL MEANS TO SOUND, CLEAN CONCRETE. PROVIDE A ROUGHENED SURFACE WITH A MINIMUM 1/4 IN. AMPLITUDE.
7. ALL EXISTING REINFORCING STEEL TO REMAIN SHALL BE ABRASIVELY BLAST CLEANED TO REMOVE RUST, OIL, AND LOOSE SCALE.
8. CLEAN ALL PREPARED SURFACES WITH COMPRESSED AIR TO REMOVE DUST AND LOOSE PARTICLES PRIOR TO PLACEMENT OF REPAIR MATERIAL.
9. ALL EXISTING CONCRETE SURFACES TO RECEIVE REPAIR MATERIAL SHALL BE PRE-WETTED FOR A MINIMUM OF 24 HOURS AND BROUGHT TO A SATURATED SURFACE DRY (SSD) CONDITION IMMEDIATELY PRIOR TO PLACEMENT.
10. 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.
11. SURFACE PREPARATION, CLEANING, AND CONDITIONING SHALL CONFORM TO THE MASSDOT STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

DATE	DESCRIPTION
JULY 18, 2026	ISSUED FOR CONSTRUCTION
USE ONLY PRINTS OF LATEST DATE	

M-19-003 (05P).DWG Plotted on 11-Jun-2026 4:41 PM
A00803 - 12
PS&E SUBMISSION 11-JUNE-2026

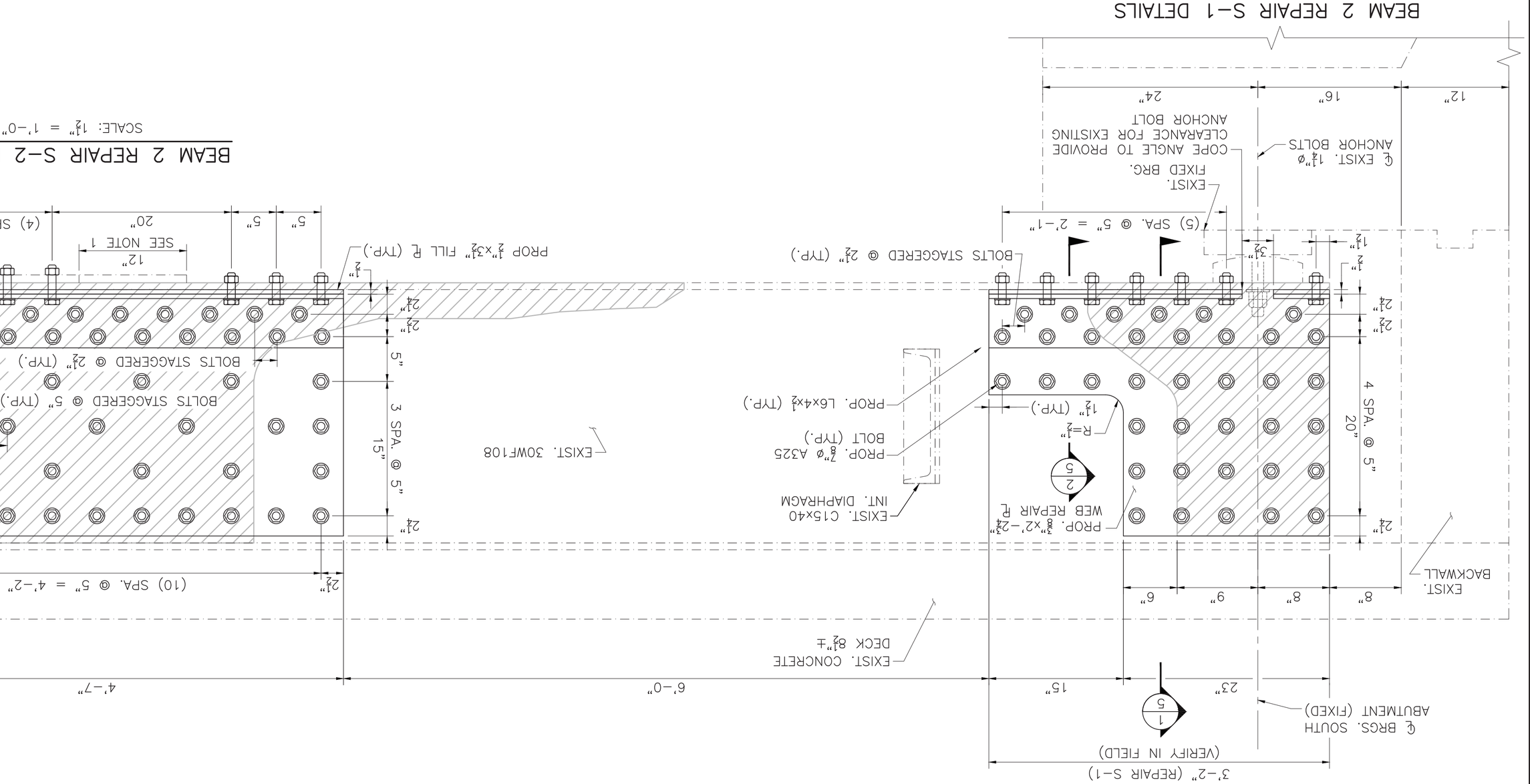
Proposal No. 616282-135582

STEEL REPAIR NOTES:

1. CLEAN THE CONTACT SURFACES OF EXISTING STEEL IN ACCORDANCE WITH SPECIAL PROVISIONS. THE CONTACT SURFACES SHALL BE FREE OF PAINT, OIL, AND GREASE.
2. STEEL IS TO BE PRIMED AFTER CLEANING AND PRIOR TO INSTALLATION OF ANY REPAIR MEMBERS. SEE GENERAL NOTES.
3. ENGINEER TO INSPECT CLEANED REPAIR AREA AND VERIFY REPAIR LIMITS BASED ON CONDITIONS EXPOSED BY CLEANING.
4. THE BEAM SHALL BE INSPECTED FOR DAMAGE DUE TO CONTRACTOR OPERATIONS. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTORS' EXPENSE.
5. CONTRACTOR TO SURVEY BEAM #2 PRIOR TO FABRICATION OF THE ANGLES AND SHIM PLATES TO ENSURE CORRECT FIT UP IN THE FINAL CONDITION. NO ADDITIONAL COMPENSATION WILL BE GIVEN FOR DISCREPANCIES FOUND DURING FIT UP FOR ELEMENTS SUCH AS CAMBER AND DIMENSIONAL DIFFERENCES FROM THE FIELD CONDITIONS
6. THE CONTRACTOR SHALL INSTALL FLANGE BOLTS AND CLAMP AREAS WHERE FLANGE BOLTS ARE NOT REQUIRED PRIOR TO DRILLING HOLES FOR WEB BOLTS.
7. FIELD DRILL HOLES IN BEAM WEB TO MATCH HOLE PATTERN IN FABRICATED ANGLE CONNECTION AND WEB REPAIR PLATES.
8. IN LOCATIONS WHERE HEAVY DETERIORATION HAS OCCURRED OR AS DIRECTED BY THE ENGINEER, EPOXY REPAIR FAIRING COMPOUND SHALL BE APPLIED OVER THE PRIME COAT AS FOLLOWS:
   A. THE EPOXY REPAIR COMPOUND SHALL BE APPLIED TO THE DETERIORATED AREAS (WEB & FLANGE WHERE NEW PLATES ARE TO BE INSTALLED) IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL THE METHODS, PROCEDURES, AND MATERIALS TO BE USED FOR THE WORK.
   B. THE REPAIR COMPOUND SHALL ONLY BE APPLIED TO THOSE AREAS OF THE EXISTING STEEL THAT EXHIBIT SEVERE SECTION LOSS TO COMPLETELY FILL THE IRREGULARITIES IN THE EXISTING STEEL SURFACES SUCH THAT NO VOIDS REMAIN BETWEEN THE PLIES OF THE EXISTING STEEL AND THE PROPOSED STRENGTHENING STEEL IN THE FINAL REPAIRED CONDITION.
   C. THE PROPOSED REPAIR STEEL SHALL BE PROPERLY POSITIONED AND BROUGHT INTO FIRM CONTACT WITHIN THE WORKING TIME LIMITS OF THE EPOXY REPAIR COMPOUND. THE REPAIR STEEL SHALL BE SECURED IN PLACE USING POSITIONING BOLTS TENSIONED TO A SNUG TIGHT CONDITION AND CLAMPS OR OTHER MECHANICAL MEANS TO BRING THE PLIES OF THE EXISTING STEEL AND NEW STEEL INTO FIRM CONTACT. WELDING IS NOT ALLOWED.
   D. ONCE THE PROPOSED STEEL HAS BEEN SECURED INTO POSITION WITH THE POSITIONING BOLTS, AND THE EPOXY COMPOUND HAS CURED, THE REMAINING H.S. BOLTS SHALL BE INSTALLED FOLLOWING THE PROCEDURE OUTLINED IN THE GENERAL NOTES.
   E. EPOXY COMPOUND FOR STRUCTURAL STEEL REPAIRS SHALL BE A SOLVENT FREE, MOISTURE TOLERANT, EPOXY PASTE ADHESIVE SYSTEM. THE EPOXY PASTE SHALL BE DEVELOPED SPECIFICALLY FOR FILLING, SMOOTHING, SEALING, OR FAIRING APPLICATIONS ON METALS. THE PASTE SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S LATEST WRITTEN INSTRUCTIONS. AN ACCEPTABLE PRODUCT SHALL BE ONE OF THE FOLLOWING OR AN APPROVED EQUAL: TW PHILADELPHIA RESINS REPAIR COMPOUND MANUFACTURED BY: ITW PHILADELPHIA RESINS, SIKADUR 31, HI-MOD GEL MANUFACTURED BY: SIKA CORPORATION, DEVCON PLASTIC STEEL PUTTY (A) MANUFACTURED BY: ITW DEVCON, FX-738 METAL FILLED EPOXY MANUFACTURED BY: SIMPSON STRONG TIE.
9. REPAIR STEEL ELEMENTS SHALL BE FIELD BOLTED TO EXISTING STEEL MEMBERS USING HIGH-STRENGTH BOLTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. SEE GENERAL NOTES FOR SURFACE PREPARATION AND COATING REQUIREMENTS.
10. ALL STRUCTURAL STEEL PLATES AND ANGLES SHALL CONFORM TO AASHTO M270 AND/OR DUAL CERTIFIED WITH ASTM A709, GRADE 36 OR 50 DESIGNATION. CHARPY V-NOTCH TESTING IS REQUIRED FOR MAIN MEMBER REPAIR, ACCORDING TO MASSDOT STANDARD SPECIFICATIONS.
11. IN THE CASE THAT ANY STEEL REPAIR ANGLE INTERFERES WITH THE EXISTING ANCHOR BOLT, A LEG OF THE ANGLE CAN BE COPED TO PROVIDE CLEARANCE AROUND THE EXISTING ANCHOR BOLT.
12. ALL STEEL REPAIR PLATES AND ANGLES SHALL BE GALVANIZED. SEE GENERAL NOTES.
13. SEAL PERIMETER OF ALL STEEL WITH SILICONE CAULK.
14. FOR ADDITIONAL NOTES, SEE BRIDGE GENERAL NOTES.

BEAM 2 REPAIR S-1 DETAILS

SCALE: 1½" = 1'-0"



BEAM 2 REPAIR S-2 DETAILS

SCALE: 1½" = 1'-0"

NOTE:

1. CONTRACTOR SHALL AVOID PUTTING BOLTS IN THIS REGION WHERE THE COVER PL TAPERS FROM 9" TO 4" WIDE

LEGEND:

APPROXIMATE AREA OF SECTION LOSS

NEW H.S. BOLT IN NEW HOLE

DATE	DESCRIPTION
JULY 18, 2026	ISSUED FOR CONSTRUCTION

USE ONLY PRINTS OF LATEST DATE

SHEET 4 OF 8 SHEETS BRIDGE NO. M-19-003 (05P)

PS&E SUBMISSION 11-JUNE-2026

M-19-003 (05P).DWG Plotted on 11-Jun-2026 4:41 PM

MIDDLEFIELD
TOWN HILL ROAD OVER FACTORY BROOK

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	4	8
PROJECT FILE NO. 616286			

STEEL BEAM REPAIR DETAILS (1 OF 2)

DATE	DESCRIPTION
JULY 18, 2026	ISSUED FOR CONSTRUCTION

USE ONLY PRINTS OF LATEST DATE

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LEGEND:

APPROXIMATE AREA OF SECTION LOSS

NEW H.S. BOLT IN NEW HOLE

SECTION (3) SCALE: 1½" = 1'-0"

SECTION (2) SCALE: 1½" = 1'-0"

SECTION (1) SCALE: 1½" = 1'-0"

NOTES:

1. GRIND HEEL OF ANGLE OR END OF PLATE AS NECESSARY TO CLEAR FILLETS OF EXISTING MEMBERS.
2. SEE SHEET 4 FOR STEEL REPAIR NOTES.

NOTE:

1. CONTRACTOR SHALL AVOID PUTTING BOLTS IN THIS REGION WHERE THE COVER PL TAPERS FROM 9" TO 4" WIDE

BEAM 2 REPAIR S-3 DETAILS
SCALE: 1½" = 1'-0"

BEAM 2 REPAIR S-4 DETAILS
SCALE: 1½" = 1'-0"

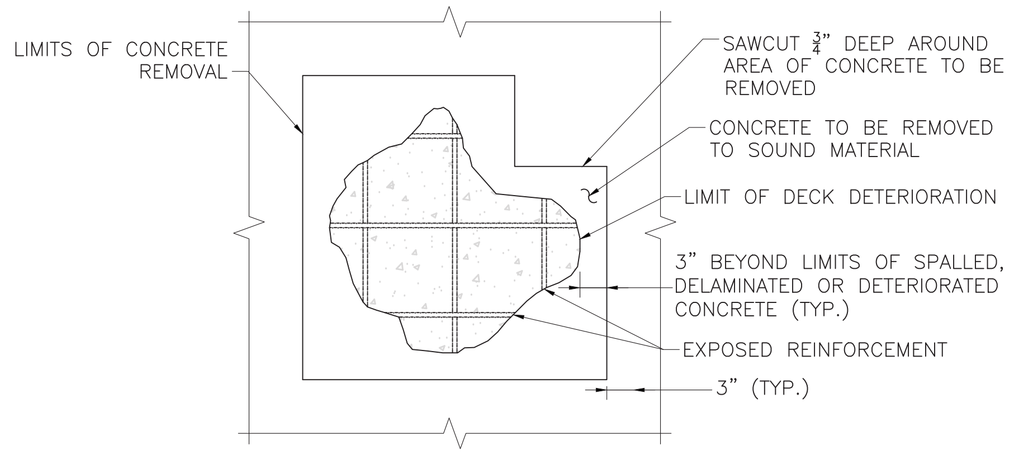
MIDDLEFIELD
TOWN HILL ROAD OVER FACTORY BROOK

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	5	8
PROJECT FILE NO. 616286			

STEEL BEAM REPAIR DETAILS (2 OF 2)

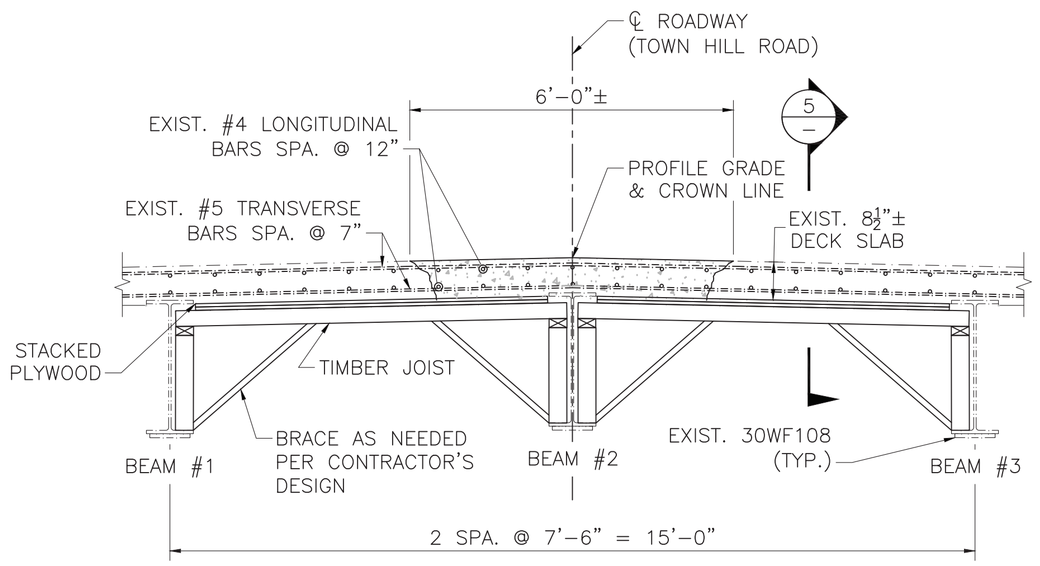
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	6	8
PROJECT FILE NO.	616286		

DECK REPAIRS



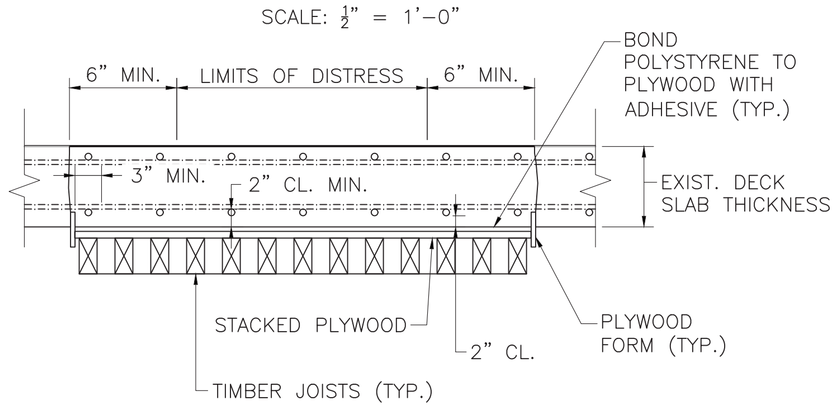
LIMITS OF REPAIR AREA

SCALE: 1" = 1'–0"



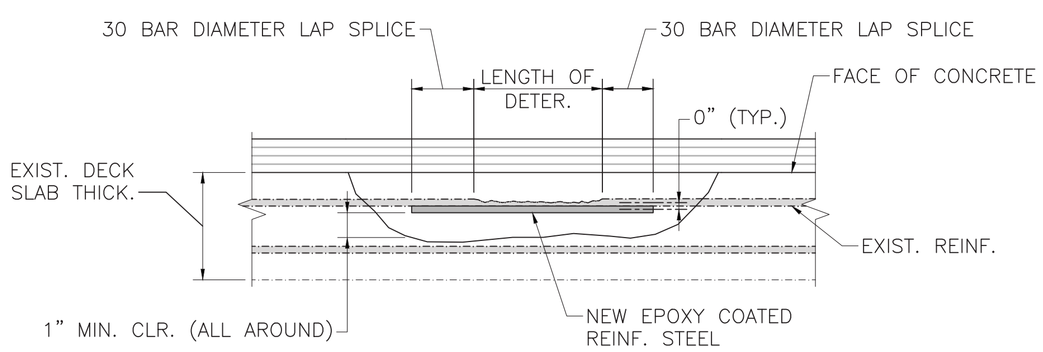
FULL DEPTH DECK REPAIR

SCALE: ½" = 1'–0"



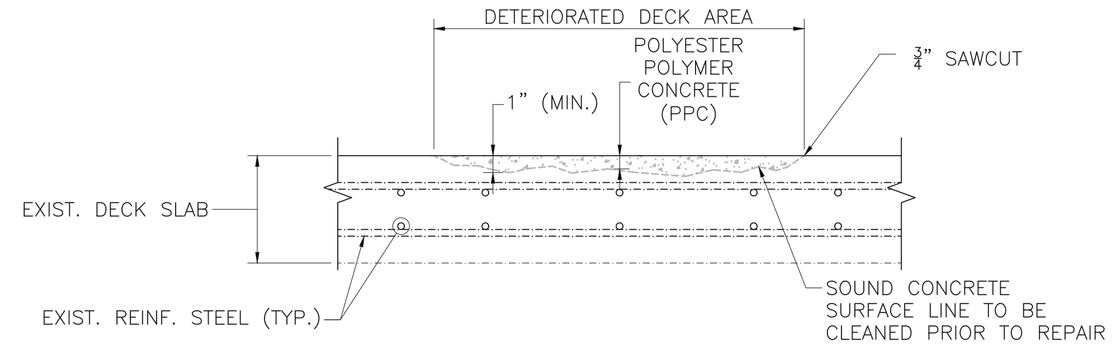
FULL DECK REPAIR SECTION 5 / –

SCALE: 1" = 1'–0"



TYPICAL DETERIORATED REINFORCEMENT STEEL REPAIR

SCALE: 1½" = 1'–0"

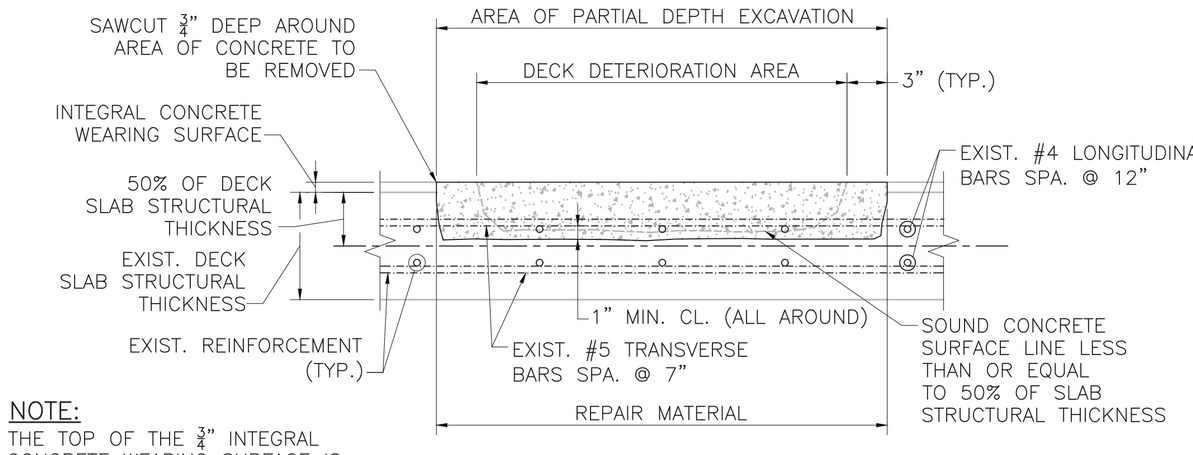


TYPICAL MINOR SPALL REPAIR

SCALE: 1½" = 1'–0"

NOTE:

1. IF REINFORCING BARS ARE EXPOSED, THEN COMPLETE REPAIR AS A PARTIAL DEPTH REPAIR WITH 1" EXCAVATED BENEATH THE EXPOSED BARS.

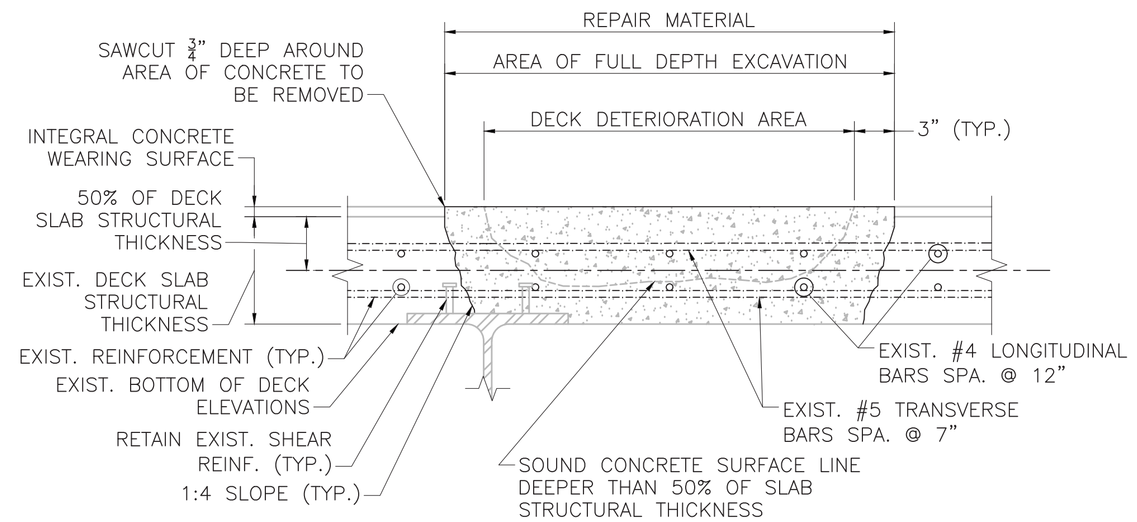


NOTE:

THE TOP OF THE ¾" INTEGRAL CONCRETE WEARING SURFACE IS CONSIDERED NON–STRUCTURAL.

PARTIAL DEPTH DECK REPAIR DETAIL

SCALE: 1½" = 1'–0"



FULL DEPTH DECK REPAIR DETAIL

SCALE: 1½" = 1'–0"

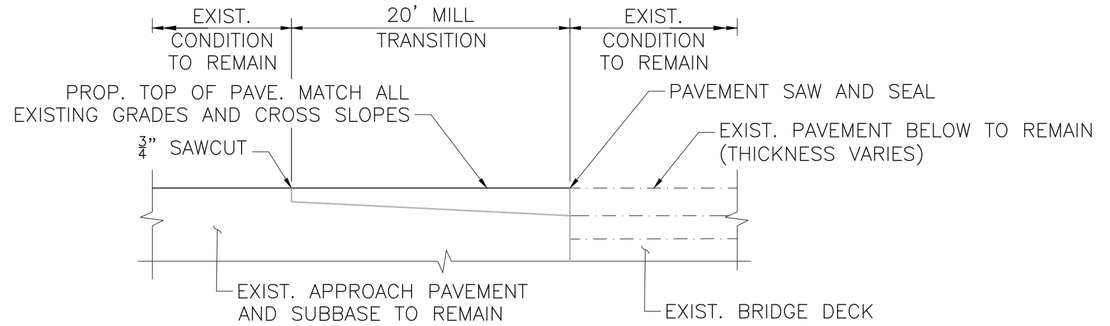
NOTE:

1. DECK FORMS SHALL BE INSTALLED FLUSH WITH EXISTING DECK UNDERSIDE AND SHALL BE REMOVED AFTER CURING IS COMPLETE.
2. THE TOP ¾" OF INTEGRAL CONCRETE WEARING SURFACE IS CONSIDERED NON–STRUCTURAL.

DECK REPAIR NOTES:

MINOR SPALL REPAIRS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 106.493 – POLYESTER POLYMER CONCRETE FOR TOPSIDE DECK REPAIRS. MATERIALS, SURFACE PREPARATION, AND APPLICATION SHALL CONFORM TO THE STANDARD SPECIFICATIONS. REPAIR LIMITS SHALL BE AS DIRECTED BY THE ENGINEER.

1. FULL–DEPTH AND PARTIAL–DEPTH BRIDGE DECK REPAIRS (WHEN THE BRIDGE IS CLOSED TO TRAFFIC) SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 909.5 – RAPID HARDENING CEMENTITIOUS PRODUCTS FOR REPAIRS. CONCRETE PLACEMENT, FINISHING, AND CURING SHALL CONFORM TO THE STANDARD SPECIFICATIONS.
2. PARTIAL DEPTH REPAIRS SHALL BE PERFORMED WHERE THE DEPTH OF DETERIORATED CONCRETE EXTENDS LESS THAN OR EQUAL TO 50% OF THE THICKNESS OF THE EXISTING CONCRETE DECK. CONCRETE SHALL BE REMOVED TO A MINIMUM OF 1" BELOW THE BOTTOM OF THE TOP MAT OF EXISTING REINFORCING STEEL.
3. FULL DEPTH REPAIRS SHALL BE PERFORMED WHERE THE DEPTH OF DETERIORATED CONCRETE EXTENDS GREATER THAN 50% OF THE THICKNESS OF THE EXISTING CONCRETE DECK.
4. WHEN FULL DEPTH REPAIRS ARE REQUIRED IN THE DECK OVERHANGS, THE LENGTH OF REPAIR ALONG THE STRUCTURE SHOULD BE LIMITED TO 4'–0" LONG SEGMENTS.
5. THE TOP SURFACE OF THE DECK REPAIRS SHALL BE FINISHED FLUSH WITH THE ADJACENT TOP OF DECK SLAB AND SHALL MAINTAIN THE EXISTING GRADES AND CROSS SLOPES.
6. 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 SURFACES THAT WILL BE IN CONTACT WITH REPAIR CONCRETE SHALL BE PRE–WETTED FOR A MINIMUM OF 24 HOURS USING POTABLE WATER IN ORDER TO ACHIEVE A SATURATED SURFACE DRY CONDITION IMMEDIATELY PRIOR TO PLACEMENT OF REPAIR CONCRETE.
7. 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.



PAVEMENT TRANSITION DETAIL

NOT TO SCALE

1. THE APPROACH ROADWAY SHALL BE MICRO–MILLED AND PAVED 20' FROM EACH END OF THE BRIDGE JOINT AS NOTED IN THE PAVEMENT TRANSITION DETAIL ABOVE.
2. PAVEMENT SAW AND SEAL JOINT ALONG THE END OF DECK LOCATIONS ON EACH END, AS SHOWN IN THE PAVEMENT SAWCUT DETAIL ON THIS SHEET.
3. ALL APPROACH PAVEMENT SHALL BE 1½" SUPERPAVE SURFACE COURSE – 125. (SSC – 12.5).

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M-19-003 (05P).DWG Plotted on 11-Jun-2026 4:41 PM
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NOTES:

1. ALL THE TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERSEDED BY THESE PLANS.
2. ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
3. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
4. MIDDLEFIELD BRIDGES M-19-003 AND M-19-004 SHALL NOT BE CLOSED CONCURRENTLY TO MAINTAIN ACCESS TO THE RESIDENCES BETWEEN THE TWO BRIDGES.
5. WHEN CONSTRUCTION IS COMPLETE ON THE FIRST BRIDGE, RELOCATE THE TYPE III BARRICADES AND "BRIDGE CLOSED" SIGNS TO THE SECOND BRIDGE. AS REQUIRED.
6. TYPE III BARRICADES SHALL BE PLACED ACROSS ENTIRE WIDTH OF ROADWAY.
7. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF CONSTRUCTION.
8. TEMPORARY CONSTRUCTION SIGNING IS SHOWN GRAPHICALLY ON THIS PAGE. SIGN PLACEMENT SHALL BE PER THE "TYPICAL INTERSECTION SIGN PLACEMENT" DETAIL ON THE FOLLOWING SHEET AND CONFORM TO THE MUTCD.

LEGEND:

- DETOUR ROUTE
- SIGN
- TYPE III BARRICADES
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- CLOSED BRIDGE
- OPEN BRIDGE

SCALE: 1" = 1000'

0 1000 2500 5000

BANCROFT RD
BENTON HILL RD
BENTON HILL RD
ROUTE 8
CARTER RD
BROOKER HILL RD
PLEASANT ST
LELAND RD
HIGH ST
ROUTE 8
TOWN LINE
WASHINGTON
BECKET
MIDDLEFIELD
BECKET
MIDDLEFIELD
SURINER RD
BANCROFT RD
TOWN HILL RD
W HILL RD
W HILL RD
BECKET RD
MIDDLEFIELD RD
JOHNSON HILL RD
RESERVOIR RD
TOWN HILL RD
MIDDLEFIELD
TOWN LINE
BECKET
CHESTER

BRIDGE M-19-004 (05Q)

BRIDGE M-19-003 (05P)

BRIDGE CLOSED
MA-R11-2b

BRIDGE CLOSED
1 MILE AHEAD
LOCAL TRAFFIC ONLY
MA-R11-3b (1 MILE)

BRIDGE CLOSED
1/2 MILE AHEAD
LOCAL TRAFFIC ONLY
MA-R11-3b (1/2 MILE)

BRIDGE CLOSED
2 MILES AHEAD
LOCAL TRAFFIC ONLY
MA-R11-3b (2 MILES)

DETOUR AHEAD W20-2

PCMS

M5-1P(L) M6-1P(L) M6-1P(R) M5-1P(R) M6-3P

M4-8P DETOUR
M3-3P SOUTH
M3-1P NORTH
W16-8P Town Hill Rd

M4-8a END DETOUR
M3-3P SOUTH
W16-8P Town Hill Rd

MESSAGES FOR PCMS

ADVANCE NOTIFICATION
MESSAGE 1: BRIDGE ON TOWN HILL ROAD
MESSAGE 2: CLOSING XXX/## TO XXX/##

DURING DETOUR
MESSAGE 1: BRIDGE ON TOWN HILL ROAD
MESSAGE 2: CLOSED USE DETOUR

NAD 83
N

DETOUR PLAN

MIDDLEFIELD
TOWN HILL ROAD OVER FACTORY BROOK

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	7	8
PROJECT FILE NO. 616286			

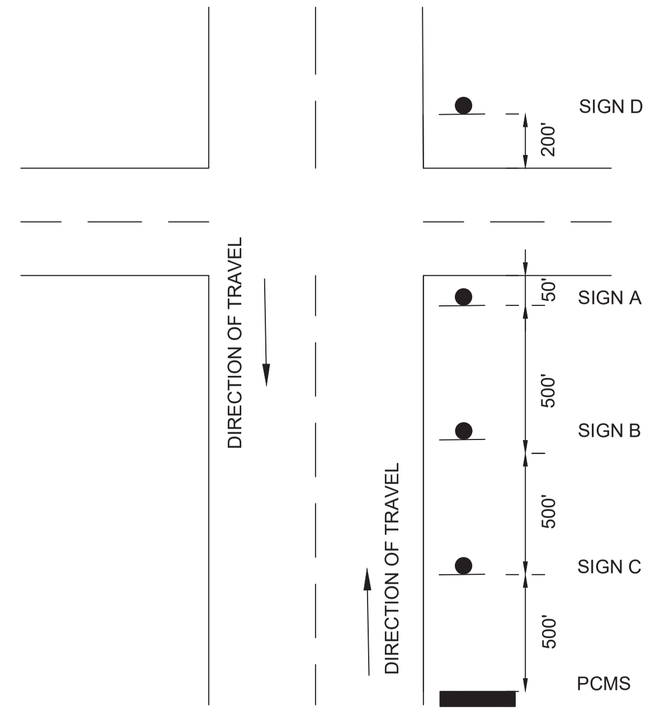
MIDDLEFIELD
TOWN HILL ROAD OVER FACTORY BOOK

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	8	8
PROJECT FILE NO.	616286		

SIGN SHEET

TRAFFIC SIGN SUMMARY - BRIDGE M-19-003 (05P)

IDENTIFICATION NUMBER	SIZE OF SIGN (INCHES)		LEGEND	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			NUMBER OF SUPPORTS REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACKGROUND	LEGEND	BORDER			
M3-1P	24	12	NORTH	SEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES			19	WHITE	BLACK	BLACK	Mounted below M4-8P/ M4-8a	2.0	38.0
M3-3P	24	12	SOUTH				18	WHITE	BLACK	BLACK	Mounted below M4-8P/ M4-8a	2.0	36.0
M4-8P	24	12	DETOUR				35	ORANGE	BLACK	BLACK	35	2.0	70.0
M4-8a	24	18	END DETOUR				2	ORANGE	BLACK	BLACK	2	3.0	6.0
M5-1P (L)	21	15					8	ORANGE	BLACK	BLACK	Mounted below W16-8P	2.2	17.6
M5-1P (R)	21	15					7	ORANGE	BLACK	BLACK	Mounted below W16-8P	2.2	15.4
M6-1P (L)	21	15					8	ORANGE	BLACK	BLACK	Mounted below W16-8P	2.2	17.6
M6-1P (R)	21	15					7	ORANGE	BLACK	BLACK	Mounted below W16-8P	2.2	15.4
M6-3P	21	15					5	ORANGE	BLACK	BLACK	Mounted below W16-8P	2.2	11.0
MA-R11-2b	48	30	BRIDGE CLOSED				2	WHITE	BLACK	BLACK	Mounted on Type III Barricade	10.0	20.0
MA-R11-3b (1/2 MILE)	60	30	BRIDGE CLOSED 1/2 MILE AHEAD LOCAL TRAFFIC ONLY				1	WHITE	BLACK	BLACK	2	12.5	12.5
MA-R11-3b (1 MILE)	60	30	BRIDGE CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY				1	WHITE	BLACK	BLACK	2	12.5	12.5
MA-R11-3b (2 MILES)	60	30	BRIDGE CLOSED 2 MILES AHEAD LOCAL TRAFFIC ONLY				1	WHITE	BLACK	BLACK	2	12.5	12.5
W16-8P	24	8	Town Hill Rd				37	WHITE	BLACK	BLACK	Mounted below M3-1P/M3-3P	1.3	48.1
W20-2	36	36	DETOUR AHEAD				3	ORANGE	BLACK	BLACK	3	9.0	27.0

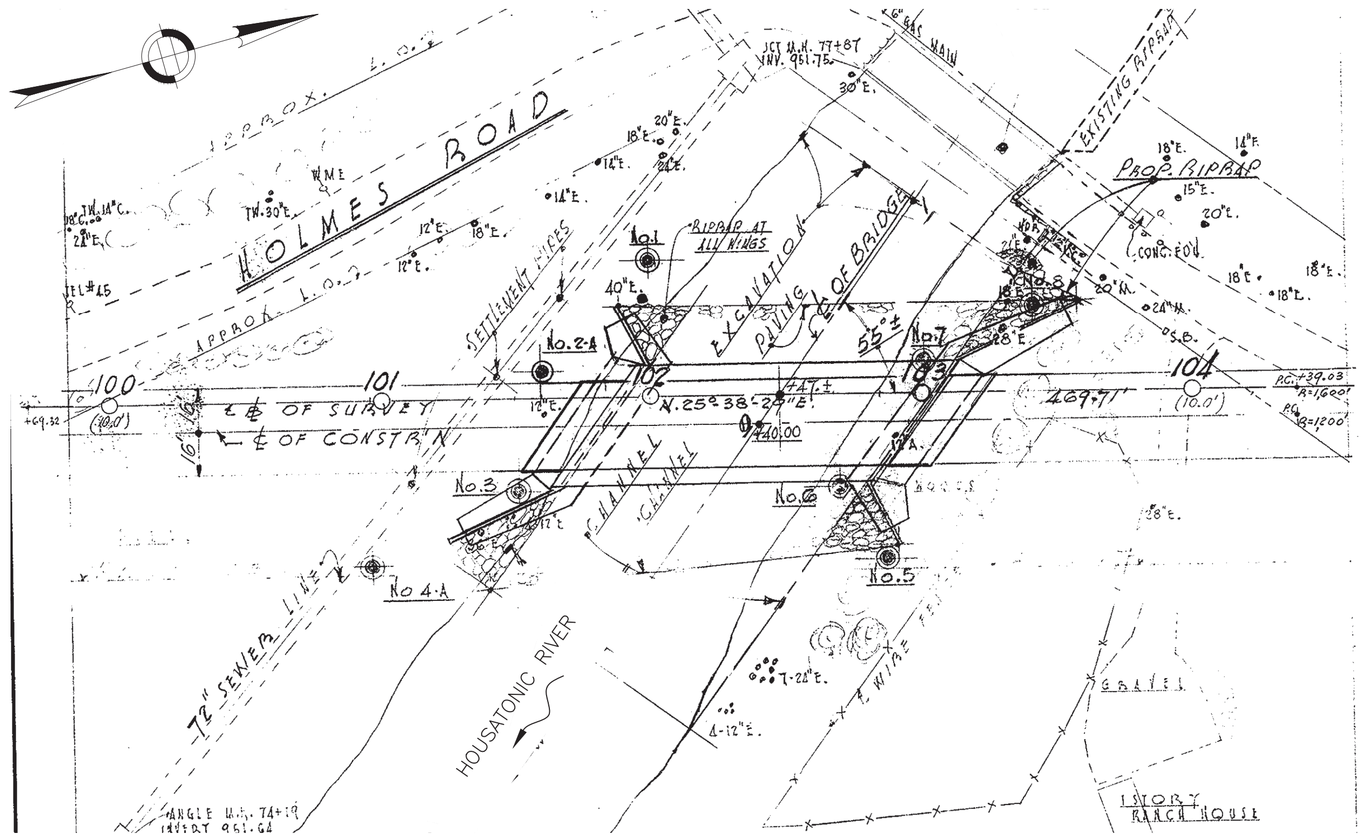


TYPICAL INTERSECTION SIGN PLACEMENT
NOT TO SCALE

NOTE: SIGNS USED FOR THIS DETOUR ROUTE ARE INTENDED TO BE RE-USED FOR THE DETOUR ROUTE FOR BRIDGE NO. M-19-004 AS APPLICABLE, AND SHALL ONLY BE PAID FOR ONCE.

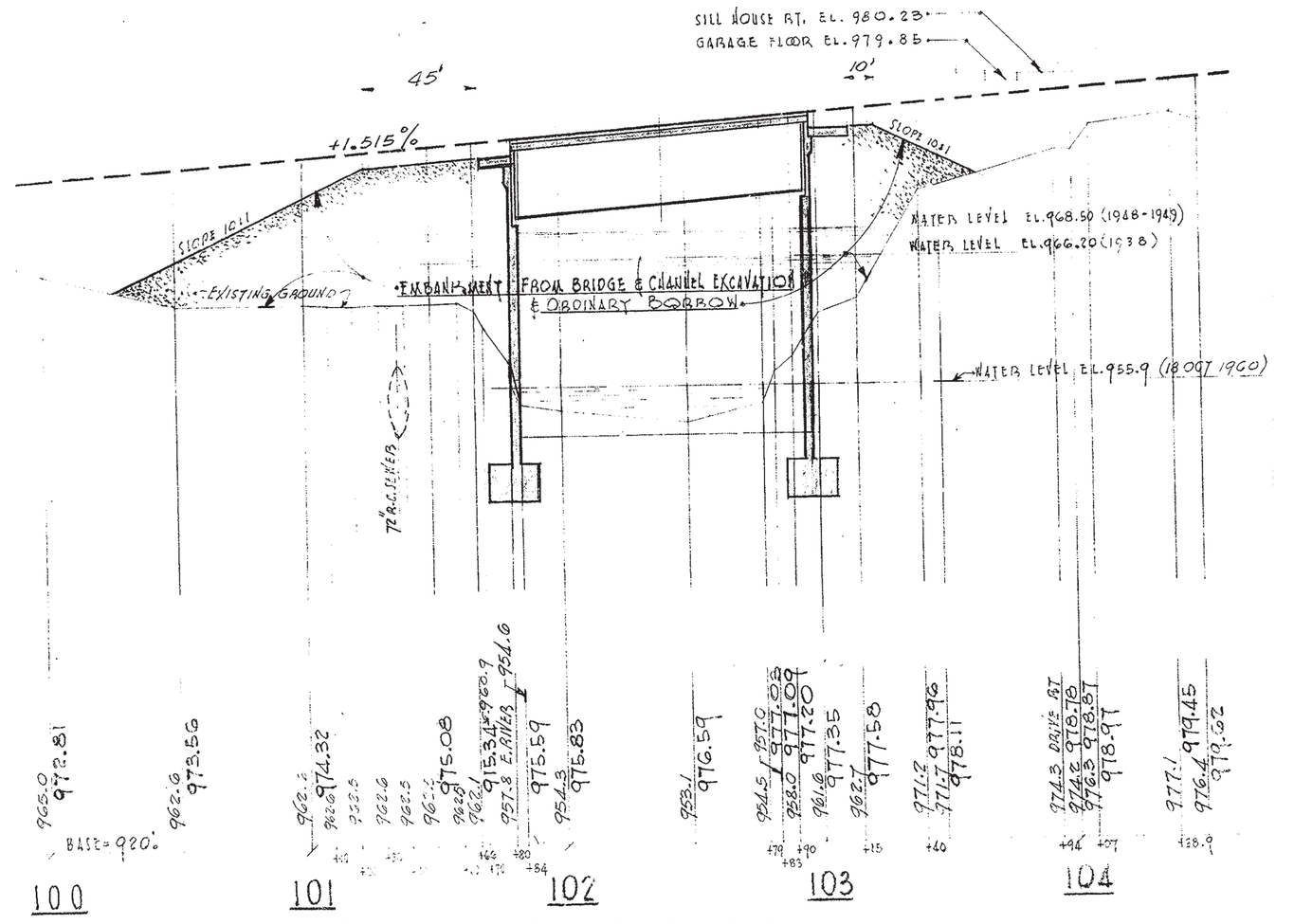
DATE	DESCRIPTION
JULY 18, 2026	ISSUED FOR CONSTRUCTION
USE ONLY PRINTS OF LATEST DATE	

Proposal No. 616282-135582
DRAWING3.DWG Plotted on 28-May-2026 12:23 PM
A00803 - 17
2ND STRUCTURAL SUBMISSION 07-MAY-2026



KEY PLAN

SCALE: 1" = 40'

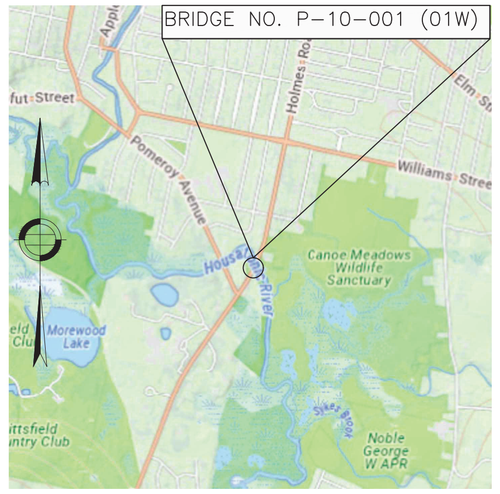


PROFILE ALONG HOLMES ROAD

HORIZ. SCALE: 1" = 40'

VERT. SCALE: $\frac{1}{8}$" = 1'-0"

ESTIMATED QUANTITIES (NOT GUARANTEED)			
ITEM	DESCRIPTION	QUANTITY	UNITS
106.493	POLYESTER POLYMER CONCRETE FOR TOPSIDE DECK REPAIRS	16	CY
107.97	STRUCTURAL STEEL REPAIRS	2333	LB
127.4	REINFORCED CONCRETE DECK EXCAVATION (FULL DEPTH)	15	SY
226.37	CLEANING BRIDGE SEATS	109	FT
905.2	5000 PSI, 3/8", 710 HP CEMENT CONCRETE	45	CY
909.5	RAPID HARDENING CEMENTITIOUS PRODUCTS FOR REPAIRS	11	CY
910.1	STEEL REINFORCEMENT FOR STRUCUTURES - EPOXY COATED	1027	LB
973.2	PRE-COMPRESSED JOINT SEAL	39	FT
994.1	TEMPORARY PROTECTIVE SHIELDING	595	SF



LOCUS MAP

SCALE: 1" = 2000'

PITTSFIELD
HOLMES ROAD OVER HOUSATONIC RIVER

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	1	9
	PROJECT FILE NO. 616286		

GENERAL NOTES, LOCUS, PROFILE, AND INDEX

INDEX OF SHEETS

1. GENERAL NOTES, LOCUS, PROFILE, AND INDEX
2. FRAMING PLAN & TYPICAL CROSS SECTION
3. GENERAL PLAN
4. STEEL BEAM END REPAIR DETAILS
5. CONCRETE BEAM END REPAIR DETAILS
6. DECK REPAIR DETAILS
7. JOINT REPAIRS

GENERAL NOTES:

1. GENERAL REPAIR DESIGN IN ACCORDANCE WITH THE 17TH EDITION OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES WITH INTERIM SPECIFICATIONS THROUGH 2002, FOR H20 LOADING.

2. ALL WORK SCHEDULES, WILL BE PRE-APPROVED BY THE DEPARTMENT PRIOR TO BEGINNING WORK. WORK NECESSARY OUTSIDE OF NORMAL WORK HOURS BECAUSE OF TRAFFIC CONDITIONS, AS NOTED IN THE PLANS OR SPECIFICATIONS, WILL BE SUBMITTED TO MASSDOT FOR APPROVAL. ALL WORK PERFORMED WILL BE IN CONFORMANCE WITH THE MASSDOT NOISE ORDINANCES.

3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RELEVANT SECTIONS OF THE CURRENT MASSDOT "STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES", INCLUDING CURRENT SUPPLEMENTALS.

4. THESE DRAWINGS WERE FORMATTED FOR 24"x36" PLAN SHEETS. SCALES NOTED ON THE DRAWINGS ARE NOT APPLICABLE TO REDUCED SIZE PRINTS.

5. EXISTING STRUCTURE DIMENSIONS AND DETAILS ARE ACCORDING TO ORIGINAL CONSTRUCTION DRAWINGS, OBSERVATION, AND FIELD MEASUREMENTS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE AND ESTABLISH ALL DIMENSIONS AND EXISTING DETAILS NECESSARY FOR COMPLETION OF ALL WORK BY FIELD MEASUREMENT (I.E. BEARING LOCATIONS, EXISTING REPAIRS, ETC.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY AND ACCURACY THEREOF, AND SHALL NOT ORDER ANY MATERIAL OR COMMENCE ANY FABRICATION UNTIL THEY HAVE MADE THE REQUIRED MEASUREMENTS ON THE ACTUAL STRUCTURE AND THE EXTENT OF THE PROPOSED WORK HAS BEEN APPROVED BY THE ENGINEER.

6. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY NOT TO DAMAGE UTILITIES, EQUIPMENT, STRUCTURES, OR THOSE PORTIONS OF THE SUPERSTRUCTURE THAT ARE TO REMAIN IN PLACE, THAT ARE TO BE REUSED, OR THAT ARE TO REMAIN THE PROPERTY OF OTHERS. ANY PORTION OF THE SUPERSTRUCTURE AND SUBSTRUCTURE TO REMAIN WHICH BECOMES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND AT THE CONTRACTOR'S EXPENSE.

7. THE CONTRACTOR SHALL ASSUME ALL EXISTING COATINGS CONTAIN LEAD UNLESS OTHERWISE DETERMINED BY TESTING. ALL DEBRIS CREATED BY OPERATIONS SHALL BE PROPERLY CONTAINED AND DISPOSED OF.

