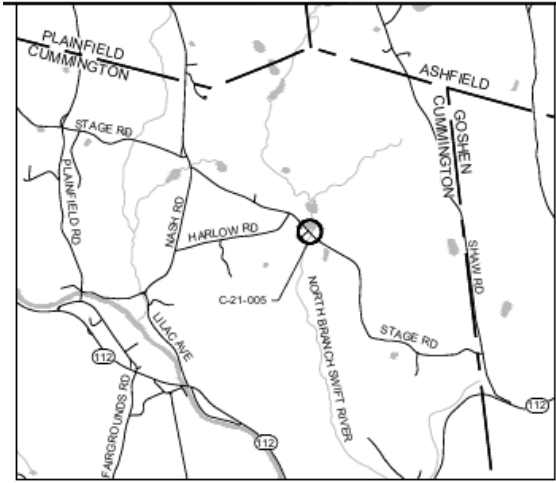


BRIDGE #C-21-005 – STAGE ROAD OVER SWIFT RIVER Cummington, Massachusetts



INVITATION FOR BIDS 2025-2153 Bids due February 11, 2025 at 2pm

Contact Information:

Ellen Batchelder, MCPPO
Assistant Procurement Officer
Franklin Regional Council of Governments
12 Olive Street, Suite 2
Greenfield, MA 01301
413-774-3167 X131
FAX: 413-774-3169

Email: ebatchelder@frcog.org
Bid docs available at <http://frcog.org/bids>

Awarding Authority:

Town of Cummington, MA



Engineering Plans and Specifications by:
Gill Engineering
Needham, MA

INVITATION FOR BIDS

BRIDGE #C-21-005 – STAGE ROAD OVER SWIFT RIVER FRCOG IFB 2025-2153

The Franklin Regional Council of Governments (FRCOG) will accept sealed bids on behalf of the Town of Cummington, MA for complete culvert replacement with a bridge structure on Stage Road over the North Branch of the Swift River in Cummington, MA.

Sealed bids should be marked "**STAGE ROAD OVER SWIFT RIVER BRIDGE**" and will be received by the Franklin Regional Council of Governments, 12 Olive St. Suite 2, Greenfield, MA 01301, until **February 11, 2025 at 2 PM**. Bids received after the deadline will not be accepted. If the FRCOG office is closed for any reason, bids will be opened the following business day at 2PM. *Submit one original and one copy of the bid.*

ALL INTERESTED PARTIES ARE ENCOURAGED TO REVIEW THIS INVITATION FOR BIDS; **HOWEVER THIS IFB SHOULD BE CONSIDERED INFORMAL** AND ONLY BIDS FROM MASSDOT PREQUALIFIED CONTRACTORS IN THE REQUISITE CLASS OF WORK WILL BE CONSIDERED FOR AWARD. ALL CONTRACTORS SHOULD CONFIRM THEIR ELIGIBILITY BEFORE BIDDING. A BIDDER MAY OFFER BIDS UP TO THEIR PREQUALIFICATION AMOUNT.

PREQUALIFICATION AMOUNT: \$856,809.67
THE CLASS OF WORK IS: BRIDGE - CONSTRUCTION

Wage rates for this bid are subject to prevailing wage rates as per MGL Chapter 149, Section 26 - 27f inclusive. This bid is being undertaken per MGL Ch 30 §39M requiring a 5% bid bond/deposit and 50% Labor and Materials Payment Bond.

Qualified bidders who are Minority/Women/Disabled Owned Business Enterprises (M/W/D/BE) businesses are encouraged to apply. Other qualified bidders are encouraged to partner with disadvantaged businesses. A listing of certified disadvantaged businesses can be found at <http://www.mass.gov/sdo>. Affirmative Action, Equal Opportunity, and Workforce Participation goals apply.

A mandatory pre-bid meeting will be held on 1/21/2025 at 11 AM. Meeting begins at the Community House, 33 Main St., Cummington and will then travel to bridge site on Stage Road. In case of inclement weather, registered planholders will be notified by 3PM the day before of any change in the meeting date and time. No bidder unrepresented at the pre-bid meeting will be eligible to bid.

Specifications, and bid instructions are available for download from <https://frcog.org/bids>. Plans and additional reports accessible via Dropbox links (provided in this document). Downloading from the FRCOG site will allow for automatic notification of any addenda or clarifications.

The Town of Cummington is the awarding authority and reserves the right to accept or reject any or all bids in total or in part as they may deem in the best public interest.

FRANKLIN REGIONAL COUNCIL OF GOVERNMENTS

By: *Laura Phelps, Chief Procurement Officer*
January 8, 2025

The Franklin Regional Council of Governments (FRCOG) and the Town do not discriminate on the basis of race, color, national origin, sex, age, disability, or gender with respect to admission to, access to, or operation of its programs, services or activities. If you would

like accessibility or language accommodation, please contact the Title VI Coordinator at 413-774-3167 (voice) (MA Relay System: 800-439-2370), 413-774-3169 (fax), or civilrights@frcog.org (e-mail).

Advertisement for Public Works Construction Services (MGL Ch 30, §39M)

[] Daily Hampshire Gazette Legal Ad	January 8, 2025
[] FRCOG Webpage	January 8, 2025
[] Posted at Cummington Town Hall	January 8, 2025
[] Central Register	January 8, 2025
[] COMMBUYS	January 8, 2025

CRITICAL DATES

Mandatory Pre-Bid Meeting (Community House, 33 Main St., Cummington)	January 21, 2025, 11 AM
Snow date, if needed	January 23, 2025, 11 AM

Deadline for Written Questions Send questions to ebatchelder@frcog.org	January 29, 2025
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Addenda issued to Planholders	February 4, 2025
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SEALED BIDS DUE **February 11, 2025 at 2 PM**

ESTIMATED DATES

Notice of Award	February 26, 2025
Contract Executed	March 12, 2025
Work Completed by	December 15, 2025

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UNDER SEPARATE COVER

The following documents for IFB 2025-2153 are available at the following **DROPBOX** locations:

EXHIBIT 1 GILL ENGINEERING DESIGN PLANS

<https://www.dropbox.com/scl/fi/dmo0gnnayvop5khk9hrul/C21005-Plans.pdf?rlkey=oih2bh6rsd9des2lp5ok897hx&st=rczem6kr&dl=0>