8. TEMPORARY SHIELDING WILL BE PROVIDED TO PROTECT THE RIVER BENEATH THE BRIDGE FROM FALLING OR FLYING DEBRIS OR ANY TOOLS OR INCIDENTAL EQUIPMENT DURING ALL ACTIVITIES, INCLUDING STEEL REPAIR PLATE INSTALLATION, PREPARATION, CLEANING & PAINTING, ETC.

9. ALL STRUCTURAL STEEL PLATES AND ANGLES SHALL CONFORM TO AASHTO M270 AND/OR DUAL CERTIFIED WITH ASTM A709, GRADE 36 OR 50 DESIGNATION. CHARPY V-NOTCH TESTING IS REQUIRED FOR MAIN MEMBER REPAIR, ACCORDING TO MASSDOT STANDARD SPECIFICATIONS. ALL NEW STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 111.

10. ALL BOLTS AND RELATED HARDWARE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M164 (ASTM F3125 GRADE A325), UNLESS OTHERWISE NOTED. ALL NEW BOLTS SHALL BE $\frac{7}{8}$"ø HIGH STRENGTH BOLTS IN $\frac{15}{16}$"ø HOLES, WITH MINIMUM $1\frac{1}{2}$" EDGE DISTANCE AND 3" CENTER TO CENTER MINIMUM SPACING UNLESS NOTED OTHERWISE. ALL BOLT SIZES AND BOLT TYPES TO BE USED SHALL BE LABELED ON SHOP DRAWINGS. NEW BOLTS AND NUTS SHALL BE GALVANIZED. ALL BOLTS TORQUED TO AT LEAST 575 FT-LBS.

11. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31 GRADE 60 EPOXY COATED.

12. THREADED RODS SHALL BE $\frac{3}{4}$"ø AND CONFORM TO ASTM F1554 GRADE 36. NUTS AND WASHERS SHALL CONFORM TO AASHTO M291 AND M293, MATCHING THE ROD GRADE. ALL COMPONENTS SHALL BE HOT-DIP GALVANIZED.

13. PRIOR TO THE INSTALLATION OF ANY NEW STEEL, AREAS OF EXISTING STEEL THAT ARE TO RECEIVE NEW STEEL SHALL BE THOROUGHLY CLEANED OF ALL PAINT, RUST, SCALE, OIL, GREASE, AND OTHER DELETERIOUS MATERIAL IN ACCORDANCE WITH SSPC-SP 1 OR SSPC-SP 3, AS APPLICABLE. CLEANED SURFACES SHALL BE PREPARED TO A POWER TOOL CLEANED CONDITION (SSPC-SP 3) WHERE REQUIRED AND SHALL RECEIVE A PRIME COAT OF PAINT IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS PRIOR TO INSTALLATION OF NEW STEEL. ADDITIONALLY, ALL BEARINGS SHALL BE CLEANED AND PAINTED (TYP.).

14. NO REPAIRS SHALL COMMENCE UNTIL ALL MATERIALS (EXCLUDING CONCRETE) ARE ON HAND FOR THE REPAIR. THIS INCLUDES TRANSFER OF EXISTING HOLE LOCATIONS TO NEW STEEL AND COMPLETION OF SUB DRILLED/PUNCHED HOLES.

15. ALL HOLES IN THE NEW STEEL SHALL BE SUB DRILLED (OR SUB PUNCHED) TO $\frac{11}{16}$"ø AND REAMED FULL SIZE WITH ALL PLIES OF THE CONNECTION OR REPAIR IN PLACE.

16. FIELD DRILLING OF NEW HOLES IN THE EXISTING AND NEW STEEL, FOR INSTALLATION OF HIGH STRENGTH BOLTS, SHALL BE DRILLED 1/16" LARGER THAN THE BOLT DIAMETER. BURNING OR PUNCHING OF HOLES WILL NOT BE ALLOWED.

17. EPOXY COMPOUND FOR STRUCTURAL STEEL REPAIRS SHALL BE A SOLVENT FREE, MOISTURE TOLERANT, EPOXY PASTE ADHESIVE SYSTEM. THE EPOXY PASTE SHALL BE DEVELOPED SPECIFICALLY FOR FILLING, SMOOTHING, SEALING, OR FAIRING APPLICATIONS ON METALS. THE PASTE SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S LATEST WRITTEN INSTRUCTIONS.

18. CLEARING AND GRUBBING ITEM 101. PAY LIMITS SHALL NOT EXCEED 0.15 ACRE PER STRUCTURE UNLESS OTHERWISE DIRECTED BY THE ENGINEER AND ALL CLEARING AND GRUBBING REQUIRED BEYOND THESE LIMITS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND SHALL NOT BE PAID FOR SEPARATELY.

19. FOR TEMPORARY TRAFFIC CONTROL SIGNAL AND DETOUR PLANS, REFER TO HOLMES ROAD DRAFT TMP DATED 2/23/2026. DOCUMENTS MAY BE REQUESTED FROM MASSDOT.

JULY 18, 2026 | ISSUED FOR CONSTRUCTION

MassDOT Massachusetts Department of Transportation Highway Division

PROPOSED BRIDGE PRESERVATION

DISTRICT 1 - MULTIPLE LOCATIONS

HOLMES ROAD
OVER HOUSATONIC RIVER

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION
10 PARK PLAZA BOSTON, MASS

H&H
ONE WASHINGTON MALL
SUITE 1602
BOSTON, MA 02108
(617) 268-2017

SHEET 1 OF 9 SHEETS BRIDGE NO. P-10-001 (01W)

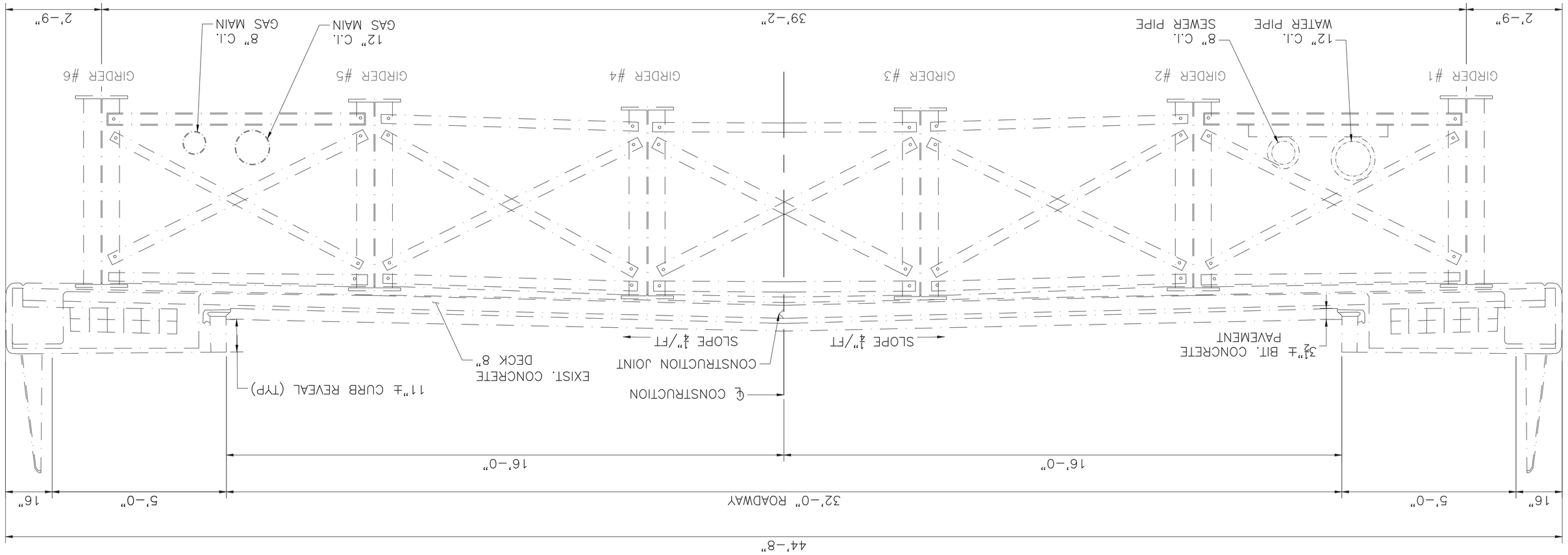
Proposal No. 616282-135582
A00803 - 18
P-10-001 (01W).DWG Plotted on 11-Jun-2026 12:04 PM
2ND STRUCTURAL SUBMISSION 11-JUNE-2026

DATE	DESCRIPTION
JULY 18, 2026	ISSUED FOR CONSTRUCTION

USE ONLY PRINTS OF LATEST DATE

FRAMING PLAN

SCALE: $\frac{3}{16}$" = 1'–0"

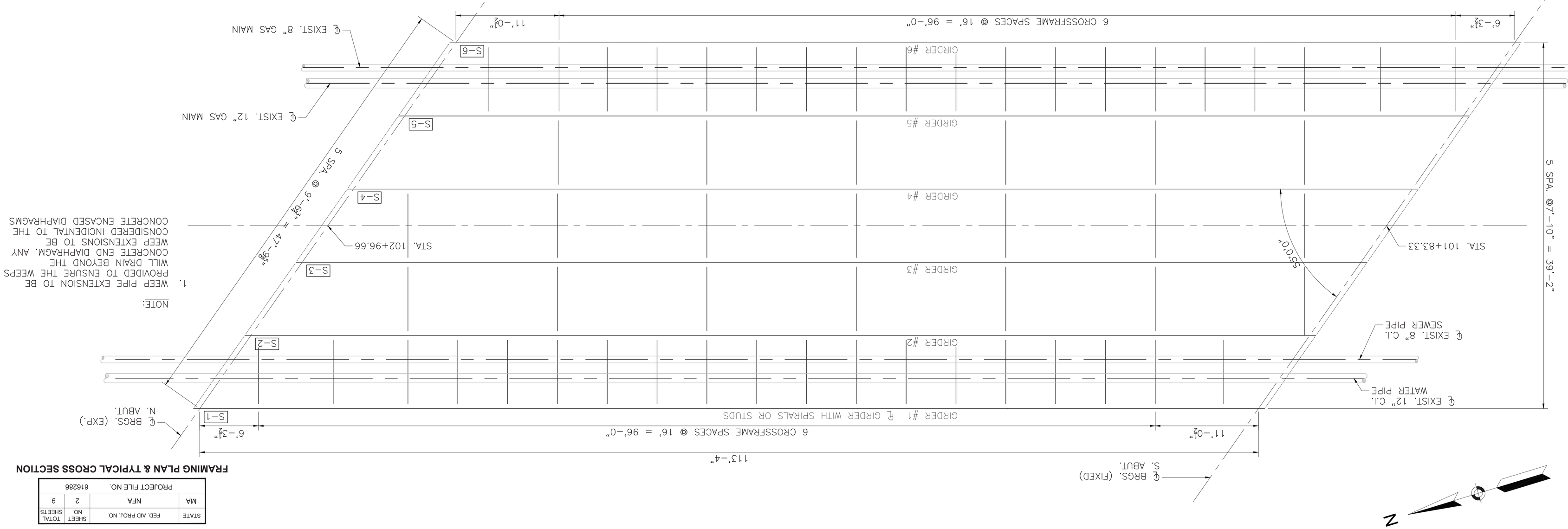


EXISTING TYPICAL CROSS–SECTION

SCALE: ¼" = 1'–0"

REPAIR NO.	BEAM NO.	LOCATION	BEAM SIZE	SHORING REQUIRED	JACKING REQUIRED	REPAIR LENGTH (IN.)	REPAIR HEIGHT (IN.)	NOTES
SUPERSTRUCTURE - SCHEDULE OF REPAIRS (STEEL REPAIRS)								
S–1	G1	N. ABUTMENT	BUILT– UP PLATE GIRDER 64" WEB	NO	NO	33	VARIES	SEE SHEET 4
S–2	G2	N. ABUTMENT	BUILT– UP PLATE GIRDER 64" WEB	NO	NO	72	VARIES	SEE SHEET 4
S–3	G3	N. ABUTMENT	BUILT– UP PLATE GIRDER 64" WEB	NO	NO	43	8.5	SEE SHEET 4
S–4	G4	N. ABUTMENT	BUILT– UP PLATE GIRDER 64" WEB	NO	NO	43	8.5	SEE SHEET 4
S–5	G5	N. ABUTMENT	BUILT– UP PLATE GIRDER 64" WEB	NO	NO	43	8.5	SEE SHEET 4
S–6	G6	N. ABUTMENT	BUILT– UP PLATE GIRDER 64" WEB	NO	NO	43	8.5	SEE SHEET 4

NOTE: SEE SHEET 5 FOR CONCRETE BEAM END REPAIRS AT THE NORTH ABUTMENT



FRAMING PLAN & TYPICAL CROSS SECTION

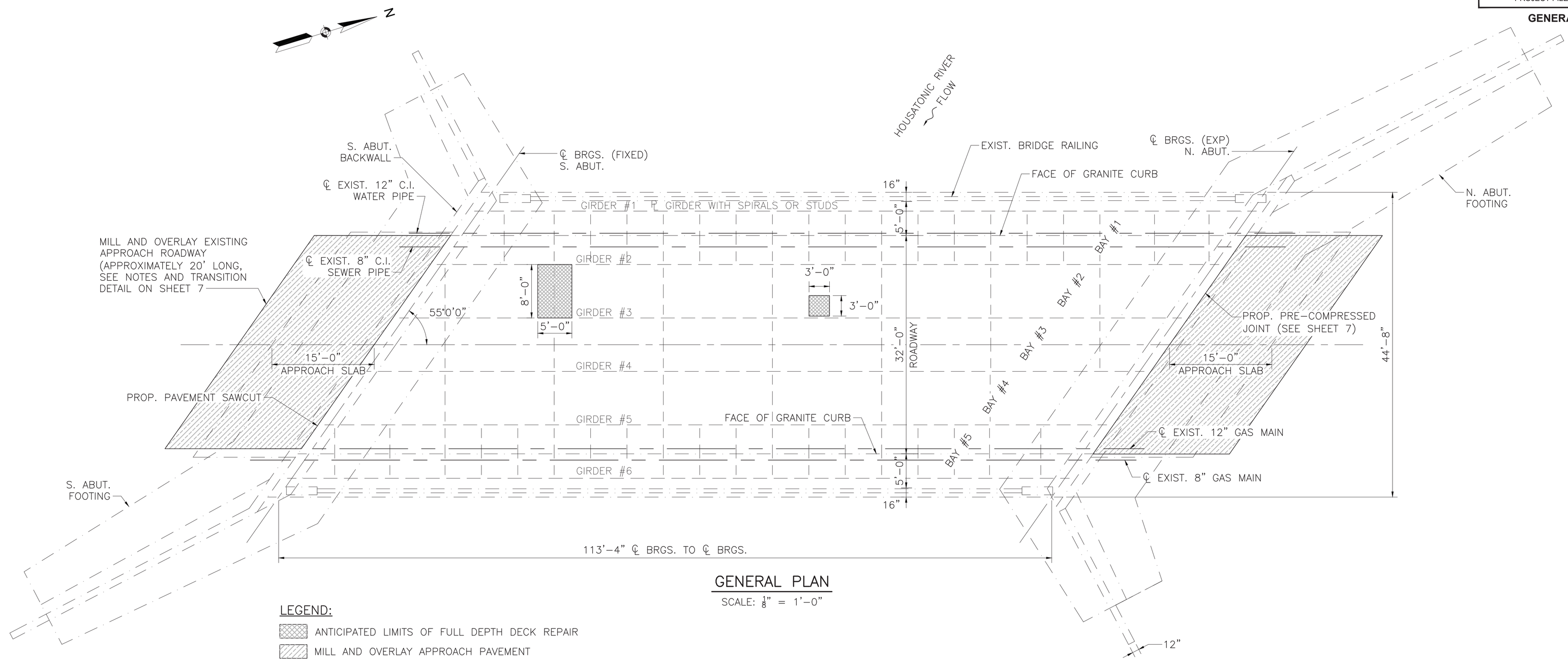
PITTSFIELD
HOLMES ROAD OVER HOUSATONIC RIVER

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	2	9
MA	NFA	PROJECT FILE NO.	616286

PITTSFIELD
HOLMES ROAD OVER HOUSATONIC RIVER

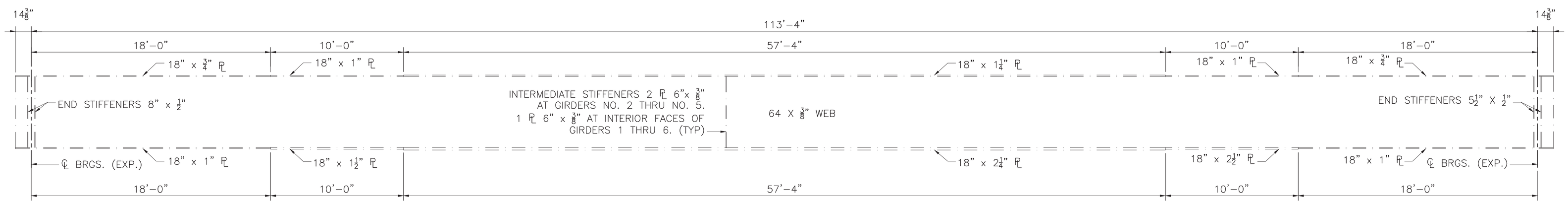
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MA	NFA	3	9
PROJECT FILE NO.	616286		

GENERAL PLAN



GENERAL PLAN
SCALE: $\frac{1}{8}$" = 1'-0"

LEGEND:
- ANTICIPATED LIMITS OF FULL DEPTH DECK REPAIR
- MILL AND OVERLAY APPROACH PAVEMENT



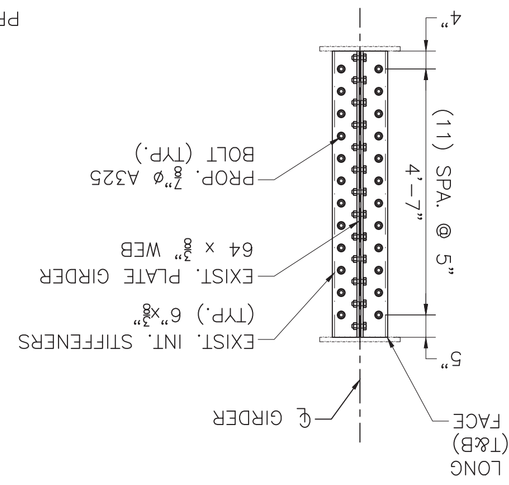
ELEVATION OF GIRDERS
SCALE: $\frac{1}{4}$" = 1'-0"

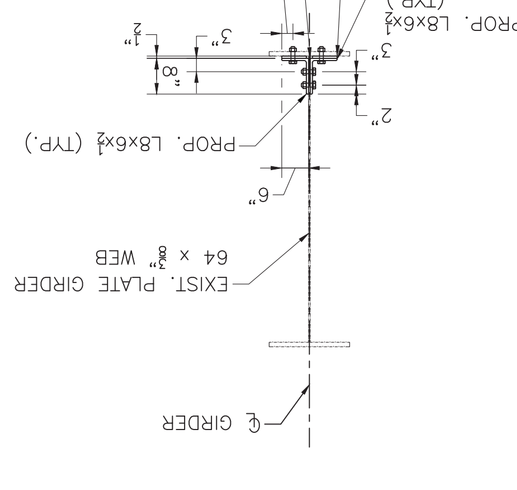
JULY 18, 2026	ISSUED FOR CONSTRUCTION
DATE	DESCRIPTION
USE ONLY PRINTS OF LATEST DATE	

Proposal No. 616282-135582
P-10-001 (01W).DWG Plotted on 11-Jun-2026 12:04 PM
A00803 - 20
2ND STRUCTURAL SUBMISSION 11-JUNE-2026

STEEL REPAIR NOTES:

1. CLEAN THE CONTACT SURFACES OF EXISTING STEEL IN ACCORDANCE WITH SPECIAL PROVISIONS. THE CONTACT SURFACES SHALL BE FREE OF CONTAMINANTS, OIL, AND GREASE.
2. STEEL IS TO BE PRIMED AFTER CLEANING AND PRIOR TO INSTALLATION OF ANY REPAIR MEMBERS. SEE GENERAL NOTES.
3. ENGINEER TO INSPECT CLEANED REPAIR AREA AND VERIFY REPAIR LIMITS BASED ON CONDITIONS EXPOSED BY CLEANING.
4. THE BEAM SHALL BE INSPECTED FOR DAMAGE DUE TO CONTRACTOR'S OPERATIONS. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
5. THE CONTRACTOR SHALL INSTALL FLANGE BOLTS AND CLAMP AREAS WHERE FLANGE BOLTS ARE NOT REQUIRED PRIOR TO DRILLING HOLES FOR WEB BOLTS.
6. FIELD DRILL HOLES IN BEAM WEB TO MATCH HOLE PATTERN IN FABRICATED ANGLE CONNECTION.
7. IN LOCATIONS WHERE DETERIORATION HAS OCCURRED OR AS DIRECTED BY THE ENGINEER, EPOXY REPAIR FAIRING COMPOUND SHALL BE APPLIED OVER THE PRIME COAT AS FOLLOWS:
   A. THE EPOXY REPAIR COMPOUND SHALL BE APPLIED TO THE DETERIORATED AREAS (WEB & FLANGE WHERE NEW PLATES ARE TO BE INSTALLED) IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL THE METHODS, PROCEDURES, AND MATERIALS TO BE USED FOR THE WORK.
   B. THE REPAIR COMPOUND SHALL ONLY BE APPLIED TO THOSE AREAS OF THE EXISTING STEEL THAT EXHIBIT SEVERE SECTION LOSS TO COMPLETELY FILL THE IRREGULARITIES IN THE EXISTING STEEL SURFACES SUCH THAT NO VOIDS REMAIN BETWEEN THE PLIES OF THE EXISTING STEEL AND THE PROPOSED STRENGTHENING STEEL IN THE FINAL REPAIRED CONDITION.
   C. THE PROPOSED REPAIR STEEL SHALL BE PROPERLY POSITIONED AND BROUGHT INTO FIRM CONTACT WITHIN THE WORKING TIME LIMITS OF THE EPOXY REPAIR COMPOUND. THE REPAIR STEEL SHALL BE SECURED IN PLACE USING POSITIONING BOLTS TENSIONED TO A SNUG TIGHT CONDITION AND CLAMPS OR OTHER MECHANICAL MEANS TO BRING THE PLIES OF THE EXISTING STEEL AND NEW STEEL INTO FIRM CONTACT. WELDING IS NOT ALLOWED.
   D. ONCE THE PROPOSED STEEL HAS BEEN SECURED INTO POSITION WITH THE POSITIONING BOLTS, AND THE EPOXY COMPOUND HAS CURED, THE REMAINING HIGH-STRENGTH BOLTS SHALL BE INSTALLED FOLLOWING THE PROCEDURE OUTLINED IN THE GENERAL NOTES.
   E. EPOXY COMPOUND FOR STRUCTURAL STEEL REPAIRS SHALL BE A SOLVENT FREE, MOISTURE TOLERANT, EPOXY PASTE ADHESIVE SYSTEM. THE EPOXY PASTE SHALL BE DEVELOPED SPECIFICALLY FOR FILLING, SMOOTHING, SEALING, OR FAIRING APPLICATIONS ON METALS. THE PASTE SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S LATEST WRITTEN INSTRUCTIONS. AN ACCEPTABLE PRODUCT SHALL BE ONE OF THE FOLLOWING OR AN APPROVED EQUAL: TW PHILADELPHIA RESINS REPAIR COMPOUND MANUFACTURED BY: ITW PHILADELPHIA RESINS, SIKADUR 31, HI-MOD GEL MANUFACTURED BY: SIKA CORPORATION, DEVCON PLASTIC STEEL PUTTY (A) MANUFACTURED BY: ITW DEVCON, FX-738 METAL FILLED EPOXY MANUFACTURED BY: SIMPSON STRONG TIE.
8. REPAIR STEEL ELEMENTS SHALL BE FIELD BOLTED TO EXISTING STEEL MEMBERS USING HIGH-STRENGTH BOLTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. SEE GENERAL NOTES FOR SURFACE PREPARATION AND COATING REQUIREMENTS.
9. ALL STRUCTURAL STEEL PLATES AND ANGLES SHALL CONFORM TO AASHTO M270 AND/OR DUAL CERTIFIED WITH ASTM A709, GRADE 36 OR 50 DESIGNATION. CHARPY V-NOTCH TESTING IS REQUIRED FOR MAIN MEMBER REPAIR, ACCORDING TO MASSDOT STANDARD SPECIFICATIONS.
10. IN THE CASE THAT ANY STEEL REPAIR ANGLE INTERFERES WITH THE EXISTING ANCHOR BOLT, A LEG OF THE ANGLE CAN BE COPED TO PROVIDE CLEARANCE AROUND THE EXISTING ANCHOR BOLT.
11. ALL STEEL REPAIR PLATES AND ANGLES SHALL BE GALVANIZED. SEE GENERAL NOTES ON SHEET1.
12. SEAL PERIMETER OF ALL STEEL WITH SILICONE CAULK.
13. FOR ADDITIONAL NOTES, SEE BRIDGE GENERAL NOTES ON SHEET 1.





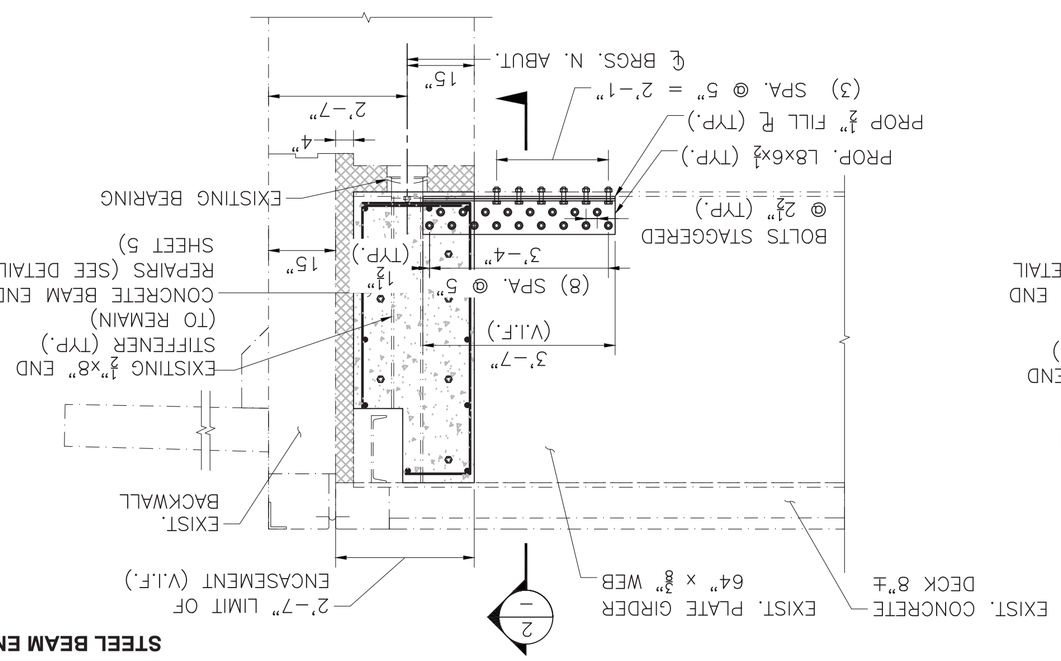
SECTION 1 — SCALE: ½" = 1'-0"

SECTION 2 — SCALE: ½" = 1'-0"

NOTES:
1. GRIND HEEL OF ANGLE OR END OF PLATE AS NECESSARY TO CLEAR FILLETS OF EXISTING MEMBERS.

GIRDER 3 REPAIR S-3 DETAILS

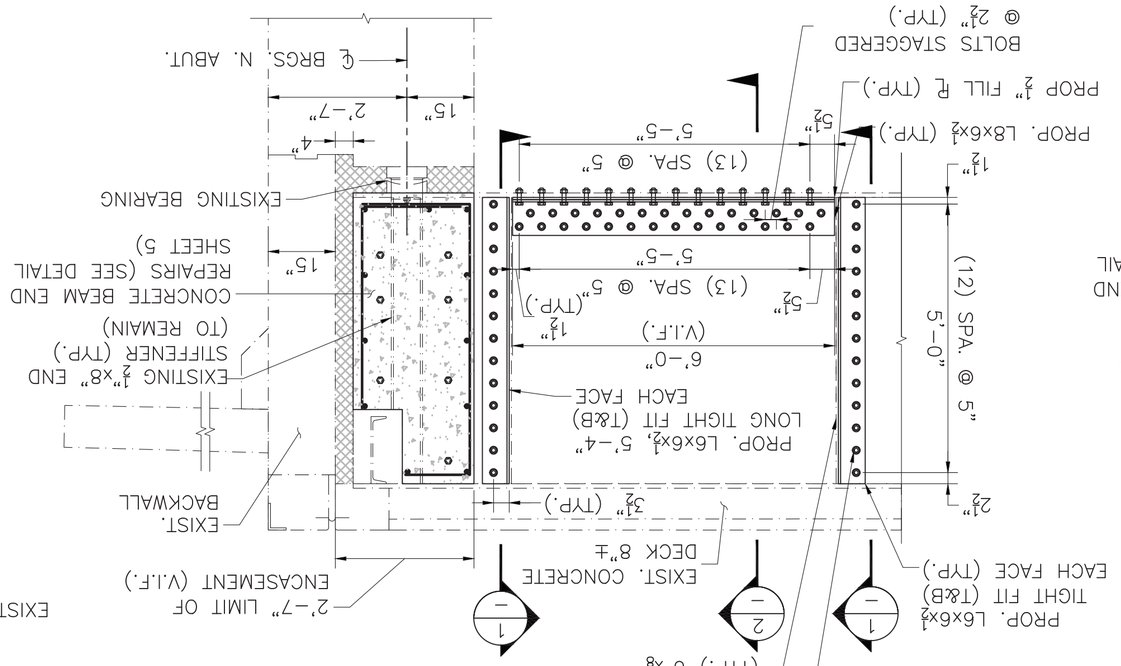
SCALE: ½" = 1'-0"



NOTES:
1. REPAIRS S-3 (G3) AT THE NORTH ABUTMENT SHOWN, AND REPAIRS S-4 (G4), S-5 (G5), AND S-6 (G6) NORTH ABUTMENT SIMILAR.

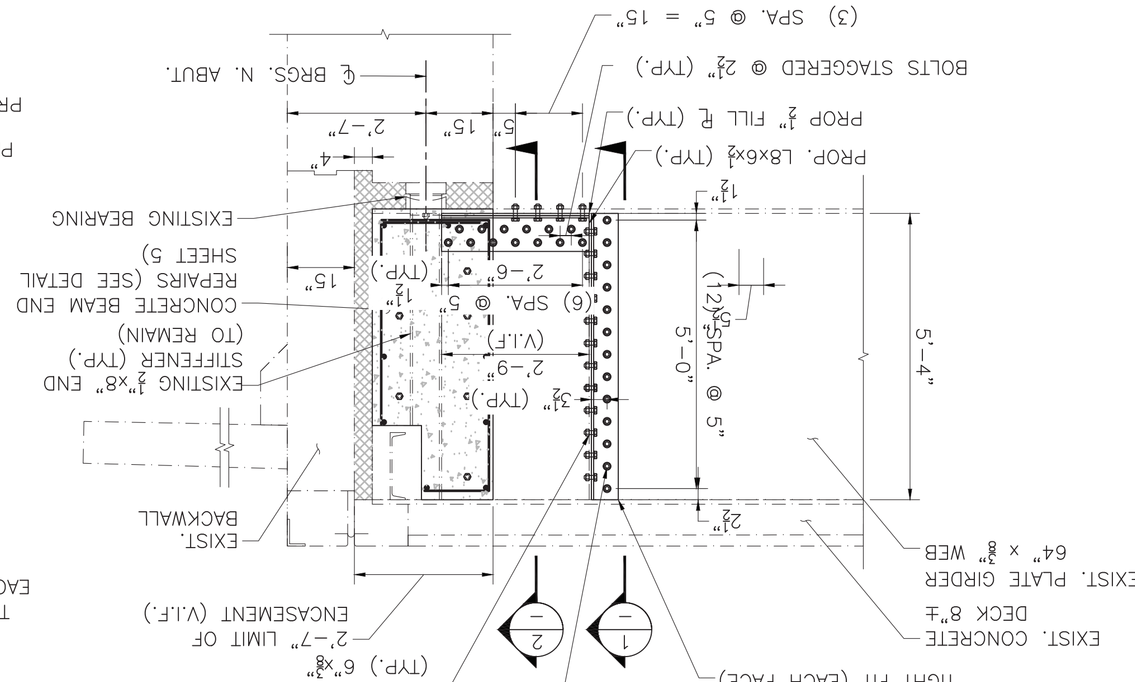
GIRDER 2 REPAIR S-2 DETAILS

SCALE: ½" = 1'-0"



GIRDER 1 REPAIR S-1 DETAILS

SCALE: ½" = 1'-0"



HOLMES ROAD OVER HOUSATONIC RIVER
PITTSFIELD

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	4	9
PROJECT FILE NO. 616286			

STEEL BEAM END REPAIR DETAILS

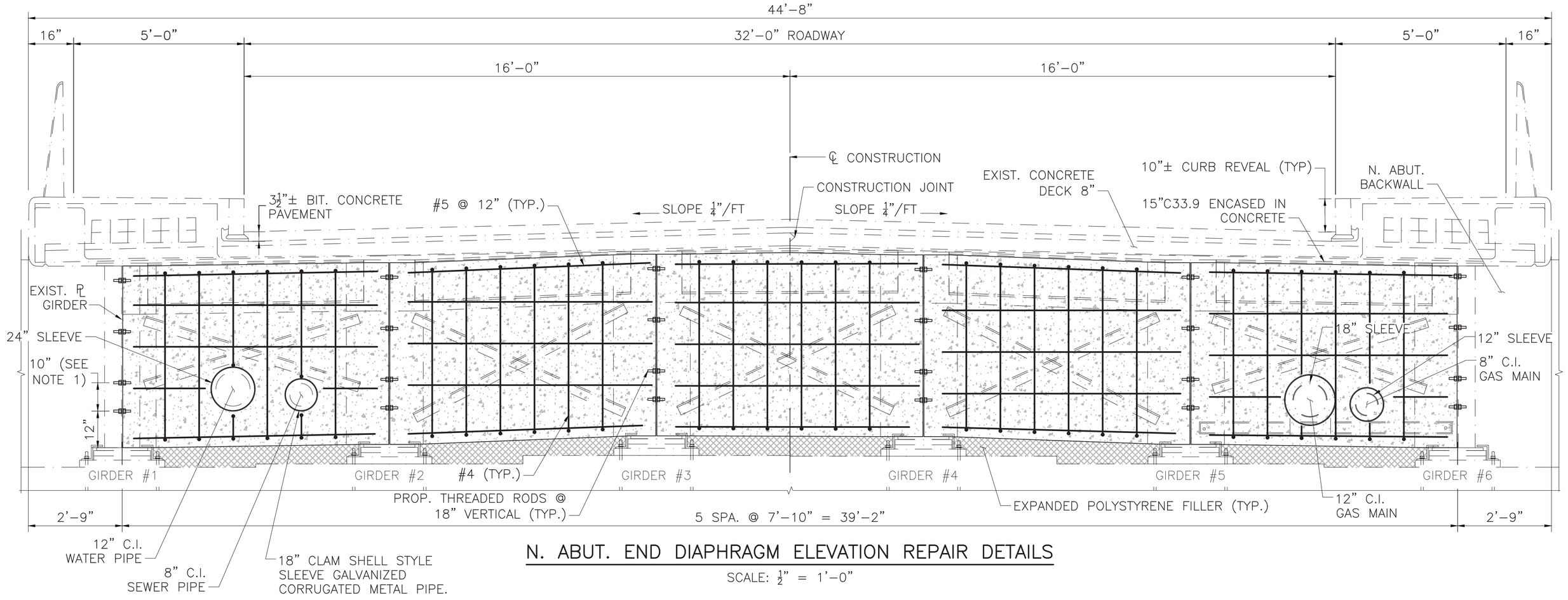
DATE	DESCRIPTION
JULY 18, 2026	ISSUED FOR CONSTRUCTION

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Proposal No. 616282-135582

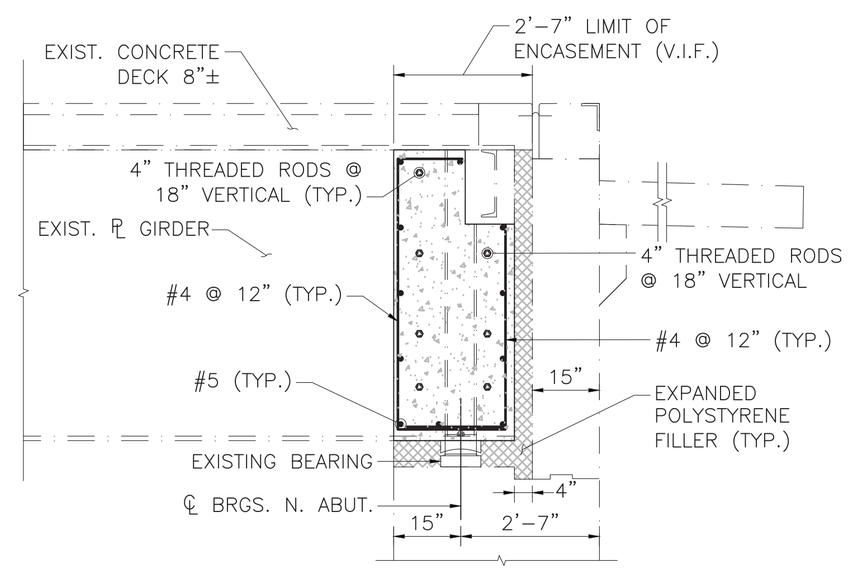
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	5	9
PROJECT FILE NO.	616286		

CONCRETE BEAM END REPAIR DETAILS



N. ABUT. END DIAPHRAGM ELEVATION REPAIR DETAILS

SCALE: ½" = 1'-0"

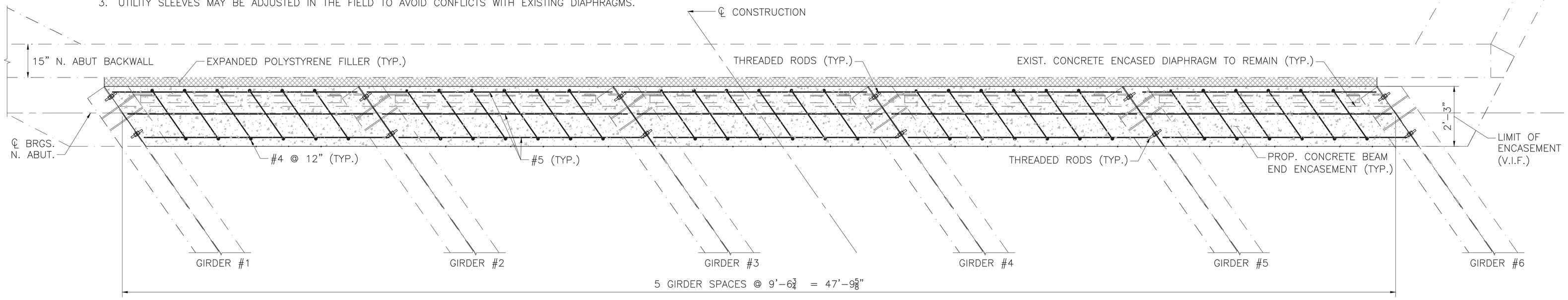


NORTH ABUTMENT REPAIR DETAIL

SCALE: ½" = 1'-0"

NOTES:

1. STEEL BEAM END REPAIRS NOT SHOWN FOR CLARITY.
2. INSTALL BOTTOM THREADED ROD 12" ABOVE THE BOTTOM FLANGE TO AVOID INTERFERENCE WITH STEEL BEAM END REPAIRS.
3. UTILITY SLEEVES MAY BE ADJUSTED IN THE FIELD TO AVOID CONFLICTS WITH EXISTING DIAPHRAGMS.



NORTH ABUTMENT PLAN REPAIR DETAILS

SCALE: ½" = 1'-0"

CONSTRUCTION PROCEDURE (CONCRETE BEAM END REPAIRS)

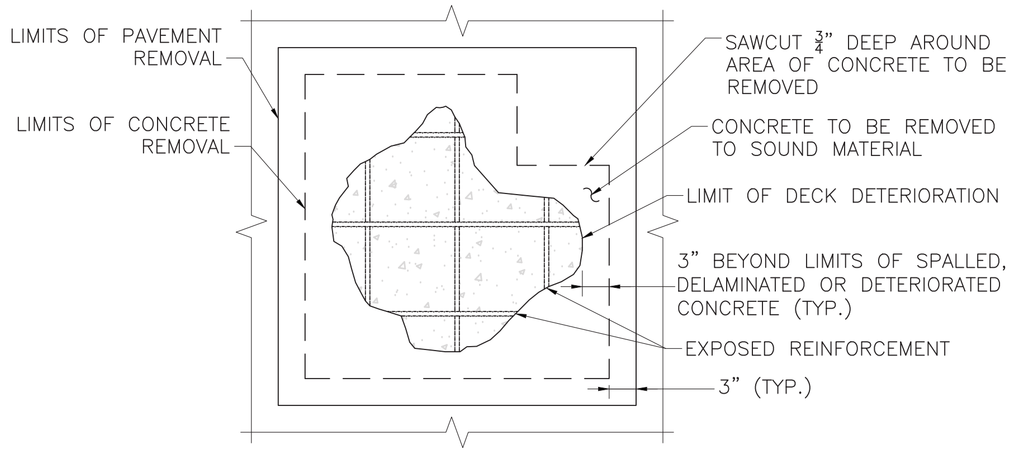
1. REFER TO SHEET 4 FOR STEEL BEAM END REPAIR DETAILS. STEEL REPAIRS SHALL BE COMPLETED PRIOR TO CONCRETE BEAM END REPAIRS.
2. THE EXISTING CONCRETE BRIDGE SEATS, BACKWALLS, EXISTING CONCRETE ENCASED DIAPHRAGMS, AND STRUCTURAL STEEL SHALL BE CLEANED PRIOR TO PLACEMENT OF THE BEAM END ENCASEMENT. ALL DEBRIS AND DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE BEAM SEAT AND CONCRETE END DIAPHRAGMS. THE EXISTING STRUCTURAL STEEL SHALL BE POWER TOOL CLEANED TO REMOVE ALL LOOSE RUST AND PAINT. TIGHTLY ADHERING PAINT DOES NOT NEED TO BE REMOVED.
3. PRIOR TO PLACEMENT OF THE BEAM END ENCASEMENT, EXPANDED POLYSTYRENE SHALL BE ATTACHED WITH ADHESIVE TO ALL SURFACES OF THE BACKWALLS AND BEAM SEATS. THE CONTRACTOR SHALL INSURE THAT ALL THE EXISTING ABUTMENT CONCRETE IS PROPERLY LINED WITH EXPANDED POLYSTYRENE SO THAT THE ENCASEMENT CONCRETE DOES NOT COME IN CONTACT WITH EXISTING ABUTMENT CONCRETE.
4. CEMENT CONCRETE SHALL BE 5000 PSI, ⅜", 710 HP CEMENT CONCRETE WITH A 7" ±1" SLUMP FROM A MASSDOT APPROVED PRODUCER. MIX DESIGN SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO PLACEMENT.
5. CEMENT CONCRETE CONSOLIDATION SHALL BE ACHIEVED USING CONCRETE PENCIL VIBRATORS THAT ARE INSERTED THRU OPENINGS IN THE TOP OF FORMS. A MINIMUM OF TWO CONCRETE PENCIL VIBRATORS SHALL BE ON-SITE DURING CONCRETE PLACEMENT.
6. THE CONTRACTOR'S MEANS AND METHODS OF CONTAINING AND DISPOSING DEBRIS AND OBTAINING ACCESS TO THE BEAM ENDS TO BE ENCASED SHALL BE CONSIDERED INCIDENTAL TO THE WORK WITHOUT SEPARATE COMPENSATION. THE CONTRACTOR SHALL INSTALL A SHIELDING AND CONTAINMENT SYSTEM PRIOR TO PERFORMING THE CLEANING OF THE STEEL SURFACES TO BE ENCASED IN ORDER TO COLLECT ALL LOOSE PAINT, DEBRIS, AND PARTICLES.
7. THE CONTRACTOR SHALL SUBMIT THE PROPOSED METHOD OF DELIVERING THE CONCRETE INTO THE FORM WORK, EXCAVATING A 5" DIAMETER HOLE THROUGH THE DECK IS ACCEPTABLE AS LONG AS IT IS PATCHED IN ACCORDANCE WITH THE FULL DEPTH REPAIR DETAILS ON SHEET 6.

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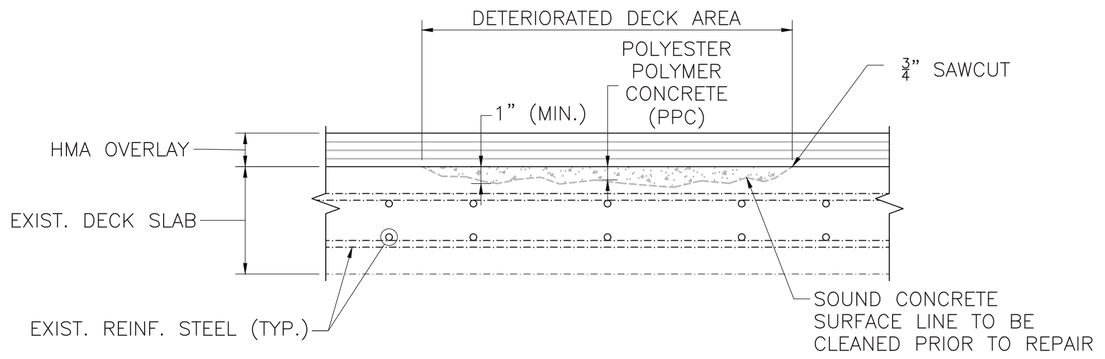
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	6	9
PROJECT FILE NO.	616286		

DECK REPAIRS



LIMITS OF REPAIR AREA

SCALE: 1" = 1'–0"

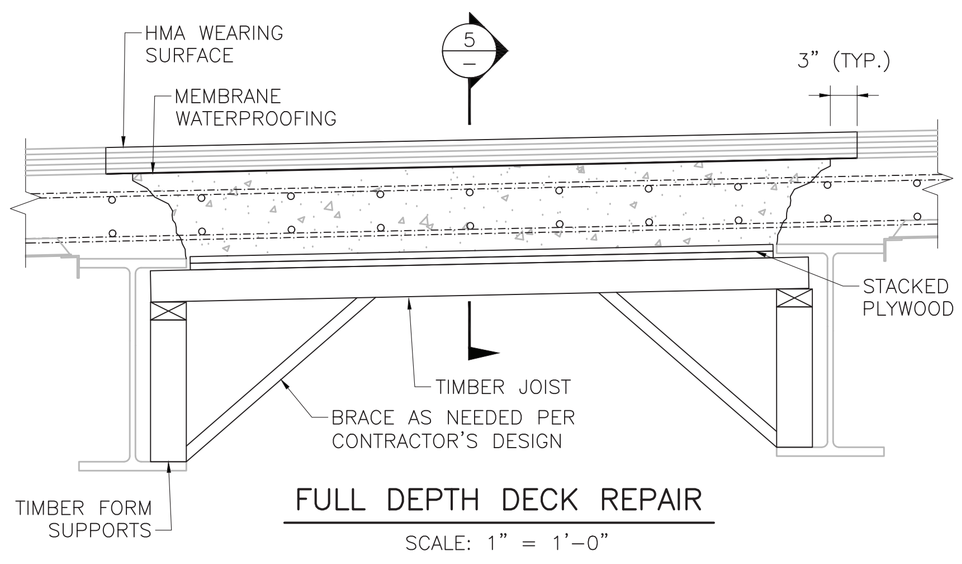


TYPICAL MINOR SPALL REPAIR

SCALE: 1½" = 1'–0"

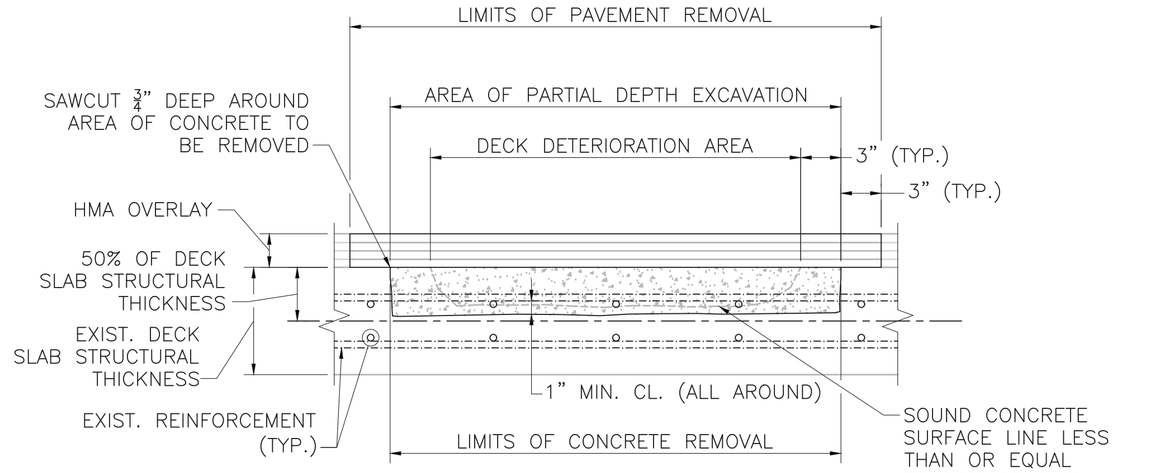
NOTE:

1. IF REINFORCING BARS ARE EXPOSED, THEN COMPETE REPAIR AS A PARTIAL DEPTH REPAIR WITH 1" EXCAVATED BENEATH THE EXPOSED BARS.