EXHIBIT 2 GEOTECHNICAL REPORT

<https://www.dropbox.com/scl/fi/ug0qimjcvgnvjmf8osx4j/C21005-Geotechnical-Report.pdf?rlkey=l6opw40jqz36atbsu8mt4xfg7&st=le3orc4s&dl=0>

EXHIBIT 3 HYDRAULIC REPORT

<https://www.dropbox.com/scl/fi/49xrairyu28z74pu65ikg/C21005-Hydraulic-Report.pdf?rlkey=0w2eqov9qyr3g1k5216w7z87f&st=murjes1d&dl=0>

PROJECT DESCRIPTION SUMMARY

Bridge #C-21-005 on Stage Road over North Branch of Swift River

The work includes the complete replacement of the existing corrugated steel pipe culvert with a proposed prestressed solid slab deck beam superstructure on a geosynthetic reinforced soil – integrated bridge system (GRS-IBS) substructure. The work shall include the demolition of the existing pipe culvert, the installation of the proposed bridge, the temporary control of water during demolition and construction, bridge excavation, installation of riprap/cobblestone for stream channel restoration, installation of a steel thrie beam bridge railing, approach guard rail, and paving over the proposed bridge and approaches.

The Plans consist of 15 construction drawing sheets that were reviewed and approved by MassDOT on October 29, 2024. The Engineering plans, Geotechnical Report, and Hydraulic Report are included under Separate Cover.

Grant funding for this project is from MassWorks and the Culvert Replacement Municipal Assistance (CRMA) Program, administered by the Massachusetts Department of Fish and Game, Division of Ecological Restoration (DER).

The project is to be completed no later than December 15, 2025.

TECHNICAL SPECIFICATIONS

TOWN OF CUMMINGTON

BRIDGE NO. C-21-005, STAGE ROAD OVER SWIFT RIVER

SPECIAL PROVISIONS TO THE

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION – HIGHWAY DIVISION

STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES

DIVISION II

All work under this contract shall be done in conformance with the 2024 Massachusetts Department of Transportation Highway Division Standard Specifications for Highways and Bridges, the October 2017 Massachusetts Department of Transportation Highway Division Construction Standard Details, the 1990 Standard Drawings for Signs and Supports; the 2023 Manual on Uniform Traffic Control Devices (MUTCD) with Massachusetts Amendments and the Standard Municipal Traffic Code; 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 2024 Standard Specifications for Highways and Bridges shall be referred to collectively as the Standard Specifications.

The work includes the complete replacement of the existing corrugated steel pipe culvert with a proposed prestressed solid slab deck beam superstructure on a geosynthetic reinforced soil – integrated bridge system (GRS-IBS) substructure. The work shall include the demolition of the existing pipe culvert, the installation of the proposed bridge, the temporary control of water during demolition and construction, bridge excavation, installation of riprap/cobblestone for stream channel restoration, installation of a steel thrie beam bridge railing, approach guard rail, and paving over the proposed bridge and approaches. The Plans consist of 15 construction drawing sheets that were reviewed and approved by MassDOT on October 29, 2024. Traffic management required to perform the proposed work shall be as shown on the construction drawings. Payment for materials or work shown on the Plans or as being part of the culvert replacement which may be incidental to its construction and are not specifically included for payment under the Contract shall be considered incidental to the work performed. Where used within the contract documents, the terms “Department”, “Municipality”, and “Town” shall be taken to mean the Town of Cummington. The term “Engineer” shall be taken to mean the authorized representative or Project Manager for the Town of Cummington.

For the work specified under this Contract, the Contractor or Subcontractor(s) shall be prequalified by the Massachusetts Department of Transportation Highway Division (MassDOT) for the following classes of work:

Bridge Construction

~~Demolition~~

Ironwork shall be performed by a Steel Fabricator approved by MassDOT for work on bridge components.

PLANS AND DETAIL DRAWINGS

(Supplementing Subsection 5.02)

Plans for the existing culvert are not available. Existing conditions shown in plans were depicted from field survey and visual observations. The Contractor shall perform his/her own investigation of the existing culvert to determine its condition and details necessary for construction and base his/her bid thereon.

PROTECTION OF UTILITIES AND PROPERTY

(Supplementing Subsection 7.13)

The bridge plans may indicate the location of existing known utilities in the vicinity of the work. Bidders are cautioned to verify this information, as its accuracy and completeness are not guaranteed in any manner.

The Contractor is responsible for the protection of vehicular and pedestrian areas on and around the construction site and for the safety and security of the site whether work is ongoing or not. The Contractor at no additional compensation (unless otherwise, provided in this Contract) shall take all necessary precautions, including the use of shielding, to protect vehicles and pedestrians from debris.

NOTICE TO OWNERS OF UTILITIES

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 attached to, or in the vicinity of the bridge, of his intention to commence operations and the Contractor shall at that time file a copy of such notice with the Engineer.

Before the Contractor begins any work or operations that may cause damage to any subsurface structures, he shall carefully locate all such structures and conduct his operations so as to avoid any damage to them.

A list of public and private utilities can be found on the MassDOT website at:

<https://hwy.massdot.state.ma.us/webapps/utilities/select.asp?t=CUMMINGTON&d=1&c=70>

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

The Town of Cumington directory is shown at the website:

<https://cumington-ma.gov/index.php>

The Contractor shall be responsible for informing the following officials in each area that he is assigned to work in:

Town Highway Superintendant, Town of Cumington
Police Department, Town of Cumington
Fire Department, Town of Cumington

PROTECTION OF UNDERGROUND FACILITIES

The Contractor's attention is directed to the necessity of making his own investigation in order to assure that no damage to existing structures, drainage lines, traffic signal conduits, et cetera, will occur.

The Contractor shall notify Massachusetts DIG SAFE and procure a Dig Safe Number for each location prior to disturbing existing ground in any way. The telephone number of the Dig Safe Call Center is 811 or 1-888-344-7233

PROVISIONS FOR TRAVEL AND PROSECUTION OF WORK

The Contractor shall notify the Town of Cumington in writing at least two (2) weeks in advance of any proposed commencement of the work. Before starting any work under this Contract, the Contractor shall

submit a Schedule of Operations. Work on roadways shall proceed only on such sections and widths thereof as will be approved by the Town of Cumminton.