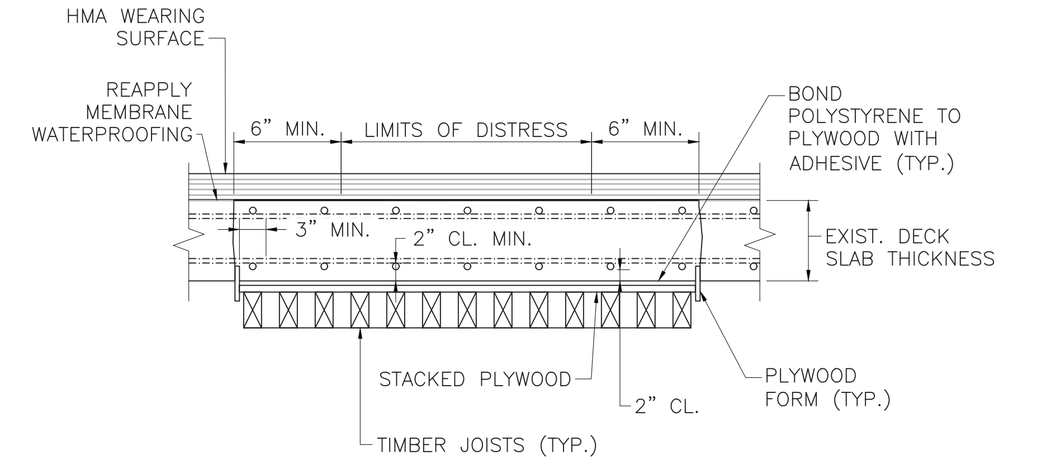
FULL DEPTH DECK REPAIR

SCALE: 1" = 1'–0"



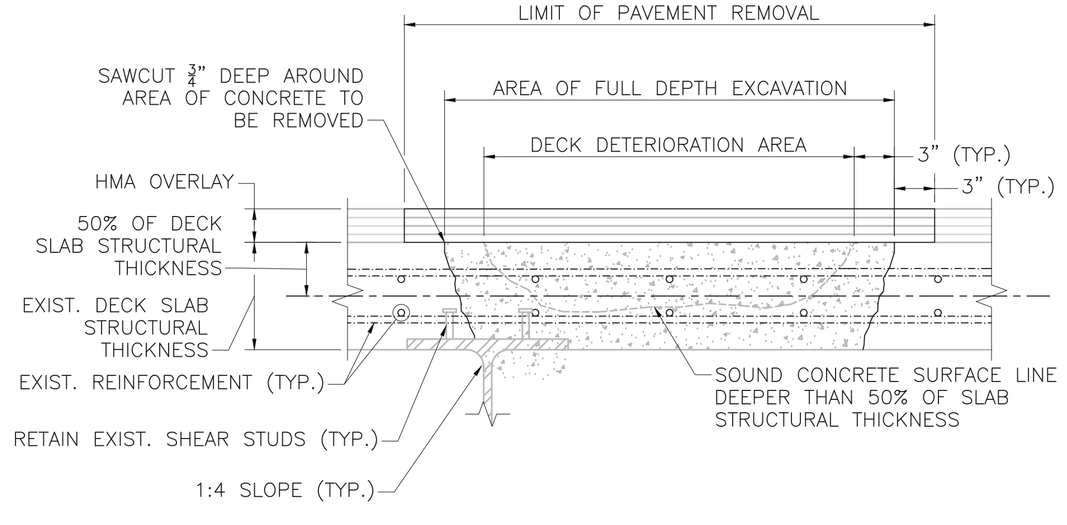
PARTIAL DEPTH DECK REPAIR DETAIL

SCALE: 1½" = 1'–0"



FULL DECK REPAIR SECTION (5 / –)

SCALE: 1" = 1'–0"

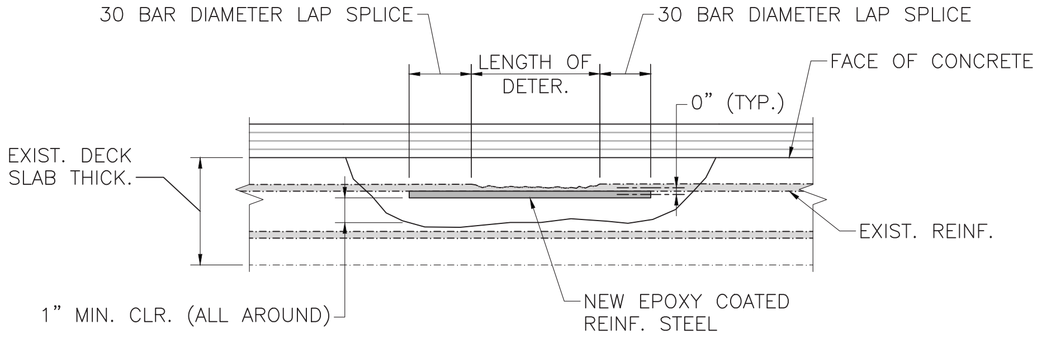


FULL DEPTH DECK REPAIR DETAIL

SCALE: 1½" = 1'–0"

NOTE:

1. DECK FORMS SHALL BE INSTALLED FLUSH WITH EXISTING DECK UNDERSIDE AND SHALL BE REMOVED AFTER CURING IS COMPLETE.



TYPICAL DETERIORATED REINFORCEMENT STEEL REPAIR

SCALE: 1½" = 1'–0"

DECK REPAIR NOTES:

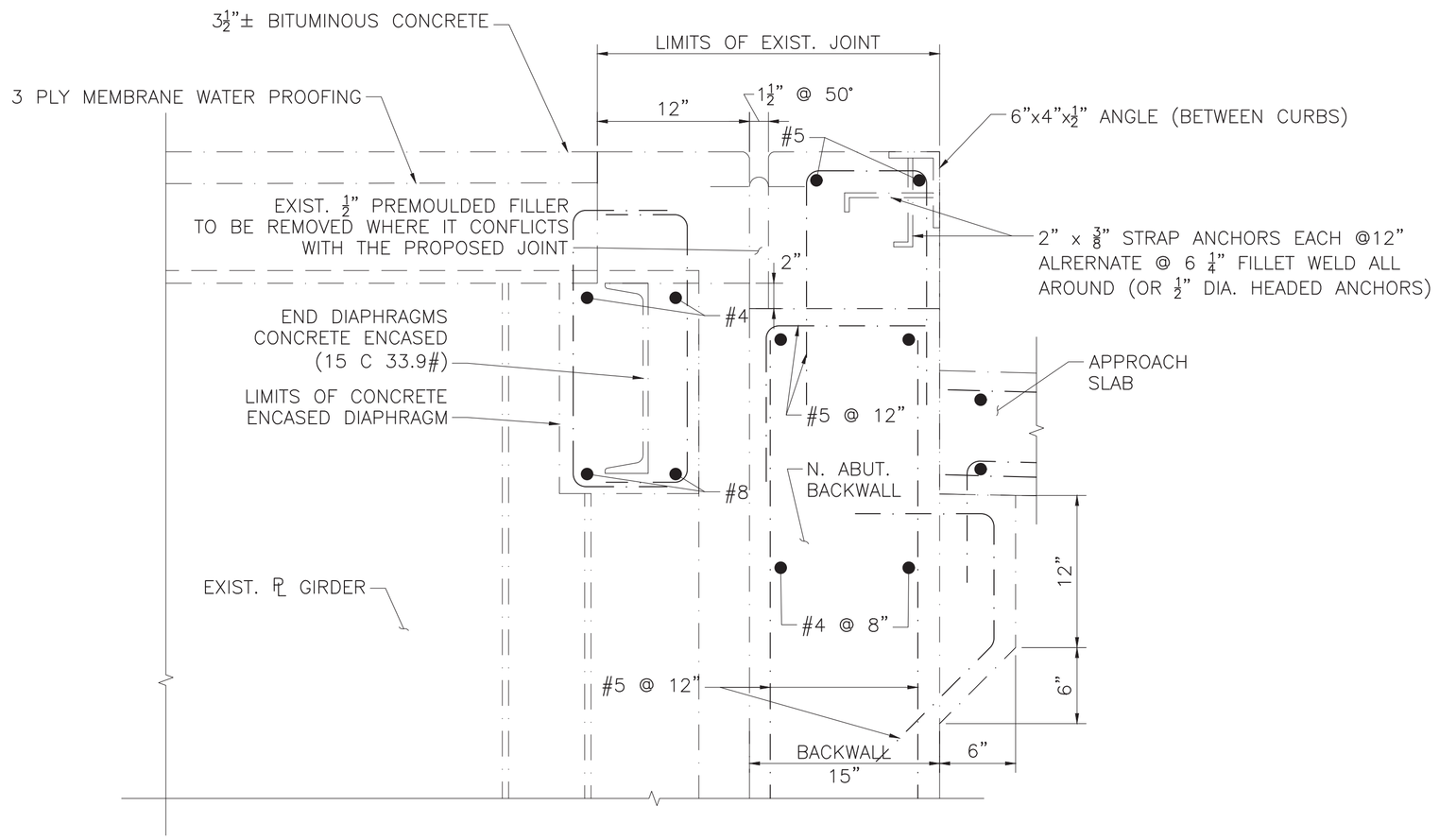
1. MINOR SPALL REPAIRS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 106.493 – POLYESTER POLYMER CONCRETE FOR TOPSIDE DECK REPAIRS. MATERIALS, SURFACE PREPARATION, AND APPLICATION SHALL CONFORM TO THE STANDARD SPECIFICATIONS. REPAIR LIMITS SHALL BE AS DIRECTED BY THE ENGINEER.
2. FULL–DEPTH AND PARTIAL–DEPTH BRIDGE DECK REPAIRS (WHEN THE BRIDGE IS CLOSED TO TRAFFIC) SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 909.5 – RAPID HARDENING CEMENTITIOUS PRODUCTS FOR REPAIRS. CONCRETE PLACEMENT, FINISHING, AND CURING SHALL CONFORM TO THE STANDARD SPECIFICATIONS.
3. PARTIAL DEPTH REPAIRS SHALL BE PERFORMED WHERE THE DEPTH OF DETERIORATED CONCRETE EXTENDS LESS THAN OR EQUAL TO 50% OF THE THICKNESS OF THE EXISTING CONCRETE DECK. CONCRETE SHALL BE REMOVED TO A MINIMUM OF 1" BELOW THE BOTTOM OF THE TOP MAT OF EXISTING REINFORCING STEEL.
4. FULL DEPTH REPAIRS SHALL BE PERFORMED WHERE THE DEPTH OF DETERIORATED CONCRETE EXTENDS GREATER THAN 50% OF THE THICKNESS OF THE EXISTING CONCRETE DECK.
5. WHEN FULL DEPTH REPAIRS ARE REQUIRED IN THE DECK OVERHANGS, THE LENGTH OF REPAIR ALONG THE STRUCTURE SHOULD BE LIMITED TO 4'–0" LONG SEGMENTS.
6. THE TOP SURFACE OF THE DECK REPAIRS SHALL BE FINISHED FLUSH WITH THE ADJACENT TOP OF DECK SLAB AND SHALL MAINTAIN THE EXISTING GRADES AND CROSS SLOPES.
7. 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 SURFACES THAT WILL BE IN CONTACT WITH REPAIR CONCRETE SHALL BE PRE–WETTED FOR A MINIMUM OF 24 HOURS USING POTABLE WATER IN ORDER TO ACHIEVE A SATURATED SURFACE DRY CONDITION IMMEDIATELY PRIOR TO PLACEMENT OF REPAIR CONCRETE.
8. 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.

DECK REPAIR SEQUENCE (LOCALIZED REPAIRS):

1. REMOVE THE EXISTING PAVEMENT AND WATERPROOFING MEMBRANE FROM THE BRIDGE DECK TO THE LIMITS DIRECTED BY THE ENGINEER. THE PERIMETER OF THE EXCAVATED AREA SHALL BE SAWCUT PRIOR TO PAVEMENT REMOVAL.
2. COMPLETE THE EXCAVATION, SURFACE PREPARATION AND PLACEMENT OF ANY NEW REINFORCEMENT AND REPAIR CONCRETE IN ACCORDANCE WITH THE CONCRETE PATCHING SEQUENCE AND NOTES.
3. AFTER THE CONCRETE IS SUFFICIENTLY CURED, PAVE THE AREA WITH HOT MIX ASPHALT FOR MISCELLANEOUS WORK.
4. OPEN THE ROAD TO TRAFFIC AND ALLOW TO CURE FOR BETWEEN 14 AND 30 DAYS.
5. BETWEEN 14 AND 30 DAYS FROM THE PLACEMENT OF THE TEMPORARY PAVEMENT, REMOVE THE HOT MIX ASPHALT FOR MISCELLANEOUS WORK. THE PERIMETERS OF THE PATCH SHOULD BE SAWCUT PRIOR TO REMOVAL.
6. INSTALL THE WATERPROOFING MEMBRANE AND PAVE THE AREA WITH HMA FOR PATCHING. ALL QUALITY CONTROL ASSOCIATED WITH SUPERPAVE WILL BE REQUIRED.

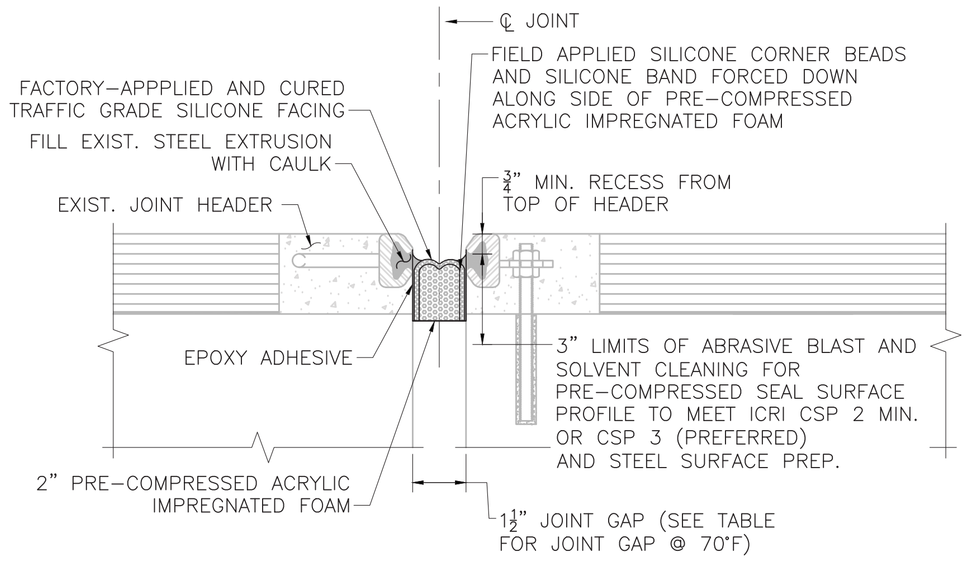
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EXISTING NORTH ABUTMENT SQUARE DETAIL

SCALE: 1½" = 1'–0"

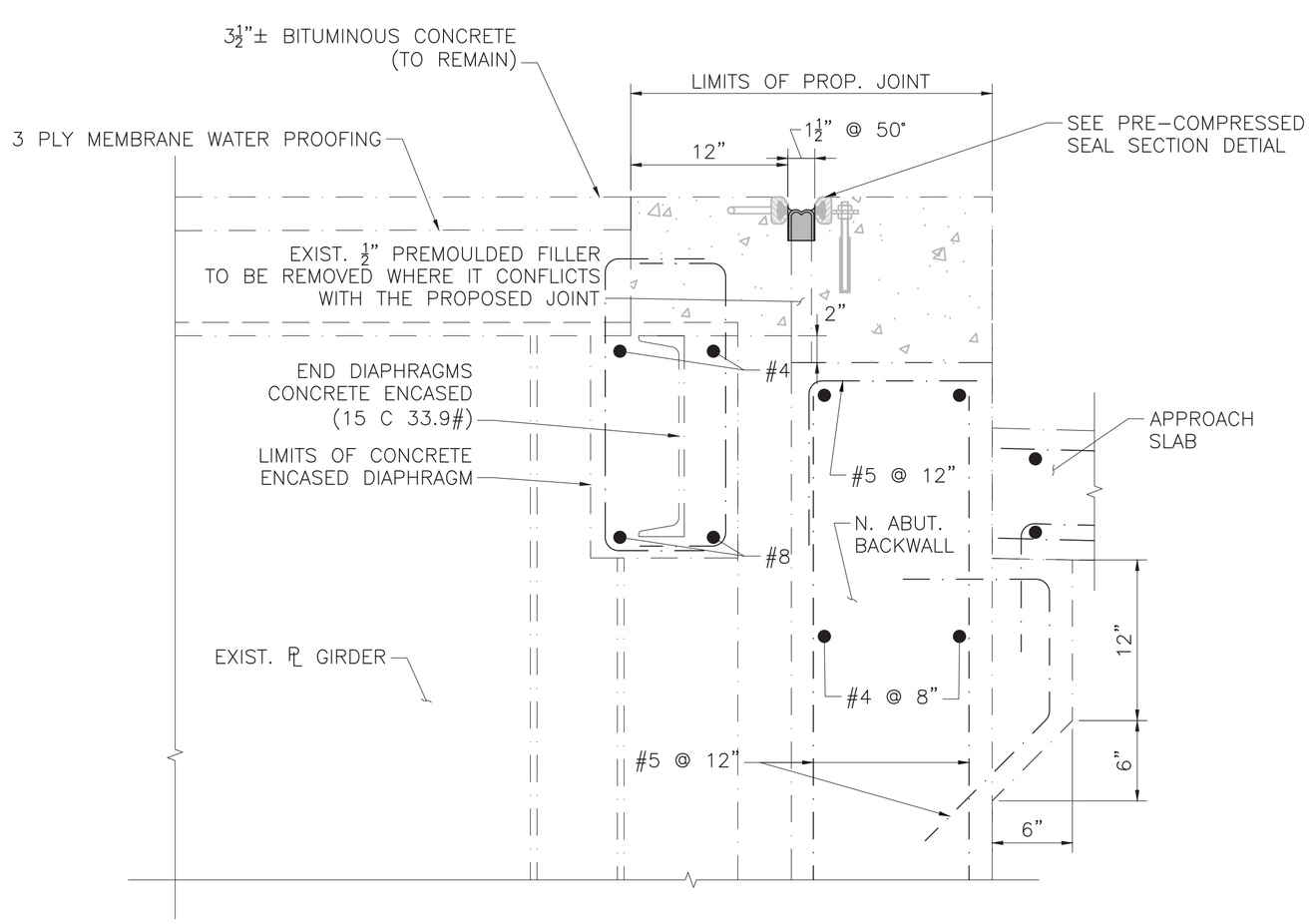


PROPOSED PRE–COMPRESSED SEAL SECTION

SCALE: 3" = 1'–0"

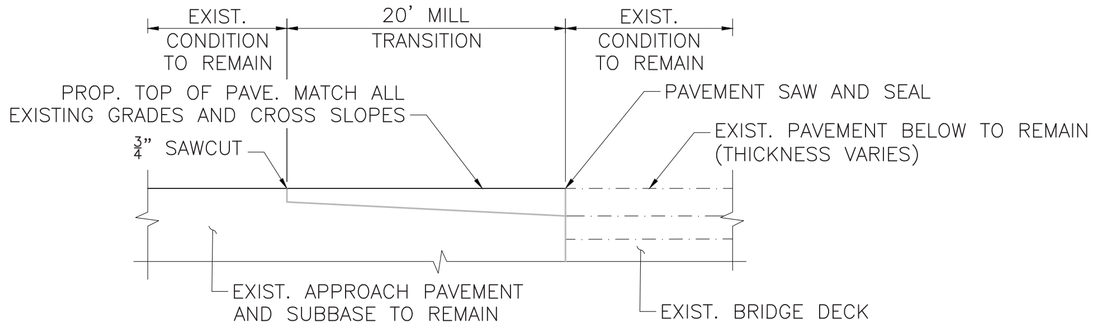
PRE–COMPRESSED JOINT NOTES:

1. THE INSTALLATION AND SPLICING OF THE PRE–COMPRESSED JOINT SYSTEM SHALL FOLLOW THE MANUFACTURER'S INSTRUCTIONS.
2. THE JOINT SYSTEM INSTALLATION SHALL TAKE PLACE AFTER THE CONCRETE ABUTTING THE JOINT SEAL HAS SUFFICIENTLY CURED.
3. 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.
4. THE PRE–COMPRESSED JOINT SYSTEM SHALL BE CONTINUOUS THROUGH SIDEWALKS CURBS, MEDIANS, AND PARAPETS AS APPROPRIATE TO THE CONDITIONS AT HAND. CONTINUITY OF THE SEAL SHALL BE ACHIEVED THROUGH THE USE OF FACTORY FABRICATED UNIVERSAL OR CUSTOM TRANSITIONS SUPPLIED BY THE PRE–COMPRESSED JOINT MANUFACTURER. THE FIELD SPLICING OF THE PRE–COMPRESSED JOINT SHALL BE DONE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
5. ALL JOINT WIDTH AND LENGTH DIMENSIONS SHALL BE FIELD MEASURED BY THE CONTRACTOR ALONG THE LENGTH OF EACH JOINT PRIOR TO THE INSTALLATION OF THE PRE–COMPRESSED JOINT SYSTEM.



PROPOSED NORTH ABUTMENT SQUARE DETAIL

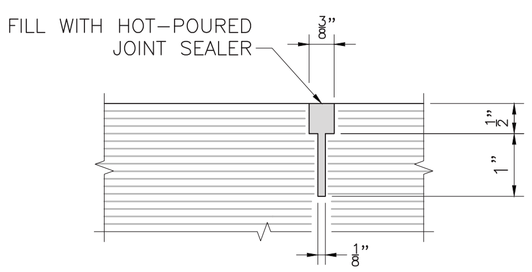
SCALE: 1½" = 1'–0"



PAVEMENT TRANSITION DETAIL

NOT TO SCALE

1. THE APPROACH ROADWAY SHALL BE MICRO–MILLED AND PAVED 20' FROM EACH END OF THE BRIDGE JOINT AS NOTED IN THE PAVEMENT TRANSITION DETAIL ABOVE.
2. PAVEMENT SAW AND SEAL JOINT ALONG THE END OF DECK LOCATIONS ON EACH END, AS SHOWN IN THE PAVEMENT SAWCUT DETAIL ON THIS SHEET.
3. ALL APPROACH PAVEMENT SHALL BE 1½" SUPERPAVE SURFACE COURSE – 125. (SSC – 12.5).



PAVEMENT SAWCUT DETAIL

NOT TO SCALE

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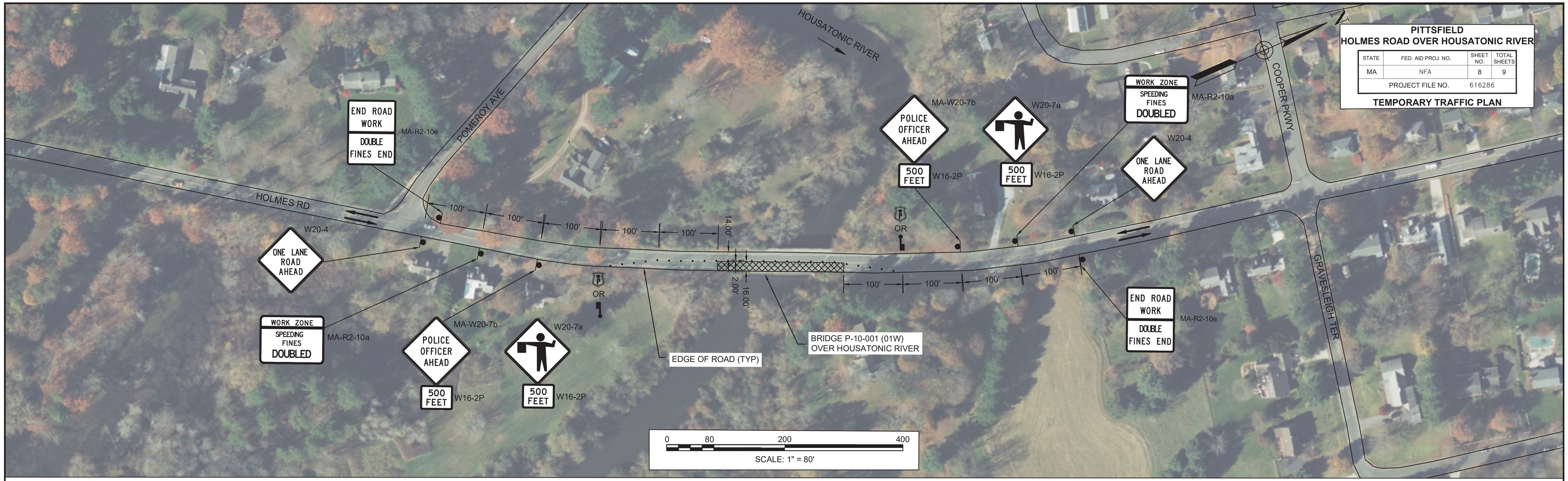
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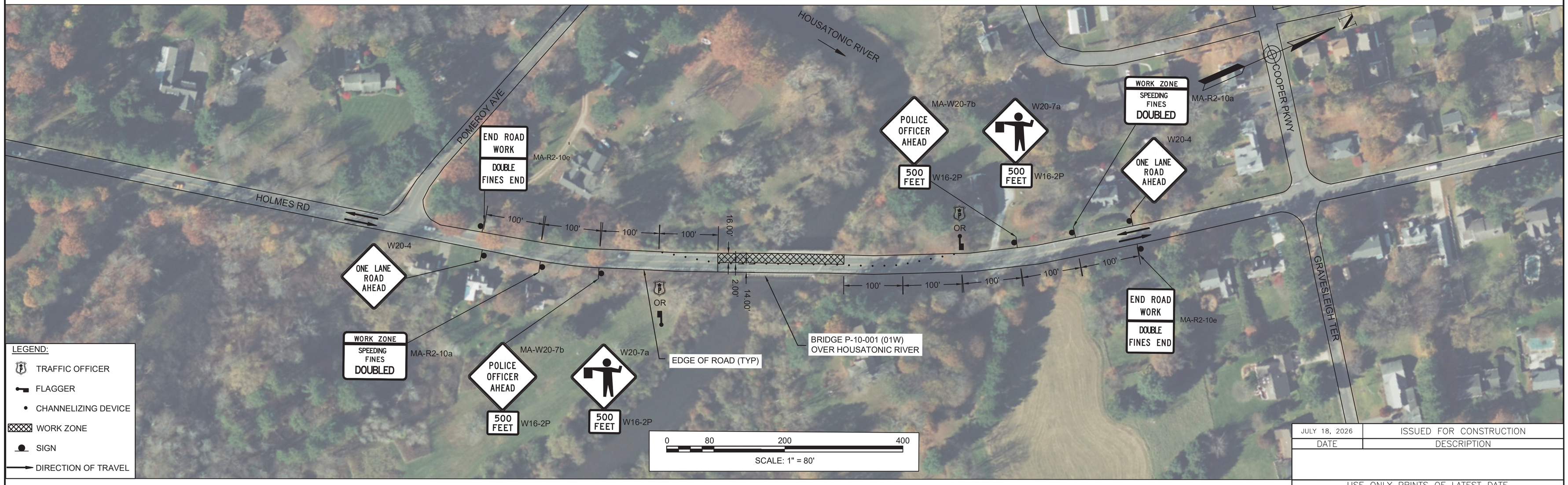
PITTSFIELD
HOLMES ROAD OVER HOUSATONIC RIVER

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	8	9
PROJECT FILE NO.	616286		

TEMPORARY TRAFFIC PLAN



ALTERNATING ONE WAY (TRAFFIC OFFICER/FLAGGER CONTROL) - PHASE 1



ALTERNATING ONE WAY (TRAFFIC OFFICER/FLAGGER CONTROL) - PHASE 2

DATE	DESCRIPTION
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SHEET 8 OF 9 SHEETS BRIDGE NO. P-10-001 (01W)

115768 P-10-001 ALT ONE-WAY FLAGGERS PHASE 1.DWG Plotted on 9-Jul-2026 2:50 PM
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PITTSFIELD
HOLMES ROAD OVER HOUSATONIC RIVER

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	9	9
PROJECT FILE NO. 616286			

SIGN SHEET

TRAFFIC SIGN SUMMARY - BRIDGE H-16-006 (04Y)

IDENTIFICATION NUMBER	SIZE OF SIGN (INCHES)		LEGEND	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			NUMBER OF SUPPORTS REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACKGROUND	LEGEND	BORDER			
MA-R2-10a	48	36	WORK ZONE / SPEEDING FINES DOUBLED	MASSDOT STANDARD SIGNS			2	ORANGE/ WHITE	BLACK	BLACK	4	12.0	24.0
MA-R2-10e	36	48	END ROAD WORK / DOUBLE FINES END				2	ORANGE/ WHITE	BLACK	BLACK	4	12.0	24.0
MA-W20-7b	36	36	POLICE OFFICER AHEAD				2	ORANGE	BLACK	BLACK	2	9.0	18.0
W16-2P	24	18	500 FEET	SEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES			2	ORANGE	BLACK	BLACK	Mounted below W16-2P/W20-4	3.0	6.0
W20-4	36	36	ONE LANE ROAD AHEAD				2	ORANGE	BLACK	BLACK	2	9.0	18.0
W20-7a	36	36					2*	ORANGE	BLACK	BLACK	2	9.0	18.0

* W20-4 ONLY TO BE QUANTIFIED IF FLAGGERS ARE USED IN THE PLACE OF TRAFFIC OFFICERS.

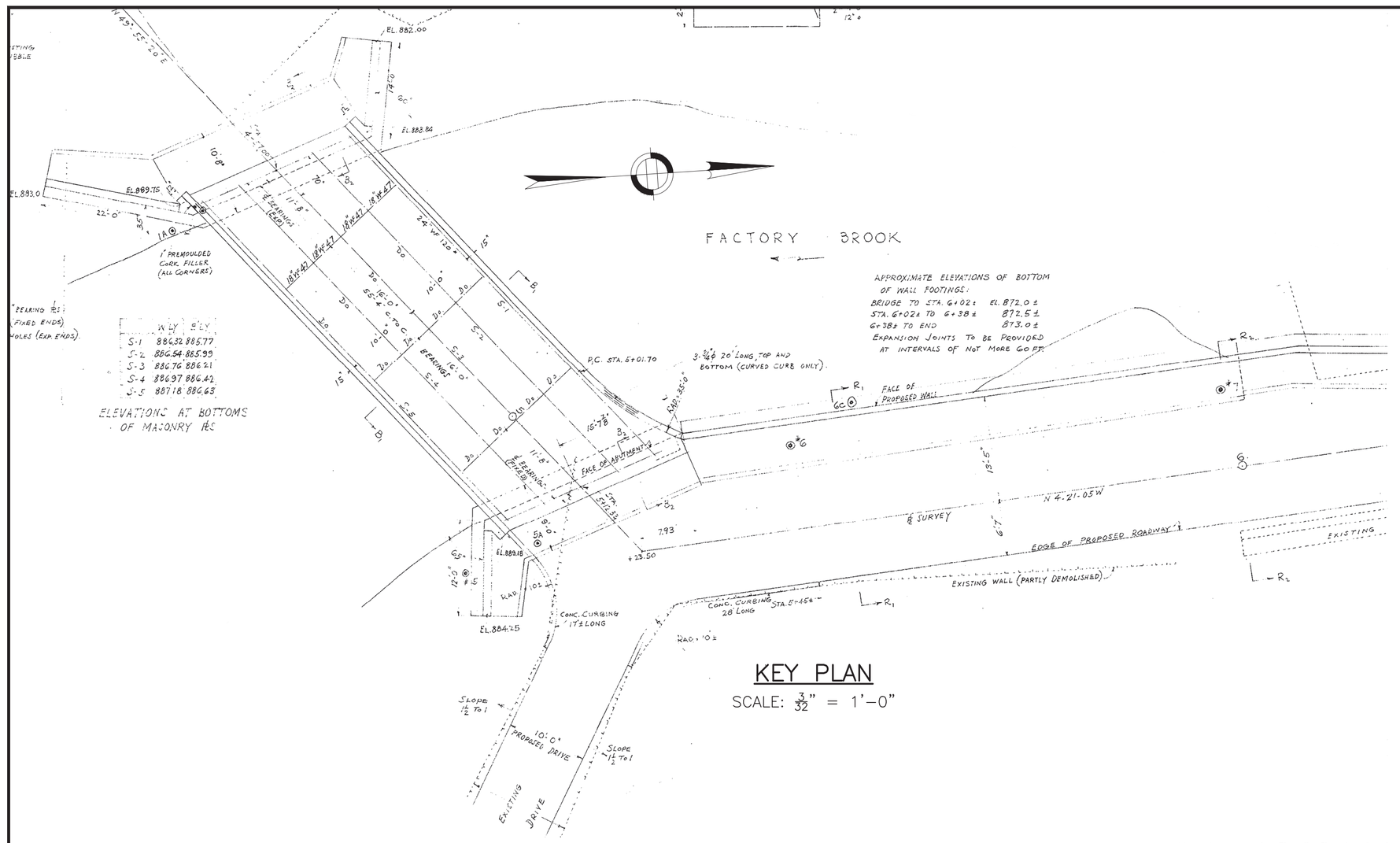
NOTES:

1. BEAM END REPAIRS SHALL BE COMPLETED USING HOLMES ROAD DRAFT TMP DATED 2/23/2026 PRIOR TO IMPLEMENTING THE TTCP ON SHEET 8 FOR ANY ADDITIONAL REPAIRS.
2. THE TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) ALL REVISIONS, UNLESS SUPERSEDED BY THESE PLANS.
3. ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH MUTCD.
4. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF THE WORK.
5. TEMPORARY CONSTRUCTION SIGNING, BARRICADES, AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC .
6. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, CHANNELIZING DEVICES, BARRIERS, AND CRASH ATENTUATORS MUST PAST THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR "MANUAL FOR ASSESSING SAFETY HARDWARE" (MASH).
7. CONTRACTORS SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS A CONDUIT INSTALLATION, EXISTING EXCAVATION, TEMPORARY DRIVEWAY PLACEMENT, AND SIMILAR OPERATIONS.
8. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
9. MAXIMUM SPACING OF THE TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
10. MINIMUM LANE WIDTH IS TO BE 11 FEET (14 FEET PREFERRED). MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS/CHANNELIZATION DEVICES.
11. ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.
12. THIS TTCP MAY BE APPLIED TO WORK ZONE ON OPPOSITE SIDE OF THE ROADWAY.
13. ROAD TO BE OPENED TO 2 LANES AT THE END OF EACH DAY.

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115768 P-10-001 ALT ONE-WAY FLAGGERS PHASE 1.DWG Plotted on 9-Jul-2026 2:50 PM
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Proposal No. 616282-135582



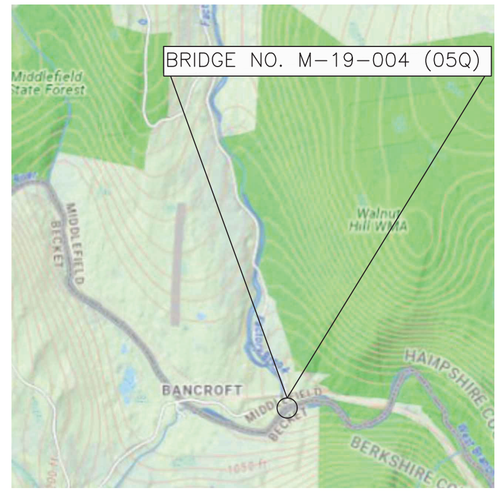
KEY PLAN

SCALE: $\frac{3}{32}$" = 1'-0"

PROFILE ALONG TOWN HILL ROAD

HORIZ. SCALE: 1" = 40'
VERT. SCALE: 1" = 8'-0"

ESTIMATED QUANTITIES (NOT GUARANTEED)			
ITEM	DESCRIPTION	QUANTITY	UNITS
106.493	POLYESTER POLYMER CONCRETE FOR TOPSIDE DECK REPAIRS	5	CY
107.97	STRUCTURAL STEEL REPAIRS	596	LB
127.1	REINFORCED CONCRETE EXCAVATION	2	CY
127.12	REINFORCED CONCRETE SUBSTRUCTURE EXCAVATION	1	CY
127.4	REINFORCED CONCRETE DECK EXCAVATION (FULL DEPTH)	9	SY
127.41	REINFORCED CONCRETE DECK EXCAVATION (PARTIAL DEPTH)	1	CY
226.37	CLEANING BRIDGE SEATS	48	FT
626.31	STEEL THRIE BEAM HIGHWAY GUARD (SINGLE FACED/SP BASE ANCHOR) W/STEEL HANDRAIL	111	FT
628.22	TRANSITION TO RIGID BARRIER (SINGLE FACED)	3	EA
628.25	TRANSITION TO THRIE BEAM	1	EA
905.2	5000 PSI, 3/8", 710 HP CEMENT CONCRETE	6	CY
910.1	STEEL REINFORCEMENT FOR STRUCTURES - EPOXY COATED	119	LB
912.	DRILLING AND GROUTING DOWELS	42	EA
994.1	TEMPORARY PROTECTIVE SHIELDING	215	SF
994.101	TEMPORARY PROTECTIVE SHIELDING (OUTSIDE FASCIA BEAM)	100	SF



LOCUS MAP

SCALE: 1" = 2000'

GENERAL NOTES:

1. GENERAL REPAIR DESIGN IN ACCORDANCE WITH THE 17TH EDITION OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES WITH INTERIM SPECIFICATIONS THROUGH 2002. THE BRIDGE WAS ORIGINALLY DESIGNED FOR H15 LOADING AND THE REPAIRS ARE INTENDED TO MEET OR EXCEED THAT DESIGN CAPACITY.
2. ALL WORK SCHEDULES, WILL BE PRE-APPROVED BY THE DEPARTMENT PRIOR TO BEGINNING WORK. WORK NECESSARY OUTSIDE OF NORMAL WORK HOURS BECAUSE OF TRAFFIC CONDITIONS, AS NOTED IN THE PLANS OR SPECIFICATIONS, WILL BE SUBMITTED TO MASSDOT FOR APPROVAL. ALL WORK PERFORMED WILL BE IN CONFORMANCE WITH THE MASSDOT NOISE ORDINANCES.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RELEVANT SECTIONS OF THE CURRENT MASSDOT "STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES", INCLUDING CURRENT SUPPLEMENTALS.
4. THESE DRAWINGS WERE FORMATTED FOR 24"x36" PLAN SHEETS. SCALES NOTED ON THE DRAWINGS ARE NOT APPLICABLE TO REDUCED SIZE PRINTS.
5. EXISTING STRUCTURE DIMENSIONS AND DETAILS ARE ACCORDING TO ORIGINAL CONSTRUCTION DRAWINGS, OBSERVATION, AND FIELD MEASUREMENTS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE AND ESTABLISH ALL DIMENSIONS AND EXISTING DETAILS NECESSARY FOR COMPLETION OF ALL WORK BY FIELD MEASUREMENT (I.E. BEARING LOCATIONS, EXISTING REPAIRS, ETC.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY AND ACCURACY THEREOF, AND SHALL NOT ORDER ANY MATERIAL OR COMMENCE ANY FABRICATION UNTIL THEY HAVE MADE THE REQUIRED MEASUREMENTS ON THE ACTUAL STRUCTURE AND THE EXTENT OF THE PROPOSED WORK HAS BEEN APPROVED BY THE ENGINEER.
6. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY NOT TO DAMAGE UTILITIES, EQUIPMENT, STRUCTURES, OR THOSE PORTIONS OF THE SUPERSTRUCTURE THAT ARE TO REMAIN IN PLACE, THAT ARE TO BE REUSED, OR THAT ARE TO REMAIN THE PROPERTY OF OTHERS. ANY PORTION OF THE SUPERSTRUCTURE AND SUBSTRUCTURE TO REMAIN WHICH BECOMES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR SHALL ASSUME ALL EXISTING COATINGS CONTAIN LEAD UNLESS OTHERWISE DETERMINED BY TESTING. ALL DEBRIS CREATED BY OPERATIONS SHALL BE PROPERLY CONTAINED AND DISPOSED OF.
8. TEMPORARY SHIELDING WILL BE PROVIDED TO PROTECT THE BROOK BENEATH THE BRIDGE FROM FALLING OR FLYING DEBRIS OR ANY TOOLS OR INCIDENTAL EQUIPMENT DURING ALL ACTIVITIES, INCLUDING STEEL REPAIR PLATE INSTALLATION, PREPARATION, CLEANING & PAINTING, ETC.
9. ALL STRUCTURAL STEEL PLATES AND ANGLES SHALL CONFORM TO AASHTO M270 AND/OR DUAL CERTIFIED WITH ASTM A709, GRADE 36 OR 50 DESIGNATION. CHARPY V-NOTCH TESTING IS REQUIRED FOR MAIN MEMBER REPAIR, ACCORDING TO MASSDOT STANDARD SPECIFICATIONS. ALL NEW STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 111.
10. ALL BOLTS AND RELATED HARDWARE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M164 (ASTM F3125 GRADE A325), UNLESS OTHERWISE NOTED. ALL NEW BOLTS SHALL BE $\frac{7}{8}$"ø HIGH STRENGTH BOLTS IN $\frac{15}{16}$"ø HOLES, WITH MINIMUM 1½" EDGE DISTANCE AND 3" CENTER TO CENTER MINIMUM SPACING UNLESS NOTED OTHERWISE. ALL BOLT SIZES AND BOLT TYPES TO BE USED SHALL BE LABELED ON SHOP DRAWINGS. NEW BOLTS AND NUTS SHALL BE GALVANIZED.
11. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31 GRADE 60 EPOXY COATED.
12. PRIOR TO THE INSTALLATION OF ANY NEW STEEL, AREAS OF EXISTING STEEL THAT ARE TO RECEIVE NEW STEEL SHALL BE THOROUGHLY CLEANED OF ALL PAINT, RUST, SCALE, OIL, GREASE, AND OTHER DELETERIOUS MATERIAL IN ACCORDANCE WITH SSPC-SP 1 OR SSPC-SP 3, AS APPLICABLE. CLEANED SURFACES SHALL BE PREPARED TO A POWER TOOL CLEANED CONDITION (SSPC-SP 3) WHERE REQUIRED AND SHALL RECEIVE A PRIME COAT OF PAINT IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS PRIOR TO INSTALLATION OF NEW STEEL.
13. NO REPAIRS SHALL COMMENCE UNTIL ALL MATERIALS (EXCLUDING CONCRETE) ARE ON HAND FOR THE REPAIR. THIS INCLUDES TRANSFER OF EXISTING HOLE LOCATIONS TO NEW STEEL AND COMPLETION OF SUB DRILLED/PUNCHED HOLES.
14. ALL HOLES IN THE NEW STEEL SHALL BE SUB DRILLED (OR SUB PUNCHED) TO $\frac{11}{16}$"ø AND REAMED FULL SIZE WITH ALL PLIES OF THE CONNECTION OR REPAIR IN PLACE.
15. FIELD DRILLING OF NEW HOLES IN THE EXISTING AND NEW STEEL, FOR INSTALLATION OF HIGH STRENGTH BOLTS, SHALL BE DRILLED 1/16" LARGER THAN THE BOLT DIAMETER. BURNING OR PUNCHING OF HOLES WILL NOT BE ALLOWED.
16. EPOXY COMPOUND FOR STRUCTURAL STEEL REPAIRS SHALL BE A SOLVENT FREE, MOISTURE TOLERANT, EPOXY PASTE ADHESIVE SYSTEM. THE EPOXY PASTE SHALL BE DEVELOPED SPECIFICALLY FOR FILLING, SMOOTHING, SEALING, OR FAIRING APPLICATIONS ON METALS. THE PASTE SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S LATEST WRITTEN INSTRUCTIONS.
17. CLEARING AND GRUBBING ITEM 101. PAY LIMITS SHALL NOT EXCEED 0.15 ACRE PER STRUCTURE UNLESS OTHERWISE DIRECTED BY THE ENGINEER AND ALL CLEARING AND GRUBBING REQUIRED BEYOND THESE LIMITS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND SHALL NOT BE PAID FOR SEPARATELY.

MIDDLEFIELD
TOWN HILL ROAD OVER FACTORY BROOK

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GENERAL NOTES, LOCUS, PROFILE, AND INDEX

INDEX OF SHEETS

1. GENERAL NOTES, LOCUS, PROFILE AND INDEX
2. FRAMING PLAN & TYPICAL CROSS SECTION
3. GENERAL PLAN
4. STEEL BEAM END REPAIR DETAILS
5. DECK & WINGWALL REPAIRS
6. MISCELLANEOUS DETAILS
7. THRIE BEAM DETAILS
8. DETOUR PLAN
9. SIGN SHEET

JULY 18, 2026 | ISSUED FOR CONSTRUCTION

MassDOT Massachusetts Department of Transportation Highway Division

PROPOSED BRIDGE PRESERVATION
DISTRICT 1 - MULTIPLE LOCATIONS
TOWN HILL ROAD
OVER FACTORY BROOK
MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION
10 PARK PLAZA BOSTON, MASS

H&H
ONE WASHINGTON MALL
SUITE 1602
BOSTON, MA 02108
(617) 268-2017

SHEET 1 OF 9 SHEETS BRIDGE NO. M-19-004 (05Q)

M-19-004 (05Q).DWG Plotted on 1-Jul-2026 10:04 AM
A00803 - 27
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DATE	DESCRIPTION
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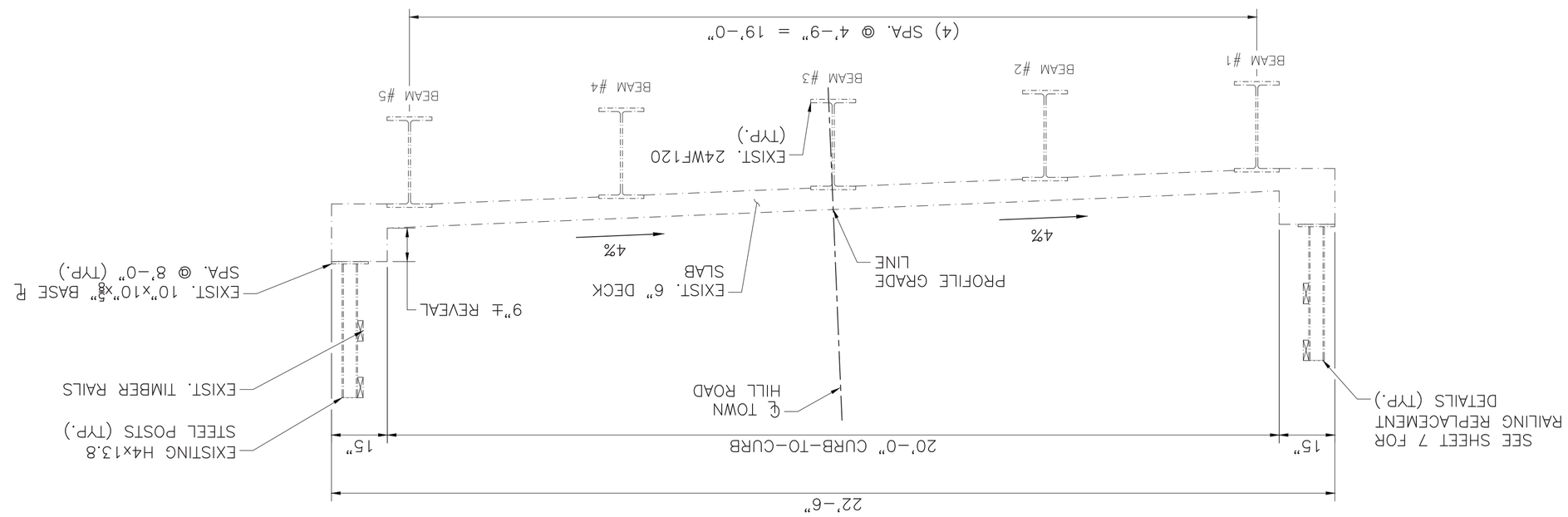
A00803 - 28

M-19-004 (050).DWG Plotted on 1-Jul-2026 10:04 AM

Proposal No. 616282-135582

EXISTING TYPICAL CROSS-SECTION
(LOOKING EAST)

SCALE: $\frac{1}{2}$" = 1'-0"

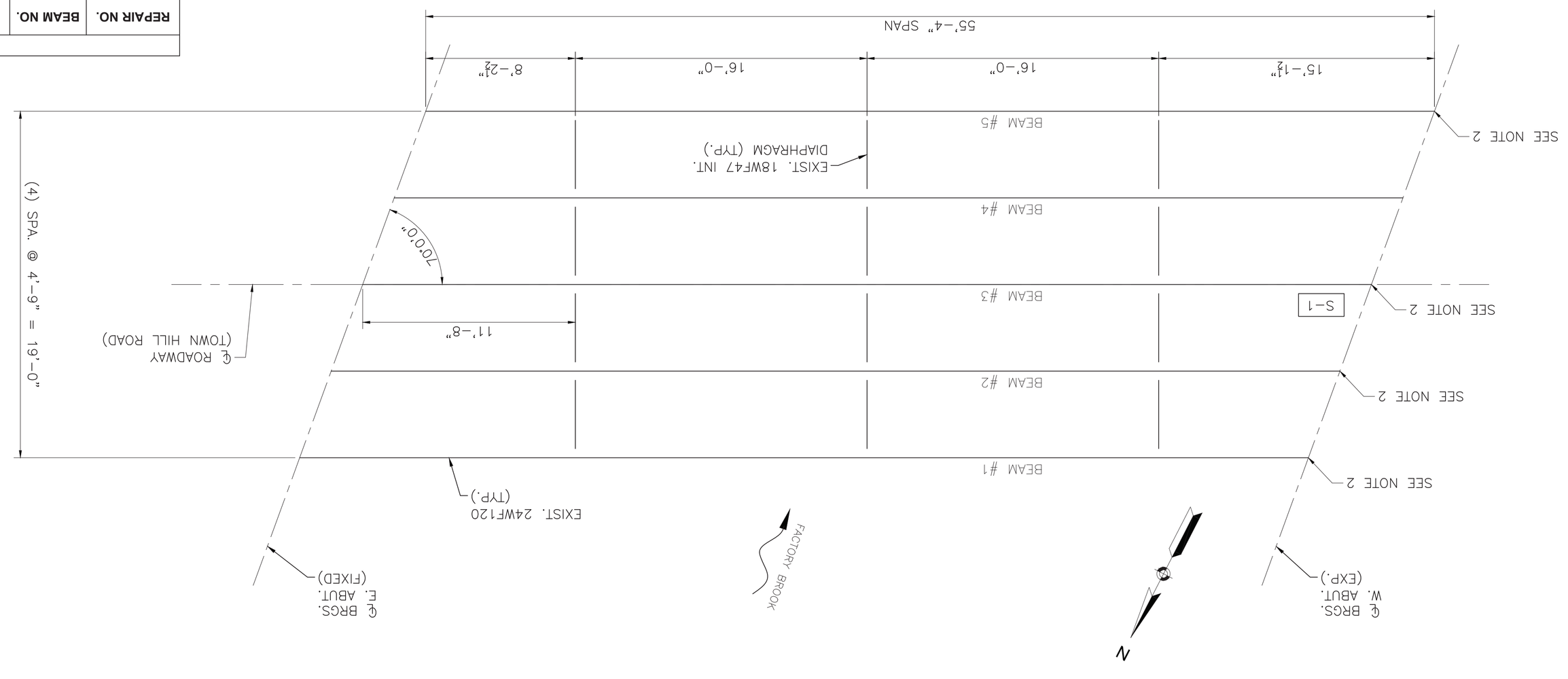


FRAMING PLAN

SCALE: $\frac{1}{4}$" = 1'-0"

NOTES:

1. THIS STRUCTURE DOES NOT CONTAIN END DIAPHRAGMS.
2. LOCATION OF PROPOSED BEARING KEEPER PLATE (SEE DETAILS ON SHEET 5). THIS WORK SHALL BE PAID UNDER ITEM 107.97 – STRUCTURAL STEEL REPAIRS.