SURVEY REQUIREMENTS

The Contractor shall be responsible for establishing line and grade for the project, using the provided control points on the plans.

ENVIRONMENTAL REQUIREMENTS

ORDERS OF CONDITIONS

This project is subject to Section 401 of the federal Clean Water Act, 33 USC 1341, and Massachusetts Clean Water Act, M.G.L. c 21, § 26-53, and has been issued Orders of Conditions by the Cumminton Conservation Commission. The Order of Conditions are considered to be part of this contract and a copy of the Orders of Conditions and all plans/attachments shall be on-site while activities regulated by the Orders of Conditions are being performed.

The Contractor's attention is directed to the fact that special conditions and other requirements are associated with the Orders of Conditions. It is the Contractor's responsibility to be aware of and comply with these conditions and requirements and plan his/her work and schedule accordingly. **The Contractor is hereby notified that he/she will be responsible and held accountable for performing any/all work necessary to satisfy and comply with the entire Orders of Conditions.**

The Order of Conditions are attached. The Contractor is advised that no additional compensation will be allowed for work required to establish, achieve, and maintain compliance with the Order of Conditions, as payment for the work shall be included in the various bid items. This work may include, but not limited to, the following: the hiring and paying for services of a Professional Biologist, Botanist, Wetland Scientist, Engineer, Landscape Architect, etc.; preparation and submission of as-built plans; wetland flagging; wetland replication monitoring reports, etc.

UNITED STATES ARMY CORPS OF ENGINEERS GENERAL PERMIT

A General Permit was issued by the United States Army Corps of Engineers dated **Month Day**, 2020 and is attached. The USACE Number is **XXX-XXXX-XXX**.

If Contractor erection, demolition, storage, or other procedures not originally allowed by existing environmental permits require work to occur in or otherwise impact water or wetland resource areas, the Contractor is advised that no associated work can occur until all required environmental permits have been either amended or obtained allowing such work. The Contractor must notify the Engineer in writing at least 60 days prior to commencement of the proposed activity. All environmental submittals, including any contact with Local, State, or Federal environmental agencies, must be coordinated through the Engineer. The Contractor is expected to fully cooperate with requests for information and provide same in a timely manner.

The Contractor is further advised that the Engineer will not entertain a delay claim due to the time required to modify or obtain the environmental permits.

DESIGNER/ TOWN HIGHWAY SUPERINTENDENT

DESIGNER

Peter Gill

pgill@gill-eng.com

Gill Engineering Associates, Inc.

63 Kendrick Street

Needham, MA 02494

781-658-3130

TOWN HIGHWAY DEPARTMENT

Alan Taylor

Town of Cummington

33 Main Street

Cummington, MA 01026

413-634-8818

highway@cummington-ma.gov

ITEM 115.1**DEMOLITION OF BRIDGE NO. C-21-005****LUMP SUM**

The work to be done under this Item shall conform to the relevant provisions of Section 112, 120, and 140 of the Standard Specifications, amended and or supplemented as follows:

The work to be done under this Item shall consist of the demolition and satisfactory removal of the entire existing culvert as shown on the plans. This includes but is not limited to the corrugated steel pipe culvert and the stone wingwalls/embankment protection.

The Contractor shall submit his proposed demolition procedures and methods to be used including equipment, tools, devices, crane or excavator capacity and location, schedule of operations, methods of utility protection, etc., to the Engineer for approval. All rigging and hoisting for existing structure removal shall be in accordance with Section 960 of the Standard Specifications. The demolition procedures and any necessary calculations and drawings shall be stamped by a Professional Engineer registered in Massachusetts certifying that all existing structural members are suitably supported throughout the demolition process. In determining the stresses to which the structure will be subjected, all loading combinations including the Contractor's equipment shall be considered. The method of determining stresses shall conform to the latest AASHTO Standard Specifications for Highway Bridges. Work under this Item may not commence until the Engineer has given written approval.

No debris, tools, or incidental equipment of any kind will be permitted to fall on or adjacent to the brook and adjacent slopes and riverbanks. The Contractor shall be responsible for immediately removing any material that accidentally falls into such areas during demolition operations.

All materials removed under Item 115.1 shall become the property of the Contractor and shall be removed from the job site and disposed of properly.

MEASUREMENT AND PAYMENT

Unless otherwise covered under other contract items, full payment for this work shall be included under the lump sum price for this item, and shall include all labor, equipment, and materials necessary to complete the work.

ITEM 140.**BRIDGE EXCAVATION****CUBIC YARD**

Work under this item shall conform to the relevant provisions of Sections 120, 140 and 150 of the Specifications and the following:

Excavation shall be as required to remove the existing pipe culvert and construct; the proposed bridge, natural stream channel, modified rockfill embankments, and wingwalls to the lines and grades shown on the Plans. Any materials encountered shall be excavated under this item. This includes existing pavement, existing concrete or granite rubble, existing riprap/boulders, and other material encountered within the excavation limits shown on the plans.

Any necessary temporary support of excavation shall be considered incidental to this item and shall be designed and stamped by a Professional Engineer registered in Massachusetts and submitted for approval.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Measurement shall be made to the nearest 0.1 cubic yards of Bridge Excavation complete and accepted by the Engineer. Payment will be made at the contract unit price per cubic yard and shall be considered full compensation for all labor, equipment, stockpiling, handling, formation of embankments, formation of shoulders, backfilling, hauling, disposal, and incidentals necessary to complete the work.

ITEM 151.

GRAVEL BORROW

CUBIC YARD

The work under this item shall conform to the relevant provisions of Section 150 of the Standard Specifications and in close conformity with the lines and grades shown on the plans.

Gravel borrow conforming to material specification M1.03.0 Type B shall be used for the roadway subbase where the existing base material is unsuitable as determined by the engineer.

ITEM 281.6

NATURAL STREAMBED MATERIAL

CUBIC YARD

The work to be done under this Item consists of restoring the streambed to its natural state with the placement of natural stream bed cobble stone material to the limits and grades shown in the Plans.

Natural streambed material shall be rounded without angular edges and shall consist of gravel, cobble stone, and rip rap conforming to the following:

- Gravel Material meeting gradation of M 1.03.0 Type A.
- Cobble stones shall be from the project site or another site that replicates this stone to the greatest extent possible and shall be 6 to 12-inch cobble stone.
- Rip-Rap Material meeting the size requirements in M2.02.0

Placement of the natural streambed stone material shall be compacted in place and shall match in with the existing natural stream channel.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

This Item will be measured and paid at the Contract unit price per Cubic Yard of natural streambed material placed. The Contract price shall include all labor, tools, equipment, and incidental work necessary to complete the work.

ITEM 460.22

SUPERPAVE SURFACE COURSE-9.5 (SSC-9.5)

TON

ITEM 460.31

SUPERPAVE INTERMEDIATE COURSE-12.5 (SIC-12.5)

TON

The work under these items shall conform to the relevant provisions of Section 460. of the Standard Specifications and the following:

Material and placement for HMA pavement courses for the bridge deck shall be per Section 450.50 of the Standard Specifications. This will include modifying the intermediate course and the surface course.

ITEM 620.12

GUARDRAIL, TL-2 (SINGLE FACED)

FEET

ITEM 620.131

GUARDRAIL DEEP POST - STEEL

FEET

ITEM 627.1

TRAILING ANCHORAGE

EACH

ITEM 628.25

TRANSITION TO THRIE BEAM

EACH

ITEM 634.1

THRIE BEAM GUARD PANEL

EACH

The work under these items shall conform to the relevant provisions of Section 600 of the Standard Specifications and the following. The construction of all Highway Guardrail at each of the four quadrants leading into or out of the bridge on the approaches shall include the assembly and erection of all components, parts, and materials complete at the locations indicated on the drawings as detailed and directed. Rail panels shall be shop curved when the radius of curvature is 150 feet or less. All Thrie Beam Panels and the Transition to Thrie Beam located on the approaches to the bridge shall be 10 Gauge. Double nested 12 Gauge Guardrail may be used as an alternative.

Each component part of the Highway Guardrail will be measured as individual units of the lengths and/or number of each unit detailed on the plans. Each payment unit of Thrie Beam Guard Panel shall be based

shall be responsible for ensuring that barriers fulfill the intent of adequately controlling siltation and runoff.

Twelve-inch diameter (after installation) compost filter tubes are intended to be the primary sedimentation control barrier.

For small areas of disturbance with minimal slope and slope length, the Engineer may approve the following sediment control methods;

- Straw tubes/wattles which shall be trenched
- Straw bales which shall be trenched

Additional barriers (adding depth or height) shall be used at specific locations of concentrated flow such as at gully points, steep slopes, or identified failure points in the sediment capture line. Where specified or required by permits, silt fence shall be used in addition to compost filter tubes or straw bales and shall be incidental to this item.

MATERIALS AND CONSTRUCTION

Prior to initial placement of sediment control barriers, the Contractor and the Engineer shall review locations specified on the plans to ensure that the placement will provide maximum effectiveness.

Barriers shall be staked, trenched, and/or wedged as specified herein and shall be securely in contact with existing soil such that there is no flow beneath the barrier.

COMPOST FILTER TUBE

Compost material inside the filter tube shall meet M1.06.0, except for the following: no manure or bio-solids shall be used; no kiln-dried wood or construction debris shall be allowed; material shall pass through a 2-inch sieve; and the C:N ratio shall be disregarded. Outer tube fabric shall be a knitted mesh with 1/8 - 3/8" openings and made of 100% biodegradable materials (i.e., cotton, hemp or jute). Compost filter tubes shall be a minimum of 12 inches in diameter installed. Tubes shall be placed, filled, and staked in place as required to ensure stability against water flows. All tubes shall be tamped, but not trenched, to ensure good contact with soil.

Where reinforcement is necessary, additional tubes shall be installed as shown on the plans.

STRAW BALES

Straw bales shall conform to the requirements of Section M6.04.3 of the Standard Specifications and the following:

Bales should be a minimum size of 12 x 16 x 36 inches and shall be placed in a single row, lengthwise on the contour, with ends of adjacent bales tightly abutting one another. The bales shall be trenched and backfilled. The trench shall be excavated the width of the bale and the length of the proposed barrier to a depth of 4 inches. After the bales are staked the excavated soil shall be backfilled against the barrier. Backfill soil shall conform to the ground level on the downhill side and shall be built up to 4 inches against the uphill side of the barrier.

STRAW WATTLE

Straw wattle shall be a minimum of 12 inches in diameter. Straw filling shall conform to the requirements of Section M6.04.3, shall be encased in durable netting, and shall have a density of 3 lb/foot. Straw wattle shall be trenched in 3 inches deep and staked according to the plans. The wattles shall be sufficiently secure on the upstream side to prevent water flowing underneath the wattle.

SILT FENCE

Materials and Installation shall be per Section 670.40 of the Standard Specifications and the following:

Silt fence shall be used when specified by Orders of Condition or other permitting.

When used with compost filter tubes, the tube shall be placed on a minimum of 8 inches of folded fabric on the upslope side of the fence. Fabric does not need to be trenched.

When used with straw bales, an 8-inch deep and 4-inch wide trench or V-trench shall be dug on the upslope side of the fence line. One foot of fabric shall be placed in the bottom of the trench followed by backfilling with compacted earth or gravel. Stakes shall be driven 16 inches into the ground on the down slope side of the trench and shall be spaced such that the fence remains vertical and effective.

Width of fabric shall be sufficient to provide a 36-inch high barrier after fabric is folded or trenched.

Sagging fabric will require additional staking or other anchoring.

MAINTENANCE

Barriers shall be inspected after each rainfall and at least daily during prolonged rainfall. Contractor shall remove accumulated sediments when they reach one half the height of the barrier or sediment fence.

The Contractor shall immediately correct all deficiencies, including, washouts, overtopping, clogging due to sediment, and erosion. The contractor shall review location of barriers in areas where construction activity causes drainage runoff so as to ensure that the barriers are properly located for effectiveness. Where deficiencies exist, such as overtopping or wash-out, additional staking or additional barriers shall be installed as required by the Engineer.

At specific locations, such as at gully points, steep slopes, or identified failure points in the sediment capture line, barriers shall be reinforced as required by the Engineer. Such reinforcing shall be incidental to the cost of this item and shall not exceed 10 percent of the overall length of barrier required for the project.