SUPERSTRUCTURE - SCHEDULE OF REPAIRS (STEEL REPAIRS)

REPAIR NO.	BEAM NO.	LOCATION	BEAM SIZE	W. ABUTMENT	B3	S-1
NOTES	REPAIR HEIGHT (IN.)	REPAIR LENGTH (IN.)	JACKING REQUIRED	SHORING REQUIRED	24WF120	NO
SEE SHEET 4 FOR DETAILS	VARIES	33	NO	NO	24WF120	NO

MIDDLEFIELD
TOWN HILL ROAD OVER FACTORY BROOK

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FRAMING PLAN & TYPICAL CROSS SECTION

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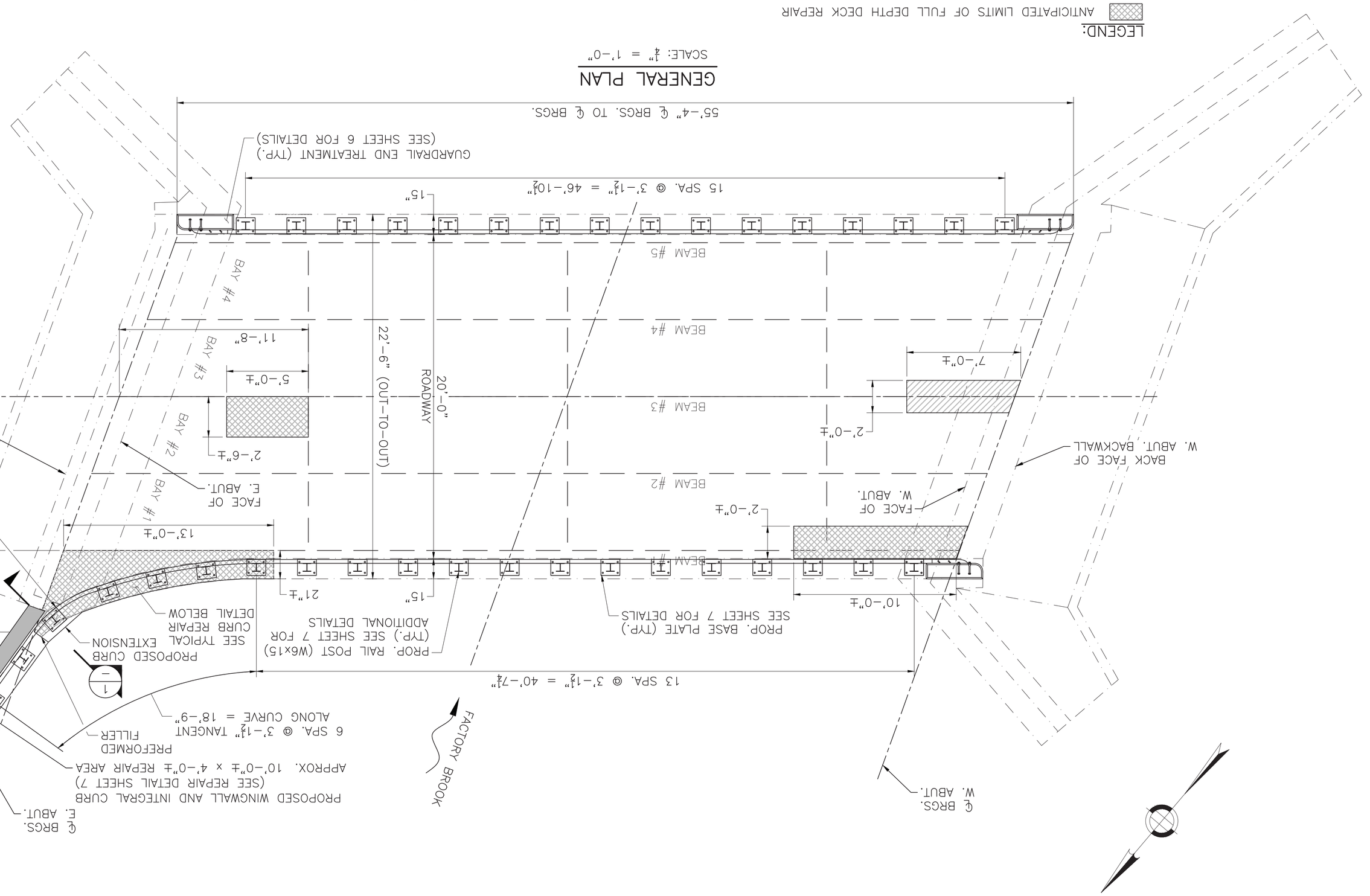
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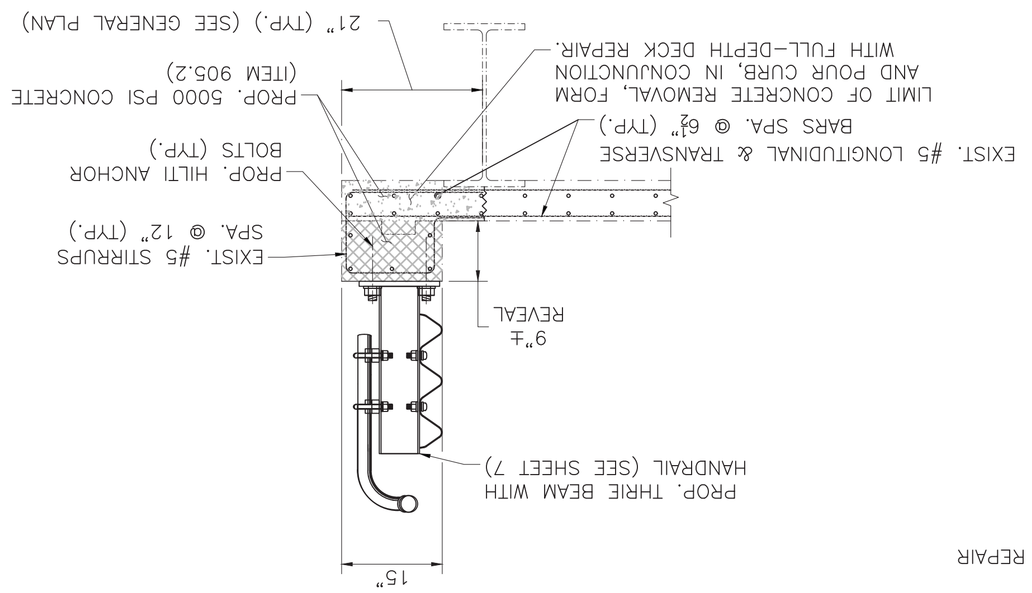
GENERAL PLAN

SCALE: $\frac{3}{32}$" = 1'–0"



TYPICAL CURB REPAIR

SCALE: $\frac{3}{4}$" = 1'–0"



NOTE:
1. SEE SHEET 5 FOR DECK REPAIR, SURFACE PREPARATION, AND REINFORCEMENT NOTES.

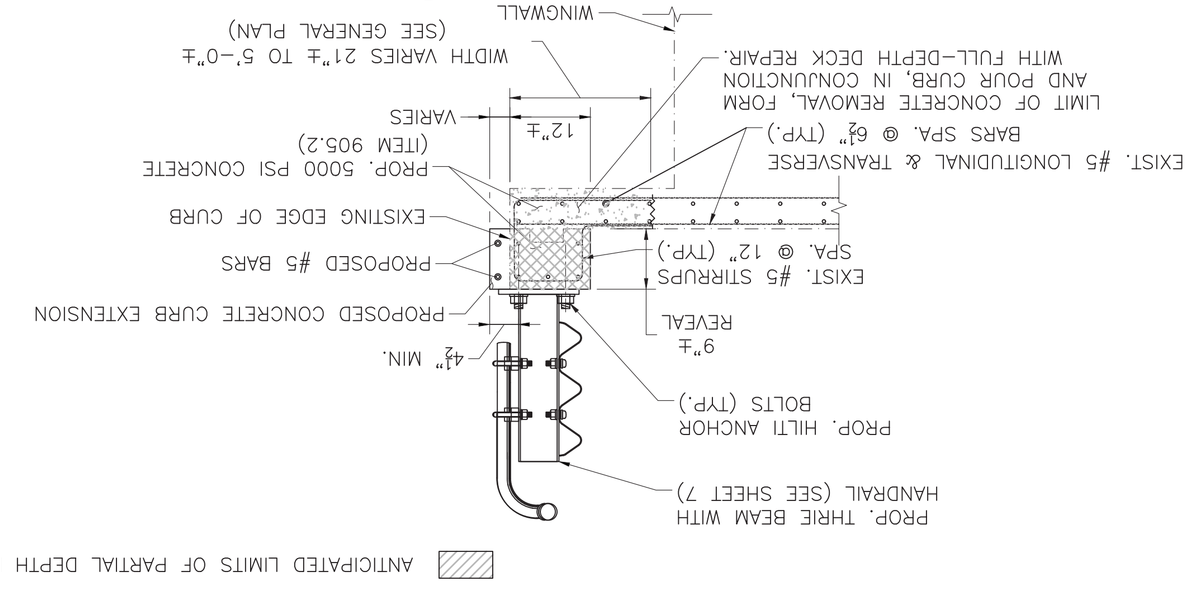
LEGEND:

ANTICIPATED LIMITS OF FULL DEPTH DECK REPAIR

ANTICIPATED LIMITS OF PARTIAL DEPTH DECK REPAIR

SECTION

SCALE: $\frac{3}{4}$" = 1'–0"



DECK REPAIR NOTES:

1. SEE SHEET 5 FOR FULL–DEPTH AND PARTIAL–DEPTH DECK REPAIR DETAILS AND ADDITIONAL REQUIREMENTS.
2. SEE SHEET 5 FOR WINGWALL REPAIR DETAILS.
3. EXISTING GUARDRAIL AND POSTS TO BE REMOVED AND DISPOSED. EXISTING ANCHOR BOLTS TO BE CUT FLUSH WITH THE TOP OF THE CONCRETE CURB AND DISPOSED.
4. SEE SHEET 6 & 7 FOR GUARDRAIL AND HANDRAIL REPLACEMENT DETAILS
5. BASE PLATE ANCHORS TO BE ⅞"ø x 10" B7 THREADED ROD SECURED WITH HILTI HIT–RE 500 V3 EPOXY ADHESIVE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. 7¾" EMBEDMENT REQUIRED ON EACH ANCHOR.

MIDDLEFIELD
TOWN HILL ROAD OVER FACTORY BROOK

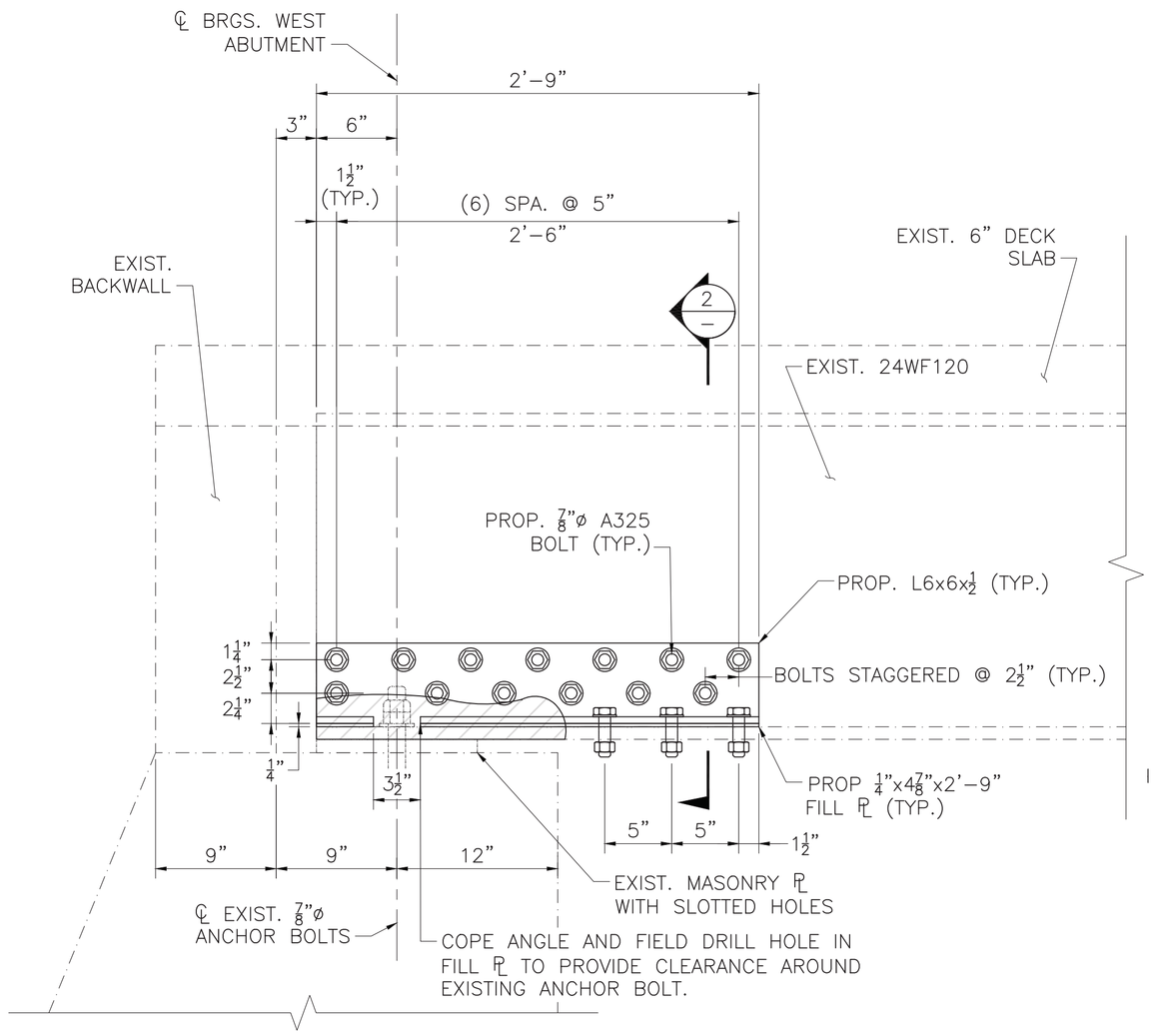
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	3	9
PROJECT FILE NO. 616286			

GENERAL PLAN

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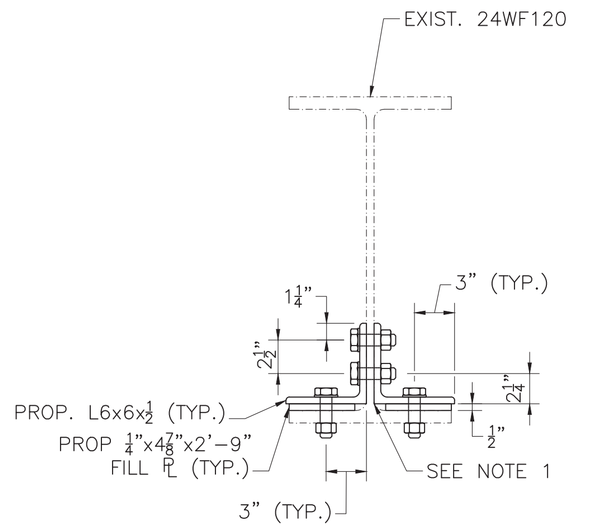
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	4	9
	PROJECT FILE NO. 616286		

STEEL BEAM END REPAIR DETAILS



BEAM 3 REPAIR S–1 DETAILS

SCALE: 1½" = 1'–0"



SECTION 2 / –

SCALE: 1½" = 1'–0"

NOTES:

1. GRIND HEEL OF ANGLE OR END OF PLATE AS NECESSARY TO CLEAR FILLETS OF EXISTING MEMBERS.

LEGEND:

APPROXIMATE AREA OF SECTION LOSS

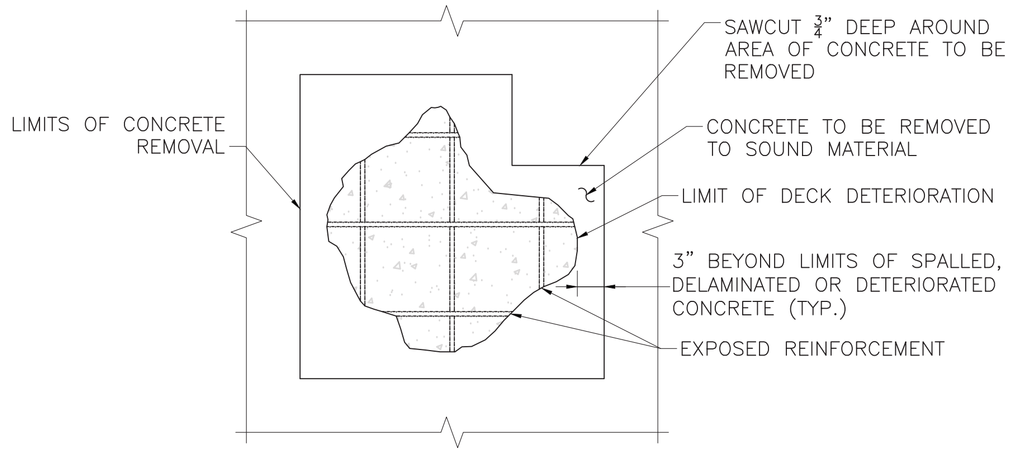
◎ NEW H.S. BOLT IN NEW HOLE

STEEL REPAIR NOTES:

1. CLEAN THE CONTACT SURFACES OF EXISTING STEEL IN ACCORDANCE WITH SPECIAL PROVISIONS. THE CONTACT SURFACES SHALL BE FREE OF CONTAMINATES, OIL, AND GREASE.
2. STEEL IS TO BE PRIMED AFTER CLEANING AND PRIOR TO INSTALLATION OF ANY REPAIR MEMBERS. SEE GENERAL NOTES.
3. ENGINEER TO INSPECT CLEANED REPAIR AREA AND VERIFY REPAIR LIMITS BASED ON CONDITIONS EXPOSED BY CLEANING.
4. THE BEAM SHALL BE INSPECTED FOR DAMAGE DUE TO CONTRACTOR OPERATIONS. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTORS' EXPENSE.
5. THE CONTRACTOR SHALL INSTALL FLANGE BOLTS AND CLAMP AREAS WHERE FLANGE BOLTS ARE NOT REQUIRED PRIOR TO DRILLING HOLES FOR WEB BOLTS.
6. FIELD DRILL HOLES IN BEAM WEB TO MATCH HOLE PATTERN IN FABRICATED ANGLE CONNECTION AND WEB REPAIR PLATES.
7. IN LOCATIONS WHERE HEAVY DETERIORATION HAS OCCURRED OR AS DIRECTED BY THE ENGINEER, EPOXY REPAIR FAIRING COMPOUND SHALL BE APPLIED OVER THE PRIME COAT AS FOLLOWS:
   A. THE EPOXY REPAIR COMPOUND SHALL BE APPLIED TO THE DETERIORATED AREAS (WEB & FLANGE WHERE NEW PLATES ARE TO BE INSTALLED) IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL THE METHODS, PROCEDURES, AND MATERIALS TO BE USED FOR THE WORK.
   B. THE REPAIR COMPOUND SHALL ONLY BE APPLIED TO THOSE AREAS OF THE EXISTING STEEL THAT EXHIBIT SEVERE SECTION LOSS TO COMPLETELY FILL THE IRREGULARITIES IN THE EXISTING STEEL SURFACES SUCH THAT NO VOIDS REMAIN BETWEEN THE PLIES OF THE EXISTING STEEL AND THE PROPOSED STRENGTHENING STEEL IN THE FINAL REPAIRED CONDITION.
   C. THE PROPOSED REPAIR STEEL SHALL BE PROPERLY POSITIONED AND BROUGHT INTO FIRM CONTACT WITHIN THE WORKING TIME LIMITS OF THE EPOXY REPAIR COMPOUND. THE REPAIR STEEL SHALL BE SECURED IN PLACE USING POSITIONING BOLTS TENSIONED TO A SNUG TIGHT CONDITION AND CLAMPS OR OTHER MECHANICAL MEANS TO BRING THE PLIES OF THE EXISTING STEEL AND NEW STEEL INTO FIRM CONTACT. WELDING IS NOT ALLOWED.
   D. ONCE THE PROPOSED STEEL HAS BEEN SECURED INTO POSITION WITH THE POSITIONING BOLTS, AND THE EPOXY COMPOUND HAS CURED, THE REMAINING H.S. BOLTS SHALL BE INSTALLED FOLLOWING THE PROCEDURE OUTLINED IN THE GENERAL NOTES.
   E. EPOXY COMPOUND FOR STRUCTURAL STEEL REPAIRS SHALL BE A SOLVENT FREE, MOISTURE TOLERANT, EPOXY PASTE ADHESIVE SYSTEM. THE EPOXY PASTE SHALL BE DEVELOPED SPECIFICALLY FOR FILLING, SMOOTHING, SEALING, OR FAIRING APPLICATIONS ON METALS. THE PASTE SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S LATEST WRITTEN INSTRUCTIONS. AN ACCEPTABLE PRODUCT SHALL BE ONE OF THE FOLLOWING OR AN APPROVED EQUAL: TW PHILADELPHIA RESINS REPAIR COMPOUND MANUFACTURED BY: ITW PHILADELPHIA RESINS, SIKADUR 31, HI–MOD GEL MANUFACTURED BY: SIKA CORPORATION, DEVCON PLASTIC STEEL PUTTY (A) MANUFACTURED BY: ITW DEVCON, FX~738 METAL FILLED EPOXY MANUFACTURED BY: SIMPSON STRONG TIE.
8. REPAIR STEEL ELEMENTS SHALL BE FIELD BOLTED TO EXISTING STEEL MEMBERS USING HIGH–STRENGTH BOLTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. SEE GENERAL NOTES FOR SURFACE PREPARATION AND COATING REQUIREMENTS.
9. ALL STRUCTURAL STEEL PLATES AND ANGLES SHALL CONFORM TO AASHTO M270 AND/OR DUAL CERTIFIED WITH ASTM A709, GRADE 36 OR 50 DESIGNATION. CHARPY V–NOTCH TESTING IS REQUIRED FOR MAIN MEMBER REPAIR, ACCORDING TO MASSDOT STANDARD SPECIFICATIONS.
10. IN THE CASE THAT ANY STEEL REPAIR ANGLE INTERFERES WITH THE EXISTING ANCHOR BOLT, A LEG OF THE ANGLE CAN BE COPED TO PROVIDE CLEARANCE AROUND THE EXISTING ANCHOR BOLT.
11. ALL STEEL REPAIR PLATES AND ANGLES SHALL BE GALVANIZED. SEE GENERAL NOTES.
12. SEAL PERIMETER OF ALL STEEL WITH SILICONE CAULK.
13. FOR ADDITIONAL NOTES, SEE BRIDGE GENERAL NOTES ON SHEET 1.

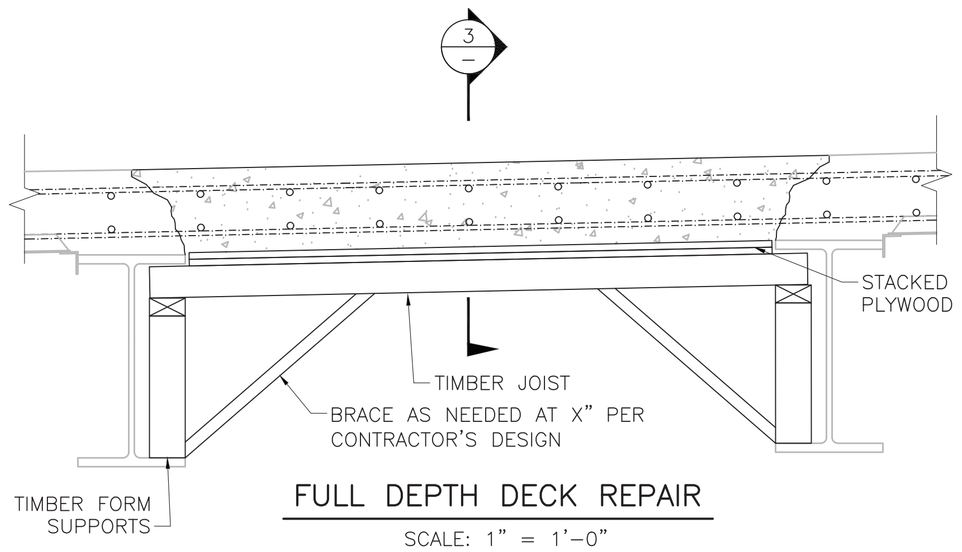
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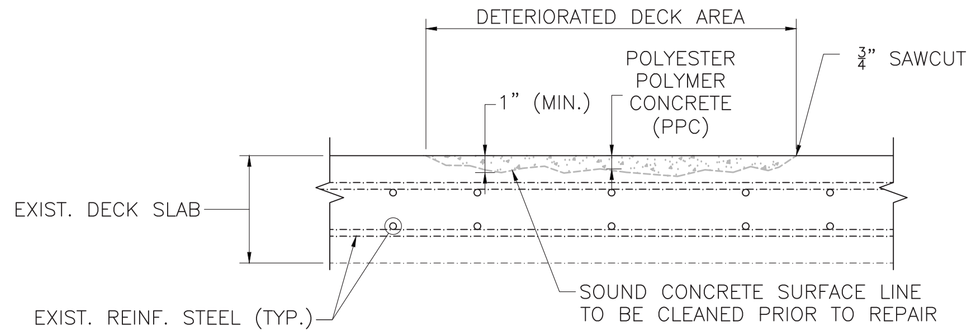
LIMITS OF REPAIR AREA

SCALE: 1" = 1'–0"



FULL DEPTH DECK REPAIR

SCALE: 1" = 1'–0"

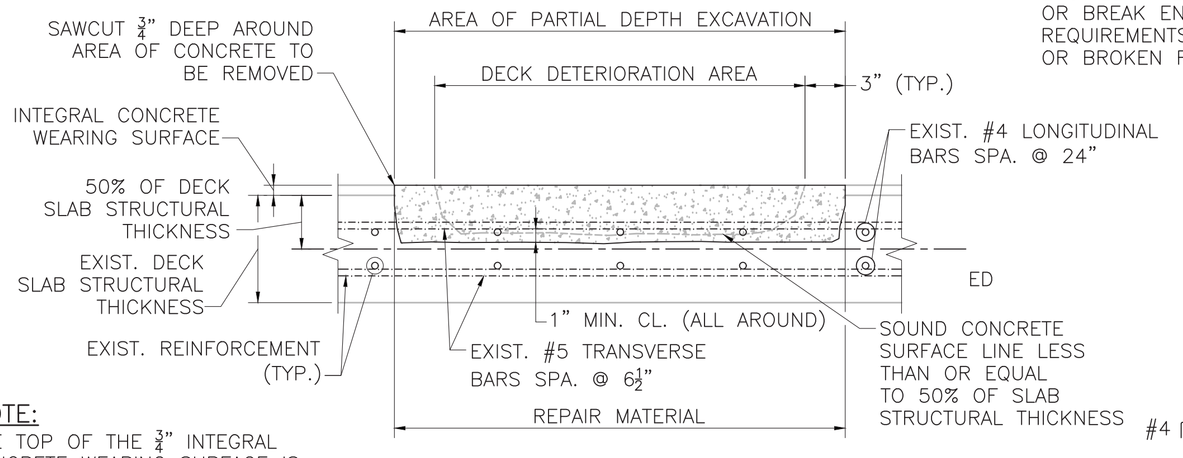


TYPICAL MINOR SPALL REPAIR

SCALE: 1½" = 1'–0"

NOTE:

1. IF REINFORCING BARS ARE EXPOSED, THEN COMPLETE REPAIR AS A PARTIAL DEPTH REPAIR WITH 1" EXCAVATED BENEATH THE EXPOSED BARS.

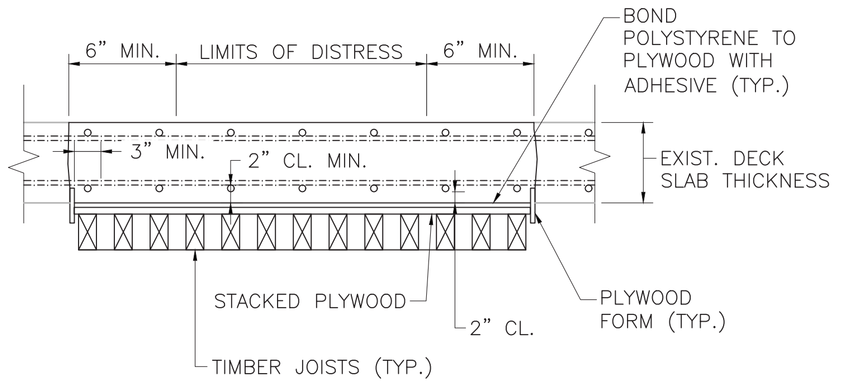


NOTE:

THE TOP OF THE ¾" INTEGRAL CONCRETE WEARING SURFACE IS CONSIDERED NON–STRUCTURAL.

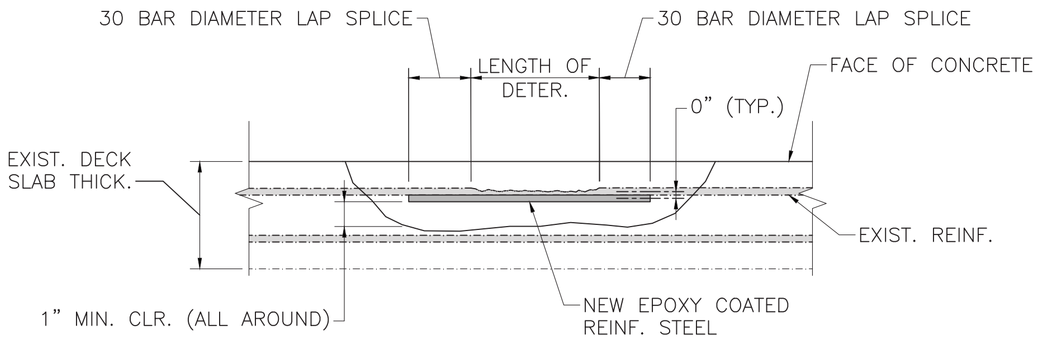
PARTIAL DEPTH DECK REPAIR DETAIL

SCALE: 1½" = 1'–0"



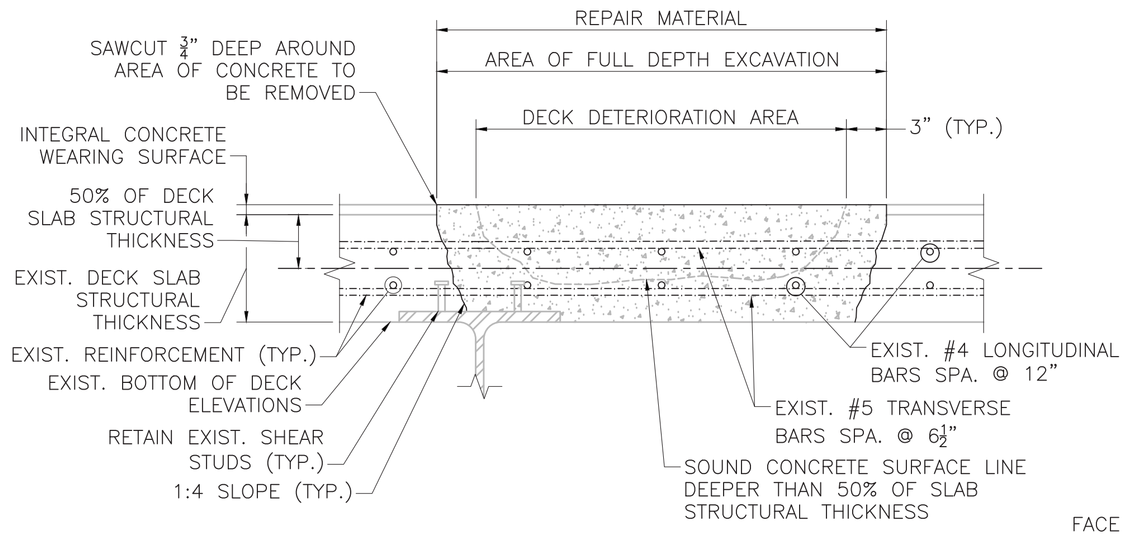
FULL DECK REPAIR SECTION 3

SCALE: 1" = 1'–0"



TYPICAL DETERIORATED REINFORCEMENT STEEL REPAIR

SCALE: 1½" = 1'–0"



FULL DEPTH DECK REPAIR DETAIL

SCALE: 1½" = 1'–0"

NOTE:

1. DECK FORMS SHALL BE INSTALLED FLUSH WITH EXISTING DECK UNDERSIDE AND SHALL BE REMOVED AFTER CURING IS COMPLETE.
2. THE TOP ¾" OF INTEGRAL CONCRETE WEARING SURFACE IS CONSIDERED NON–STRUCTURAL.

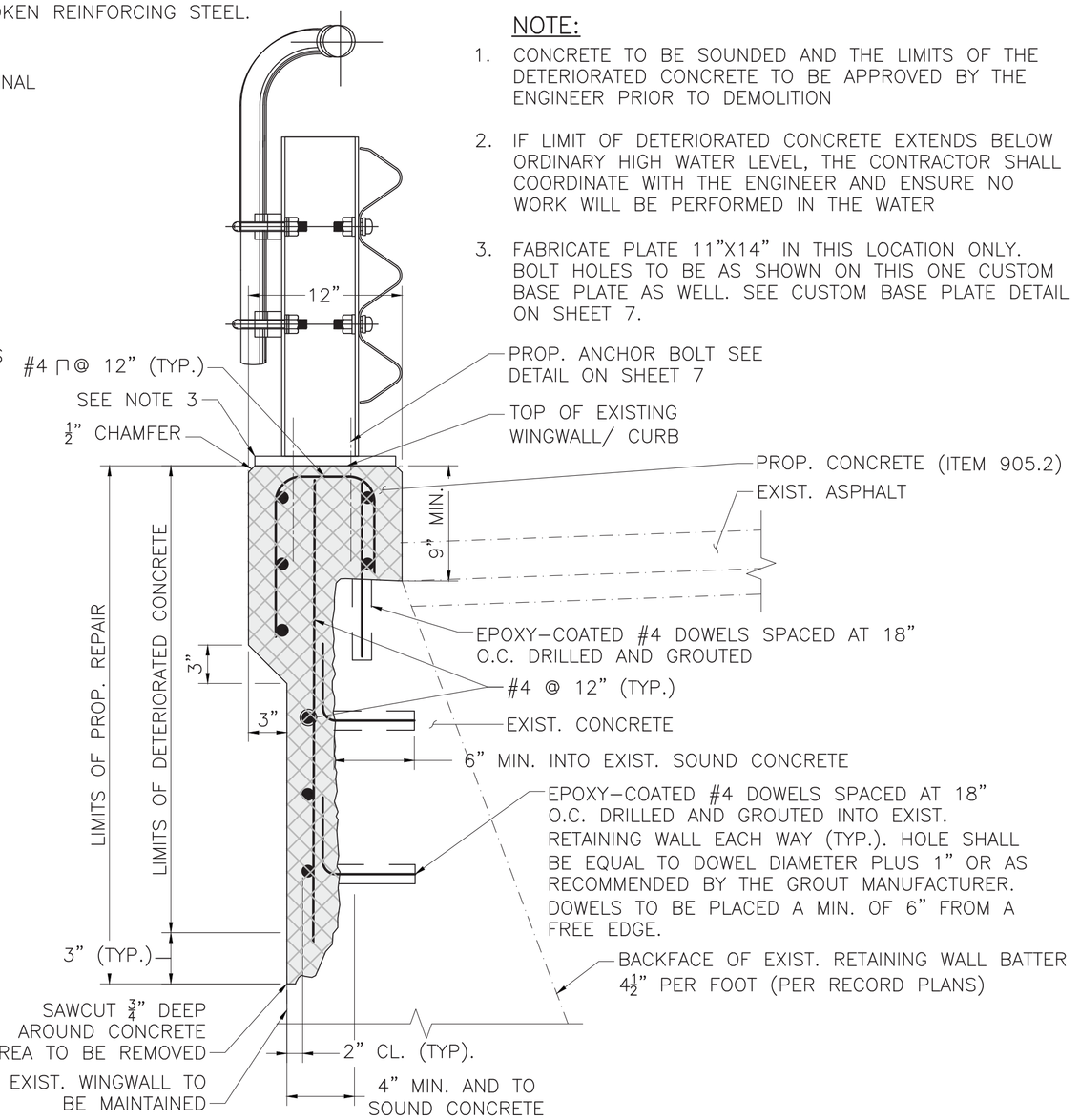
DECK REPAIR NOTES:

1. TOP OF BRIDGE DECK IS COVERED WITH DIRT, GRAVEL, AND DEBRIS. CONTRACTOR SHALL REMOVE LOOSE MATERIAL AS REQUIRED FOR INSPECTION AND REPAIRS.
2. MINOR SPALL REPAIRS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 106.493 – POLYESTER POLYMER CONCRETE FOR TOPSIDE DECK REPAIRS. MATERIALS, SURFACE PREPARATION, AND APPLICATION SHALL CONFORM TO THE STANDARD SPECIFICATIONS. REPAIR LIMITS SHALL BE AS DIRECTED BY THE ENGINEER.
3. FULL–DEPTH AND PARTIAL–DEPTH BRIDGE DECK REPAIRS (WHEN THE BRIDGE IS CLOSED TO TRAFFIC) SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 909.5 – RAPID HARDENING CEMENTITIOUS PRODUCTS FOR REPAIRS. CONCRETE PLACEMENT, FINISHING, AND CURING SHALL CONFORM TO THE STANDARD SPECIFICATIONS.
4. PARTIAL DEPTH REPAIRS SHALL BE PERFORMED WHERE THE DEPTH OF DETERIORATED CONCRETE EXTENDS LESS THAN OR EQUAL TO 50% OF THE THICKNESS OF THE EXISTING CONCRETE DECK. CONCRETE SHALL BE REMOVED TO A MINIMUM OF 1" BELOW THE BOTTOM OF THE TOP MAT OF EXISTING REINFORCING STEEL.
5. FULL DEPTH REPAIRS SHALL BE PERFORMED WHERE THE DEPTH OF DETERIORATED CONCRETE EXTENDS GREATER THAN 50% OF THE THICKNESS OF THE EXISTING CONCRETE DECK.
6. WHEN FULL DEPTH REPAIRS ARE REQUIRED IN THE DECK OVERHANGS, THE LENGTH OF REPAIR ALONG THE STRUCTURE SHOULD BE LIMITED TO 4'–0" LONG SEGMENTS.
7. THE TOP SURFACE OF THE DECK REPAIRS SHALL BE FINISHED FLUSH WITH THE ADJACENT TOP OF DECK SLAB AND SHALL MAINTAIN THE EXISTING GRADES AND CROSS SLOPES.
8. 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 SURFACES THAT WILL BE IN CONTACT WITH REPAIR CONCRETE SHALL BE PRE–WETTED FOR A MINIMUM OF 24 HOURS USING POTABLE WATER IN ORDER TO ACHIEVE A SATURATED SURFACE DRY CONDITION IMMEDIATELY PRIOR TO PLACEMENT OF REPAIR CONCRETE.
9. 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.

MIDDLEFIELD
TOWN HILL ROAD OVER FACTORY BROOK

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DECK & WINGWALL REPAIRS



WINGWALL CONCRETE REPAIR DETAIL

NOT TO SCALE

NOTE:

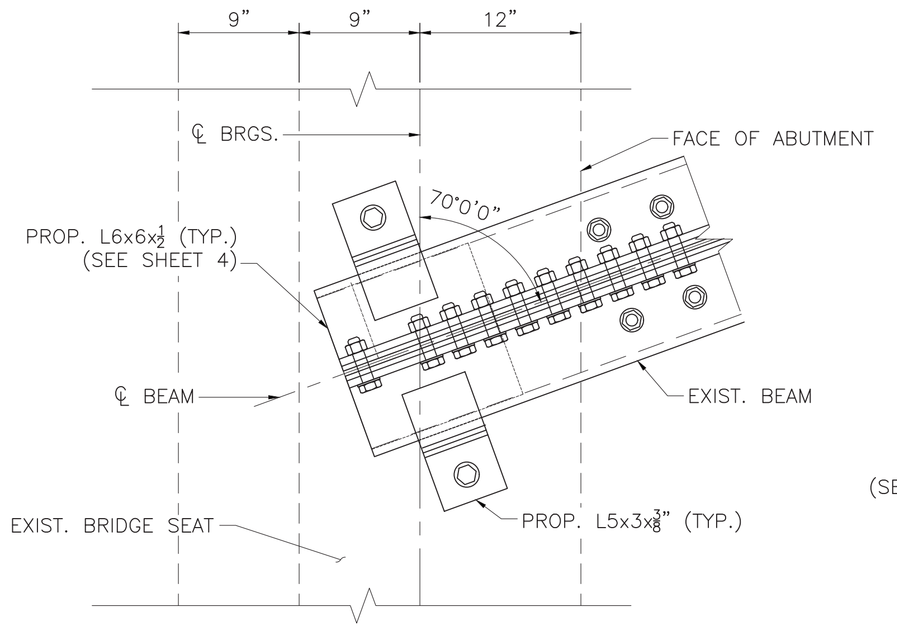
1. CONCRETE TO BE SOUNDED AND THE LIMITS OF THE DETERIORATED CONCRETE TO BE APPROVED BY THE ENGINEER PRIOR TO DEMOLITION
2. IF LIMIT OF DETERIORATED CONCRETE EXTENDS BELOW ORDINARY HIGH WATER LEVEL, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND ENSURE NO WORK WILL BE PERFORMED IN THE WATER
3. FABRICATE PLATE 11"X14" IN THIS LOCATION ONLY. BOLT HOLES TO BE AS SHOWN ON THIS ONE CUSTOM BASE PLATE AS WELL. SEE CUSTOM BASE PLATE DETAIL ON SHEET 7.

DATE	DESCRIPTION
JULY 18, 2026	ISSUED FOR CONSTRUCTION
	USE ONLY PRINTS OF LATEST DATE

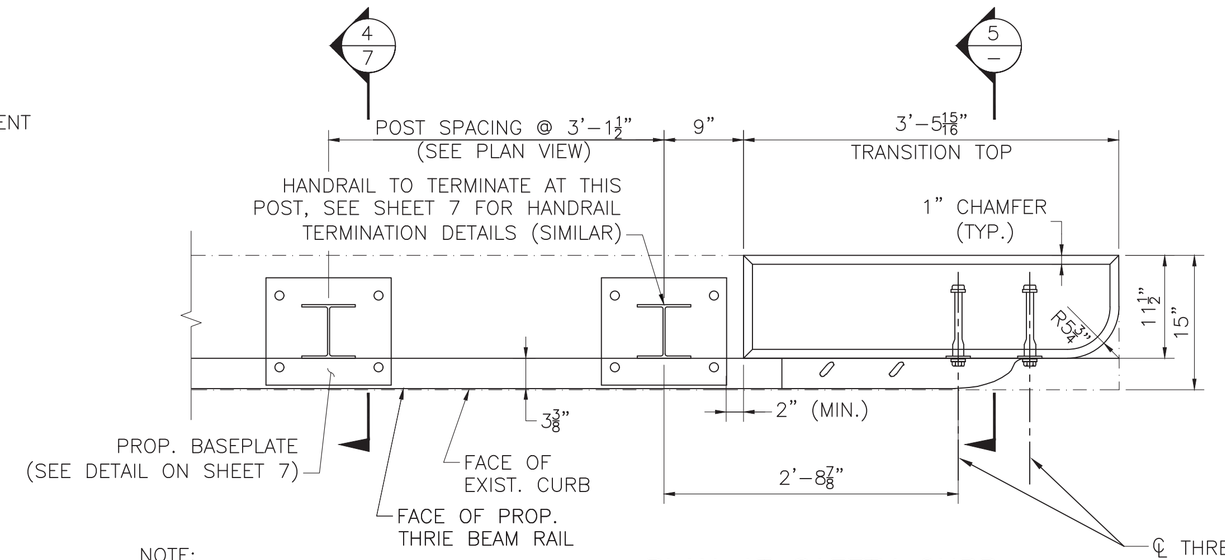
M-19-004 (05Q).DWG Plotted on 1-Jul-2026 10:05 AM
A00803 - 31
11-JUNE-2026
PS&E SUBMISSION

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	6	9
PROJECT FILE NO.	616286		

MISCELLANEOUS DETAILS



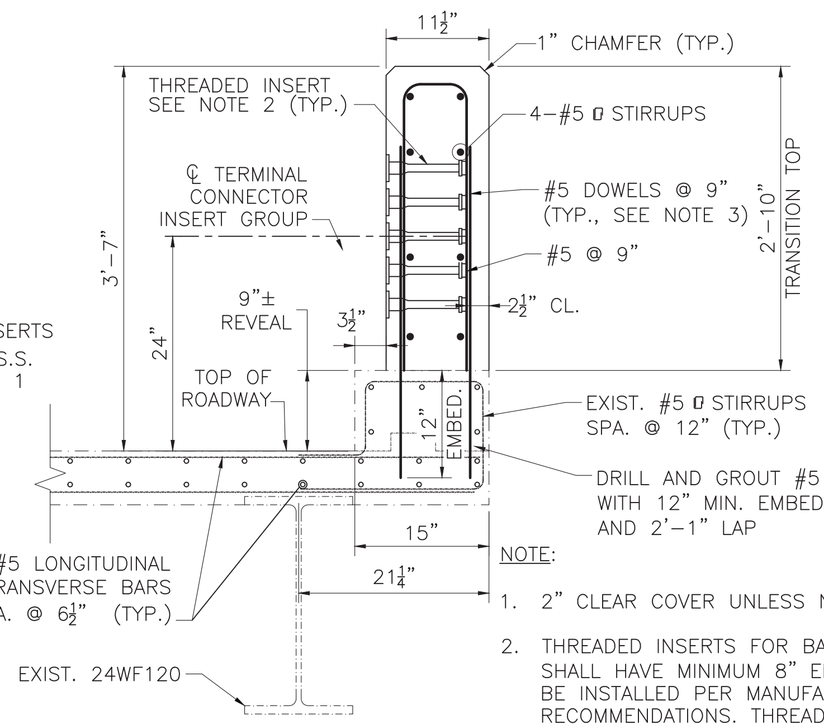
BEARING KEEPER PLATE PLAN VIEW
SCALE: 1½" = 1'–0"



NOTE:

1. HANDRAIL NOT SHOWN FOR CLARITY, SEE SHEET 7

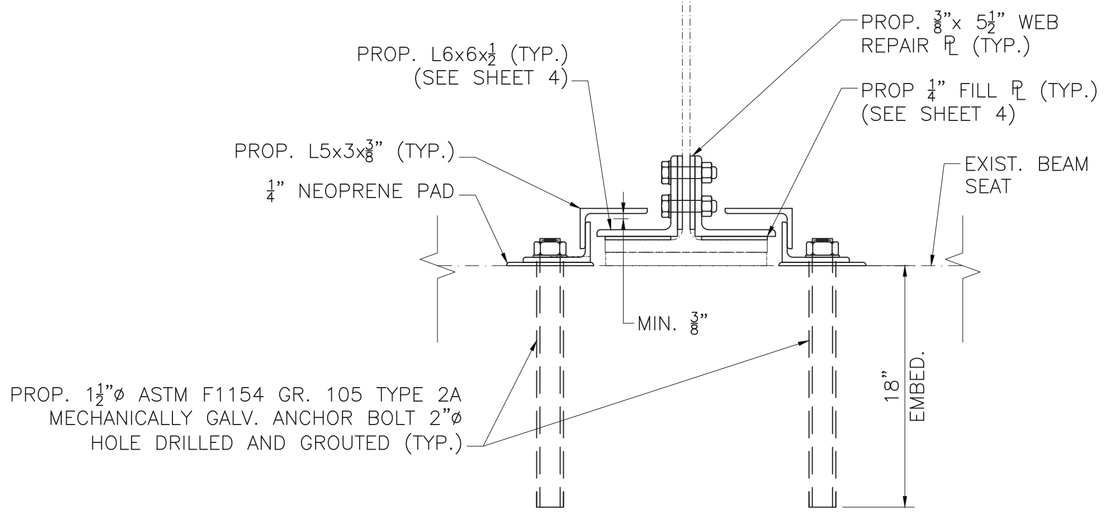
PLAN AT SAFETY CURB
SCALE: 1" = 1'–0"



NOTE:

1. 2" CLEAR COVER UNLESS NOTED OTHERWISE.
2. THREADED INSERTS FOR BARRIER TRANSITION SHALL HAVE MINIMUM 8" EMBEDMENT AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. THREADED INSERTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
3. DRILL AND GROUT BARS SHALL BE INSTALLED USING HILTI HIT–RE 500 V3 OR APPROVED EQUAL, INSTALLED TO REQUIRED EMBEDMENT AND PER THE MANUFACTURER REQUIREMENTS.

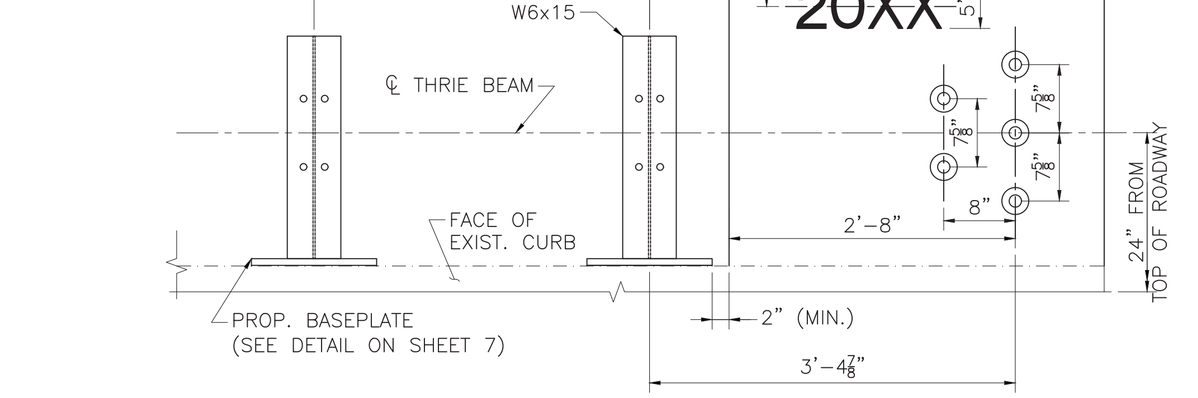
SECTION AT SAFETY CURB 5/–
SCALE: 1" = 1'–0"



BEARING KEEPER PLATE REPAIR SECTION
SCALE: 1½" = 1'–0"

KEEPER PLATE REPAIR NOTES:

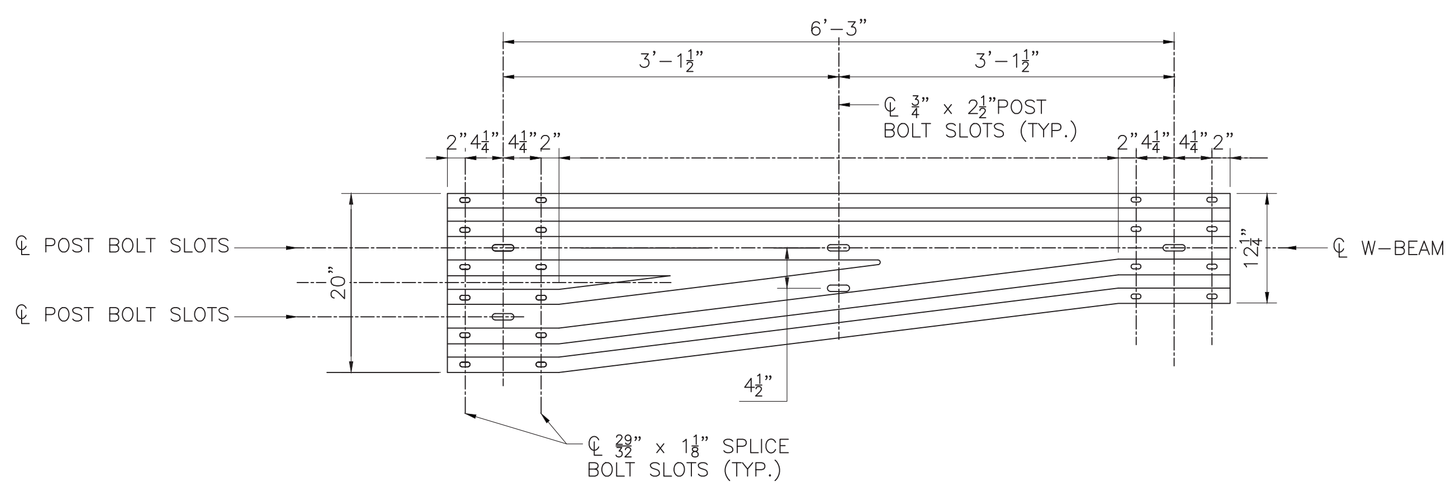
1. THIS DETAIL SHALL BE UTILIZED AT ALL LOCATIONS WHERE ANCHOR BOLT REPLACEMENT IS PROPOSED
2. CONTRACTOR SHALL HAND TOOL CLEAN THE EXISTING BEARING SURFACES AND BRIDGE SEAT PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL SEQUENCE KEEPER PLATE REPAIR WORK TO NOT INTERFERE WITH BEAM END REPAIRS AT THE SAME LOCATION.
4. CONTRACTOR SHALL NOT INSTALL NEW KEEPER PLATES UNTIL ALL CONTACT SURFACES HAVE BEEN CLEANED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
5. ANGLE LEG OVERLAP SHALL BE ADJUSTED AS REQUIRED TO ACHIEVE MINIMUM CLEARANCE TO BEAM BOTTOM FLANGE
6. FILLET WELD SHALL TERMINATE ¼" BEFORE ENDS OF ANGLE LEG.
7. KEEPER PLATE SHALL BE GALVANIZED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
8. KEEPER PLATES AND ALL ASSOCIATED MATERIALS, LABOR, EQUIPMENT, AND INCIDENTAL WORK REQUIRED TO COMPLETE THE STRUCTURAL STEEL REPAIRS SHALL BE PAID UNDER ITEM 107.97 – STRUCTURAL STEEL REPAIRS.



NOTE:

1. HANDRAIL AND THRIE BEAM NOT SHOWN FOR CLARITY, SEE SHEET 7

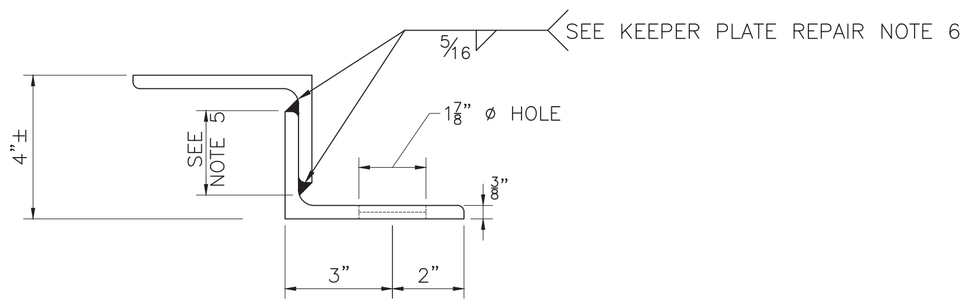
ELEVATION AT SAFETY CURB
SCALE: 1" = 1'–0"



THRIE BEAM TRANSITION PANEL ELEVATION
SCALE: 1" = 1'–0"

NOTE:

1. CONTRACTOR TO FIELD VERIFY TRANSITION PANEL WILL FIT WITH THE EXISTING W–BEAM RAILING PRIOR TO ORDERING THE PIECE OR CLOSING THE ROAD. ENGINEER TO BE CONTACTED IF GEOMETRY DOES NOT MATCH THIS PROPOSED DETAIL.



KEEPER PLATE DETAIL
SCALE: 3" = 1'–0"

JULY 18, 2026	ISSUED FOR CONSTRUCTION
DATE	DESCRIPTION
USE ONLY PRINTS OF LATEST DATE	

Proposal No. 616282-135582
M-19-004 (05Q).DWG Plotted on 1-Jul-2026 10:05 AM
A00803 - 32
PS&E SUBMISSION 11-JUNE-2026

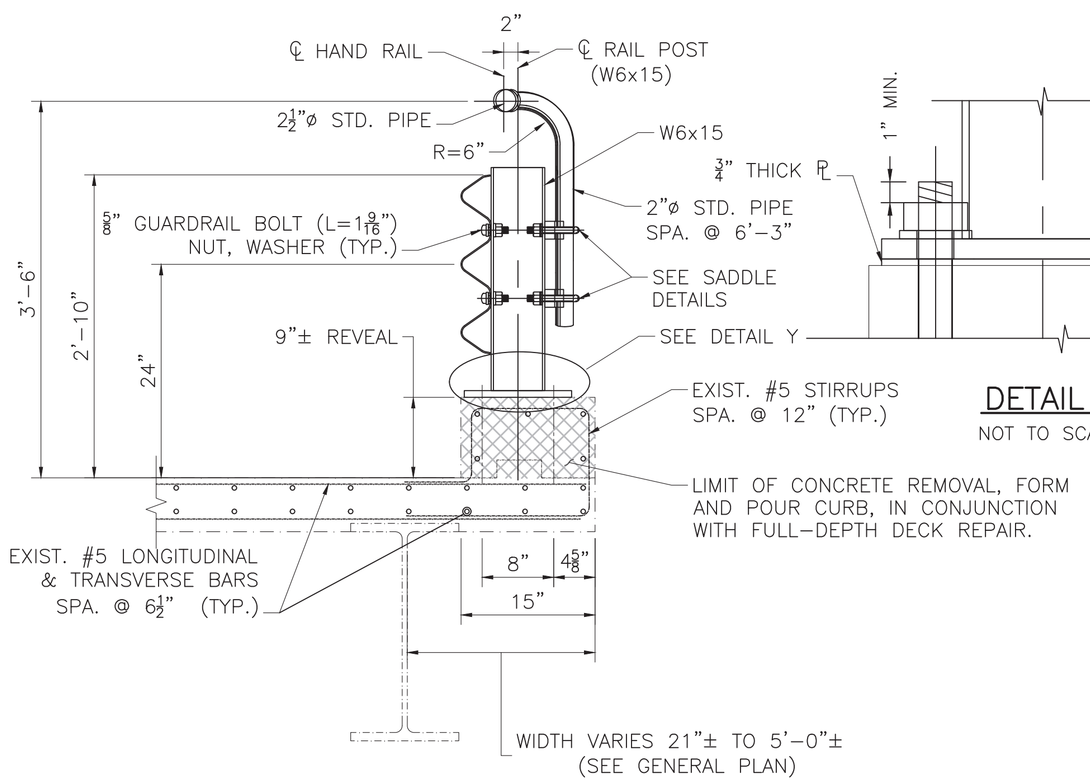
MIDDLEFIELD
TOWN HILL ROAD OVER FACTORY BROOK

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	7	9
	PROJECT FILE NO. 616286		

THRIE BEAM DETAILS

THRIE BEAM NOTES:

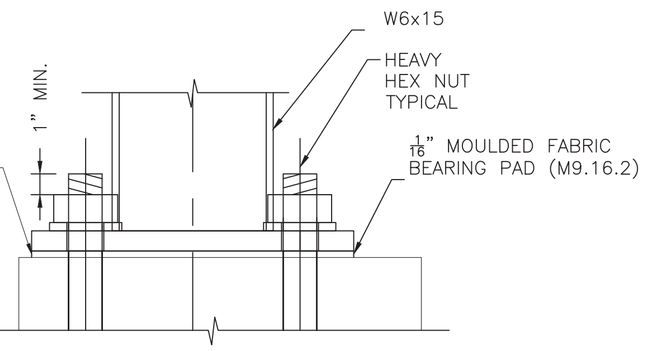
1. ALL STEEL CONNECTING BOLTS AND FASTENERS FOR POSTS SHALL CONFORM TO ASTM A325 TYPE III. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554,GRADE 105.
2. RAIL POSTS AND ANCHOR PLATES SHALL BE SEATED ON MOLDED FABRIC BEARING PADS MEETING M9.16.2 AND HAVING THE SAME DIMENSIONS AS THE PLATE. ADDITIONAL PADS OR HALF PADS MAY BE USED IN SHIMMING FOR ALIGNMENT.
3. RAIL POSTS SHALL BE SET PERPENDICULAR TO ROADWAY PROFILE GRADE AND VERTICALLY IN CROSS SECTION, EXCEPT THAT THE RAIL POSTS SHALL BE ALIGNED BY THE USE OF SHIMS SO THAT IN THE FINAL ADJUSTMENT NO PART SHALL DEVIATE MORE THAN ONE HALF INCH FROM TRUE HORIZONTAL ALIGNMENT. THE SHIMS SHALL BE 3"x 1 ¾" AND PLACED BETWEEN THE POST AND THE THRIE BEAM RAIL. THE THICKNESS OF THE SHIMS SHALL BE DETERMINED BY THE CONTRACTOR AND SHOWN IN THE SHOP DRAWINGS FOR APPROVAL BY THE ENGINEER BEFORE ORDERING MATERIAL FOR THIS WORK.
4. MINIMUM LENGTH OF THE THRIE BEAM SECTIONS IS EQUAL TO ONE POST SPACE.
5. THRIE BEAM GUARD RAIL STEEL SHALL BE GALVANIZED AND CONFORM TO THE AASHTO M180, CLASS B, TYPE IV AND SHALL BE 10 GAGE THICK. USE OF 12 GAGE THICK THRIE BEAM IS EXPRESSLY FORBIDDEN.
6. POSTS, HAND RAIL STEEL, ANCHOR PLATES AND BASE PLATES SHALL BE FABRICATED FROM STEEL CONFIRMING TO AASHTO M270 GRADE 50 STEEL. ALL STEEL TO BE GALVANIZED.
7. SPECIAL DRILLING OF THE THRIE BEAM MAY BE REQUIRED AT THE SPLICES. (ALL DRILLING DETAILS ARE TO BE SHOWN ON THE SHOP DRAWINGS.)
8. PLACE A REFLECTORIZED WASHER IN THE UPPER VALLEY OF THRIE BEAM EVERY THIRD POST.
9. THRIE BEAM RETROFIT RAILING IS MASH TL-3 COMPLIANT. TERMINATIONS, TRANSITIONS AND HANDRAIL HAVE NOT BEEN MASH TESTED.



TYPICAL GUARDRAIL ATTACHMENT

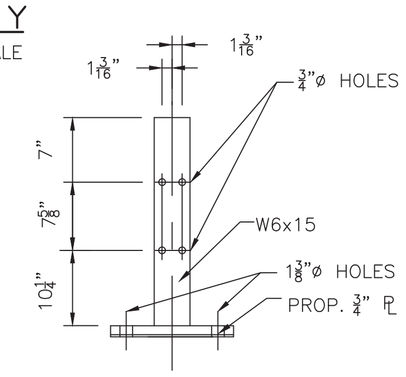
SCALE: 1" = 1'-0"

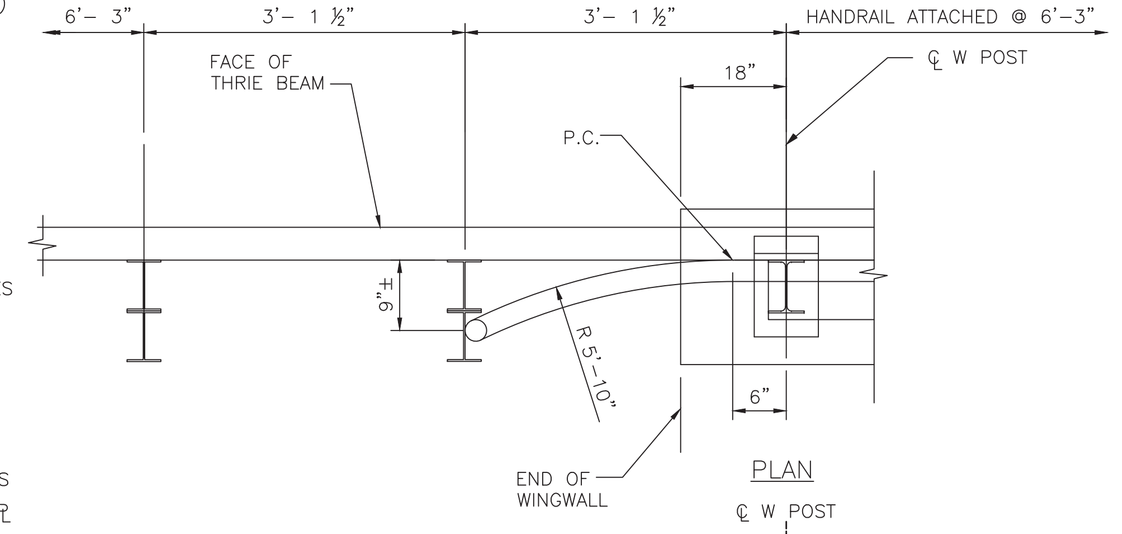
4/6



DETAIL Y

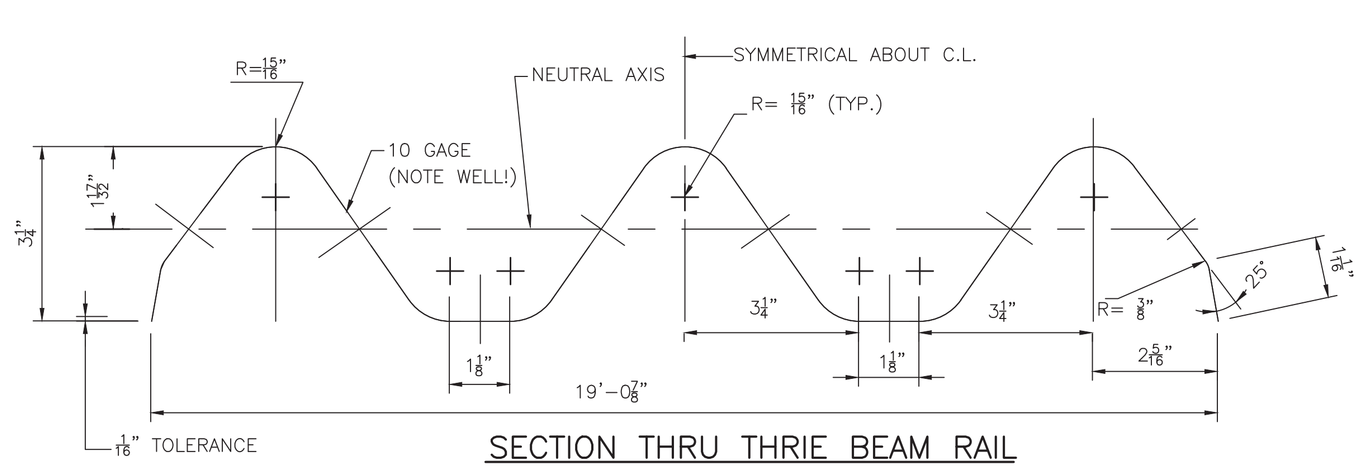
NOT TO SCALE





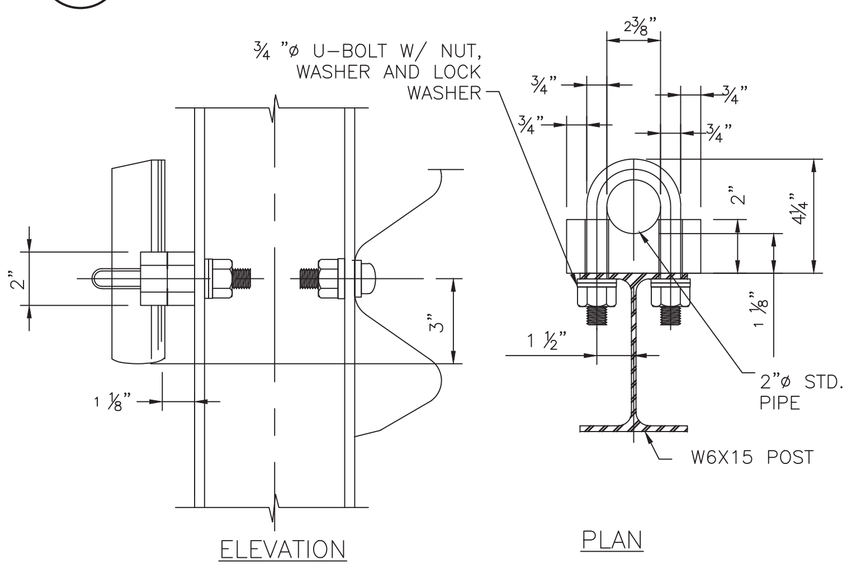
PLAN

℄ W POST



SECTION THRU THRIE BEAM RAIL

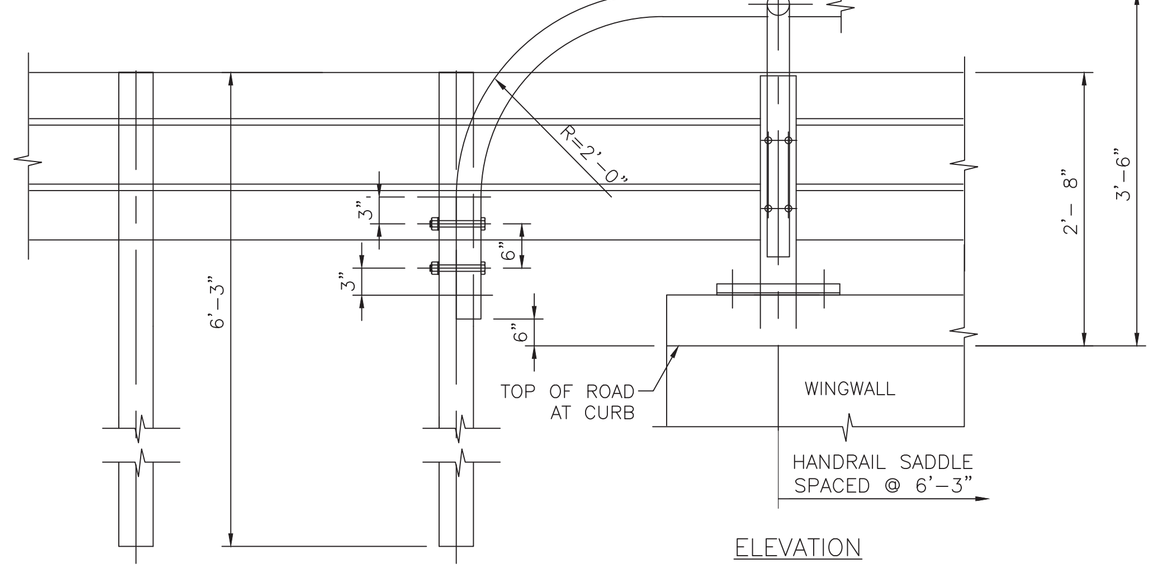
NOT TO SCALE



ELEVATION PLAN

SADDLE DETAILS

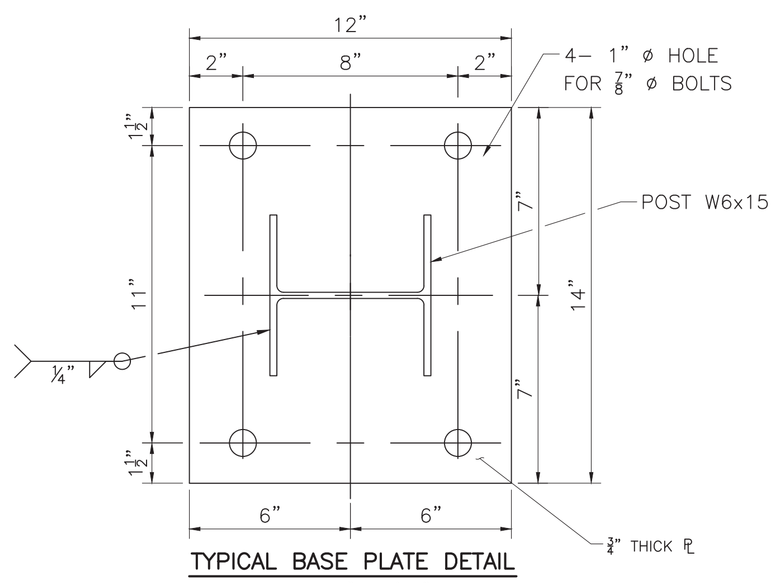
NOT TO SCALE



ELEVATION

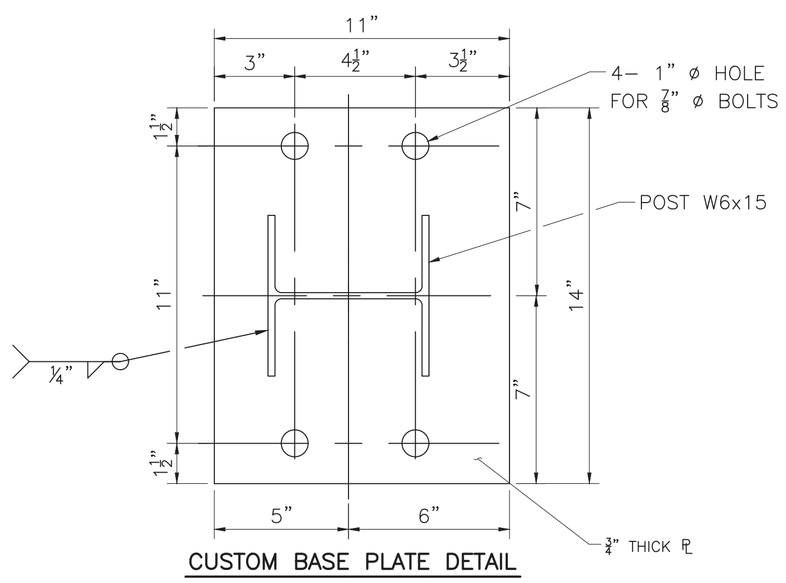
TRANSITION DETAILS

NOT TO SCALE



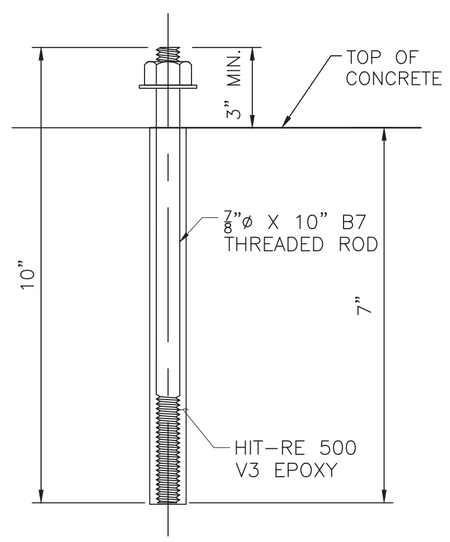
TYPICAL BASE PLATE DETAIL

SCALE: 3" = 1'-0"



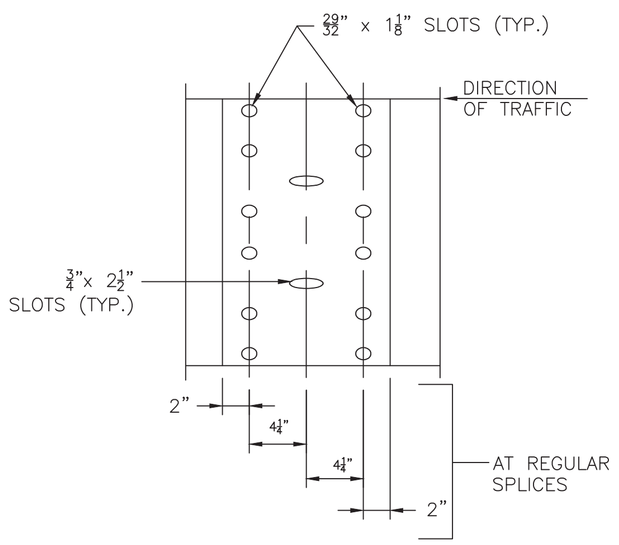
CUSTOM BASE PLATE DETAIL

SCALE: 3" = 1'-0"



BOLT DETAIL

NOT TO SCALE



THRIE BEAM RAIL SPLICE DETAILS

NOT TO SCALE

DATE	DESCRIPTION
JULY 18, 2026	ISSUED FOR CONSTRUCTION
	USE ONLY PRINTS OF LATEST DATE

SHEET 7 OF 9 SHEETS BRIDGE NO. M-19-004 (05Q)

Proposal No. 616282-135582

M-19-004 (05Q).DWG Plotted on 1-Jul-2026 10:05 AM

A00803 - 33

PS&E SUBMISSION 11-JUNE-2026

MIDDLEFIELD
TOWN HILL ROAD OVER FACTORY BOOK

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	8	9
PROJECT FILE NO.	616286		

DETOUR PLAN

BECKET RD
W HILL RD
RESERVOIR RD
TOWN HILL RD
JOHNSON HILL RD
MIDDLEFIELD RD
WASHINGTON
TOWN LINE
BECKET
BROOKER HILL RD
ROUTE 8
HIGH ST
LELAND RD
PLEASANT ST
CARTER RD
MIDDLEFIELD
BECKET
BENTON HILL RD
SURINER RD
BANCROFT RD
W HILL RD
TOWN HILL RD
MIDDLEFIELD
TOWN BECKET
CHESTER
LINE

M4-8P DETOUR
M3-3P SOUTH Town Hill Rd
W16-8P
M6-3P

M4-8P DETOUR
M3-1P NORTH Town Hill Rd
W16-8P
M6-3P

M4-8P DETOUR
M3-1P NORTH Town Hill Rd
W16-8P
M5-1P(R)

M4-8P DETOUR
M3-1P NORTH Town Hill Rd
W16-8P
M6-1P(R)

M4-8P DETOUR
M3-3P SOUTH Town Hill Rd
W16-8P
M6-1P(L)

M4-8P DETOUR
M3-3P SOUTH Town Hill Rd
W16-8P
M5-1P(L)

M4-8P DETOUR
M3-3P SOUTH Town Hill Rd
W16-8P
M5-1P(R)

M4-8P DETOUR
M3-3P SOU

Proposal No. 616282-135582

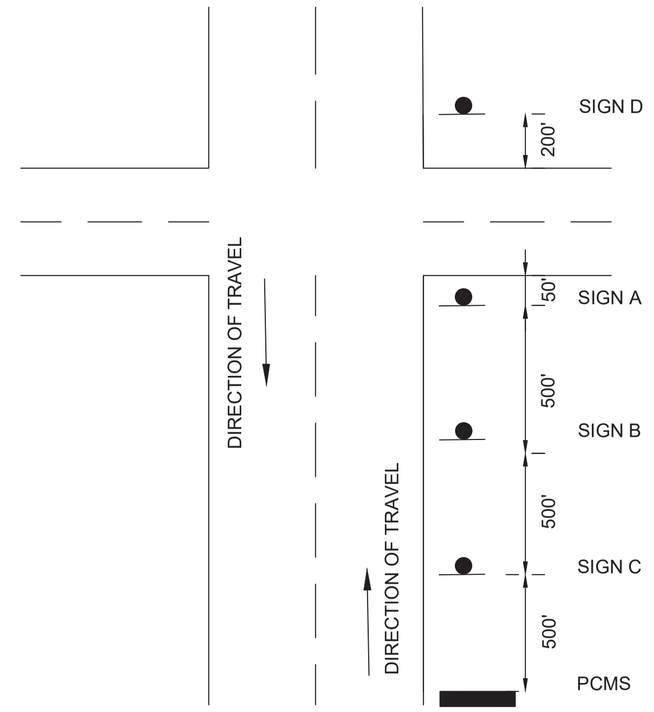
TRAFFIC SIGN SUMMARY - BRIDGE M-19-004 (05P)

IDENTIFICATION NUMBER	SIZE OF SIGN (INCHES)		LEGEND	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			NUMBER OF SUPPORTS REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACKGROUND	LEGEND	BORDER			
M3-1P	24	12	NORTH	SEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES			19*	WHITE	BLACK	BLACK	Mounted below M4-8P/ M4-8a	2.0	38.0
M3-3P	24	12	SOUTH				18*	WHITE	BLACK	BLACK	Mounted below M4-8P/ M4-8a	2.0	36.0
M4-8P	24	12	DETOUR				35*	ORANGE	BLACK	BLACK	35	2.0	70.0
M4-8a	24	18	END DETOUR				2*	ORANGE	BLACK	BLACK	2	3.0	6.0
M5-1P (L)	21	15					8*	ORANGE	BLACK	BLACK	Mounted below W16-8P	2.2	17.6
M5-1P (R)	21	15					7*	ORANGE	BLACK	BLACK	Mounted below W16-8P	2.2	15.4
M6-1P (L)	21	15					8*	ORANGE	BLACK	BLACK	Mounted below W16-8P	2.2	17.6
M6-1P (R)	21	15					7*	ORANGE	BLACK	BLACK	Mounted below W16-8P	2.2	15.4
M6-3P	21	15					5*	ORANGE	BLACK	BLACK	Mounted below W16-8P	2.2	11.0
MA-R11-2b	48	30	BRIDGE CLOSED				2*	WHITE	BLACK	BLACK	Mounted on Type III Barricade	10.0	20.0
MA-R11-3b (1/2 MILE)	60	30	BRIDGE CLOSED 1/2 MILE AHEAD LOCAL TRAFFIC ONLY				1*	WHITE	BLACK	BLACK	2	12.5	12.5
MA-R11-3b (1 MILE)	60	30	BRIDGE CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY				1*	WHITE	BLACK	BLACK	2	12.5	12.5
MA-R11-3b (2 MILES)	60	30	BRIDGE CLOSED 2.5 MILES AHEAD LOCAL TRAFFIC ONLY				1	WHITE	BLACK	BLACK	2	12.5	12.5
W16-8P	24	8	Town Hill Rd				37*	WHITE	BLACK	BLACK	Mounted below M3-1P/M3-3P	1.3	48.1
W20-2	36	36	DETOUR AHEAD				3*	ORANGE	BLACK	BLACK	3	9.0	27.0

MIDDLEFIELD
TOWN HILL ROAD OVER FACTORY BOOK

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	9	9
PROJECT FILE NO.	616286		

SIGN SHEET

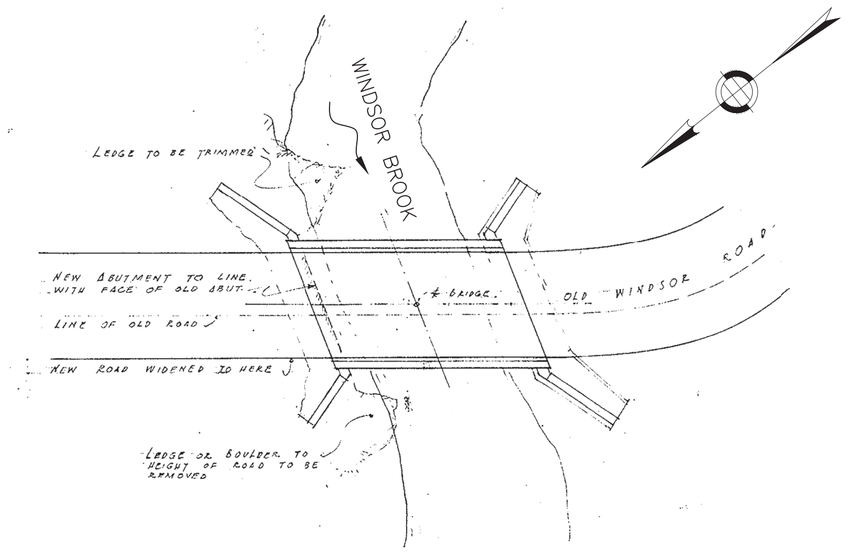


TYPICAL INTERSECTION SIGN PLACEMENT
NOT TO SCALE

NOTE: APPLICABLE SIGNS FROM THE DETOUR ROUTE FOR BRIDGE NO. M-19-003 ARE INTENDED TO BE RE-USED FOR THIS DETOUR AND SHALL ONLY BE PAID FOR ONCE.
* DENOTES SIGNS THAT ARE BEING RE-USED FROM BRIDGE NO. M-19-003.

DATE	DESCRIPTION
JULY 18, 2026	ISSUED FOR CONSTRUCTION
USE ONLY PRINTS OF LATEST DATE	

115768 DETOUR BRIDGE M-19-004.DWG Plotted on 28-May-2026 12:40 PM
A00803 - 35
2ND STRUCTURAL SUBMISSION 07-MAY-2026

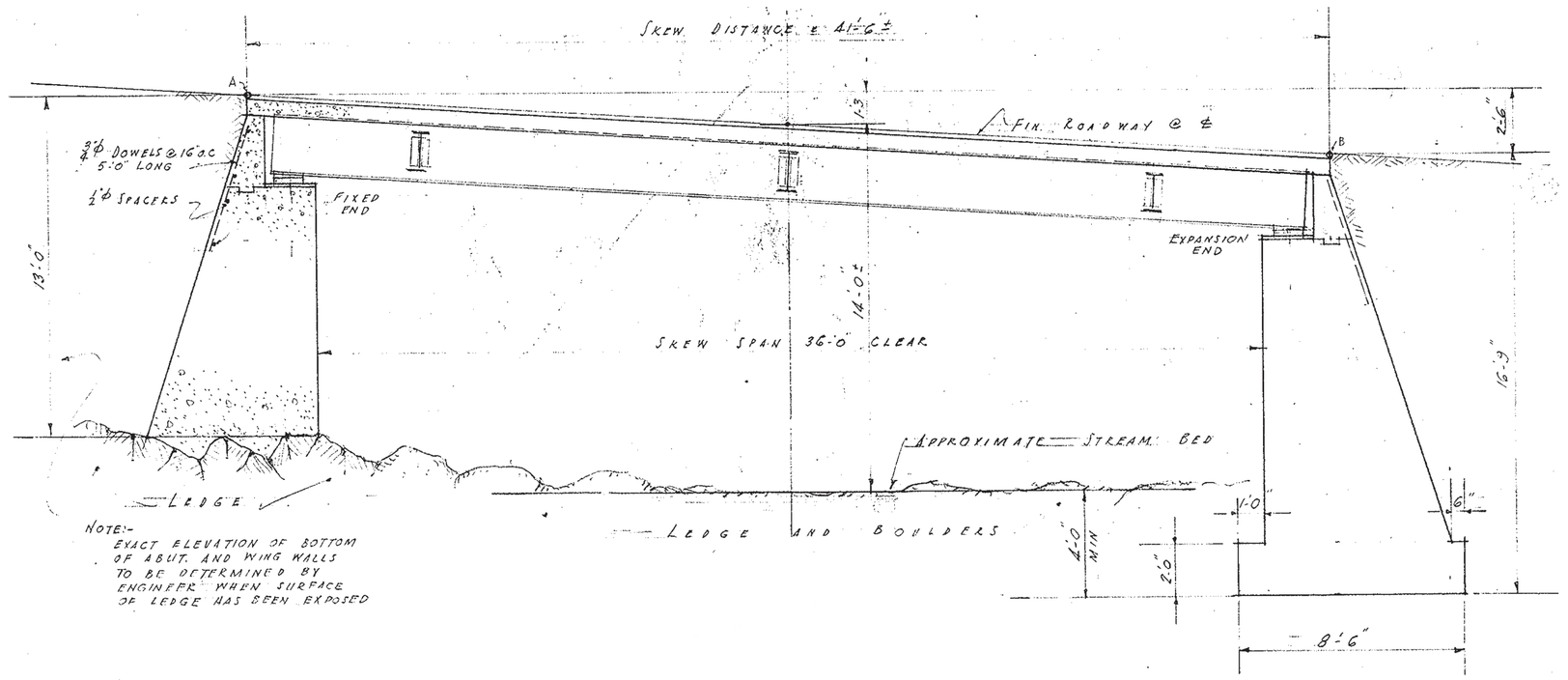


NOTE:

1. THE KEY PLAN SHOWS THE ORIGINAL BRIDGE ORIENTATION. THE PLANS AND DETAILS INCLUDED IN THIS SET HAVE BEEN DRAWN TO REFLECT THE MOST RECENT INSPECTION REPORTS.

EXISTING BRIDGE KEY PLAN

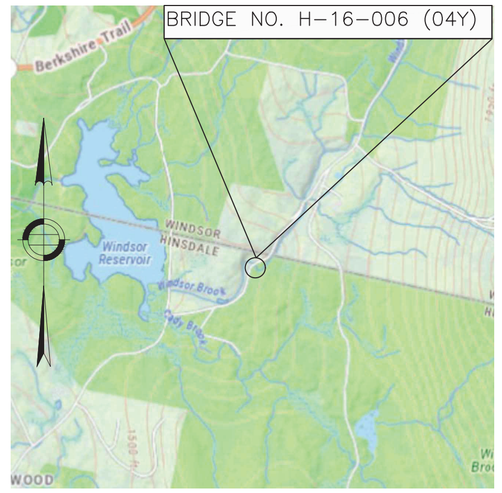
SCALE: 1" = 20'



EXISTING BRIDGE LONGITUDINAL SECTION AT ROADWAY CENTERLINE

SCALE: ¼" = 1'–0"

ESTIMATED QUANTITIES (NOT GUARANTEED)			
ITEM	DESCRIPTION	QUANTITY	UNITS
106.493	POLYESTER POLYMER CONCRETE FOR TOPSIDE DECK REPAIRS	4	CY
106.88	JACKING AND SHORING	3	EA
107.97	STRUCTURAL STEEL REPAIRS	1650	LB
127.1	REINFORCED CONCRETE EXCAVATION	2	CY
127.12	REINFORCED CONCRETE SUBSTRUCTURE EXCAVATION	1	CY
127.4	REINFORCED CONCRETE DECK EXCAVATION (FULL DEPTH)	7	SY
226.37	CLEANING BRIDGE SEATS	52	FT
905.2	5000 PSI, ⅜", 710 HP CEMENT CONCRETE	5	CY
908.11	EXPOSED CONCRETE BRIDGE DECK SEALING	1160	SY
909.3	RAPID SETTING LOW PERMEABILITY CONCRETE	1	CY
910.1	STEEL REINFORCEMENT FOR STRUCUTURES - EPOXY COATED	119	LB
912.	DRILLING AND GROUTING DOWELS	50	EA
961.201	CLEAN (FULL REMOVAL) AND PAINT STEEL BRIDGE NO. H-16-006 (04Y)	1	LS
975.51	STEEL RAILING REPAIR	280	LB
994.1	TEMPORARY PROTECTIVE SHIELDING	180	SF
994.101	TEMPORARY PROTECTIVE SHIELDING (OUTSIDE FASCIA BEAM)	60	SF



LOCUS MAP

SCALE: 1" = 2000'

GENERAL NOTES:

1. GENERAL REPAIR DESIGN IN ACCORDANCE WITH THE 17TH EDITION OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES WITH INTERIM SPECIFICATIONS THROUGH 2002. THE BRIDGE WAS ORIGINALLY DESIGNED FOR H15 LOADING AND THE REPAIRS ARE INTENDED TO MEET OR EXCEED THAT DESIGN CAPACITY.
2. ALL WORK SCHEDULES, WILL BE PRE–APPROVED BY THE DEPARTMENT PRIOR TO BEGINNING WORK. WORK NECESSARY OUTSIDE OF NORMAL WORK HOURS BECAUSE OF TRAFFIC CONDITIONS, AS NOTED IN THE PLANS OR SPECIFICATIONS, WILL BE SUBMITTED TO MASSDOT FOR APPROVAL. ALL WORK PERFORMED WILL BE IN CONFORMANCE WITH THE MASSDOT NOISE ORDINANCES.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE RELEVANT SECTIONS OF THE CURRENT MASSDOT "STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES", INCLUDING CURRENT SUPPLEMENTALS.
4. THESE DRAWINGS WERE FORMATTED FOR 24"x36" PLAN SHEETS. SCALES NOTED ON THE DRAWINGS ARE NOT APPLICABLE TO REDUCED SIZE PRINTS.
5. EXISTING STRUCTURE DIMENSIONS AND DETAILS ARE ACCORDING TO ORIGINAL CONSTRUCTION DRAWINGS, OBSERVATION, AND FIELD MEASUREMENTS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE AND ESTABLISH ALL DIMENSIONS AND EXISTING DETAILS NECESSARY FOR COMPLETION OF ALL WORK BY FIELD MEASUREMENT (I.E. BEARING LOCATIONS, EXISTING REPAIRS, ETC.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY AND ACCURACY THEREOF, AND SHALL NOT ORDER ANY MATERIAL OR COMMENCE ANY FABRICATION UNTIL THEY HAVE MADE THE REQUIRED MEASUREMENTS ON THE ACTUAL STRUCTURE AND THE EXTENT OF THE PROPOSED WORK HAS BEEN APPROVED BY THE ENGINEER.
6. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY NOT TO DAMAGE UTILITIES, EQUIPMENT, STRUCTURES, OR THOSE PORTIONS OF THE SUPERSTRUCTURE THAT ARE TO REMAIN IN PLACE, THAT ARE TO BE REUSED, OR THAT ARE TO REMAIN THE PROPERTY OF OTHERS. ANY PORTION OF THE SUPERSTRUCTURE AND SUBSTRUCTURE TO REMAIN WHICH BECOMES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR SHALL ASSUME ALL EXISTING COATINGS CONTAIN LEAD UNLESS OTHERWISE DETERMINED BY TESTING. ALL DEBRIS CREATED BY OPERATIONS SHALL BE PROPERLY CONTAINED AND DISPOSED OF.
8. TEMPORARY SHIELDING WILL BE PROVIDED TO PROTECT THE BROOK BENEATH THE BRIDGE FROM FALLING OR FLYING DEBRIS OR ANY TOOLS OR INCIDENTAL EQUIPMENT DURING ALL ACTIVITIES, INCLUDING STEEL REPAIR PLATE INSTALLATION, PREPARATION, CLEANING & PAINTING, ETC.
9. ALL STRUCTURAL STEEL PLATES AND ANGLES SHALL CONFORM TO AASHTO M270 AND/OR DUAL CERTIFIED WITH ASTM A709, GRADE 36 OR 50 DESIGNATION. CHARPY V–NOTCH TESTING IS REQUIRED FOR MAIN MEMBER REPAIR, ACCORDING TO MASSDOT STANDARD SPECIFICATIONS.
10. ALL BOLTS AND RELATED HARDWARE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M164 (ASTM F3125 GRADE A325). ALL NEW BOLTS SHALL BE ⅞"ø HIGH STRENGTH BOLTS IN $\frac{15}{16}$"ø HOLES, WITH MINIMUM 1½" EDGE DISTANCE AND 3" CENTER TO CENTER MINIMUM SPACING UNLESS NOTED OTHERWISE. ALL BOLT SIZES AND BOLT TYPES TO BE USED SHALL BE LABELED ON SHOP DRAWINGS. NEW BOLTS AND NUTS SHALL BE GALVANIZED.
11. REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31 GRADE 60 EPOXY COATED.
12. THIS BRIDGE SHALL RECEIVE FULL CLEANING AND PAINTING (INCLUDING DIAPHRAGMS) IN ACCORDANCE WITH THE MASSDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, SECTION M7.02 – PAINT SYSTEMS, AND RELATED PAINTING REQUIREMENTS. THE STRUCTURE WILL REMAIN IN SERVICE AND IS NOT IN SIGNIFICANTLY DETERIORATED CONDITION. ALL STEEL SHALL BE CLEANED AND PRIMED. REPAIR MEMBERS SHALL BE FABRICATED BASED ON CONDITIONS EXPOSED DURING CLEANING, INSTALLED, AND FINAL PAINT SHALL BE APPLIED PER MASSDOT SPECS. ALL BEARINGS SHALL BE CLEANED AND PAINTED (TYP.).

HINSDALE
OLD WINDSOR ROAD OVER WINDSOR BROOK

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GENERAL NOTES, LOCUS AND INDEX

INDEX OF SHEETS

1. GENERAL NOTES, LOCUS, AND INDEX
2. FRAMING PLAN & TYPICAL CROSS SECTION
3. ABUTMENT ELEVATION & CROSS SECTION
4. GENERAL PLAN
5. STEEL REPAIR NOTES & BACKWALL REPAIRS
6. STEEL BEAM END REPAIR DETAILS
7. JACKING AND SHORING & KEEPER DETAILS
8. DECK REPAIRS
9. DETOUR PLAN
10. SIGN SHEET

13. PRIOR TO THE INSTALLATION OF ANY NEW STEEL, AREAS OF THE EXISTING STEEL THAT ARE TO RECEIVE NEW STEEL SHALL BE THOROUGHLY CLEANED OF PAINT, RUST, SCALE, OR OTHER DELETERIOUS MATERIAL TO SSPC–SP10 CONDITION AND SHALL HAVE A PRIME COAT OF PAINT APPLIED.
14. NO REPAIRS SHALL COMMENCE UNTIL ALL MATERIALS (EXCLUDING CONCRETE) ARE ON HAND FOR THE REPAIR. THIS INCLUDES TRANSFER OF EXISTING HOLE LOCATIONS TO NEW STEEL AND COMPLETION OF SUB DRILLED/PUNCHED HOLES.
15. ALL HOLES IN THE NEW STEEL SHALL BE SUB DRILLED (OR SUB PUNCHED) TO $\frac{11}{16}$"ø AND REAMED FULL SIZE WITH ALL PLIES OF THE CONNECTION OR REPAIR IN PLACE.
16. FIELD DRILLING OF NEW HOLES IN THE EXISTING AND NEW STEEL, FOR INSTALLATION OF HIGH STRENGTH BOLTS, SHALL BE DRILLED 1/16" LARGER THAN THE BOLT DIAMETER. BURNING OR PUNCHING OF HOLES WILL NOT BE ALLOWED.
17. EPOXY COMPOUND FOR STRUCTURAL STEEL REPAIRS SHALL BE A SOLVENT FREE, MOISTURE TOLERANT, EPOXY PASTE ADHESIVE SYSTEM. THE EPOXY PASTE SHALL BE DEVELOPED SPECIFICALLY FOR FILLING, SMOOTHING, SEALING, OR FAIRING APPLICATIONS ON METALS. THE PASTE SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S LATEST WRITTEN INSTRUCTIONS.
19. CLEARING AND GRUBBING ITEM 101. PAY LIMITS SHALL NOT EXCEED 0.15 ACRE PER STRUCTURE UNLESS OTHERWISE DIRECTED BY THE ENGINEER AND ALL CLEARING AND GRUBBING REQUIRED BEYOND THESE LIMITS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND SHALL NOT BE PAID FOR SEPARATELY.
20. BRIDGE IS CURRENTLY CLOSED. DETOUR IS ASSUMED TO ALREADY BE IN SERVICE. FOR TEMPORARY TRAFFIC CONTROL SIGNAL AND SIGN PLANS, REFER TO SHEET 9 & 10.