Barriers that are decomposing, cut, or otherwise compromised shall be repaired or replaced as directed by the Engineer. Repair and/or replacement shall be incidental to this item.

DISMANTLING & REMOVING

Barriers shall be dismantled and/or removed when construction work is complete and when site conditions are sufficiently stable to prevent surface erosion and after receiving permission to do so from the Engineer.

For all instances, all nonbiodegradable material, including photobiodegradable fabric, plastic netting, nylon twine, and silt fence shall be removed and disposed off-site by the Contractor regardless of site context.

For naturalized areas, biodegradable, natural fabric and material shall be left in place to decompose on-site unless required otherwise by the Engineer. Compost filter tubes may be left as they are with stakes removed. Hay bales shall be broken down and spread evenly. All nylon or nonbiodegradable twine shall be removed along with silt fence. Wooden stakes may be left on site, placed neatly and discretely.

Dismantling, removal, and seeding shall be incidental to this item.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

This item will be measured and paid for at the Contract unit price per foot which price shall include all labor, equipment, materials, maintenance, dismantling, removal, restoration of site, silt fence if required, and incidental costs required to complete the work.

ITEM 991.1 CONTROL OF WATER – STRUCTURE NO. C21005 LUMP SUM

The work to be done under this item shall conform to the relevant provisions of Sections 140 and 950 of the Standard Specifications and the following:

The work shall include the furnishing, installation, operation, maintenance, and removal of the water control system and sedimentation treatment basin required for the construction of the streambed restoration, proposed abutment and wingwalls. The Water Control System shall be capable of diverting the water flow around the construction area, preventing flow through the constructed works, and lowering the water table to an elevation below the bottom of the proposed reinforced soil foundation (RSF) in the construction area as determined by the Engineer and as shown on the plans.

To the greatest extent possible, work shall be done during period of low flow. The Water Control System shall prevent water flow into the bridge construction area for flows up to the 2-year storm event water surface elevation shown on the Plans. Sandbags or other means of blocking the water, as approved by the Engineer, shall be used both upstream and downstream to prevent the flows. The Contractor shall adjust the height of the water control dam structure if needed and use supplemental pumping in the event of an extreme rain event or unusually high flows. Prior to installation of the Water Control System, the Contractor shall notify the Town of Cummington Conservation Commission to inspect and document the existing stream bed prior to excavation. Additionally, the Contractor shall comply with all conditions included with the Town of Cummington Conservation Commission Order of Conditions, dated September, 4, 2024, attached hereto (see Appendices). In case of conflict the Order of Conditions take precedence over these Specifications.

The Contractor shall install and maintain temporary measures for the containment of the stream flow, the collection of siltation and debris due to construction activities and the maintenance of drainage through the drainage system upstream and downstream during the construction period. Temporary control measures shall include, but not be limited to, the use of temporary sheeting, sandbags, stone dikes and dams, sedimentation basins, crushed stone, paved or unpaved waterways and other devices or methods which meet the requirements of this section and approval of the Engineer. The use of earthen berms in the stream is prohibited.

All excavation for the installation of the temporary water diversion shall conform to Section 120. All excavated materials for the temporary water diversion such as earth, rock, muck, pavement, and stone, shall be incidental to this item.

All dewatering and related earthwork shall be conducted in such a manner as to prevent siltation or contamination of the waterway. The pumping discharge shall not be allowed to enter directly into the waterway. The water from the work areas shall be pumped to a settling basin. This basin shall be constructed to allow the pumped water to pass through the basin with sediments settling out before out letting. At a minimum, the basin shall be constructed of an earthen or stone berm lined with geotextile fabric and surrounded by staked straw bales or compost filter tubes. The basin shall meet or exceed the following criteria:

- A. The size and location of the basin shall be determined based on the size of the contractor’s pump and the anticipated flows for the construction of the bridge and wingwalls in the dry.
- B. The outlet/weir of the dewatering basin shall not cause erosion of the surrounding area. An approved method of controlling erosion, such as an erosion control blanket, stone, etc., shall be used at the outlet of the basin.
- C. The Contractor shall maintain the dewatering operations in working condition, including periodic removal of accumulated sediment within the basin to permit its proper function. The water pump

and hoses for dewatering shall be in good working condition and of adequate power and size for the operation.

- D. The contractor shall inspect straw bales/compost filter tubes that surround the outlet daily and shall immediately replace any that are damaged.
- E. The proposed location and design of the settling basin shall be subject to the approval of the Engineer and the Cummington Conservation Commission and MassDEP prior to construction.

Plans and calculations (if applicable) for all sandbags, settling basins and other water control measures shall be developed by the Contractor for this item. These plans and calculations shall be prepared and stamped by a Professional Engineer registered in Massachusetts and shall be submitted for the approval of the Engineer prior to the start of construction. Furthermore, this submission shall be submitted to the Worthington Conservation Commission for review and approval prior to construction.

The Contractor shall be responsible for the removal and proper disposal of all temporary structures or devices to an off-site location. The Contractor is responsible for restoring the stream bed to its original state, regrading, loaming, and seeding of all disturbed areas, and any other incidental work required to perform this work as directed by the Engineer.

Prior to removal of the dewatering system, the Contractor shall notify the Town to inspect the restored stream bed.

METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Payment for the work to be done under this item shall be at the contract lump sum bid price for Item 991.1 Control of Water, which price shall include all labor, materials, equipment, sandbags or other means of blocking water and directing flow, temporary diversion pipes, excavation for temporary pipes, sedimentation basins, filter bags, pumping, removal of temporary water control devices, restoration of all disturbed areas and all incidental costs required to complete the work. Payment for all work related to the installation, removal, and restoration of temporary water control shall be included under this Lump Sum and not under other items of work in the contract.

ITEM 995.01 BRIDGE STRUCTURE, BRIDGE NO. C21005 LUMP SUM

The work to be done under this Item shall conform to the applicable provisions of Section 901, 960, and 995 of the Standard Specifications and the specific requirements stipulated below for the component parts of this Item.

Work under this Item shall include all materials, equipment and labor needed to construct the following components of the bridge: precast prestressed concrete solid deck beams, cast in place concrete closure pours, concrete safety curb and bridge railing, and membrane waterproofing for the bridge deck.

Materials shown on the plans as being part of this bridge structure or incidental to its construction shall be included for payment in this Lump Sum and shall not be included for payment under another Item in this contract.

5000 PSI, 3/4 INCH, 685 HP CEMENT CONCRETE

5000 PSI, ¾ IN., 685 HP Cement Concrete shall be used to construct the proposed closure pours and safety curbs. 5000 PSI, ¾ IN., 685 HP Cement Concrete shall conform to all material and placement, finishing, and curing requirements of the Standard Specifications, with the exception of the cementitious content which shall be limited to a maximum of 685 pounds per cubic yard.

Placement, finishing, and curing of the concrete bridge deck shall conform to 901.66, except that Section *F. Curing* shall be revised to require a curing period of not less than 7 days.

Finishing shall be in accordance with 901.66, Part E Finishing, Section 2 Finishing Machine – Placement Widths less than or Equal to 15 Feet or Bridge Lengths Less Than or Equal to 50 Feet.

PRESTRESSED CONCRETE SOLID DECK BEAM – SHOP APPLIED SEALER

This work shall consist of preparing and treating the prestressed concrete solid deck beams with a shop applied penetrating sealer-HMWM Resin (High Molecular Weight Methacrylate) to the limits shown on the contract drawings, in accordance with these specifications, in close conformity with the manufacturer’s recommendations,

MATERIALS

Methacrylate sealer shall consist of a high molecular weight low viscosity methacrylate monomer that when catalyzed will produce a penetrating-sealer that is a rapid-curing, modified-methacrylate resin. The methacrylate material shall, as a minimum, provide the following as applied properties:

Property	Value	Test
Viscosity	< 25 cps	ASTM D2393
Bond Strength	> 1500 psi	ASTM C882
Tensile Elongation	> 3%	ASTM D638

CONSTRUCTION

- A. Surface Preparation. All dirt and debris shall be removed from the area of the beam to be treated. Areas to be treated shall be swept, abrasively shot-blasted, then, with the use of a manual or power broom sweep, blown clean and dry with compressed air so that the surfaces to which the sealer are to be applied are dry and free of dust and dirt. High pressure compressed air shall be used to blow all loose material.
- B. Installation. Prior to resin application the surface to be treated shall be visibly dry and its temperature shall range between 50°F and 120°F. Before using the material, a certificate of compliance shall be submitted to the Engineer showing that the material complies with the requirements of this specification.

The beam surfaces shall be flooded with resin, allowing penetration into the concrete. The volume of initiated mix of promoted resin shall be limited to 5 gallons at a time for manual application. A significant increase in viscosity shall be cause for rejection. The treatment shall be applied within 5 minutes after complete mixing. Excess material shall be redistributed by squeegee or brooms within 10 minutes after application.

The treated beam areas shall be protected from moisture for not less than 4 hours after placement.

PRESTRESSED CONCRETE SOLID DECK BEAMS (SDB48-15)

GENERAL

The work under this Heading consists of fabricating, transporting and installing precast prestressed concrete Solid Deck Beams, and includes all necessary labor, materials, and equipment to complete the work as shown on the Plans. The work shall conform to the Standard Specifications and the requirements of the current AASHTO LRFD Bridge Construction Specifications, supplemented by the current relevant provisions of the latest edition of PCI MNL-116 (The Manual for Quality Control for Plants and Production of Precast and Prestressed Concrete Products), except as noted herein. The contract documents shall take precedence over the AASHTO LRFD Bridge Construction Specifications and PCI MNL-116. Section 930, M4.02.14, and M4.03.00 through M4.03.14 of the Standard Specifications are superseded in their entirety by the requirements specified below. Where referenced under this heading, the term “Inspector” shall be taken to mean the independent testing consultant or firm retained by the Contractor to ensure compliance with the Standard Specifications and this Special Provision as allowed for under item 999.300.

QUALITY ASSURANCE

A. GENERAL

Quality Assurance includes all the planned and systematic actions necessary to provide confidence that a product or facility will perform satisfactorily in service. It is an all-encompassing term that includes Quality Control (performed by the Fabricator) and Acceptance (performed by MassDOT). Quality Control is the system used by the Contractor and Fabricator to monitor and assess their production processes at the plant facility and installation activities at the project site to ensure that the final product will meet the specified level of quality. Acceptance includes all factors used by MassDOT to determine the corresponding value for the product. MassDOT Acceptance inspection at the plant facility is intended as a means of evaluation of compliance with contract requirements. Contractor and Fabricator Quality Control activities and MassDOT Acceptance activities shall remain independent from one another. MassDOT Acceptance activities shall not replace Fabricator Quality Control activities.

B. FABRICATOR QUALITY CONTROL.

Quality Control shall be performed by the Fabricator to ensure that the product is fabricated in conformance with the specifications herein. The Fabricator shall maintain a Quality Control system to monitor, assess, and adjust placement and fabrication processes to ensure the Prestressed Concrete Beam(s) meet the specified level of quality, through sufficient Quality Control sampling, testing, inspection, and corrective action (where required). The Fabricator’s Quality Control system shall address all key activities during the placement and fabrication and shall be performed in conformance with the Fabricator’s PCI Certification. Quality Control documentation shall meet the requirements of the *Fabricator Quality Control – Documentation* section below. Upon request, Fabricator Quality Control documentation shall be provided to the Engineer.

1. PLANT

Prior to the fabrication of Prestressed Concrete Beams, the Fabricator’s precast concrete plant shall obtain the following:

- (a) Certification by the Precast/Prestressed Concrete Institute (PCI) Plant Certification Program, for Prestressed Concrete Beam fabrication, Category B3 level or higher
- (b) MassDOT Prequalification
- (c) MassDOT Mix Design Approval

All concrete for a given Prestressed Concrete Beam shall be produced by a single company and plant, unless otherwise approved by the Engineer.

2. PERSONNEL

The Fabricator shall provide adequate training for all QC personnel in accordance with PCI certification. There shall be sufficient personnel trained and certified to perform the tests listed under Subsection M4.02.13, Part D. At a minimum, the Fabricator's Quality Control Personnel shall maintain the following qualifications and certifications:

- (a) QC Manager with an active Precast/Prestressed Concrete Institute (PCI) Technician/Inspector Level II or higher, and a minimum of 5 years continuous experience in the manufacture of Prestressed Concrete Beams for similar projects. The QC Manager shall be on site while the batch plant is producing and placing concrete for this project.
- (b) A Technician/Inspector having the Precast/Prestressed Concrete Institute (PCI) Technician/Inspector Level II or higher

The Contractor shall submit to the Engineer a copy of the Fabricator's Quality Control Personnel required qualifications, as specified above.