JULY 18, 2026 | ISSUED FOR CONSTRUCTION

MassDOT Massachusetts Department of Transportation Highway Division

PROPOSED BRIDGE PRESERVATION

DISTRICT 1 – MULTIPLE LOCATIONS

OLD WINDSOR ROAD
OVER WINDSOR BROOK

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION
10 PARK PLAZA BOSTON, MASS

H&H
ONE WASHINGTON MALL
SUITE 1602
BOSTON, MA 02108
(617) 268-2017

SHEET 1 OF 10 SHEETS BRIDGE NO. H–16–006 (04Y)

Proposal No. 616282-135582

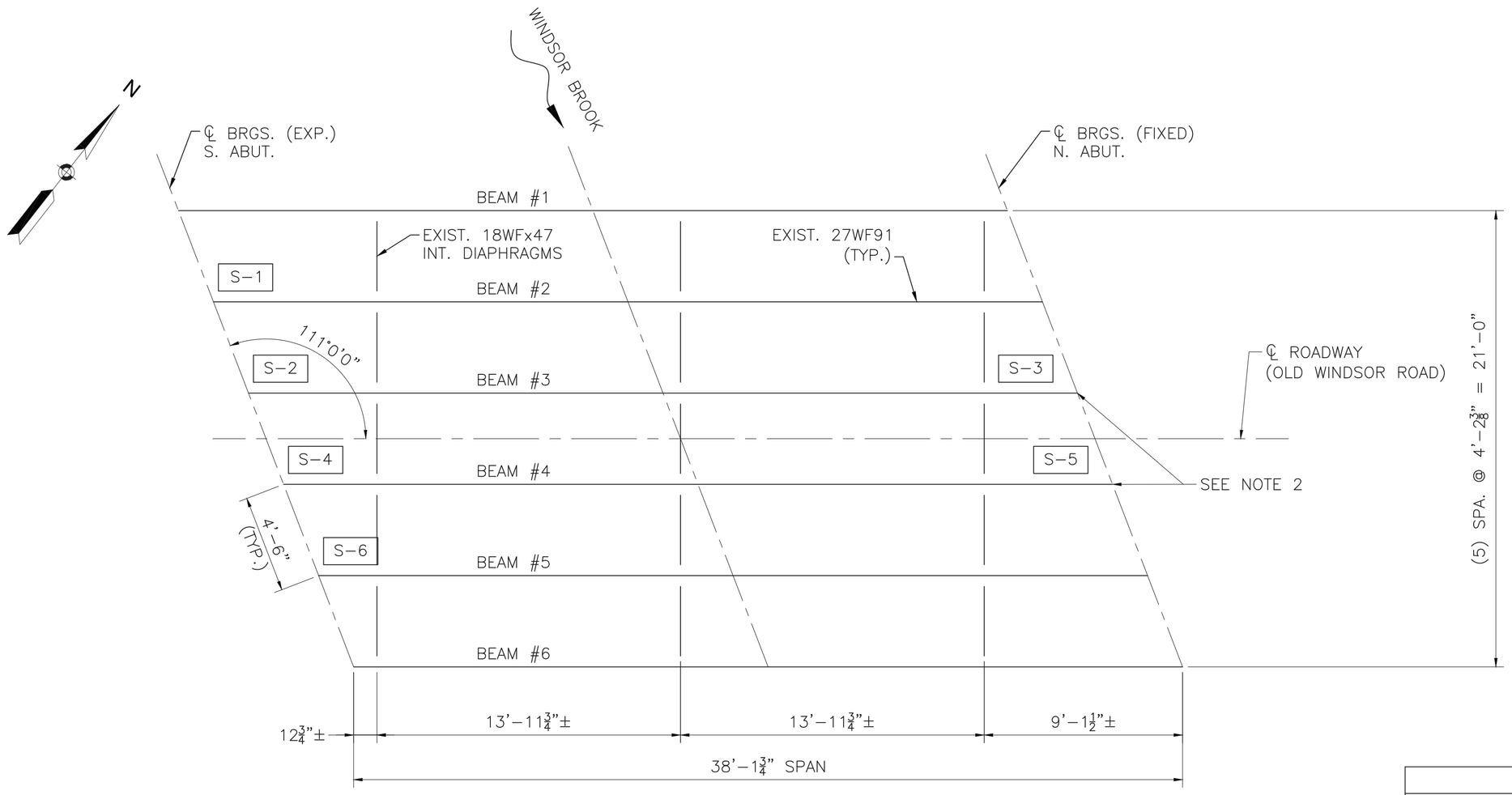
H-16-006 (04Y).DWG Plotted on 1-Jul-2026 9:50 AM

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STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	2	10
PROJECT FILE NO.	616286		

FRAMING PLAN & TYPICAL CROSS SECTION



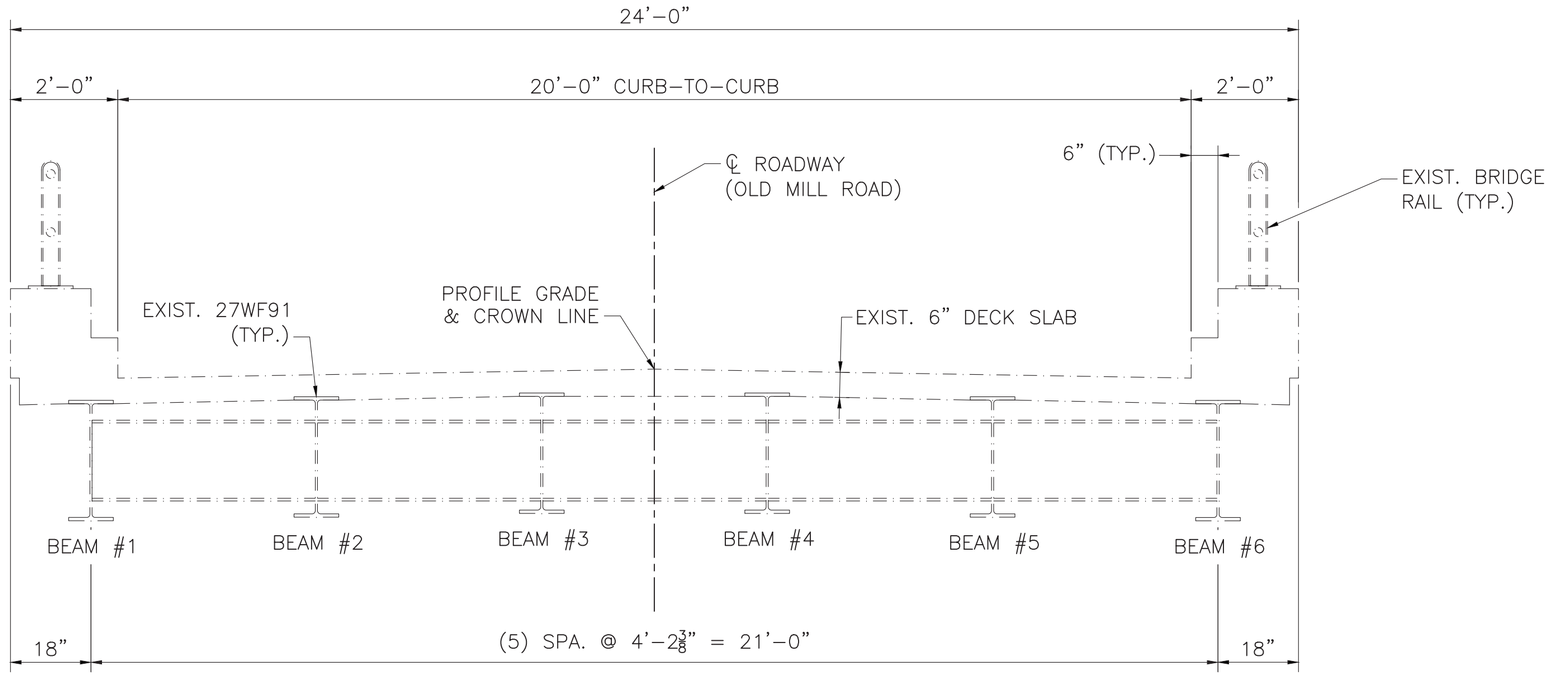
NOTES:

1. THIS STRUCTURE DOES NOT CONTAIN END DIAPHRAGMS.
2. LOCATION OF PROPOSED BEARING KEEPER PLATE (SEE DETAILS ON SHEET 7). THIS WORK SHALL BE PAID UNDER ITEM 107.97 – STRUCTURAL STEEL REPAIRS.

FRAMING PLAN
SCALE: ¼" = 1'-0"

SUPERSTRUCTURE - SCHEDULE OF REPAIRS (STEEL REPAIRS)

REPAIR NO.	BEAM NO.	LOCATION	BEAM SIZE	SHORING REQUIRED	JACKING REQUIRED	REPAIR LENGTH (IN.)	REPAIR HEIGHT (IN.)	NOTES
S-1	B2	S. ABUTMENT	27WF91	NO	NO	68	24.5	SEE SHEET 6 (REPAIR TYPE B)
S-2	B3	S. ABUTMENT	27WF91	NO	NO	33	24.5	SEE SHEET 6 (REPAIR TYPE A)
S-3	B3	N. ABUTMENT	27WF91	NO	NO	68	24.5	SEE SHEET 6 (REPAIR TYPE B)
S-4	B4	S. ABUTMENT	27WF91	NO	NO	33	24.5	SEE SHEET 6 (REPAIR TYPE A)
S-5	B4	N. ABUTMENT	27WF91	NO	NO	33	24.5	SEE SHEET 6 (REPAIR TYPE A)
S-6	B5	S. ABUTMENT	27WF91	NO	NO	33	24.5	SEE SHEET 6 (REPAIR TYPE A)



EXISTING TYPICAL CROSS-SECTION
SCALE: ½" = 1'-0"

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JULY 18, 2026	ISSUED FOR CONSTRUCTION
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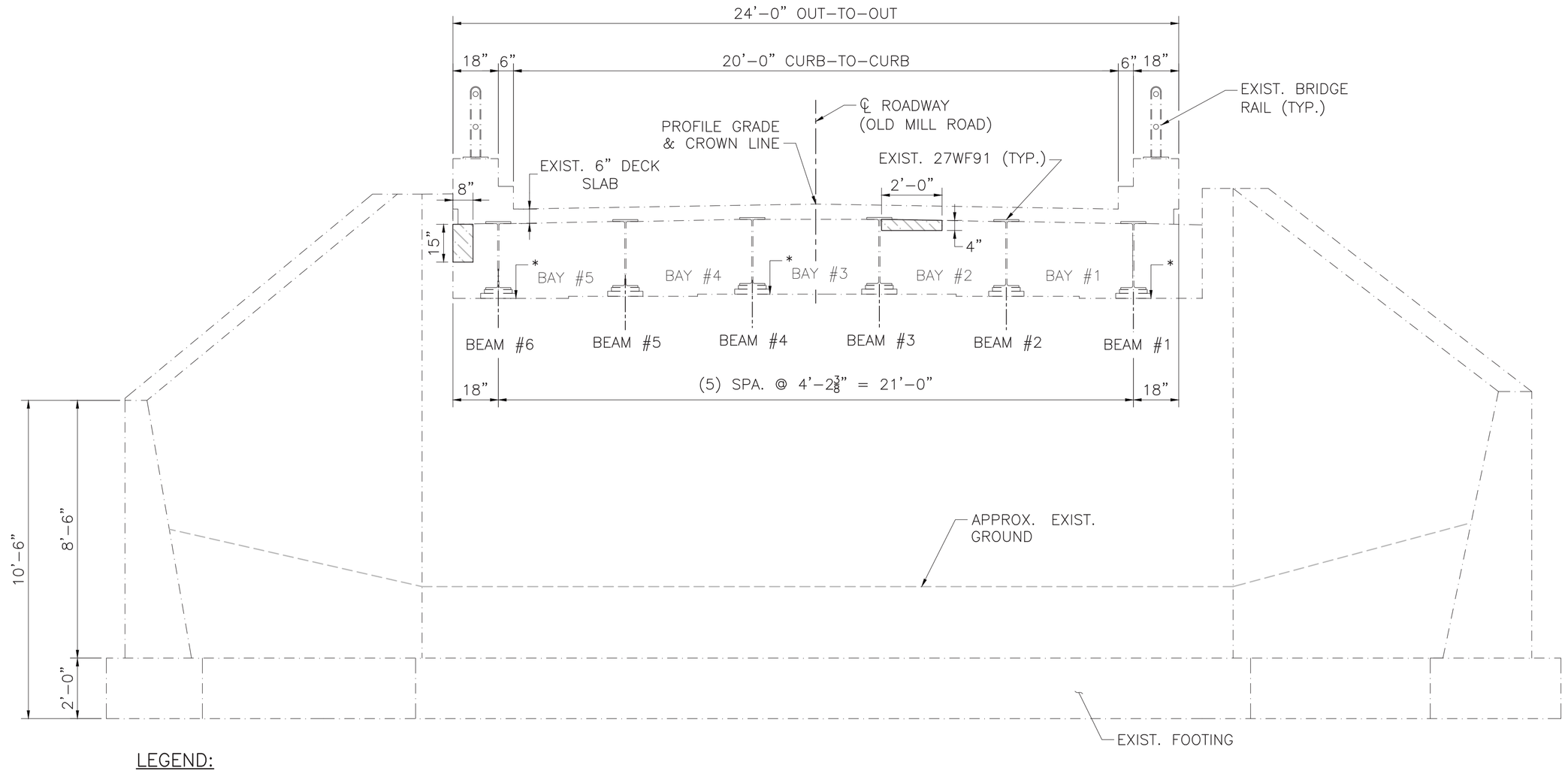
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MA	NFA	3	10
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ABUTMENT ELEVATION & CROSS SECTION



LEGEND:

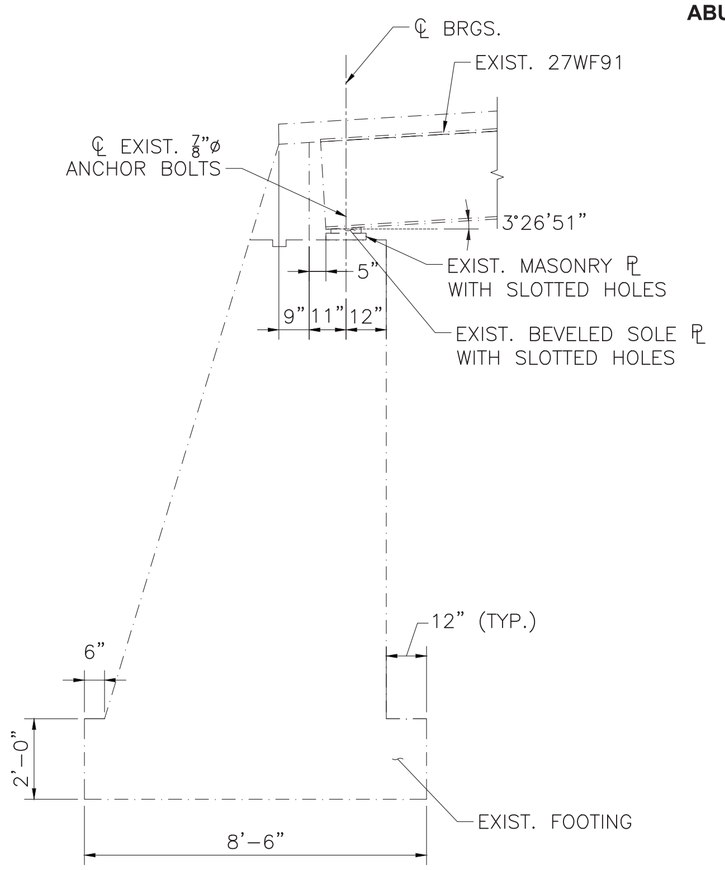
ANTICIPATED LIMITS OF BACKWALL REPAIRS

* LOCATION OF UNDERMINED BEARING WITH ANTICIPATED PROPOSED TEMPORARY SHORING (SEE NOTES)

SOUTH ABUTMENT ELEVATION

SCALE: 3/8" = 1'-0"

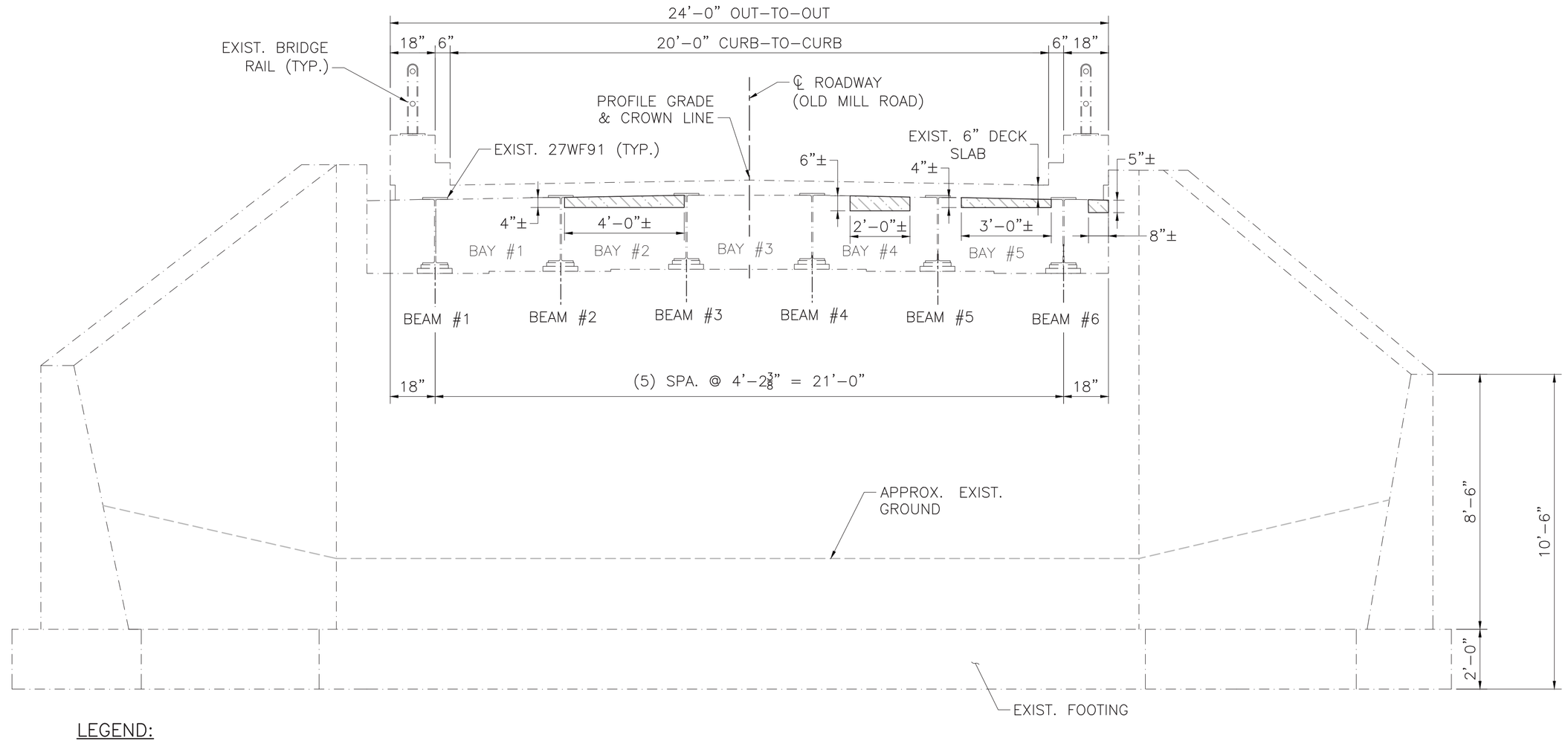
NOTES: BEAM 1 NORTH SIDE BEARING: PARTIALLY UNDERMINED (FULL WIDTH APPROX. 1.5" DEEP)
BEAM 4 BEARING: UNDERMINED (APPROX. 2' LONG x 2" WIDE)
BEAM 6 NORTH FACE BEARING: UNDERMINED (APPROX. 12" LONG x FULL WIDTH x 5" DEEP)



NOTE: SOUTH ABUTMENT SHOWN;
NORTH ABUTMENT SIMILAR, OPPOSITE HAND.

TYPICAL ABUTMENT CROSS-SECTION

SCALE: 3/8" = 1'-0"



LEGEND:

ANTICIPATED LIMITS OF BACKWALL REPAIRS

NORTH ABUTMENT ELEVATION

SCALE: 3/8" = 1'-0"

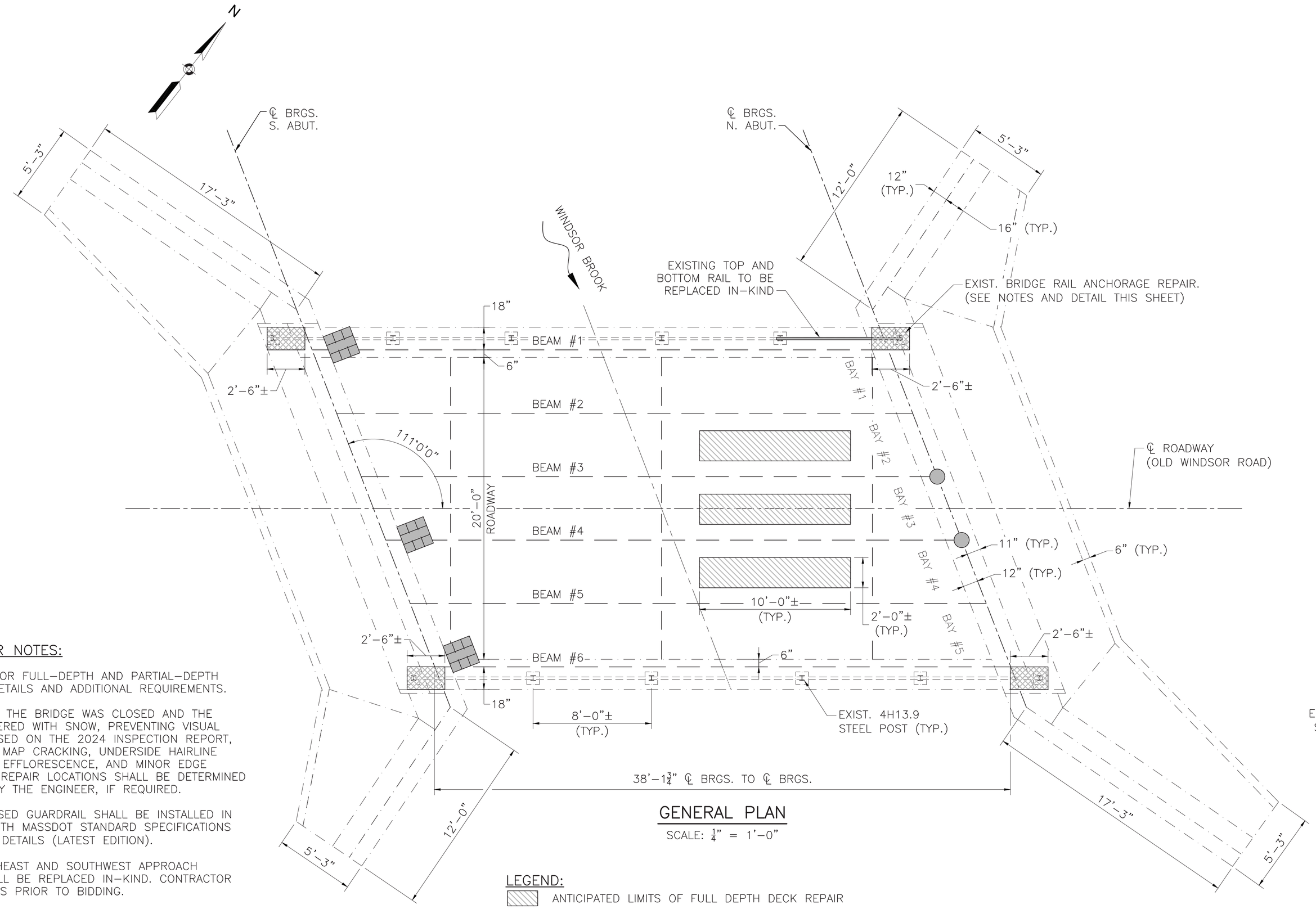
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PROJECT FILE NO.	616286		

GENERAL PLAN



GENERAL PLAN

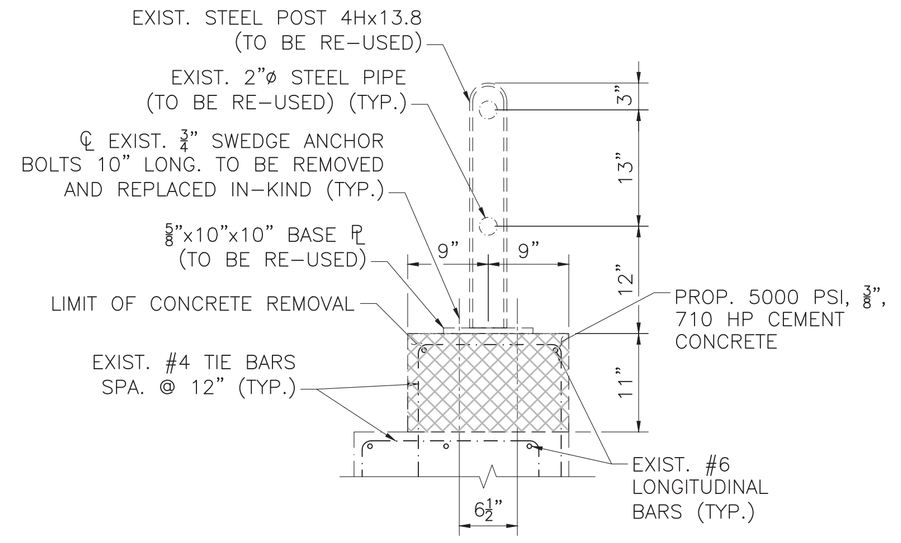
SCALE: ¼" = 1'-0"

LEGEND:

- ANTICIPATED LIMITS OF FULL DEPTH DECK REPAIR
- ANTICIPATED LIMITS OF CURB REPAIR
- LOCATION OF UNDERMINED BEARING WITH ANTICIPATED PROPOSED TEMPORARY JACKING AND SHORING
- LOCATION OF PROPOSED BEARING KEEPER PLATE REPAIR

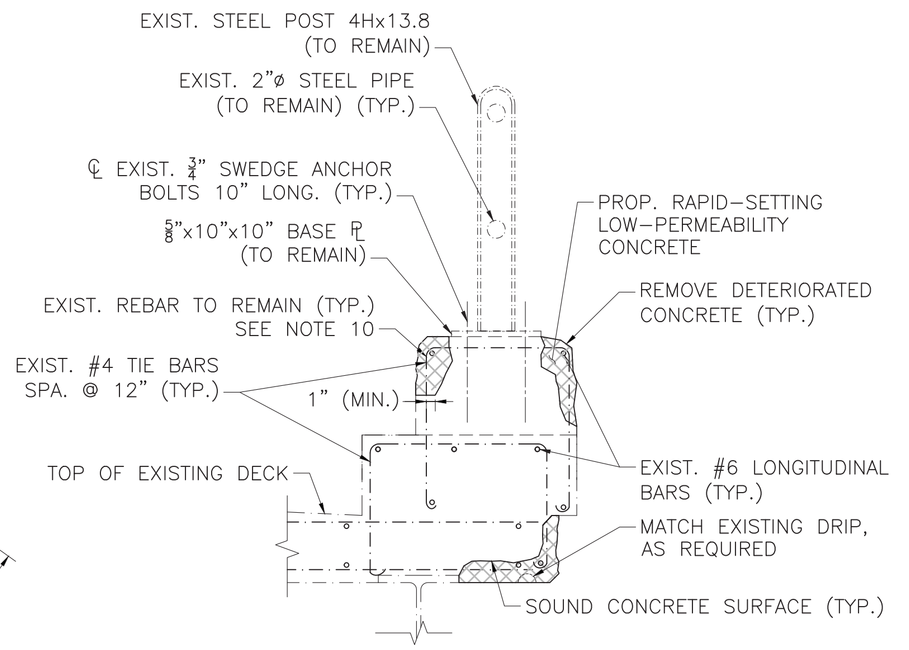
DECK REPAIR NOTES:

1. SEE SHEET 8 FOR FULL-DEPTH AND PARTIAL-DEPTH DECK REPAIR DETAILS AND ADDITIONAL REQUIREMENTS.
2. H&H SITE VISIT: THE BRIDGE WAS CLOSED AND THE DECK WAS COVERED WITH SNOW, PREVENTING VISUAL INSPECTION. BASED ON THE 2024 INSPECTION REPORT, THE DECK HAS MAP CRACKING, UNDERSIDE HAIRLINE CRACKING WITH EFFLORESCENCE, AND MINOR EDGE SPALLS. EXACT REPAIR LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER, IF REQUIRED.
3. TYPICAL PROPOSED GUARDRAIL SHALL BE INSTALLED IN ACCORDANCE WITH MASSDOT STANDARD SPECIFICATIONS AND STANDARD DETAILS (LATEST EDITION).
4. DAMAGED NORTHEAST AND SOUTHWEST APPROACH GUARDRAIL SHALL BE REPLACED IN-KIND. CONTRACTOR TO VERIFY LIMITS PRIOR TO BIDDING.
5. DECK SURFACE SHALL BE SEALED WITH TWO COATS OF METHACRYLATE IN ACCORDANCE WITH MASSDOT STANDARD SPECIFICATIONS AND THE CONTRACT SPECIAL PROVISIONS. SURFACE PREPARATION, APPLICATION, AND CURING SHALL FOLLOW THE MANUFACTURER'S RECOMMENDATIONS



RAIL ANCHORAGE REPAIR DETAIL

SCALE: 1" = 1'-0"



TYPICAL CURB REPAIRS

SCALE: 1" = 1'-0"

NOTE:

1. AT THE TIME OF INSPECTION, THE BRIDGE WAS SNOW COVERED. INDICATED REPAIR LIMITS ARE APPROXIMATE AND REPRESENT GENERAL AREAS WHERE REPAIRS ARE ANTICIPATED. CONTRACTOR SHALL VERIFY ACTUAL LIMITS IN THE FIELD, AND THE CONSTRUCTION ENGINEER SHALL CONFIRM FIELD CONDITIONS PRIOR TO EXECUTION OF WORK. ALL REPAIR AREAS SHALL BE PREPARED IN ACCORDANCE WITH MASSDOT STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. TYPICAL CURB REPAIRS ARE INCLUDED AS A CONTINGENCY AS THE CURBS WERE HIDDEN BY SNOW DURING INSPECTION.

BRIDGE RAIL BASEPLATE ANCHORS AND CURB REPAIR NOTES:

1. REMOVE CONCRETE CURB AS REQUIRED TO REMOVE EXISTING ANCHOR BOLTS. REMOVE ALL ADJACENT LOOSE OR DETERIORATED CONCRETE.
2. INSTALL ¾"ø x 10" LONG SWEDGE ANCHOR BOLTS, CAST INTO NEW CONCRETE PRIOR TO PLACEMENT OF BASEPLATES. LOCATE AND ALIGN ANCHORS TO MATCH EXISTING FIELD CONDITIONS.
3. RECONSTRUCT CURB TO MATCH EXISTING LINE, GRADE, AND CROSS SLOPE. PATCH DISTURBED AREAS.
4. PLACE BASEPLATES OVER EMBEDDED ANCHORS. INSTALL WASHERS AND HEX NUTS AFTER CONCRETE REACHES DESIGN STRENGTH AND SEAL EXPOSED PERIMETERS WITH AN ELASTOMERIC SEALANT IN ACCORDANCE WITH MASSDOT STANDARD SPECIFICATIONS TO PREVENT MOISTURE INTRUSION.
5. REMOVE ALL DIRT, DEBRIS, LOOSE MATERIAL, AND UNSOUND CONCRETE FROM CURB SURFACES WITHIN REPAIR LIMITS.
6. PREPARE ALL CONCRETE REPAIR SURFACES BY MECHANICAL MEANS TO SOUND, CLEAN CONCRETE. PROVIDE A ROUGHENED SURFACE WITH A MINIMUM 1/4 IN. AMPLITUDE.
7. ALL EXISTING REINFORCING STEEL TO REMAIN SHALL BE ABRASIVELY BLAST CLEANED TO REMOVE RUST, OIL, AND LOOSE SCALE.
8. CLEAN ALL PREPARED SURFACES WITH COMPRESSED AIR TO REMOVE DUST AND LOOSE PARTICLES PRIOR TO PLACEMENT OF REPAIR MATERIAL.
9. ALL EXISTING CONCRETE SURFACES TO RECEIVE REPAIR MATERIAL SHALL BE PRE-WETTED FOR A MINIMUM OF 24 HOURS AND BROUGHT TO A SATURATED SURFACE DRY (SSD) CONDITION IMMEDIATELY PRIOR TO PLACEMENT.
10. 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.
11. SURFACE PREPARATION, CLEANING, AND CONDITIONING SHALL CONFORM TO THE MASSDOT STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

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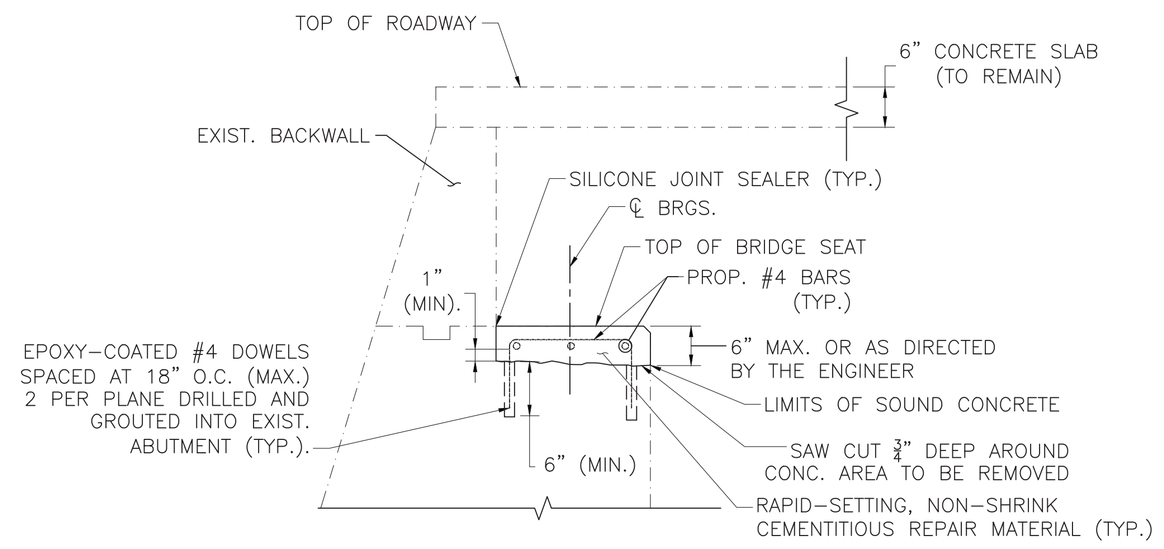
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STEEL REPAIR NOTES & BACKWALL REPAIRS

STEEL REPAIR NOTES:

1. SEE SHEET 6 FOR STEEL REPAIR DETAILS.
2. CLEAN THE CONTACT SURFACES OF EXISTING STEEL IN ACCORDANCE WITH SPECIAL PROVISIONS. THE CONTACT SURFACES SHALL BE FREE OF CONTAMINATES, OIL, AND GREASE.
3. STEEL IS TO BE PRIMED AFTER CLEANING AND PRIOR TO INSTALLATION OF ANY REPAIR MEMBERS. SEE GENERAL NOTES.
4. ENGINEER TO INSPECT CLEANED REPAIR AREA AND VERIFY REPAIR LIMITS BASED ON CONDITIONS EXPOSED BY CLEANING.
5. THE BEAM SHALL BE INSPECTED FOR DAMAGE DUE TO CONTRACTOR OPERATIONS. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTORS' EXPENSE.
6. THE CONTRACTOR SHALL INSTALL FLANGE BOLTS AND CLAMP AREAS WHERE FLANGE BOLTS ARE NOT REQUIRED PRIOR TO DRILLING HOLES FOR WEB BOLTS.
7. FIELD DRILL HOLES IN BEAM WEB TO MATCH HOLE PATTERN IN FABRICATED ANGLE CONNECTION AND WEB REPAIR PLATES.
8. IN LOCATIONS WHERE HEAVY DETERIORATION HAS OCCURRED OR AS DIRECTED BY THE ENGINEER, EPOXY REPAIR FAIRING COMPOUND SHALL BE APPLIED OVER THE PRIME COAT AS FOLLOWS:
   A. THE EPOXY REPAIR COMPOUND SHALL BE APPLIED TO THE DETERIORATED AREAS (WEB & FLANGE WHERE NEW PLATES ARE TO BE INSTALLED) IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL THE METHODS, PROCEDURES, AND MATERIALS TO BE USED FOR THE WORK.
   B. THE REPAIR COMPOUND SHALL ONLY BE APPLIED TO THOSE AREAS OF THE EXISTING STEEL THAT EXHIBIT SEVERE SECTION LOSS TO COMPLETELY FILL THE IRREGULARITIES IN THE EXISTING STEEL SURFACES SUCH THAT NO VOIDS REMAIN BETWEEN THE PLIES OF THE EXISTING STEEL AND THE PROPOSED STRENGTHENING STEEL IN THE FINAL REPAIRED CONDITION.
   C. THE PROPOSED REPAIR STEEL SHALL BE PROPERLY POSITIONED AND BROUGHT INTO FIRM CONTACT WITHIN THE WORKING TIME LIMITS OF THE EPOXY REPAIR COMPOUND. THE REPAIR STEEL SHALL BE SECURED IN PLACE USING POSITIONING BOLTS TENSIONED TO A SNUG TIGHT CONDITION AND CLAMPS OR OTHER MECHANICAL MEANS TO BRING THE PLIES OF THE EXISTING STEEL AND NEW STEEL INTO FIRM CONTACT. WELDING IS NOT ALLOWED.
   D. ONCE THE PROPOSED STEEL HAS BEEN SECURED INTO POSITION WITH THE POSITIONING BOLTS, AND THE EPOXY COMPOUND HAS CURED, THE REMAINING H.S. BOLTS SHALL BE INSTALLED FOLLOWING THE PROCEDURE OUTLINED IN THE GENERAL NOTES.
   E. EPOXY COMPOUND FOR STRUCTURAL STEEL REPAIRS SHALL BE A SOLVENT FREE, MOISTURE TOLERANT, EPOXY PASTE ADHESIVE SYSTEM. THE EPOXY PASTE SHALL BE DEVELOPED SPECIFICALLY FOR FILLING, SMOOTHING, SEALING, OR FAIRING APPLICATIONS ON METALS. THE PASTE SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S LATEST WRITTEN INSTRUCTIONS. AN ACCEPTABLE PRODUCT SHALL BE ONE OF THE FOLLOWING OR AN APPROVED EQUAL: TW PHILADELPHIA RESINS REPAIR COMPOUND MANUFACTURED BY: ITW PHILADELPHIA RESINS, SIKADUR 31, HI–MOD GEL MANUFACTURED BY: SIKA CORPORATION, DEVCON PLASTIC STEEL PUTTY (A) MANUFACTURED BY: ITW DEVCON, FX–738 METAL FILLED EPOXY MANUFACTURED BY: SIMPSON STRONG TIE.
9. REPAIR STEEL ELEMENTS SHALL BE FIELD BOLTED TO EXISTING STEEL MEMBERS USING HIGH–STRENGTH BOLTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. SEE GENERAL NOTES FOR SURFACE PREPARATION AND COATING REQUIREMENTS.
10. ALL STRUCTURAL STEEL PLATES AND ANGLES SHALL CONFORM TO AASHTO M270 AND/OR DUAL CERTIFIED WITH ASTM A709, GRADE 36 OR 50 DESIGNATION. CHARPY V–NOTCH TESTING IS REQUIRED FOR MAIN MEMBER REPAIR, ACCORDING TO MASSDOT STANDARD SPECIFICATIONS.
11. IN THE CASE THAT ANY STEEL REPAIR ANGLE INTERFERES WITH THE EXISTING ANCHOR BOLT, A LEG OF THE ANGLE CAN BE COPED TO PROVIDE CLEARANCE AROUND THE EXISTING ANCHOR BOLT.
12. SEAL PERIMETER OF ALL STEEL WITH SILICONE CAULK.
13. FOR ADDITIONAL NOTES, SEE BRIDGE GENERAL NOTES ON SHEET 1.



ABUTMENT SEAT REPAIR DETAIL

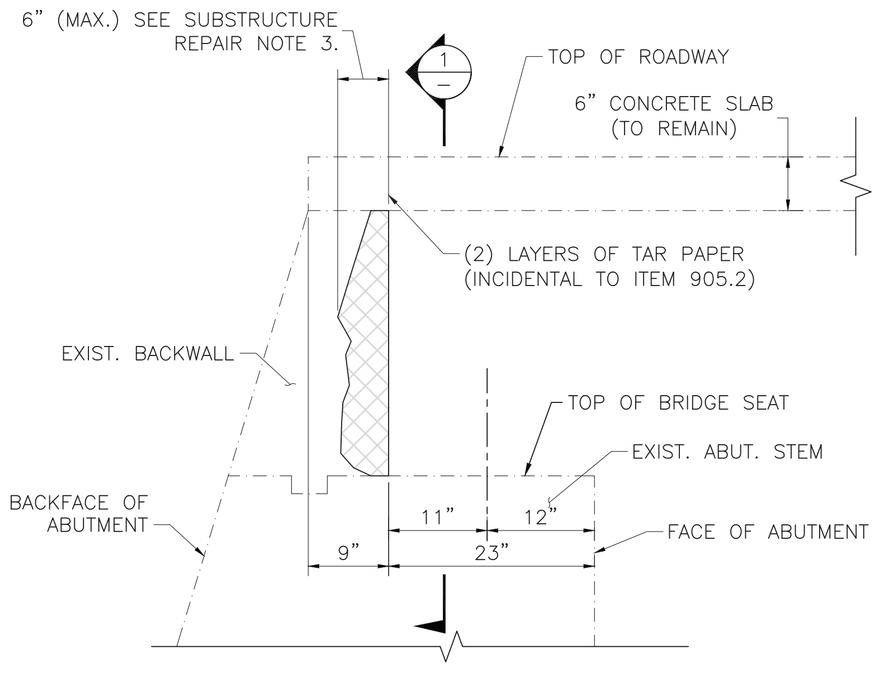
SCALE: ¾" = 1'–0"

NOTES:

1. SEE SHEET 4 FOR ANTICIPATED SHORING LOCATIONS REQUIRED FOR ABUTMENT SEAT REPAIR. INSTALL SHORING PRIOR TO START OF WORK.
2. DRILL HOLE DIAMETER SHALL BE DOWEL DIAMETER PLUS 1 INCH, OR AS RECOMMENDED BY THE GROUT MANUFACTURER.

SUBSTRUCTURE REPAIR NOTES:

1. RAPID SETTING LOW PERMEABILITY CONCRETE (VERTICAL). MATERIAL SHALL BE FROM THE MASSDOT QCML (M4.04.2). REPAIR SHALL BE FORMED AND PUMPED, AS REQUIRED. SUBMIT MEANS AND METHODS TO THE ENGINEER FOR REVIEW.
2. IF THERE IS LESS THAN 1½" CONCRETE COVER, THEN THE CONTRACTOR SHALL BUILD OUT THE FORM TO ENSURE A MINIMUM OF 1½" COVER.
3. MAXIMUM CONCRETE REMOVAL DEPTH SHALL BE 6". WITHIN THE TOP 6" OF THE BACKWALL, DOWEL EMBEDMENT SHALL BE LIMITED TO 3" TO PREVENT DOWELS FROM PUNCHING THROUGH. NOTIFY THE ENGINEER IF ADDITIONAL REMOVAL IS REQUIRED.
4. PROPOSED ABUTMENT SEAT REPAIRS AT BEAMS 1, 4, AND 6 (SOUTH ABUTMENT). CONTRACTOR SHALL CLEAN UNDERSIDE OF UNDERMINED BEARINGS AND EXCAVATE TOP OF ABUTMENT SEAT TO SOUND MATERIAL. INSTALL APPROVED PRE–PACKAGED, NON–SHRINK CEMENTITIOUS REPAIR MATERIAL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND MASSDOT STANDARD (M4.04.2) SPECIFICATIONS. TEMPORARY SHORING SHALL BE CONTRACTOR–DESIGNED AND SUBMITTED FOR REVIEW BY THE ENGINEER. SUBMIT MEANS AND METHODS FOR REVIEW PRIOR TO INSTALLATION.
5. SEE SHEET 3 FOR GENERAL SUBSTRUCTURE REPAIR LOCATIONS.
6. FOR ADDITIONAL NOTES, SEE BRIDGE GENERAL NOTES ON SHEET 1.

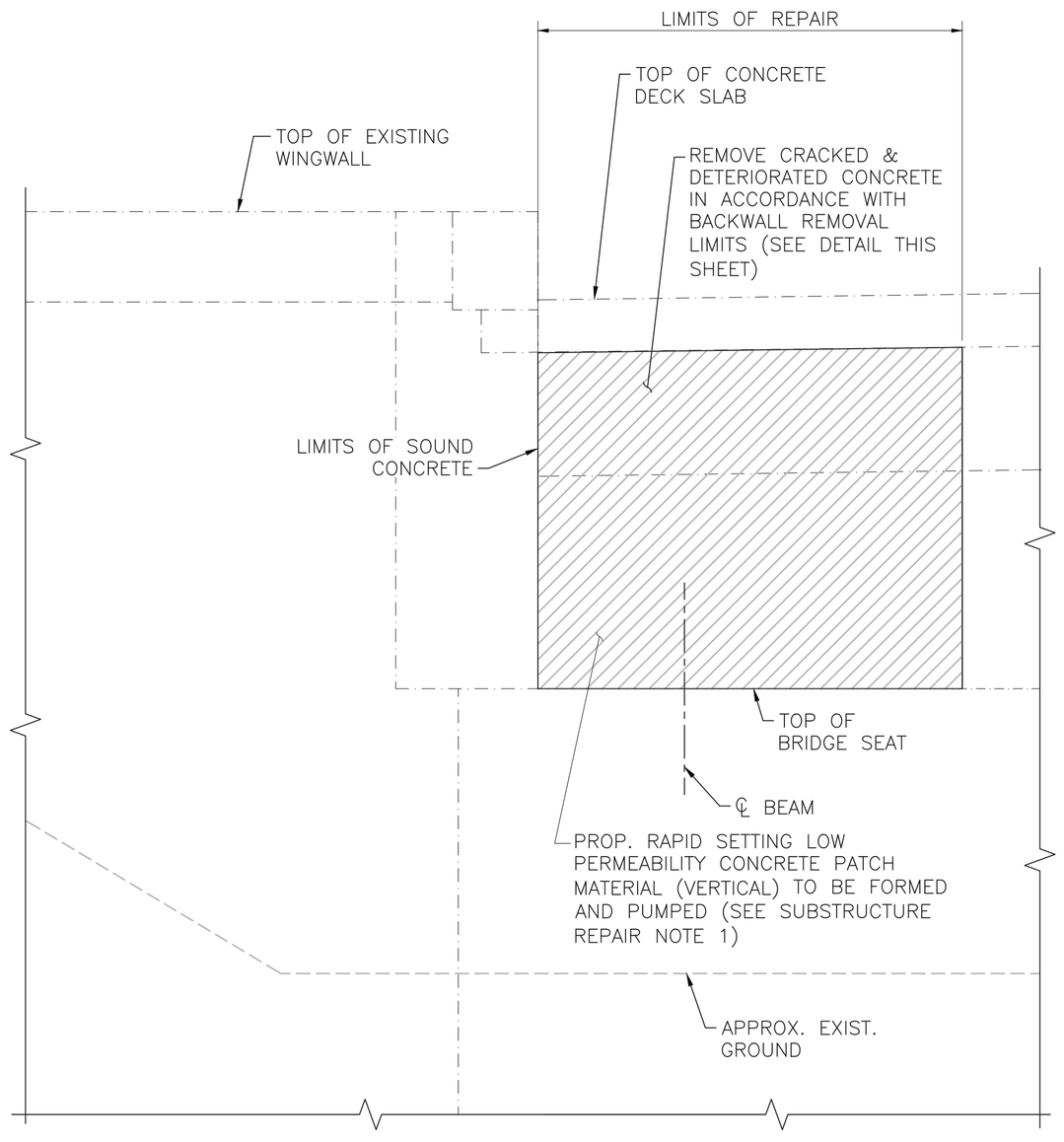


BACKWALL REMOVAL LIMITS

SCALE: 1" = 1'–0"

NOTE:

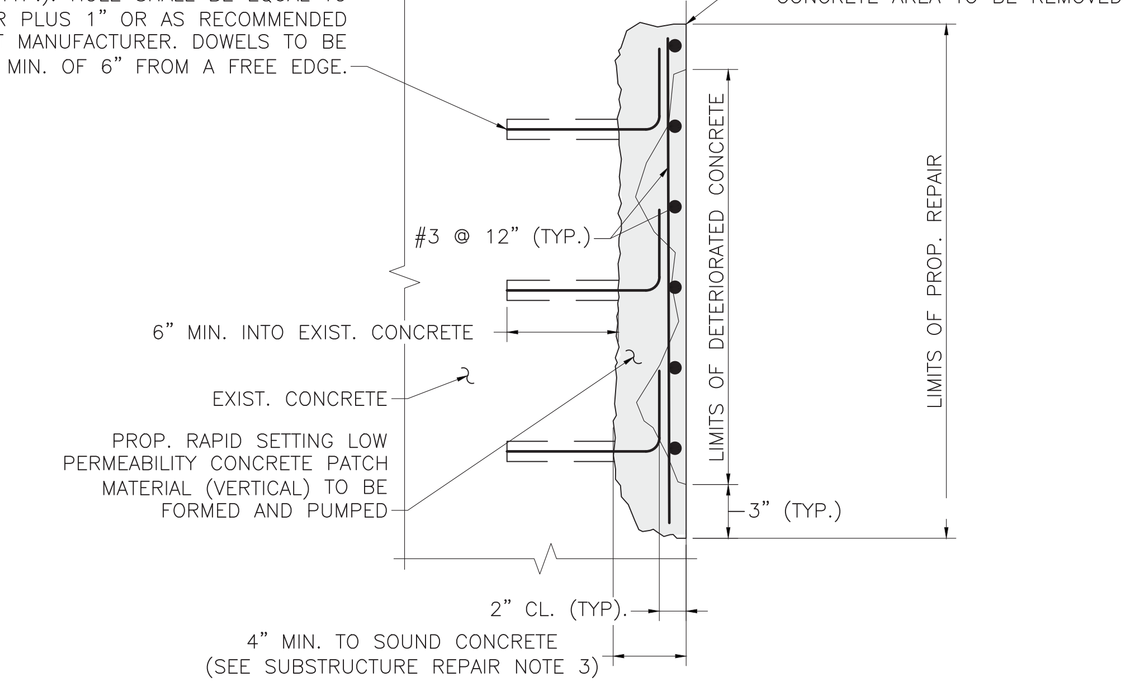
1. SEE SHEETS 3 FOR ABUTMENT BACKWALL REPAIR LIMITS.



SECTION 1 / –

SCALE: 1" = 1'–0"

EPOXY–COATED #3 DOWELS SPACED AT 18" O.C. DRILLED AND GROUTED INTO EXIST. ABUTMENT EACH WAY (TYP.). HOLE SHALL BE EQUAL TO DOWEL DIAMETER PLUS 1" OR AS RECOMMENDED BY THE GROUT MANUFACTURER. DOWELS TO BE PLACED A MIN. OF 6" FROM A FREE EDGE.