3. LABORATORY

The Fabricator shall provide a room of sufficient size to house all equipment and to adequately perform all testing. The room shall have either a separate moisture storage room or curing box for concrete cylinders, and it shall be thermostatically controlled to maintain temperatures consistent with AASHTO T 23. It shall include a desk and file cabinet for proper record keeping, and have good lighting and ventilation. This room shall be kept for testing and quality control and not used for any other purpose. An additional desk and file cabinet shall be provided for exclusive use of the Inspector. No exception from these requirements will be allowed without the express written permission of the Engineer.

The Fabricator shall provide a room of sufficient size to house all equipment and to adequately perform all testing. The room shall have either a separate moisture storage room or curing box for concrete cylinders, and it shall be thermostatically controlled to maintain temperatures consistent with AASHTO T 23. It shall include a desk and file cabinet for proper record keeping, and have good lighting and ventilation. This room shall be kept for testing and quality control and not used for any other purpose. An additional desk and file cabinet shall be provided for exclusive use of the Inspector. No exception from these requirements will be allowed without the express written permission of the Engineer.

4. TESTING EQUIPMENT

At a minimum, the Fabricator's plant facility shall have the following testing equipment:

- (a) Air Content Meter Type A or B: AASHTO T 152
- (b) Air Content Meter Volumetric Method: AASHTO T 196 (Required for Lightweight Concrete)
- (c) Slump Cone: AASHTO T 119
- (d) Cylinder Molds AASHTO M 205
- (e) Concrete Testing Machine: AASHTO T 22
- (f) Screening Sieve: AASHTO T 27, AASHTO T 11
- (g) Curing Box: AASHTO T 23
- (h) Spread Test Base Plate for Self-Consolidating Concrete (SCC): ASTM C1611

All other equipment prescribed by AASHTO and ASTM standards for the tests to be performed by the Fabricator as specified

5. INSPECTION

Quality Control personnel shall monitor and inspect the fabrication of each Prestressed Concrete Beam. Quality Control personnel shall report all inspection activities on Quality Control Inspection Reports and non-conformances on Non-Conformance Reports (NCRs) throughout the entire fabrication process, as specified herein.

6. TEMPERATURE MONITORING

At a minimum, the Fabricator shall monitor, record, and report the temperatures of the form, ambient temperatures surrounding the concrete, and temperatures of the concrete continuously, without interruption as specified below:

- (a) Prior to placement of concrete to verify that $T_i \geq 50^\circ\text{F}$.
- (b) Immediately after placement to verify that $T_i \geq 50^\circ\text{F}$ is maintained.
- (c) Throughout the entire duration of the curing cycle, at regular intervals not to exceed one hour until 100% Design Strength (f'_c) is attained and concrete has cooled to within 40°F of the ambient temperature surrounding the Prestressed Concrete Beam.

At a minimum, the temperature measuring devices shall record and report the temperature of the concrete to the nearest 2°F . At least two temperature sensors (thermocouples) shall be positioned to record the maximum and minimum anticipated concrete temperatures. The anticipated minimum temperature shall be measured with one or more thermocouples at a distance no greater than 2 inches from the surface of the thinnest section. The anticipated maximum temperature shall be measured with one or more thermocouples at the center of the thickest section. Proposed temperature measurement locations shall be submitted to the Engineer for approval. Temperature recording devices shall be located within the curing enclosure and calibrated as required by PCI MNL-116 Section 4.18.4. Maximum heat increase and cool down rates shall comply with PCI MNL-116, Section 4.19. The Contractor shall furnish temperature logs recorded at a minimum frequency of once per hour to the Inspector as required, with each post-pour QC inspection report.

7. SAMPLING AND TESTING.

At a minimum, the Fabricator shall perform random Quality Control sampling and testing as specified in *Table 1: Quality Control Sampling and Testing*. The Fabricator shall perform additional Quality Control sampling and testing on concrete that has been retempered with admixtures or hold-back water during fabrication. Test Specimens shall conform to the requirements of Section M4.02.13 of the MassDOT Standard and Supplemental Specifications and AASHTO R 60, with the exception of the Stripping (80% f'_c) set of cylinders. Stripping (80% f'_c) cylinders shall be cured in the same location and environment as the Prestressed Concrete Beam they represent. If approved by the Engineer, compressive strength cylinder match curing equipment, that maintains the same concrete conditions that the corresponding Prestressed Concrete Beam is exposed to, may be utilized in lieu of Stripping (80% f'_c) field cured cylinders, with the use of thermocouples, controllers, and heaters.

Table 1: Quality Control Sampling and Testing

Quality Characteristic	Test Method	Sample Size	Specification Limit	Lot Size ^(c)	Sublot Size ^(d)	Frequency	Point of Sampling
Slump (in.) ^(a)	AASHTO T 119	Per AASHTO	≤ 8 in. or as approved by the Engineer				
Air Content (%)	AASHTO T 152	Per AASHTO	5% ≤ % ≤ 8%				
Temperature (°F)	AASHTO T 309	Per AASHTO	50°F ≤ °F ≤ 90°F				
Compressive Strength (psi)	AASHTO T 22	Stripping Cylinders: One (1) set of Three (3) 4 x 8 in.	≥ 80% f' c at Stripping				
		7-day Cylinders: One (1) set of Three (3) 4 x 8 in.	For Information at 7 days				
		28-day Cylinders: One (1) set of Three (3) 4 x 8 in.	≥ 100% f' c at 28 days				
		56-day Cylinders: One (1) set of Three (3) 4 x 8 in.	≥ 100% f' c at 56 days ^(b)				

Notes:

- (a) Self-consolidating concrete (SCC) shall meet the requirements of M4.02.17.
- (b) 56-day Compressive Strength test specimens shall require testing only when 28-day Compressive Strength test specimens have failed to meet Design Strength (f' c).
- (c) Lot shall be defined as a specific quantity of material from a single source, produced or placed by the same controlled process.
- (d) Sublot shall be defined as an equal division or part of a Lot from which a sample of material is obtained in order to assess the Quality Characteristics of the Lot.