UNREINFORCED CONCRETE REPAIR DETAIL

NOT TO SCALE

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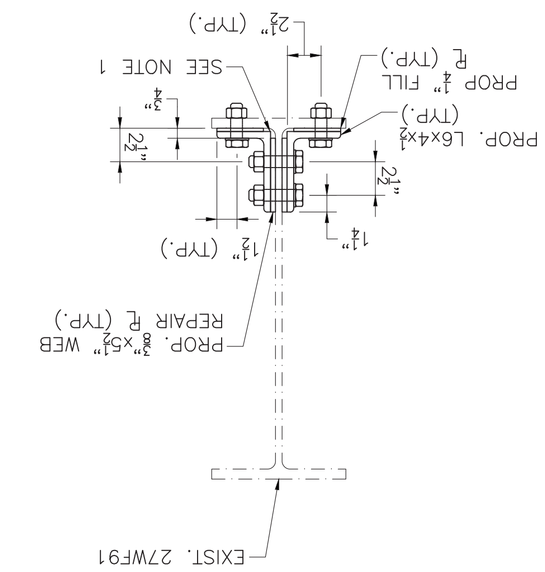
A00803 - 41

H-16-006 (04Y).DWG Plotted on 1-Jul-2026 9:50 AM

Proposal No. 616282-135582

REPAIR TYPE A

SCALE: $1\frac{1}{2}$" = 1'–0"



SECTION

SCALE: $1\frac{1}{2}$" = 1'–0"

2

NOTES:

1. GRIND HEEL OF ANGLE OR END OF PLATE AS NECESSARY TO CLEAR FILLETS OF EXISTING MEMBERS.
2. BEAMS ARE SLOPED ~3.5° AT THE BEARINGS. FIELD VERIFY DURING INSTALLATION. PLATES AND ANGLES TO BE INSTALLED SQUARE TO THE EXISTING BEAMS.

LEGEND:

APPROXIMATE AREA OF SECTION LOSS

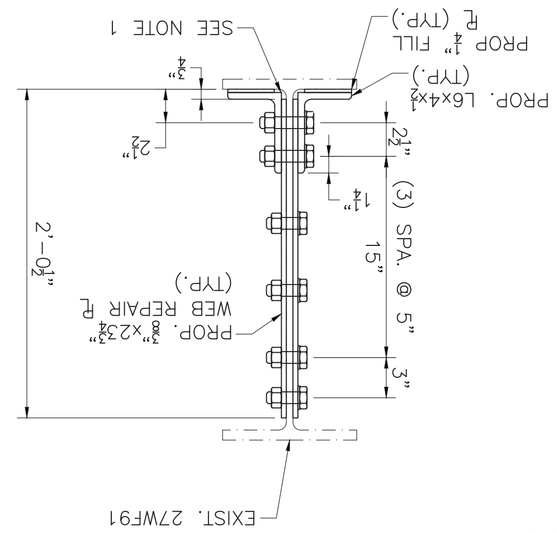
NEW H.S. BOLT IN NEW HOLE

EXISTING BOLT (TO REMAIN)

REPAIR TYPE B

SCALE: $1\frac{1}{2}$" = 1'–0"

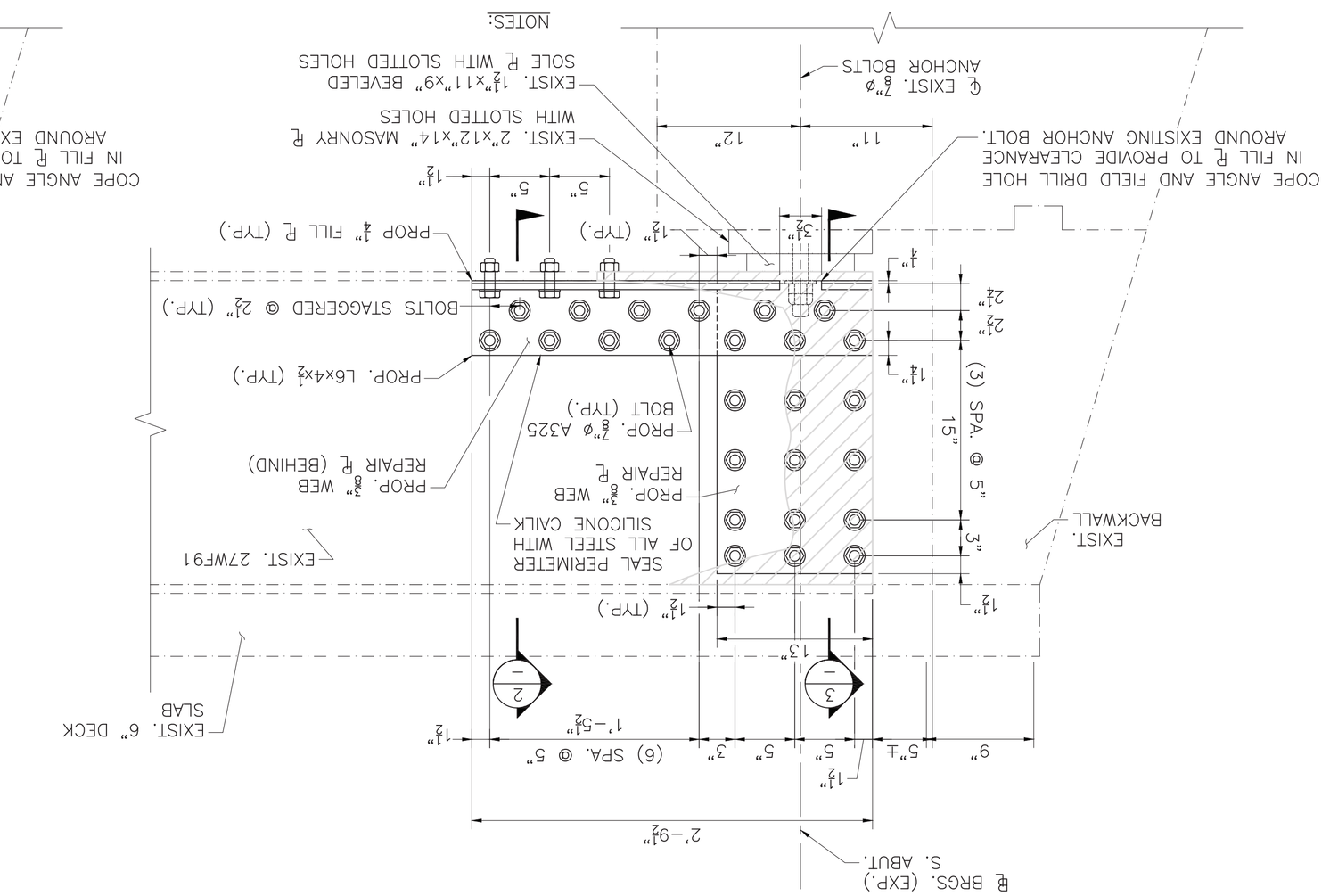
1. REPAIRS S–2 (B3) AT THE SOUTH ABUTMENT SHOWN, AND REPAIRS, S–4 (B4), AND S–6 (B5) SOUTH ABUTMENT SIMILAR.
2. REPAIR S–5 (B4) AT THE NORTH ABUTMENT; SIMILAR, OPPOSITE HAND.
3. SEE SHEET 5 FOR STEEL REPAIR NOTES AND SHEET 1 FOR GENERAL NOTES.
3. IF JACKING IS REQUIRED FOR INSTALLATION OF THE STEEL REPAIRS SHALL BE PAID FOR UNDER ITEM 160.88.

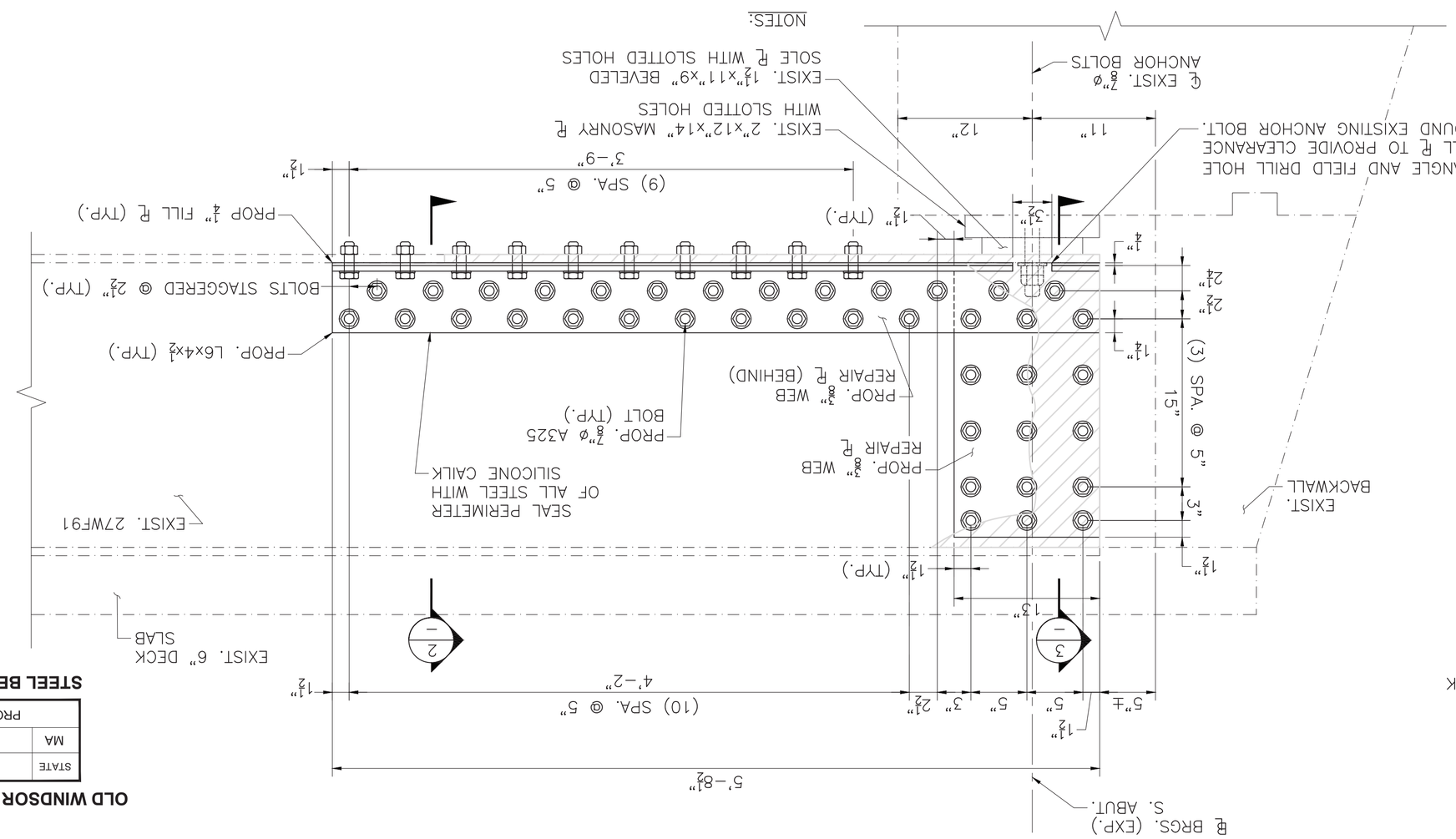


SECTION

SCALE: $1\frac{1}{2}$" = 1'–0"

3





1. REPAIR S–1 BEAM 2 SOUTH ABUTMENT SHOWN. REPAIR S–3 BEAM 3 (NORTH ABUTMENT) SIMILAR, OPPOSITE HAND.
2. SEE SHEET 5 FOR STEEL REPAIR NOTES AND SHEET 1 FOR GENERAL NOTES.
3. IF JACKING IS REQUIRED FOR INSTALLATION OF THE STEEL REPAIRS SHALL BE PAID FOR UNDER ITEM 160.88.

STEEL BEAM END REPAIR DETAILS

HINSDALE
OLD WINDSOR ROAD OVER WINDSOR BROOK

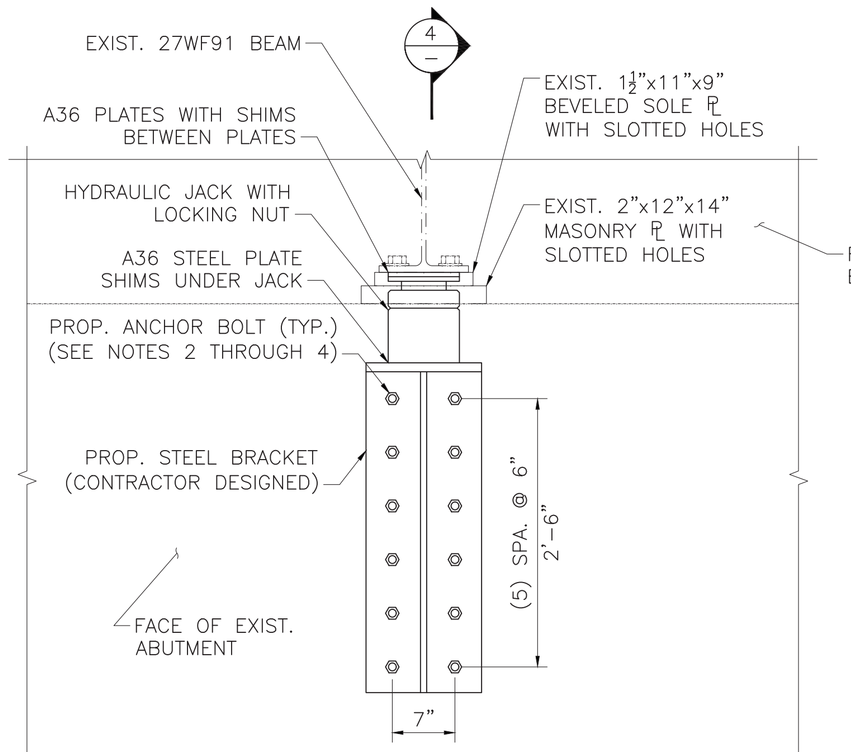
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	6	10
PROJECT FILE NO. 616286			

H-16-006 (04Y).DWG Plotted on 1-Jul-2026 9:50 AM

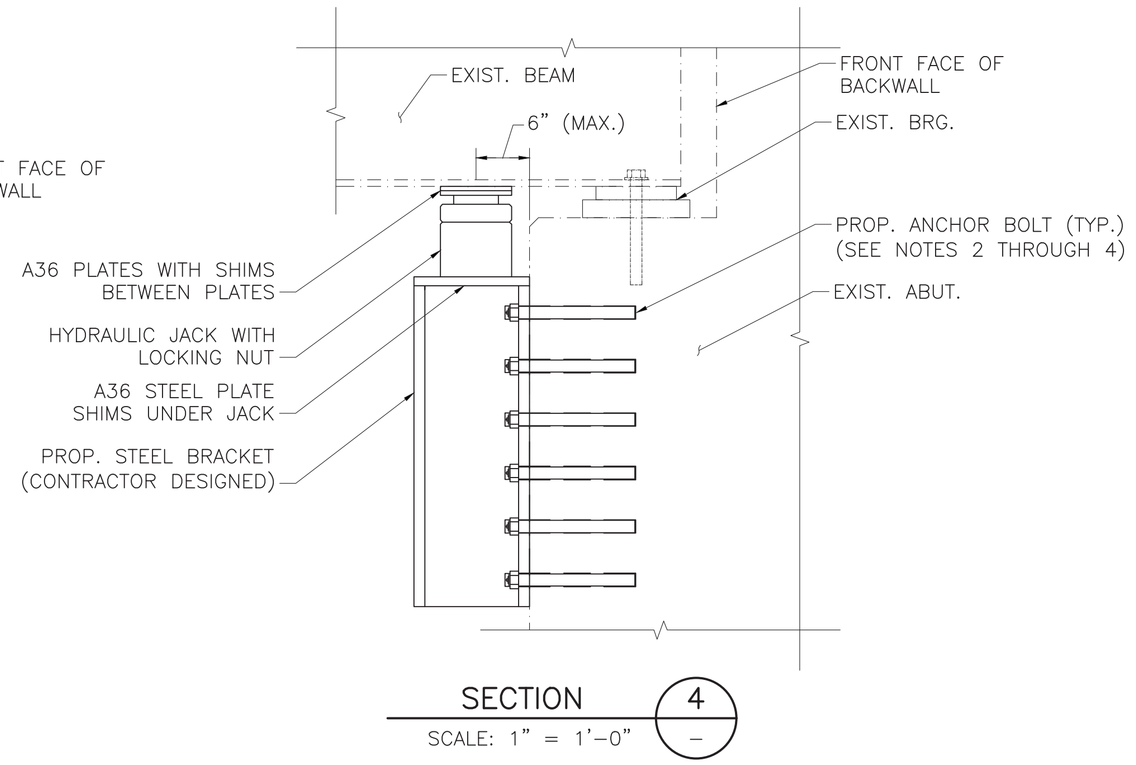
HINSDALE
OLD WINDSOR ROAD OVER WINDSOR BROOK

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	7	10
	PROJECT FILE NO. 616286		

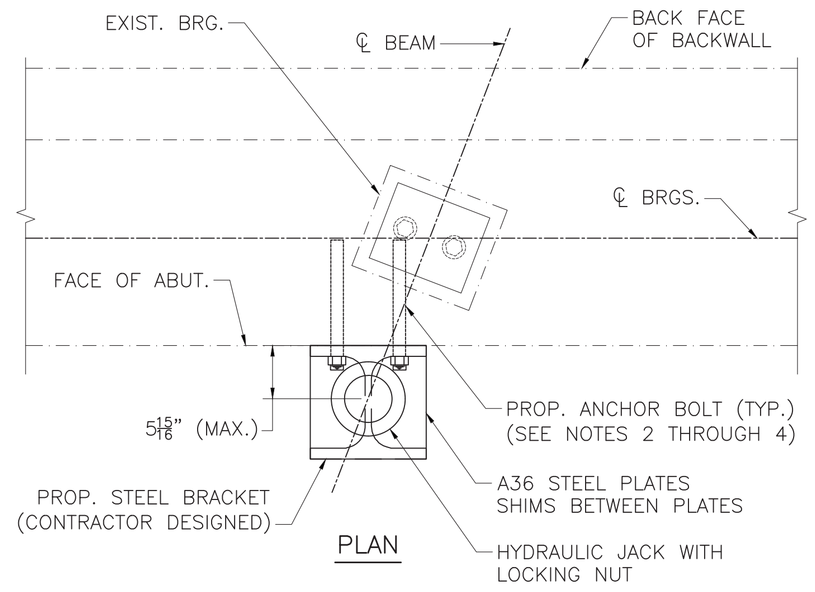
JACKING AND SHORING & KEEPER DETAILS



ELEVATION



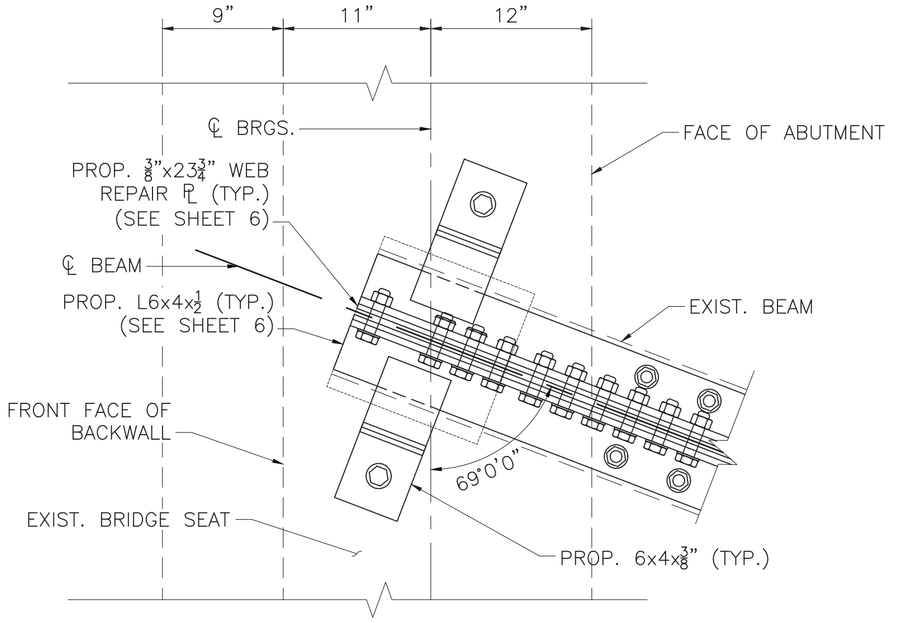
SECTION 4/–
SCALE: 1" = 1'-0"



PLAN

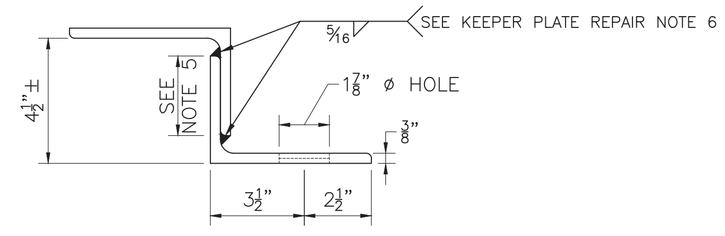
JACKING AND SHORING SYSTEM DETAIL

NOT TO SCALE



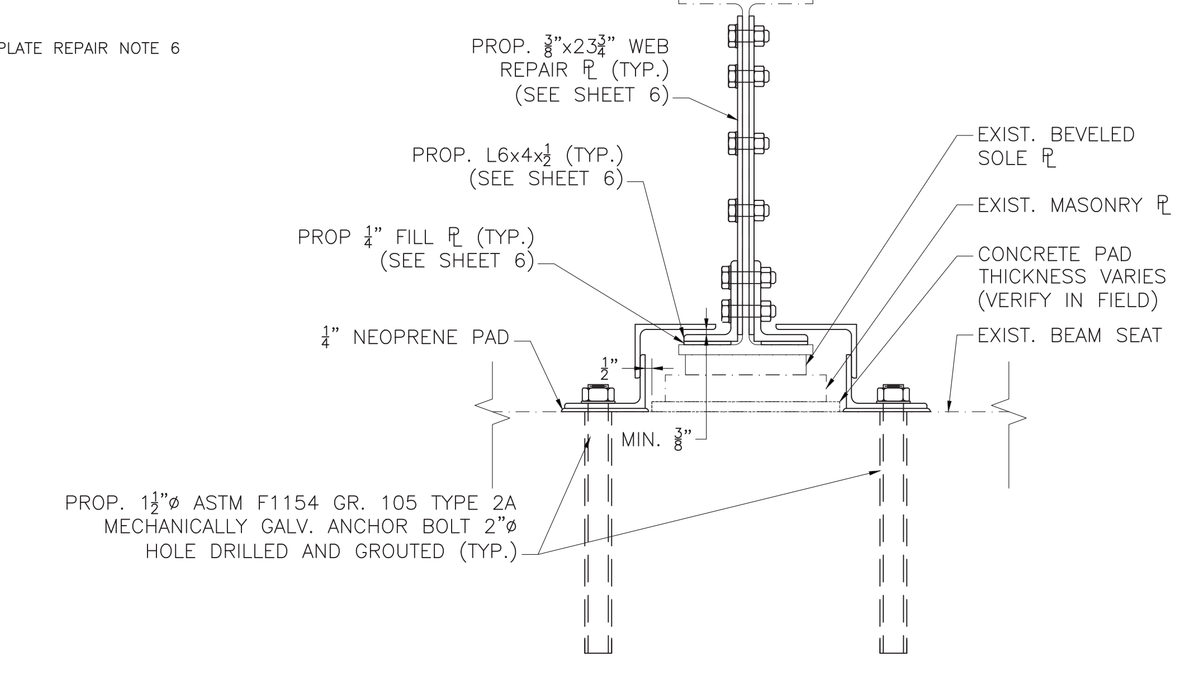
BEARING KEEPER PLATE PLAN VIEW

SCALE: 1½" = 1'-0"



KEEPER PLATE DETAIL

SCALE: 3" = 1'-0"



BEARING KEEPER PLATE SECTION

SCALE: 1½" = 1'-0"

JACKING NOTES:

1. THE PLATE BENEATH THE STEEL GIRDER SHALL BE ATTACHED TO THE BOTTOM FLANGE OF THE GIRDER USING C-CLAMPS.
2. ANCHOR BOLTS SHALL BE INSTALLED INTO THE EXISTING FACE OF THE ABUTMENT IN THE CONFIGURATION SHOWN ON THIS SHEET AT THE LOCATIONS SHOWN ON SHEETS 10 THROUGH 12 OF THIS PLAN SET.
3. DESIGN LOAD USED FOR SHORING TO EXCEED CALCULATED UNFACTORED DEAD LOAD OF 37 KIPS. JACKING AND SHORING SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR USING WORKING STRESS DESIGN (ASD).
4. THE ANCHOR BOLTS FOR THE STEEL BRACKET SHALL PROVIDE A MINIMUM SHEAR CAPACITY OF 3.08 KIPS AND A MINIMUM TENSION CAPACITY OF 2.64 KIPS. SHEAR AND TENSION DEMANDS SPECIFIED ARE BASED ON WORKING STRESS DESIGN AND THE SPECIFIC ANCHOR LAYOUT SHOWN ON THESE PLANS. CHANGES TO THE ANCHOR LAYOUT WILL REQUIRE REVISED ANCHOR CALCULATIONS TO BE INCLUDED IN THE CONTRACTOR'S SUBMITTAL.
5. THE CONTRACTOR SHALL SIZE THE ANCHOR BOLTS, INCLUDING DIAMETER, MINIMUM LENGTH, AND EMBEDMENT, BASED ON THE MANUFACTURER'S RECOMMENDATIONS TO PROVIDE THE MINIMUM SHEAR AND TENSILE CAPACITY VALUES REQUIRED IN NOTE 3.
6. THE CONTRACTOR SHALL TAKE CARE TO INSTALL THE BRACKET SO THAT THE CENTER OF THE BRACKET IS LOCATED UNDER THE BEAM IN FRONT OF THE ABUTMENT, AND THE JACK IS CENTERED DIRECTLY UNDER THE BEAM WEB.
7. THE CONTRACTOR SHALL BE COMPENSATED FOR JACKING AND SHORING IN ACCORDANCE WITH THE LOCATIONS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. TEMPORARY SHORING INSTALLED FOR THE CONTRACTOR'S CONVENIENCE SHALL BE INCIDENTAL AND NO ADDITIONAL COMPENSATION WILL BE MADE.
8. JACKING OPERATIONS ARE NOT PERMITTED UNDER TRUCK LIVE LOAD (LL), AND THAT VEHICULAR TRAFFIC MAY ONLY BE RESTORED AFTER THE STRUCTURE IS PROPERLY JACKED, SUPPORTED, AND LOCKED OFF.

KEEPER PLATE REPAIR NOTES:

1. THIS DETAIL SHALL BE UTILIZED AT ALL LOCATIONS WHERE ANCHOR BOLT REPLACEMENT IS PROPOSED.
2. CONTRACTOR SHALL HAND TOOL CLEAN THE EXISTING BEARING SURFACES AND BRIDGE SEAT PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL SEQUENCE KEEPER PLATE REPAIR WORK TO NOT INTERFERE WITH BEAM END REPAIRS AT THE SAME LOCATION.
4. CONTRACTOR SHALL NOT INSTALL NEW KEEPER PLATES UNTIL ALL CONTACT SURFACES HAVE BEEN CLEANED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
5. ANGLE LEG OVERLAP SHALL BE ADJUSTED AS REQUIRED TO ACHIEVE MINIMUM CLEARANCE TO BEAM BOTTOM FLANGE
6. FILLET WELD SHALL TERMINATE ¼" BEFORE ENDS OF ANGLE LEG.
7. KEEPER PLATE SHALL BE GALVANIZED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
8. KEEPER PLATES AND ALL ASSOCIATED MATERIALS, LABOR, EQUIPMENT, AND INCIDENTAL WORK REQUIRED TO COMPLETE THE STRUCTURAL STEEL REPAIRS SHALL BE PAID UNDER ITEM 107.97 – STRUCTURAL STEEL REPAIRS.

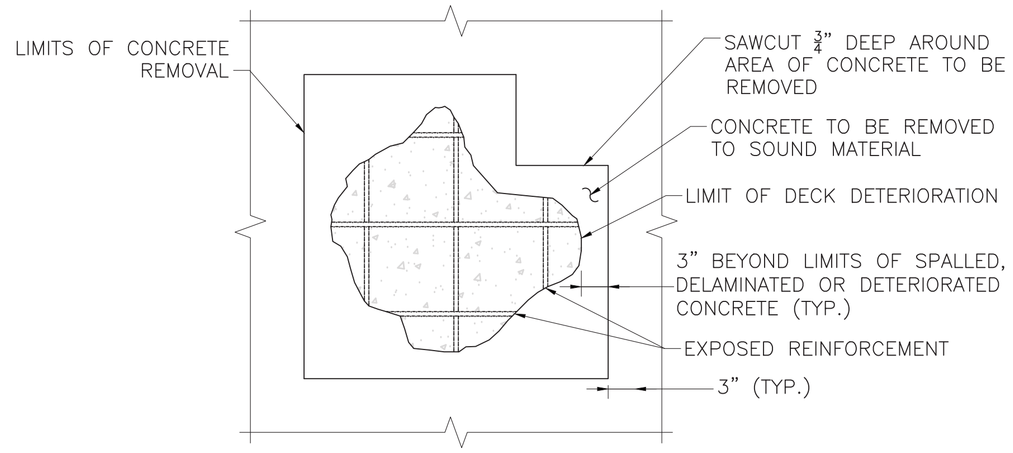
DATE	DESCRIPTION
JULY 18, 2026	ISSUED FOR CONSTRUCTION
	USE ONLY PRINTS OF LATEST DATE

PS&E SUBMISSION 11-JUNE-2026

HINSDALE
OLD WINDSOR ROAD OVER WINDSOR BROOK

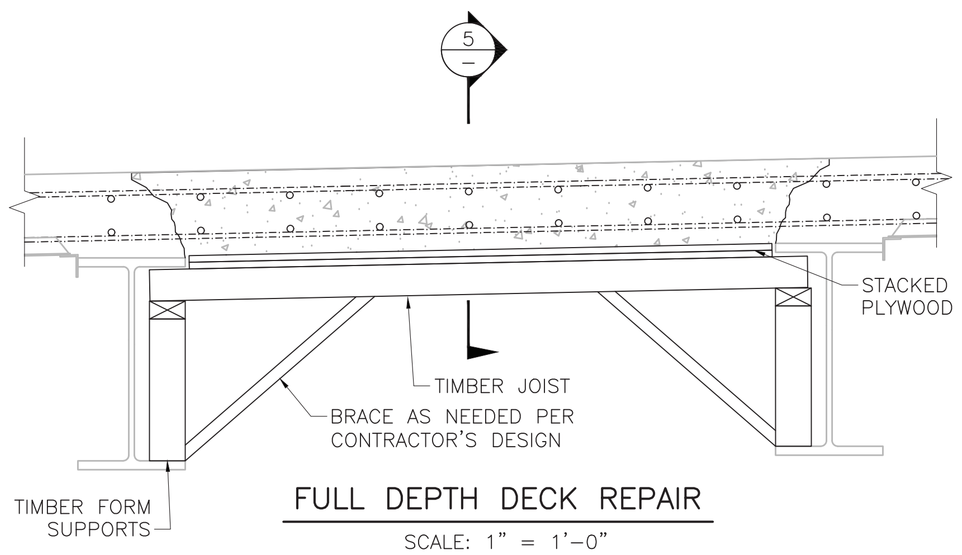
STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	8	10
PROJECT FILE NO.	616286		

DECK REPAIRS



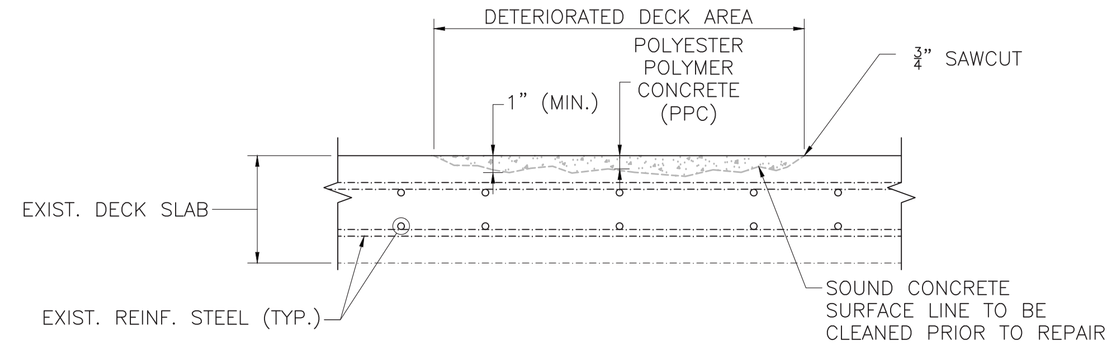
LIMITS OF REPAIR AREA

SCALE: 1" = 1'–0"



FULL DEPTH DECK REPAIR

SCALE: 1" = 1'–0"

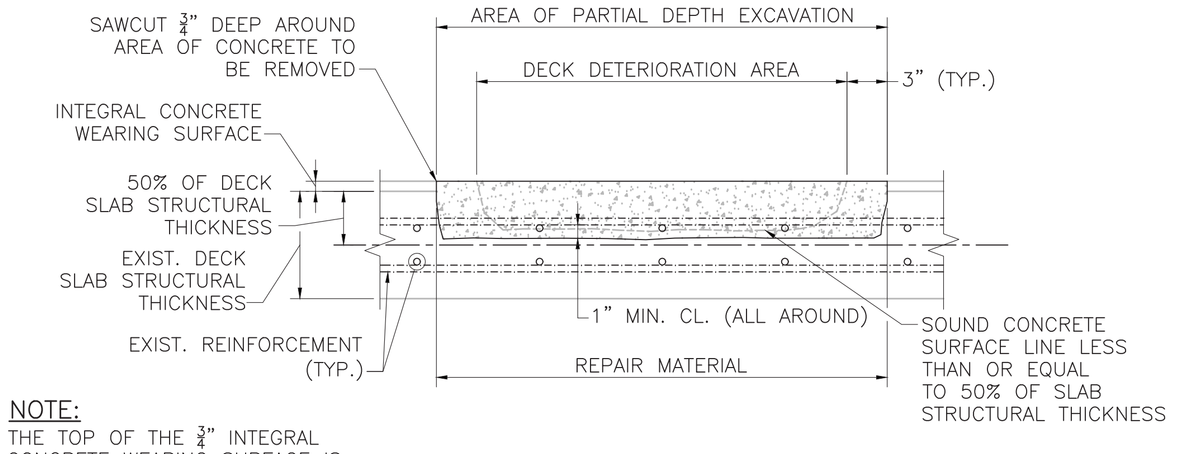


TYPICAL MINOR SPALL REPAIR

SCALE: 1½" = 1'–0"

NOTE:

1. IF REINFORCING BARS ARE EXPOSED, THEN COMPLETE REPAIR AS A PARTIAL DEPTH REPAIR WITH 1" EXCAVATED BENEATH THE EXPOSED BARS.

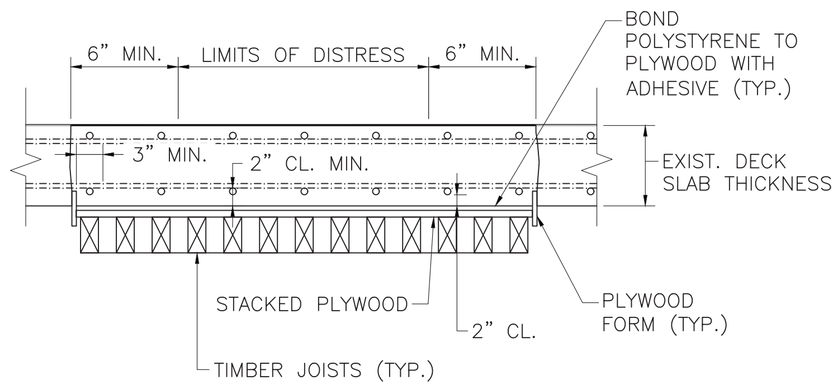


NOTE:

THE TOP OF THE ¾" INTEGRAL CONCRETE WEARING SURFACE IS CONSIDERED NON–STRUCTURAL.

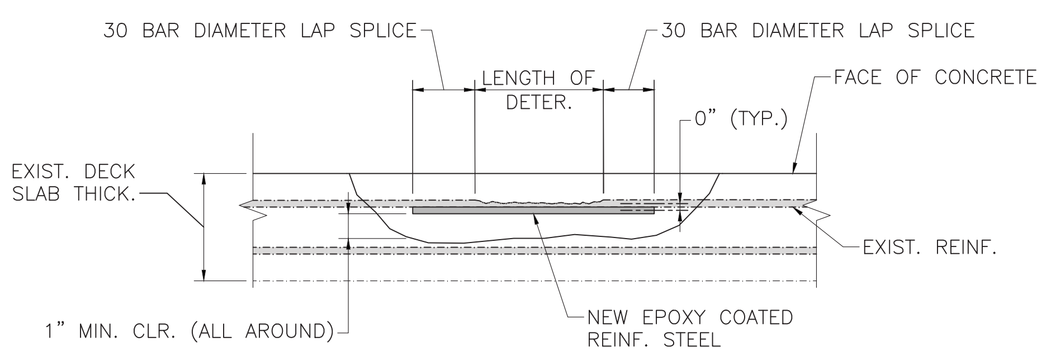
PARTIAL DEPTH DECK REPAIR DETAIL

SCALE: 1½" = 1'–0"



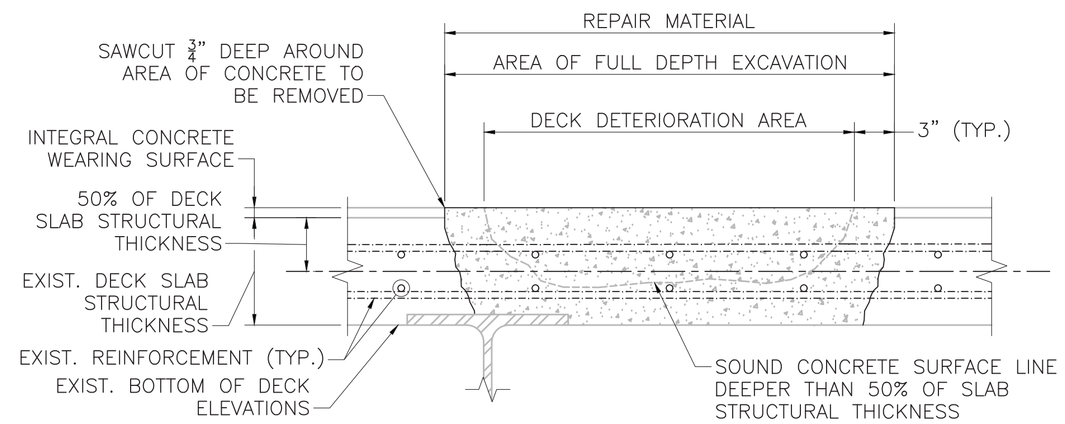
FULL DECK REPAIR SECTION 5/–

SCALE: 1" = 1'–0"



TYPICAL DETERIORATED REINFORCEMENT STEEL REPAIR

SCALE: 1½" = 1'–0"



FULL DEPTH DECK REPAIR DETAIL

SCALE: 1½" = 1'–0"

NOTE:

1. DECK FORMS SHALL BE INSTALLED FLUSH WITH EXISTING DECK UNDERSIDE AND SHALL BE REMOVED AFTER CURING IS COMPLETE.
2. THE TOP ¾" OF INTEGRAL CONCRETE WEARING SURFACE IS CONSIDERED NON–STRUCTURAL.

DECK REPAIR NOTES:

1. MINOR SPALL REPAIRS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 106.493 – POLYESTER POLYMER CONCRETE FOR TOPSIDE DECK REPAIRS. MATERIALS, SURFACE PREPARATION, AND APPLICATION SHALL CONFORM TO THE STANDARD SPECIFICATIONS. REPAIR LIMITS SHALL BE AS DIRECTED BY THE ENGINEER.
2. FULL–DEPTH AND PARTIAL–DEPTH BRIDGE DECK REPAIRS (WHEN THE BRIDGE IS CLOSED TO TRAFFIC) SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 909.5 – RAPID HARDENING CEMENTITIOUS PRODUCTS FOR REPAIRS. CONCRETE PLACEMENT, FINISHING, AND CURING SHALL CONFORM TO THE STANDARD SPECIFICATIONS.
3. PARTIAL DEPTH REPAIRS SHALL BE PERFORMED WHERE THE DEPTH OF DETERIORATED CONCRETE EXTENDS LESS THAN OR EQUAL TO 50% OF THE THICKNESS OF THE EXISTING CONCRETE DECK. CONCRETE SHALL BE REMOVED TO A MINIMUM OF 1" BELOW THE BOTTOM OF THE TOP MAT OF EXISTING REINFORCING STEEL.
4. FULL DEPTH REPAIRS SHALL BE PERFORMED WHERE THE DEPTH OF DETERIORATED CONCRETE EXTENDS GREATER THAN 50% OF THE THICKNESS OF THE EXISTING CONCRETE DECK.
5. WHEN FULL DEPTH REPAIRS ARE REQUIRED IN THE DECK OVERHANGS, THE LENGTH OF REPAIR ALONG THE STRUCTURE SHOULD BE LIMITED TO 4'–0" LONG SEGMENTS.
6. THE TOP SURFACE OF THE DECK REPAIRS SHALL BE FINISHED FLUSH WITH THE ADJACENT TOP OF DECK SLAB AND SHALL MAINTAIN THE EXISTING GRADES AND CROSS SLOPES.
7. 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 SURFACES THAT WILL BE IN CONTACT WITH REPAIR CONCRETE SHALL BE PRE–WETTED FOR A MINIMUM OF 24 HOURS USING POTABLE WATER IN ORDER TO ACHIEVE A SATURATED SURFACE DRY CONDITION IMMEDIATELY PRIOR TO PLACEMENT OF REPAIR CONCRETE.
8. 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.

JULY 18, 2026	ISSUED FOR CONSTRUCTION
DATE	DESCRIPTION
USE ONLY PRINTS OF LATEST DATE	

H-16-006 (04Y).DWG Plotted on 1-Jul-2026 9:50 AM
A00803 - 43
PS&E SUBMISSION 11-JUNE-2026

Proposal No. 616282-135582

HINSDALE
OLD WINDSOR ROAD OVER WINDSOR BROOK

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	7	8
PROJECT FILE NO.	616286		

DETOUR PLAN

N

NAD 83

TOWN LINE LANESBOROUGH PITTSFIELD

TOWN LINE PITTSFIELD DALTON

TOWN LINE DALTON WINDSOR

FLINTSTONE RD

BERKSHIRE TRAIL

BACK DALTON RD

MAIN DALTON RD

CRANE RD

PATTERSON RD

MAY RD

WAHCONAH FALLS RD

HOLIDAY COTTAGE RD

NORTH ST

ADAMS RD

JOHNSON RD

ORCHARD RD

OLD WINDSOR RD

MAIN ST

EAST ST

HINSDALE RD

DALTON HINSDALE TOWN LINE

FRANK SCHNOPP RD

NOBODYS RD

TOWN LINE WINDSOR HINSDALE

HINSDALE PERU TOWN LINE

BRIDGE H-16-006 (04Y)

DETOUR M4-8P
SOUTH M3-3P
Old Windsor Rd W16-8P
M6-3P

DETOUR M4-8P
SOUTH M3-3P
Old Windsor Rd W16-8P
M5-1P(L)

DETOUR M4-8P
SOUTH M3-3P
Old Windsor Rd W16-8P
M6-1P(L)

DETOUR M4-8P
NORTH M3-1P
Old Windsor Rd W16-8P
M5-1P(R)

DETOUR M4-8P
NORTH M3-1P
Old Windsor Rd W16-8P
M6-1(R)

DETOUR M4-8P
NORTH M3-1P
Old Windsor Rd W16-8P
M6-3P

DETOUR M4-8P
NORTH M3-1P
Old Windsor Rd W16-8P
M5-2P(L)

DETOUR M4-8P
NORTH M3-1P
Old Windsor Rd W16-8P
M6-2P(R)

END DETOUR M4-8a
NORTH M3-1P
Old Windsor Rd W16-8P

END DETOUR M4-8a
SOUTH M3-3P
Old Windsor Rd W16-8P

BRIDGE CLOSED
OLD WINDSOR RD
LOCAL TRAFFIC ONLY
MA-R11-3b (OLD WINDSOR)

BRIDGE CLOSED
2 MILES AHEAD
LOCAL TRAFFIC ONLY
MA-R11-3b (2 MILES)

BRIDGE CLOSED
1.2 MILES AHEAD
LOCAL TRAFFIC ONLY
MA-R11-3b (1.2 MILES)

BRIDGE CLOSED
MA-R11-2b

W20-2 DETOUR AHEAD

LEGEND:

- DETOUR ROUTE
- SIGN
- TYPE III BARRICADES
- CLOSED BRIDGE

NOTES:

1. ALL THE TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERSEDED BY THESE PLANS.
2. ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD.
3. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
4. TYPE III BARRICADES SHALL BE PLACED ACROSS ENTIRE WIDTH OF ROADWAY.
5. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF CONSTRUCTION.
6. TEMPORARY CONSTRUCTION SIGNING IS SHOWN GRAPHICALLY ON THIS PAGE. SIGN PLACEMENT SHALL BE PER THE "TYPICAL INTERSECTION SIGN PLACEMENT" DETAIL ON THE FOLLOWING SHEET AND CONFORM TO THE MUTCD.

0 1000 2500 5000
SCALE: 1" = 1000'

DATE	DESCRIPTION
JULY 18, 2026	ISSUED FOR CONSTRUCTION
	USE ONLY PRINTS OF LATEST DATE

115768 DETOUR PLAN H-16-006 (04Y).DWG Plotted on 2-Jul-2026 8:55 AM
A00803 - 44
PS&E SUBMISSION 11-JUNE-2026

Proposal No. 616282-135582

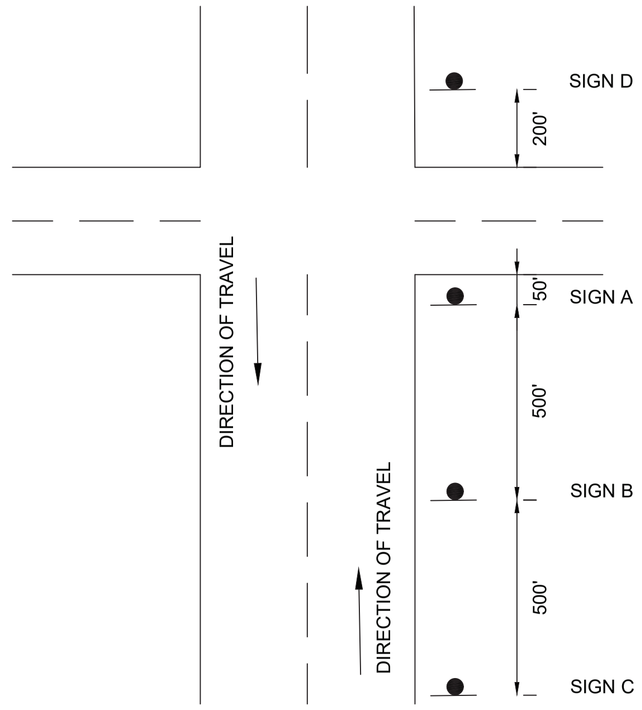
TRAFFIC SIGN SUMMARY - BRIDGE H-16-006 (04Y)

IDENTIFICATION NUMBER	SIZE OF SIGN (INCHES)		LEGEND	TEXT DIMENSIONS (INCHES)			NUMBER OF SIGNS REQUIRED	COLOR			NUMBER OF SUPPORTS REQUIRED	UNIT AREA (S.F.)	AREA IN SQUARE FEET
	WIDTH	HEIGHT		LETTER HEIGHT	VERTICAL SPACING	ARROW RTE. MKR.		BACKGROUND	LEGEND	BORDER			
M3-1P	24	12	NORTH	SEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES			15	WHITE	BLACK	BLACK	Mounted below M4-8P/ M4-8a	2.0	30.0
M3-3P	24	12	SOUTH				13	WHITE	BLACK	BLACK	Mounted below M4-8P/ M4-8a	2.0	26.0
M4-8P	24	12	DETOUR				26	ORANGE	BLACK	BLACK	26	2.0	52.0
M4-8a	24	18	END DETOUR				2	ORANGE	BLACK	BLACK	2	3.0	6.0
M5-1P (L)	21	15					4	ORANGE	BLACK	BLACK	Mounted below W16-8P	2.2	8.8
M5-1P (R)	21	15					5	ORANGE	BLACK	BLACK	Mounted below W16-8P	2.2	11.0
M5-2P(L)	21	15					2	ORANGE	BLACK	BLACK	Mounted below W16-8P	2.2	4.4
M6-1P (L)	21	15					4	ORANGE	BLACK	BLACK	Mounted below W16-8P	2.2	8.8
M6-1P (R)	21	15					5	ORANGE	BLACK	BLACK	Mounted below W16-8P	2.2	11.0
M6-2P(R)	21	15					1	ORANGE	BLACK	BLACK	Mounted below W16-8P	2.2	2.2
M6-3P	21	15					4	ORANGE	BLACK	BLACK	Mounted below W16-8P	2.2	8.8
MA-R11-2b	48	30	BRIDGE CLOSED				2	WHITE	BLACK	BLACK	Mounted on Type III Barricade	10.0	20.0
MA-R11-3b (1.2 MILES)	60	30	BRIDGE CLOSED 1.2 MILES AHEAD LOCAL TRAFFIC ONLY				1	WHITE	BLACK	BLACK	2	12.5	12.5
MA-R11-3b (2 MILES)	60	30	BRIDGE CLOSED 2 MILES AHEAD LOCAL TRAFFIC ONLY				1	WHITE	BLACK	BLACK	2	12.5	12.5
MA-R11-3b (OLD WINDSOR RD)	60	30	BRIDGE CLOSED OLD WINDSOR RD LOCAL TRAFFIC ONLY				7	WHITE	BLACK	BLACK	14	12.5	87.5
W16-8P	24	8	Old Windsor Rd				28	WHITE	BLACK	BLACK	Mounted below M3-1P/M3-3P	1.3	36.4
W20-2	36	36	DETOUR AHEAD				7	ORANGE	BLACK	BLACK	7	9.0	63.0

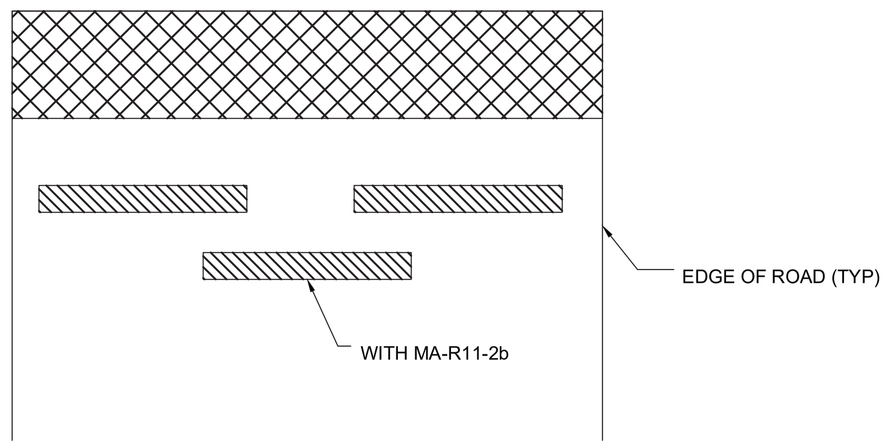
HINSDALE
OLD WINDSOR ROAD OVER WINDSOR BROOK

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	NFA	8	8
PROJECT FILE NO.	616286		

SIGN SHEET



TYPICAL INTERSECTION SIGN PLACEMENT
NOT TO SCALE



TYPICAL TYPE III BARRICADE PLACEMENT
NOT TO SCALE

DATE	DESCRIPTION
JULY 18, 2026	ISSUED FOR CONSTRUCTION
USE ONLY PRINTS OF LATEST DATE	

SHEET 8 OF 8 SHEETS BRIDGE NO. H-16-006 (04Y)

PS&E SUBMISSION 11-JUNE-2026

A00803 - 45

115768 DETOUR PLAN H-16-006 (04Y).DWG Plotted on 2-Jul-2026 8:56 AM

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Structure Inventory and Appraisal (SI & A)

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Report Date: June 26, 2026 Br. No. 5 Week's

State Information

BDEPT#= C12019 Agency Br.No.

Town= Chesterfield L.O.

B.I.N= 0GA AASHTO= 049.4

RANK= 1212 H.I.= 61.3 % FHWA Select List= Y (6/21/2017)

Identification

(8) Structure Number	C120190GAMUNNBI
(5) Inventory Route	151000000
(2) State Highway Department District	01
(3) County Code 015 (4) Place code	13590
(6) Features Intersected	**WATER CHAUNCEY BROOK**
(7) Facility Carried	**HWY INDIAN HLLW**
(9) Location	1.4 MI WEST OF SOUTH ST
(11) Kilometerpoint	0000.000
(12) Base Highway Network	N
(13) LRS Inventory Route & Subroute	000000000000
(16) Latitude	42 DEG 20 MIN 50.91 SEC
(17) Longitude	72 DEG 50 MIN 33.65 SEC
(98) Border Bridge State Code	Share %
(99) Border Bridge Structure No. #	

Structure Type and Material

(43) Structure Type Main: Steel	Code 302
Stringer/Girder	Jointless bridge type: Not applicable
(44) Structure Type Appr: Other	Code 000
(45) Number of spans in main unit	001
(46) Number of approach spans	0000
(107) Deck Structure Type - Concrete Cast-in-Place	Code 1
(108) Wearing Surface / Protective System:	
A) Type of wearing surface - None	Code 0
B) Type of membrane - None	Code 0
C) Type of deck protection - None	Code 0

Age and Service

(27) Year Built	1938
(106) Year Reconstructed	0000
(42) Type of Service: On - Highway	
Under - Waterway	Code 15
(28) Lanes: On Structure 01	Under structure 00
(29) Average Daily Traffic	000120
(30) Year of ADT 2016	(109) Truck ADT 06 %
(19) Bypass, detour length	199 KM

Geometric Data

(48) Length of maximum span	0007.3 M
(49) Structure Length	00009.1 M
(50) Curb or sidewalk: Left 00.0 M	Right 00.0 M
(51) Bridge Roadway Width Curb to Curb	004.3 M
(52) Deck Width Out to Out	005.5 M
(32) Approach Roadway Width (w/shoulders)	004.3 M
(33) Bridge Median - No median	Code 0
(34) Skew 00 DEG (35) Structure Flared	N
(10) Inventory Route MIN Vert Clear	99.99 M
(47) Inventory Route Total Horiz Clear	04.3 M
(53) Min Vert Clear Over Bridge Rdwy	99.99 M
(54) Min Vert Underclear ref N	00.00 M
(55) Min Lat Underclear RT ref N	00.0 M
(56) Min Lat Underclear LT	00.0 M

Navigation Data

(38) Navigation Control - No navigation control on waterway	Code 0
(111) Pier Protection	Code
(39) Navigation Vertical Clearance	000.0 M
(116) Vert-lift Bridge Nav Min Vert Clear	M
(40) Navigation Horizontal Clearance	0000.0 M

Classification

	Code
(112) NBIS Bridge Length	Y
(104) Highway System	N
(26) Functional Class - Rural Local	09
(100) Defense Highway	0
(101) Parallel Structure	N
(102) Direction of Traffic - One lane for 2-way traffic	3
(103) Temporary Structure	N
(105) Federal Lands Highways	0
(110) Designated National Network	N
(20) Toll - On free road	3
(21) Maintain - Town Agency	03
(22) Owner - Town Agency	03
(37) Historical Significance undetermined	

Condition

	Code
(58) Deck	5
(59) Superstructure	4
(60) Substructure	6
(61) Channel & Channel Protection	6
(62) Culverts	N

Load Rating and Posting

	Code
(31) Design Load - Unknown	0
(63) Operating Rating Method - Load Factor (LF)	1
(64) Operating Rating	86.6
(65) Inventory Rating Method - Load Factor (LF)	1
(66) Inventory Rating	52.0
(70) Bridge Posting	5
(41) Structure - Open	A

Appraisal

	Code
(67) Structural Evaluation	4
(68) Deck Geometry	2
(69) Underclearances, vert. and horiz.	N
(71) Waterway adequacy	7
(72) Approach Roadway Alignment	5
(36) Traffic Safety Features	0 0 0 0
(113) Scour Critical Bridges	4

Inspections

(90) Inspection Date 10/10/24 (91) Frequency 12 MO

(92) Critical Feature Inspection:				(93) CFI DATE
(A) Fracture Critical Detail	N	00	MO A)	00/00/00
(B) Underwater Inspection	N	00	MO B)	00/00/00
(C) Other Special Inspection	Y	12	MO C)	10/15/25
(*) Other Inspection (Flood Insp)	N	00	MO *)	09/02/11
(*) Closed Bridge	N	00	MO *)	00/00/00
(*) UW Special Inspection	N	00	MO *)	00/00/00
(*) Damage Inspection			MO *)	00/00/00

Rating Loads

Report Date 07/16/20	H20	Type 3	Type 3S2	Type HS
Operating	39.0	49.0	77.0	54.0
Inventory	24.0	30.0	47.0	33.0

Field Posting

Status LEGAL Posting Date 09/08/20

	2 Axle	3 Axle	5 Axle	Single
Actual				
Recommended				

Missing Signs N

Misc.

Bridge Name Br. No. 5 Week's

N Anti-missile fence N Acrow Panel N Jointless Bridge

Freeze/Thaw N : Not Applicable

Stairs On/Adjacent 0 Stair Owner(s)

Accessibility (Needed/Used)

N / N Liftbucket	N / N Rigging	N / N Other
Y / Y Ladder	N / N Staging	
N / N Boat	N / N Traffic Control	
Y / Y Wader	N / N RR Flagperson	Inspection Hours: 008
N / N Inspector 50	N / N Police	

Report Date: June 26, 2026 Br. No. 1

State Information

BDEPT#= H16006 Agency Br.No.

Town= Hinsdale L.O.

B.I.N= 04Y AASHTO= 048.5

RANK= 3361 H.I.= 66.8 % FHWA Select List= N (6/21/2017)

Identification

(8) Structure Number	H1600604YMUNNBI
(5) Inventory Route	151000000
(2) State Highway Department District	01
(3) County Code 003 (4) Place code	30315
(6) Features Intersected	**WATER WINDSOR BROOK**
(7) Facility Carried	**HWY OLD WINDSOR**
(9) Location	@WINDSOR BORDER
(11) Kilometerpoint	0000.000
(12) Base Highway Network	N
(13) LRS Inventory Route & Subroute	000000000000
(16) Latitude	42 DEG 29 MIN 03.28 SEC
(17) Longitude	73 DEG 05 MIN 48.30 SEC
(98) Border Bridge State Code	Share %
(99) Border Bridge Structure No. #	

Structure Type and Material

(43) Structure Type Main: Steel Code 302

Stringer/Girder Jointless bridge type: Not applicable

(44) Structure Type Appr:

Other Code 000

(45) Number of spans in main unit	001
(46) Number of approach spans	0000
(107) Deck Structure Type - Concrete Cast-in-Place	Code 1

(108) Wearing Surface / Protective System:

A) Type of wearing surface - None	Code 0
B) Type of membrane - None	Code 0
C) Type of deck protection - None	Code 0

Age and Service

(27) Year Built	1939
(106) Year Reconstructed	0000
(42) Type of Service: On - Highway	
Under - Waterway	Code 15
(28) Lanes: On Structure 02	Under structure 00
(29) Average Daily Traffic	000390
(30) Year of ADT 2024 (109) Truck ADT	01 %
(19) Bypass, detour length	010 KM

Geometric Data

(48) Length of maximum span	0011.0 M
(49) Structure Length	00012.5 M
(50) Curb or sidewalk: Left 00.1 M	Right 00.1 M
(51) Bridge Roadway Width Curb to Curb	006.1 M
(52) Deck Width Out to Out	007.3 M
(32) Approach Roadway Width (w/shoulders)	005.8 M
(33) Bridge Median - No median	Code 0
(34) Skew 21 DEG (35) Structure Flared	N
(10) Inventory Route MIN Vert Clear	99.99 M
(47) Inventory Route Total Horiz Clear	06.1 M
(53) Min Vert Clear Over Bridge Rdwy	99.99 M
(54) Min Vert Underclear ref N	00.00 M
(55) Min Lat Underclear RT ref N	00.0 M
(56) Min Lat Underclear LT	00.0 M

Navigation Data

(38) Navigation Control - No navigation control on waterway	Code 0
(111) Pier Protection	Code
(39) Navigation Vertical Clearance	000.0 M
(116) Vert-lift Bridge Nav Min Vert Clear	M
(40) Navigation Horizontal Clearance	0000.0 M

Classification

	Code
(112) NBIS Bridge Length	Y
(104) Highway System	N
(26) Functional Class - Rural Local	09
(100) Defense Highway	0
(101) Parallel Structure	N
(102) Direction of Traffic - 2-way traffic	2
(103) Temporary Structure	N
(105) Federal Lands Highways	0
(110) Designated National Network	N
(20) Toll - On free road	3
(21) Maintain - Town Agency	03
(22) Owner - Town Agency	03
(37) Historical Significance undetermined	

Condition

	Code
(58) Deck	6
(59) Superstructure	4
(60) Substructure	7
(61) Channel & Channel Protection	7
(62) Culverts	N

Load Rating and Posting

	Code
(31) Design Load - H 15=M 13.5	2
(63) Operating Rating Method - Load Factor (LF)	1
(64) Operating Rating	62.6
(65) Inventory Rating Method - Load Factor (LF)	1
(66) Inventory Rating	25.4
(70) Bridge Posting	5
(41) Structure - Closed	K

Appraisal

	Code
(67) Structural Evaluation	4
(68) Deck Geometry	4
(69) Underclearances, vert. and horiz.	N
(71) Waterway adequacy	9
(72) Approach Roadway Alignment	5
(36) Traffic Safety Features	0 0 0 0
(113) Scour Critical Bridges	4

Inspections

(90) Inspection Date 07/30/24 (91) Frequency 12 MO

(92) Critical Feature Inspection:				(93) CFI DATE
(A) Fracture Critical Detail	N	00	MO A)	00/00/00
(B) Underwater Inspection	N	00	MO B)	00/00/00
(C) Other Special Inspection	N	00	MO C)	07/16/25
(*) Other Inspection (Hurricane Irene)	N	00	MO *)	09/16/11
(*) Closed Bridge	Y	12	MO *)	10/08/25
(*) UW Special Inspection	N	00	MO *)	00/00/00
(*) Damage Inspection			MO *)	00/00/00

Rating Loads

Report Date 09/20/19	H20	Type 3	Type 3S2	Type HS
Operating	25.0	29.0	45.0	31.0
Inventory	15.0	27.0	27.0	19.0

Field Posting

Status POSTED Posting Date 09/12/25

	2 Axle	3 Axle	5 Axle	Single
Actual	16	25	36	
Recommended	18	20	31	

Missing Signs N

Misc.

Bridge Name Br. No. 1

N Anti-missile fence N Acrow Panel N Jointless Bridge

Freeze/Thaw N : Not Applicable

Stairs On/Adjacent 0 Stair Owner(s)

Accessibility (Needed/Used)

N / N Liftbucket	N / N Rigging	N / N Other
Y / Y Ladder	N / N Staging	
N / N Boat	N / N Traffic Control	
Y / Y Wader	N / N RR Flagperson	Inspection Hours: 108
N / N Inspector 50	N / N Police	

Report Date: June 26, 2026

State Information

BDEPT#= M19003 Agency Br.No.

Town= Middlefield L.O.

B.I.N= 05P AASHTO= 023.7

RANK= 1495 H.I.= 65.2 % FHWA Select List= Y (6/21/2017)

Identification

(8) Structure Number	M1900305PMUNNBI
(5) Inventory Route	151000000
(2) State Highway Department District	01
(3) County Code 015 (4) Place code	40990
(6) Features Intersected	**WATER FACTORY BROOK**
(7) Facility Carried	**HWY TOWN HILL RD**
(9) Location	0.8MI S OF WEST HILL RD
(11) Kilometerpoint	0000.000
(12) Base Highway Network	N
(13) LRS Inventory Route & Subroute	000000000000
(16) Latitude	42 DEG 18 MIN 57.57 SEC
(17) Longitude	73 DEG 01 MIN 37.05 SEC
(98) Border Bridge State Code	Share %
(99) Border Bridge Structure No. #	

Structure Type and Material

(43) Structure Type Main: Steel Code 302

Stringer/Girder Jointless bridge type: Not applicable

(44) Structure Type Appr:

Other Code 000

(45) Number of spans in main unit	001
(46) Number of approach spans	0000

(107) Deck Structure Type - Concrete Cast-in-Place Code 1

(108) Wearing Surface / Protective System:

A) Type of wearing surface - None Code 0

B) Type of membrane - None Code 0

C) Type of deck protection - None Code 0

Age and Service

(27) Year Built	1920
(106) Year Reconstructed	1957

(42) Type of Service: On - Highway

Under - Waterway Code 15

(28) Lanes: On Structure 02	Under structure 00
(29) Average Daily Traffic	000129
(30) Year of ADT 2017 (109) Truck ADT	06 %
(19) Bypass, detour length	025 KM

Geometric Data

(48) Length of maximum span	0016.9 M
(49) Structure Length	00019.9 M
(50) Curb or sidewalk: Left 00.0 M	Right 00.0 M
(51) Bridge Roadway Width Curb to Curb	005.2 M
(52) Deck Width Out to Out	005.9 M
(32) Approach Roadway Width (w/shoulders)	006.1 M
(33) Bridge Median - No median	Code 0
(34) Skew 28 DEG (35) Structure Flared	N
(10) Inventory Route MIN Vert Clear	99.99 M
(47) Inventory Route Total Horiz Clear	05.2 M
(53) Min Vert Clear Over Bridge Rdwy	99.99 M
(54) Min Vert Underclear ref N	00.00 M
(55) Min Lat Underclear RT ref N	00.0 M
(56) Min Lat Underclear LT	00.0 M

Navigation Data

(38) Navigation Control - No navigation control on waterway	Code 0
(111) Pier Protection	Code
(39) Navigation Vertical Clearance	000.0 M
(116) Vert-lift Bridge Nav Min Vert Clear	M
(40) Navigation Horizontal Clearance	0000.0 M

Classification

	Code
(112) NBIS Bridge Length	Y
(104) Highway System	N
(26) Functional Class - Rural Local	09
(100) Defense Highway	0
(101) Parallel Structure	N
(102) Direction of Traffic - 2-way traffic	2
(103) Temporary Structure	N
(105) Federal Lands Highways	0
(110) Designated National Network	N
(20) Toll - On free road	3
(21) Maintain - Town Agency	03
(22) Owner - Town Agency	03
(37) Historical Significance undetermined	

Condition

	Code
(58) Deck	4
(59) Superstructure	4
(60) Substructure	6
(61) Channel & Channel Protection	7
(62) Culverts	N

Load Rating and Posting

	Code
(31) Design Load - H 15=M 13.5	2
(63) Operating Rating Method - Load Factor (LF)	1
(64) Operating Rating	26.5
(65) Inventory Rating Method - Load Factor (LF)	1
(66) Inventory Rating	15.8
(70) Bridge Posting	3
(41) Structure - Posted for load	P

Appraisal

	Code
(67) Structural Evaluation	4
(68) Deck Geometry	2
(69) Underclearances, vert. and horiz.	N
(71) Waterway adequacy	9
(72) Approach Roadway Alignment	3
(36) Traffic Safety Features	0 0 0 0
(113) Scour Critical Bridges	4

Inspections

(90) Inspection Date 06/11/25 (91) Frequency 12 MO

(92) Critical Feature Inspection:				(93) CFI DATE
(A) Fracture Critical Detail	N	00	MO A)	00/00/00
(B) Underwater Inspection	N	00	MO B)	00/00/00
(C) Other Special Inspection	Y	12	MO C)	06/11/25
(*) Other Inspection ()	N	00	MO *)	00/00/00
(*) Closed Bridge	N	00	MO *)	00/00/00
(*) UW Special Inspection	N	00	MO *)	00/00/00
(*) Damage Inspection			MO *)	00/00/00

Rating Loads

Report Date 12/01/24	H20	Type 3	Type 3S2	Type HS
Operating	24.0	26.0	36.0	28.0
Inventory	8.0	9.0	12.0	9.0

Field Posting

Status POSTED Posting Date 07/21/25

	2 Axle	3 Axle	5 Axle	Single
Actual				09
Recommended				09

Missing Signs N

Misc.

Bridge Name

N Anti-missile fence N Acrow Panel N Jointless Bridge

Freeze/Thaw N : Not Applicable

Stairs On/Adjacent 0 Stair Owner(s)

Accessibility (Needed/Used)

N / N Liftbucket	N / N Rigging	N / N Other
Y / Y Ladder	N / N Staging	
N / N Boat	N / N Traffic Control	
Y / Y Wader	N / N RR Flagperson	Inspection Hours: 012
N / N Inspector 50	N / N Police	

Report Date: June 26, 2026 Br.No. 5 Bancroft

State Information

BDEPT#= M19004 Agency Br.No.

Town= Middlefield L.O.

B.I.N= 05Q AASHTO= 038.4

RANK= 3293 H.I.= 84.3 % FHWA Select List= N (6/21/2017)

Identification

(8) Structure Number	M1900405QMUNNBI
(5) Inventory Route	151000000
(2) State Highway Department District	01
(3) County Code 015 (4) Place code	40990
(6) Features Intersected	**WATER FACTORY BROOK**
(7) Facility Carried	**HWY TOWN HILL RD**
(9) Location	.4 MI EAST OF MUNN RD
(11) Kilometerpoint	0000.000
(12) Base Highway Network	N
(13) LRS Inventory Route & Subroute	000000000000
(16) Latitude	42 DEG 18 MIN 33.94 SEC
(17) Longitude	73 DEG 01 MIN 29.93 SEC
(98) Border Bridge State Code	Share %
(99) Border Bridge Structure No. #	

Structure Type and Material

(43) Structure Type Main: Steel	Code 302
Stringer/Girder	Jointless bridge type: Not applicable
(44) Structure Type Appr: Other	Code 000
(45) Number of spans in main unit	001
(46) Number of approach spans	0000
(107) Deck Structure Type - Concrete Cast-in-Place	Code 1
(108) Wearing Surface / Protective System:	
A) Type of wearing surface - None	Code 0
B) Type of membrane - None	Code 0
C) Type of deck protection - None	Code 0

Age and Service

(27) Year Built	1939
(106) Year Reconstructed	0000
(42) Type of Service: On - Highway	
Under - Waterway	Code 15
(28) Lanes: On Structure 02	Under structure 00
(29) Average Daily Traffic	000129
(30) Year of ADT 2017	(109) Truck ADT 06 %
(19) Bypass, detour length	025 KM

Geometric Data

(48) Length of maximum span	0016.8 M
(49) Structure Length	00017.8 M
(50) Curb or sidewalk: Left 00.0 M	Right 00.0 M
(51) Bridge Roadway Width Curb to Curb	006.1 M
(52) Deck Width Out to Out	006.9 M
(32) Approach Roadway Width (w/shoulders)	006.1 M
(33) Bridge Median - No median	Code 0
(34) Skew 20 DEG (35) Structure Flared	N
(10) Inventory Route MIN Vert Clear	99.99 M
(47) Inventory Route Total Horiz Clear	06.1 M
(53) Min Vert Clear Over Bridge Rdwy	99.99 M
(54) Min Vert Underclear ref N	00.00 M
(55) Min Lat Underclear RT ref N	00.0 M
(56) Min Lat Underclear LT	00.0 M

Navigation Data

(38) Navigation Control - No navigation control on waterway	Code 0
(111) Pier Protection	Code
(39) Navigation Vertical Clearance	000.0 M
(116) Vert-lift Bridge Nav Min Vert Clear	M
(40) Navigation Horizontal Clearance	0000.0 M

Classification

	Code
(112) NBIS Bridge Length	Y
(104) Highway System	N
(26) Functional Class - Rural Local	09
(100) Defense Highway	0
(101) Parallel Structure	N
(102) Direction of Traffic - 2-way traffic	2
(103) Temporary Structure	N
(105) Federal Lands Highways	0
(110) Designated National Network	N
(20) Toll - On free road	3
(21) Maintain - Town Agency	03
(22) Owner - Town Agency	03
(37) Historical Significance undetermined	

Condition

	Code
(58) Deck	4
(59) Superstructure	4
(60) Substructure	7
(61) Channel & Channel Protection	7
(62) Culverts	N

Load Rating and Posting

	Code
(31) Design Load - H 15=M 13.5	2
(63) Operating Rating Method - Load Factor (LF)	1
(64) Operating Rating	36.0
(65) Inventory Rating Method - Load Factor (LF)	1
(66) Inventory Rating	21.6
(70) Bridge Posting	5
(41) Structure - Posted for load	P

Appraisal

	Code
(67) Structural Evaluation	4
(68) Deck Geometry	4
(69) Underclearances, vert. and horiz.	N
(71) Waterway adequacy	9
(72) Approach Roadway Alignment	3
(36) Traffic Safety Features	0 0 0 0
(113) Scour Critical Bridges	5

Inspections

(90) Inspection Date 06/16/25 (91) Frequency 12 MO

(92) Critical Feature Inspection:				(93) CFI DATE
(A) Fracture Critical Detail	N	00	MO A)	00/00/00
(B) Underwater Inspection	N	00	MO B)	00/00/00
(C) Other Special Inspection	Y	12	MO C)	06/16/25
(*) Other Inspection (Flood)	N	00	MO *)	09/16/11
(*) Closed Bridge	N	00	MO *)	00/00/00
(*) UW Special Inspection	N	00	MO *)	00/00/00
(*) Damage Inspection			MO *)	00/00/00

Rating Loads

Report Date 01/01/17	H20	Type 3	Type 3S2	Type HS
Operating	29.0	34.0	49.0	36.0
Inventory	17.0	20.0	29.0	22.0

Field Posting

Status POSTED Posting Date 10/04/18

	2 Axle	3 Axle	5 Axle	Single
Actual	14	16	23	
Recommended	14	16	23	

Missing Signs N Signs superseded by M-19-003.

Misc.

Bridge Name Br.No. 5 Bancroft

N Anti-missile fence N Acrow Panel N Jointless Bridge

Freeze/Thaw N : Not Applicable

Stairs On/Adjacent 0 Stair Owner(s)

Accessibility (Needed/Used)

N / N Liftbucket	N / N Rigging	N / N Other
Y / Y Ladder	N / N Staging	
N / N Boat	N / N Traffic Control	
Y / Y Wader	N / N RR Flagperson	Inspection Hours: 024
N / N Inspector 50	N / N Police	

Report Date: June 26, 2026

State Information

BDEPT#= P10001 Agency Br.No.

Town= Pittsfield L.O.

B.I.N= 01W AASHTO= 035.4

RANK= 1197 H.I.= 83.7 % FHWA Select List= N (6/21/2017)

Identification

(8) Structure Number	P1000101WMUNNBI
(5) Inventory Route	151000000
(2) State Highway Department District	01
(3) County Code 003 (4) Place code	53960
(6) Features Intersected	**WATER HOUSATONIC RIVER**
(7) Facility Carried	**HWY HOLMES RD**
(9) Location	.5 MI S OF WILLIAM ST
(11) Kilometerpoint	0000.000
(12) Base Highway Network	N
(13) LRS Inventory Route & Subroute	000000000000
(16) Latitude	42 DEG 25 MIN 48.06 SEC
(17) Longitude	73 DEG 14 MIN 19.37 SEC
(98) Border Bridge State Code	Share %
(99) Border Bridge Structure No. #	

Structure Type and Material

(43) Structure Type Main: Steel	Code 302
Stringer/Girder	Jointless bridge type: Not applicable
(44) Structure Type Appr: Other	Code 000
(45) Number of spans in main unit	001
(46) Number of approach spans	0000
(107) Deck Structure Type - Concrete Cast-in-Place	Code 1
(108) Wearing Surface / Protective System:	
A) Type of wearing surface - Bituminous	Code 6
B) Type of membrane - Built-up	Code 1
C) Type of deck protection - None	Code 0

Age and Service

(27) Year Built	1962
(106) Year Reconstructed	0000
(42) Type of Service: On - Highway-Ped	
Under - Waterway	Code 55
(28) Lanes: On Structure 02	Under structure 00
(29) Average Daily Traffic	010857
(30) Year of ADT 2025 (109) Truck ADT	03 %
(19) Bypass, detour length	002 KM

Geometric Data

(48) Length of maximum span	0034.5 M
(49) Structure Length	00035.4 M
(50) Curb or sidewalk: Left 01.5 M	Right 01.5 M
(51) Bridge Roadway Width Curb to Curb	009.8 M
(52) Deck Width Out to Out	013.6 M
(32) Approach Roadway Width (w/shoulders)	009.8 M
(33) Bridge Median - No median	Code 0
(34) Skew 35 DEG (35) Structure Flared	N
(10) Inventory Route MIN Vert Clear	99.99 M
(47) Inventory Route Total Horiz Clear	03.2 M
(53) Min Vert Clear Over Bridge Rdwy	99.99 M
(54) Min Vert Underclear ref N	00.00 M
(55) Min Lat Underclear RT ref N	00.0 M
(56) Min Lat Underclear LT	00.0 M

Navigation Data

(38) Navigation Control - No navigation control on waterway	Code 0
(111) Pier Protection	Code
(39) Navigation Vertical Clearance	000.0 M
(116) Vert-lift Bridge Nav Min Vert Clear	M
(40) Navigation Horizontal Clearance	0000.0 M

Classification

	Code
(112) NBIS Bridge Length	Y
(104) Highway System	N
(26) Functional Class - Urban Minor Arterial	16
(100) Defense Highway	0
(101) Parallel Structure	N
(102) Direction of Traffic - 2-way traffic	2
(103) Temporary Structure	Y
(105) Federal Lands Highways	0
(110) Designated National Network	N
(20) Toll - On free road	3
(21) Maintain - City/Municipal Highway A	04
(22) Owner - City/Municipal Highway A	04
(37) Historical Significance built after 1949 presumed to be not eligit	Z

Condition

	Code
(58) Deck	6
(59) Superstructure	4
(60) Substructure	6
(61) Channel & Channel Protection	7
(62) Culverts	N

Load Rating and Posting

	Code
(31) Design Load - H 20=M 18	4
(63) Operating Rating Method - Load Factor (LF)	1
(64) Operating Rating	00.0
(65) Inventory Rating Method - Load Factor (LF)	1
(66) Inventory Rating	00.0
(70) Bridge Posting	0
(41) Structure - Open with shoring	D

Appraisal

	Code
(67) Structural Evaluation	2
(68) Deck Geometry	4
(69) Underclearances, vert. and horiz.	N
(71) Waterway adequacy	8
(72) Approach Roadway Alignment	8
(36) Traffic Safety Features	0 0 0 0
(113) Scour Critical Bridges	5

Inspections

(90) Inspection Date 10/16/25 (91) Frequency 12 MO

(92) Critical Feature Inspection:				(93) CFI DATE
(A) Fracture Critical Detail	N	00	MO A)	00/00/00
(B) Underwater Inspection	N	00	MO B)	06/01/84
(C) Other Special Inspection	Y	12	MO C)	10/16/25
(*) Other Inspection (Barriers placed)	N	00	MO *)	03/02/26
(*) Closed Bridge	N	00	MO *)	02/25/26
(*) UW Special Inspection	N	00	MO *)	00/00/00
(*) Damage Inspection			MO *)	00/00/00

Rating Loads

Report Date 07/01/10	H20	Type 3	Type 3S2	Type HS
Operating	0.0	0.0	0.0	0.0
Inventory	0.0	0.0	0.0	0.0

Field Posting

Status CLOSED Posting Date 02/11/26

	2 Axle	3 Axle	5 Axle	Single
Actual				
Recommended				

Missing Signs N

Misc.

Bridge Name

N Anti-missile fence N Acrow Panel N Jointless Bridge

Freeze/Thaw N : Not Applicable

Stairs On/Adjacent 0 Stair Owner(s)

Accessibility (Needed/Used)

N / N Liftbucket	N / N Rigging	N / N Other
N / N Ladder	N / N Staging	
N / N Boat	Y / Y Traffic Control	
P / N Wader	N / N RR Flagperson	Inspection Hours: 096
Y / Y Inspector 50	Y / Y Police	

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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: CHESTERFIELD-HINSDALE-MIDDLEFIELD-PITTSFIELD Project File Number: 616286

Contract Number: 135582

Project Description: Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 2)

All AutoCAD files are provided solely as a courtesy to facilitate public access to information. MassDOT attempts to provide current and accurate information but cannot guarantee so. MassDOT provides such documents, files or other data "as is" without any warranty of any kind, either expressed or implied, including but not limited to, accuracy, reliability, omissions, completeness and currentness. The Commonwealth of Massachusetts and its Consultants shall not be liable for any claim for damages, including lost profits or other consequential, exemplary, incidental, indirect or special damages, relating in any way to the documents, files or other data accessible from this file, including, but not limited to, claims arising out of or related to electronic access or transmission of data or viruses. Because data stored on electronic media can deteriorate undetected or be modified without our knowledge, MassDOT cannot be held liable for its completeness or correctness. MassDOT makes no representation as to the compatibility of these files beyond the version of the stated CAD software.

By signing this form, I agree that it shall be my responsibility to reconcile this electronic data with the conformed contract documents, and that only the conformed contract documents shall be regarded as legal documents for this Project. I understand that this authorization does not give me the right to distribute the files. I agree to the terms above and wish to receive the AutoCAD files.

This signed form shall be emailed to the Highway Design Engineer at the MassDOT -Highway Division at the following email address:

DOTHighwayDesign@dot.state.ma.us
Attn: AutoCAD Files

Name of person requesting AutoCAD files: _____

Affiliation/Company: _____

Address: _____

_____

Telephone number: _____

Email address: _____

Signature/Date: _____

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FISH AND WILDLIFE SERVICE
(MESA DETERMINATION)

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MASSWILDLIFE

DIVISION OF
FISHERIES & WILDLIFE

1 Rabbit Hill Road, Westborough, MA 01581
p: (508) 389-6300 | f: (508) 389-7890
MASS.GOV/MASSWILDLIFE

June 29, 2026

Julia Hoogeboom
Massachusetts Department of Transportation - Highway Division, Environmental Services
10 park plaza
Boston, MA 02116

RE: Project Location: CHESTERFIELD- MIDDLEFIELD- PITTSFIELD
Project Description: 616286 -BRIDGE MAINTENANCE AND PRESERVATION
NHESP File No.: 26-20433
Heritage Hub Form ID: RC-99100

Dear Applicant:

The Natural Heritage & Endangered Species Program of the Massachusetts Division of Fisheries & Wildlife (the "Division") received the MESA Project Review Checklist and supporting documentation for review pursuant to the Massachusetts Endangered Species Act (MGL. c. 131A) and its implementing regulations (321 CMR 10.00) (MESA).

PROJECT DESCRIPTION (the "Project")
The proposed locations for this work will occur at the following 4 bridges: Indian Hollow Road over Chauncey Brook in Chesterfield (C-12-019), Town Hill Road over Factory Brook in Middlefield (M-19-003 and M-19-004), Holmes Road over the Housatonic River in Pittsfield (P-10-001), removal and replacement of hot mix asphalt wearing surfaces, full and partial depth deck repairs, joint replacements, substructure repairs, cleaning and painting of structural steel and structural steel repairs. Selective tree clearing in the area within 10' of the outer face of the wingwalls and abutments and extending 10' beyond the end of wingwalls at all bridges (as needed), with no laydown of materials or ground disturbance proposed within vegetated areas. Temporary traffic control is also proposed. as shown on the Project Plan.

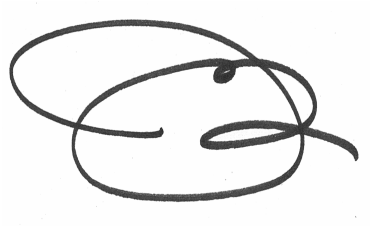
MASSACHUSETTS ENDANGERED SPECIES ACT (MESA)
The MESA is administered by the Division and prohibits the Take of state-listed species, which includes actions that "in reference to animals, means to harass, harm, pursue, hunt, shoot, hound, kill, trap, capture, collect, process, disrupt the nesting, breeding, feeding or migratory activity or attempt to engage in any such conduct, or to assist such conduct, and in reference to plants, means to collect, pick, kill, transplant, cut or process or attempt to engage or to assist in any such conduct. Disruption of nesting, breeding, feeding or migratory activity may result from, but is not limited to, the modification, degradation or destruction of habitat of state-listed wildlife species" (321 CMR 10.02). The purpose of the Division's review under the MESA regulations is to determine whether a Take of state-listed species will result from the proposed project.

Based on a review of the information that was provided and the information that is currently contained in our database, the Division has determined that this Project **will not result in a prohibited Take of state-listed rare**

species. This determination is a final decision of the Division of Fisheries & Wildlife pursuant to 321 CMR 10.18. Any changes to the proposed project or any additional work beyond that shown on the site plans may require an additional filing with the Division pursuant to the MESA. This project may be subject to further review if no physical work is commenced within five years from the date of issuance of this determination, or if there is a change to the project. The authorization for work is valid for 5 years from the date of issuance.

If you have any questions regarding this letter please contact Tim McGuire, Endangered Species Review Biologist, at timothy.mcguire2@mass.gov.

Sincerely,



Jesse Leddick
Assistant Director

cc: david paulson, Massachusetts Department of Transportation
Julia Hoogeboom, Massachusetts Department of Transportation

DOCUMENT A00875

POLICY DIRECTIVE P-22-001
AND
POLICY DIRECTIVE P-22-002

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massDOT Massachusetts Department of Transportation Highway Division

Number: P-22-001
Date: 9/23/22

POLICY DIRECTIVE

Jonathan Gulliver (signature on original)
HIGHWAY ADMINISTRATOR

Off-Site Stockpiling of Soil from MassDOT Construction Projects

Purpose

The purpose of this Policy Directive is to formally establish a policy and procedures for managing and stockpiling soil generated and transported from MassDOT construction projects. This Policy Directive does not supersede any Federal, State, or Local regulations.

Date of Effect

This Policy Directive is effective immediately for all projects, including active construction projects.

For active construction projects and for other projects advertised prior to October 15, 2022, changes to the contract documents needed to implement the requirements of this Policy Directive will be considered on a case-by-case basis and shall be approved by the District Highway Director, as necessary.

For projects advertised on or after October 15, 2022, MassDOT will include the requirements and implementation procedures of this Policy Directive in the construction contract documents.

Policy Requirements

This policy is intended to prevent the off-site relocation of excavated soil generated from MassDOT projects to areas near residential receptors and to control potential fugitive dusts and/or contaminants. To that end, excavated soil may not be moved from the project site without knowledge of the content of the material. Knowledge may include visual field observations for presence of staining, odor, and/or debris, screening with a photoionization detector (PID), laboratory analysis, and/or site history. Pavement millings and other non-soil materials are not subject to the requirements of this Policy Directive.

Moving soil from a MassDOT project site to a temporary off-site storage location must be approved in writing by the District Highway Director.

The Contractor must select a storage location that is at least 500 feet away from residential receptors, as defined herein to include, but not be limited to, residential dwellings, residentially

zoned property, schools, daycare facilities, playgrounds, parks, recreational areas, hospitals, elderly housing and convalescent facilities.

Temporary off-site storage of excavated soil from a MassDOT project is only permissible at a location approved and permitted by MassDOT. The temporary storage location should be located within the same municipality where the soil was excavated, where possible. Stockpiled soil must be securely covered, and appropriate measures must be taken to minimize fugitive dust and erosion.

Signs indicating the source of the soil, the date the soil was generated, and contact information must be erected and maintained until the stockpiled soils are transported to a disposal facility or reused on the project site.

Implementation Procedures

To ensure that off-site storage of excavated soils is managed properly on MassDOT projects, this policy requires the following:

1. **Off-Site Stockpile Storage Locations**
    a. The Contractor shall provide proposed off-site storage locations to the Engineer for approval at least 30 days prior to transporting soil off site. Off-site storage locations should be in the same municipality as the work site.
    b. The Contractor shall keep excavated soil on site until adequately characterized to the satisfaction of the Engineer.
    c. The Contractor shall provide notification of the approved off-site storage location to the local Board of Health and the Town Manager's/Mayor's Office at least 7-days prior to transporting soil off site.
    d. The Contractor shall provide the Engineer with at least 3-days' notice prior to transporting soil off site.
    e. For off-site storage locations on MassDOT property, the Contractor is required to obtain an Access Permit through the District Permits Office prior to storage of soil or other materials. MassDOT will issue these permits at no cost to the Contractor. Information to be submitted by the Contractor as part of the permit application shall include:
        i. A description of material to be stored off-site, including available analytical data;
        ii. A figure of the location with distances to residences and residential receptors; and
        iii. Anticipated duration of temporary storage.
    f. Stockpile locations should not be within 500 feet of residential receptors (e.g., residential dwellings, residentially zoned property, schools, daycare facilities, playgrounds, parks, recreational areas, hospitals, elderly housing and convalescent facilities).
        i. If the stockpile location must be within 500 feet of residential receptors, then soil must be less than RCS-1 (per 310 CMR 40.1600) and free of potentially hazardous or regulated items.

g. For off-site storage locations on non-MassDOT property, the Contractor must notify the property owner(s) at least 7 days prior to transporting material.
h. Exceptions to these rules will be reviewed by MassDOT and may be approved by the District Highway Director on a case-by-case basis.

2. Off-Site Stockpile Management

a. The Contractor shall keep soil stockpiles on impermeable surfaces (e.g., asphalt or concrete) or on 10-mil polyethylene sheeting.
b. The Contractor shall cover soil stockpiles with 10-mil polyethylene sheeting and surround with a berm made of hay bales, straw wattles, or similar.
    i. Piles that are actively being worked on must be covered and re-secured at the end of the work shift.
c. The Contractor shall label stockpiles with signs, including:
    i. Location of origin (including any Release Tracking Numbers)
    ii. Stockpile ID number (including MassDOT District office-assigned tracking ID, if different)
    iii. Date of initial accumulation
    iv. Applicable telephone numbers for the Contractor and MassDOT.
d. The Contractor shall mitigate fugitive dust at storage locations under the direction of an appropriately trained/certified environmental professional.
e. The Contractor shall remedy noncompliance with this policy within 48 hours.
f. The Contractor shall remedy noncompliance with this policy on the SAME DAY for potentially hazardous material, as determined by the Engineer.
g. The Contractor shall handle excavated soil according to federal, state, and local regulations.
h. The Contractor shall use appropriate shipping documents for all movements of excavated soil on public roadways (e.g., Bill of Lading, Material Shipping Record, Manifest, Asbestos Waste Shipment Record, etc.).

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massDOT Massachusetts Department of Transportation Highway Division

Number: P-22-002
Date: 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

CHESTERFIELD-HINSDALE-MIDDLEFIELD-PITTSFIELD

For: **Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 2)**

COMMONWEALTH OF MASSACHUSETTS

LOCATION

The work referred to herein is in the Towns of ASHFIELD, CHARLEMONT, CONWAY, and HAWLEY in Franklin County, in the Commonwealth of Massachusetts, and is shown by the locus map (Document 00331) in the Proposal Pamphlet, the work locations extend as follows:

Chesterfield

Bridge # C-12-019 (0GA) **Indian Hollow Road over Chauncey Brook**

Hinsdale

Bridge # H-16-006 (04Y) **Old Windsor Road over Windsor Brook**

Middlefield

Bridge # M-19-003 (05P) **Town Hill Road over Factory Brook**

Bridge # M-19-004 (05Q) **Town Hill Road over Factory Brook**

Pittsfield

Bridge # P-10-001 (01W) **Holmes Road over Housatonic River**

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, except that if the completion date falls between December 1 and March 15 then the same number of days beyond December 1st will be extended after March 15th.

The Work of this project is described by the following Items and quantities.

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Project # 616286	Contract # 135582			
Location : CHESTERFIELD - HINSDALE - MIDDLEFIELD - PITTSFIELD				
Description : Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 2)				
ITEM #	**QUANTITY**	**ITEM WITH UNIT BID PRICE WRITTEN IN WORDS**	**UNIT PRICE**	**AMOUNT**
101.01	3,625	CLEARING AND GRUBBING AT BRIDGES AT _____ PER SQUARE YARD		
102.	0.15	SELECTIVE CLEARING AND THINNING AT _____ PER ACRE		
106.493	24	POLYESTER POLYMER CONCRETE FOR TOPSIDE DECK REPAIRS AT _____ PER CUBIC YARD		
106.88	3	JACKING AND SHORING AT _____ EACH		
107.97	6,913	STRUCTURAL STEEL REPAIRS AT _____ PER POUND		
127.1	6	REINFORCED CONCRETE EXCAVATION AT _____ PER CUBIC YARD		
127.12	2	REINFORCED CONCRETE SUBSTRUCTURE EXCAVATION AT _____ PER CUBIC YARD		
127.4	52	REINFORCED CONCRETE DECK EXCAVATION (FULL DEPTH) AT _____ PER SQUARE YARD		
127.41	1	REINFORCED CONCRETE DECK EXCAVATION (PARTIAL DEPTH) AT _____ PER CUBIC YARD		

Project # 616286	Contract # 135582			
Location : CHESTERFIELD - HINSDALE - MIDDLEFIELD - PITTSFIELD				
Description : Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 2)				
ITEM #	**QUANTITY**	**ITEM WITH UNIT BID PRICE WRITTEN IN WORDS**	**UNIT PRICE**	**AMOUNT**
226.37	283	CLEANING BRIDGE SEATS AT _____ PER FOOT		
415.3	232	PAVEMENT MICRO MILLING AT _____ PER SQUARE YARD		
450.23	168	SUPERPAVE SURFACE COURSE - 12.5 (SSC - 12.5) AT _____ PER TON		
451.	11	HMA FOR PATCHING AT _____ PER TON		
452.	24	ASPHALT EMULSION FOR TACK COAT AT _____ PER GALLON		
453.	76	HMA JOINT ADHESIVE AT _____ PER FOOT		
482.31	39	SAWING AND SEALING JOINTS IN ASPHALT PAVEMENT AT BRIDGES AT _____ PER FOOT		
620.12	50	GUARDRAIL, TL-2 (SINGLE FACED) AT _____ PER FOOT		
620.32	25	GUARDRAIL - CURVED, TL-2 (SINGLE FACED) AT _____ PER FOOT		

Project # 616286	Contract # 135582			
Location : CHESTERFIELD - HINSDALE - MIDDLEFIELD - PITTSFIELD				
Description : Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 2)				
ITEM #	**QUANTITY**	**ITEM WITH UNIT BID PRICE WRITTEN IN WORDS**	**UNIT PRICE**	**AMOUNT**
627.1	8	TRAILING ANCHORAGE AT _____ EACH		
628.22	3	TRANSITION TO RIGID BARRIER (SINGLE FACED) AT _____ EACH		
628.25	1	TRANSITION TO THRIE BEAM AT _____ EACH		
722.3	1	SCHEDULE OF OPERATIONS (TYPE C) - FIXED PRICE $11,500 AT Eleven Thousand Five Hundred Dollars LUMP SUM	$11,500.00	$11,500.00
740.	18	ENGINEER'S FIELD OFFICE AND EQUIPMENT (TYPE A) AT _____ PER MONTH		
748.	1	MOBILIZATION AT _____ LUMP SUM		
850.41	252	ROADWAY FLAGGER AT _____ PER HOUR		
852.	1,035	SAFETY SIGNING FOR TRAFFIC MANAGEMENT AT _____ PER SQUARE FOOT		
853.1	18	PORTABLE BREAKAWAY BARRICADE TYPE III AT _____ EACH		

Project # 616286	Contract # 135582			
Location : CHESTERFIELD - HINSDALE - MIDDLEFIELD - PITTSFIELD				
Description : Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 2)				
ITEM #	**QUANTITY**	**ITEM WITH UNIT BID PRICE WRITTEN IN WORDS**	**UNIT PRICE**	**AMOUNT**
856.12	493	PORTABLE CHANGEABLE MESSAGE SIGN AT _____ PER DAY		
859.	1,512	REFLECTORIZED DRUM AT _____ PER DAY		
860.106	324	6 INCH REFLECTORIZED WHITE LINE (PAINTED) AT _____ PER FOOT		
861.106	408	6 INCH REFLECTORIZED YELLOW LINE (PAINTED) AT _____ PER FOOT		
905.2	69	5000 PSI, 3/8 INCH, 710 HP CEMENT CONCRETE AT _____ PER CUBIC YARD		
908.11	252	EXPOSED CONCRETE BRIDGE DECK SEALING AT _____ PER SQUARE YARD		
909.3	3	RAPID SETTING LOW PERMEABILITY CONCRETE AT _____ PER CUBIC YARD		
909.5	14	RAPID HARDENING CEMENTITIOUS PRODUCTS FOR CONCRETE REPAIRS AT _____ PER CUBIC YARD		
910.1	1,583	STEEL REINFORCEMENT FOR STRUCTURES - EPOXY COATED AT _____ PER POUND		

Project # 616286	Contract # 135582			
Location : CHESTERFIELD - HINSDALE - MIDDLEFIELD - PITTSFIELD				
Description : Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 2)				
ITEM #	**QUANTITY**	**ITEM WITH UNIT BID PRICE WRITTEN IN WORDS**	**UNIT PRICE**	**AMOUNT**
912.	92	DRILLING AND GROUTING DOWELS AT _____ EACH		
961.201	1	CLEAN (FULL REMOVAL) AND PAINT STEEL BRIDGE NO. H-16-006 (04Y) AT _____ LUMP SUM		
973.20	39	PRE-COMPRESSED JOINT SEAL AT _____ PER FOOT		
974.3	111	METAL BRIDGE RAILING REMOVED AT _____ PER FOOT		
975.51	280	STEEL RAILING REPAIR AT _____ PER POUND		
975.8	111	THRIE BEAM BRIDGE RAIL WITH HANDRAIL AT _____ PER FOOT		
994.021	240	TEMPORARY PROTECTIVE SHIELDING (OUTSIDE FASCIA BEAM) AT _____ PER SQUARE FOOT		
994.1	1,550	TEMPORARY PROTECTIVE SHIELDING AT _____ PER SQUARE FOOT		
Total Qty:	19,953.15			

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DOCUMENT B00842

SCHEDULE OF PARTICIPATION
BY MINORITY OR WOMEN BUSINESS ENTERPRISES (M/WBE)

MASSDOT PROJECT NUMBER: 616286

PROJECT LOCATION: CHESTERFIELD-HINSDALE-MIDDLEFIELD-PITTSFIELD

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 2

MASSDOT PROJECT NUMBER: 616286

PROJECT LOCATION: CHESTERFIELD-HINSDALE-MIDDLEFIELD-PITTSFIELD

DATE OF BID OPENING: _____

FROM _____
(Minority or Women's Business Enterprise Company)

TO: _____
(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.

_____ _____
M/WBE Authorized Signature Date

MINORITY OR WOMEN'S BUSINESS ENTERPRISE PARTICIPATION LETTER OF INTENT
PAGE 2 OF 2

MASSDOT PROJECT NUMBER: 616286

PROJECT LOCATION: CHESTERFIELD-HINSDALE-MIDDLEFIELD-PITTSFIELD

DATE OF BID OPENING: _____

NAME OF PRIME BIDDER: _____

Item number if applicable	Description of Activity with notations such as Installation Only, Material Only, or Complete	Quantity	Unit Price	Amount
		TOTAL AMOUNT:		

M/WBE COMPANY NAME: _____

M/WBE AUTHORIZED SIGNATURE: _____

NAME AND TITLE (PRINT): _____

TELEPHONE NUMBER: _____ FAX NUMBER: _____

Rev'd 9/20/19

*** END OF DOCUMENT ***

DOCUMENT B00846

M/WBE OR SDVOBE JOINT CHECK ARRANGEMENT APPROVAL FORM

(to be submitted by Prime Contractor)

Contract No: 135582 **Project No.** 616286

Location: CHESTERFIELD-HINSDALE-MIDDLEFIELD-PITTSFIELD **Bid Opening Date:** _____

Project Description: Maintenance and Preservation of Municipal Bridges at Multiple Locations (D1 Contract 2)

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

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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:

E. Acquisition and indemnification of payment and performance bonds:

F. Negotiating and signing labor agreements:

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?

B. Identify the "Managing Partner," if any, and describe the means and measure of their compensation:

C. What authority does each firm have to commit or obligate the other to insurance and bonding companies, financing institutions, suppliers, subcontractors, and/or other parties participating in the performance of this Contract or the work of this Project?

IX. Personnel of Joint Venture: State the approximate number of personnel (by trade) needed to perform the Joint Venture's work under this Contract. Indicate whether they will be employees of the majority firm, 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

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