8. CERTIFICATE OF COMPLIANCE

The Fabricator shall provide a Certificate of Compliance in accordance with Standard Specifications, Division I, Section 6.01, stating that QC test cylinders have achieved the design strength, f' c. A Certificate of Compliance shall accompany each shipment and shall be presented to the Engineer or designee upon delivery to the site.

9. DOCUMENTATION

At a minimum, the Fabricator shall maintain a filing system for the following QC records and documentation. All QC records and documentation shall be made available at the request of the Engineer.

- (a) Current MassDOT Approved Mix Design Sheet(s) and Approval Letter(s)
- (b) PCI Certification
- (c) Current Qualifications and Certifications for QC Manager(s) and QC Technician(s)
- (d) Most current set of Approved Shop Drawings
- (e) Approved Placement, Finishing and Curing Plan
- (f) Approved Dunnage Plan
- (g) Fabricator Certificate of Compliance for each fabricated Prestressed Concrete Beam
- (h) Admixture Manufacturer's Certification of Compliance for each approved Admixture
- (i) Completed QC Inspection Report for each fabricated Prestressed Concrete Beam
- (j) Identification Number for each fabricated Prestressed Concrete Beam
- (k) Time and date of casting of each fabricated Prestressed Concrete Beam
- (l) Date of stripping of each fabricated Prestressed Concrete Beam
- (m) Batch Ticket Printout reporting the quantity of concrete produced for each batch of concrete produced
- (n) Concrete temperature records for each fabricated Prestressed Concrete Beam
- (o) QC Test Report Forms for each subplot of concrete produced
- (p) Non-Conformance Reports (NCRs)
- (q) Documentation of Repairs (if applicable)

C. ACCEPTANCE

The Inspector will perform Acceptance inspection, sampling, and testing during fabrication and installation, to evaluate the quality and degree of compliance of the fabricated Prestressed Concrete Beam to these specifications. Additionally, the Inspector will monitor the Fabricator's Quality Control activities to ensure the Fabricator is properly administering Quality Control in conformance with the Fabricator's NPCA or PCI Certification. Acceptance inspection and test results not meeting these specifications will result in Non-conformance Reports (NCR) being issued by the Inspector to the Fabricator or Contractor for corrective action. Final Acceptance for the fabricated Prestressed Concrete Beams shall be determined by the Inspector.

1. INSPECTION

The Inspector will be assigned to perform Acceptance activities during fabrication, which includes the inspection of the materials, work procedures, and Prestressed Concrete Beams. At least seven (7) days prior to the scheduled start of fabrication, the Fabricator shall contact the Inspector to provide notice of the scheduled fabrication start date. The Fabricator shall complete the following activities prior to notifying the Inspector of the scheduled start date:

- (a) Receive approval for all submitted Fabricator cement concrete mix designs from the MassDOT Research and Materials Section for the current year, as specified under the *Mix Design* section and *Table 3: Trial Batch Sampling Testing for New Mix Designs*. Self-consolidating concrete shall meet the requirements of M4.02.17.
- (b) Receive approval for the submitted Fabricator Placement, Finishing, and Curing Plan from the Engineer, as specified under the *Placement, Finishing, and Curing Plan* section.
- (c) Fabricator shop drawings have been approved by the Engineer of Record.
- (d) Participate in the pre-production meeting, as described under the *Pre-Production Meeting* section (if required).

Prior to the start of fabrication, the Fabricator shall review the fabrication schedule with the Inspector. Fabrication shall only proceed when:

- (a) The Contractors QC technician/inspector and the Inspector are present to inspect the Prestressed Concrete Beam(s) being fabricated.
- (b) The QC Manager is present at the Fabricator's plant.

The Fabricator shall grant access to all required areas of the Fabricator's plant to the Inspector, during the hours of fabrication. Fabrication without Inspector access to required areas is prohibited, and will result in the rejection of the Prestressed Concrete Beam(s).

Additionally, the Inspector will monitor the adequacy of the Fabricator's Quality Control activities. Inspector Acceptance activities performed at the Fabricator's plant shall remain independent from the Fabricator, and does not replace the Fabricator's required Quality Control activities.

2. SAMPLING AND TESTING.

At a minimum, the Inspector will perform random Acceptance sampling and testing for each Sublot of concrete produced as specified in *Table 2: Acceptance Sampling and Testing*. The Inspector will also perform Acceptance sampling and testing on concrete that has been retempered with admixtures or hold-back water during production. Test Specimens will conform to the requirements of Section M4.02.13 of the MassDOT Standard and Supplemental Specifications and AASHTO R 60.

Table 2: Acceptance Sampling and Testing

Quality Characteristic	Test Method	Sample Size	Specification Limit	Lot Size (c)	Sublot Size (d)	Frequency	Point of Sampling
Slump (in.) (a)	AASHTO T 119	Per AASHTO	≤ 8 in. or as approved by the Engineer				
Air Content (%)	AASHTO T 152	Per AASHTO	5% ≤ % ≤ 8%				
Temperature (°F)	AASHTO T 309	Per AASHTO	50°F ≤ °F ≤ 90°F				
Compressive Strength (psi)	AASHTO T 22 AASHTO T 23	7-day Cylinders: One (1) set of Three (3) 4 x 8 in.	For Information at 7 days				
		28-day Cylinders: One (1) set of Three (3) 4 x 8 in.	≥ 100% f _c at 28 days				
		56-day Cylinders: One (1) set of Three (3) 4 x 8 in.	≥ 100% f _c at 56 days (b)				
				Total Quantity of Beams fabricated on a Contract, per Bid Item, per Mix Design	One (1) Beam	One (1) per Sublot or fraction thereof	Point of Discharge

Notes:

- (a) Self-consolidating concrete (SCC) shall meet the requirements of M4.02.17.
- (b) 56-day Compressive Strength test specimens shall require testing only when 28-day Compressive Strength test specimens have failed to meet Design Strength (f_c).
- (c) Lot shall be defined as a specific quantity of material from a single source, produced or placed by the same controlled process.
- (d) Sublot shall be defined as an equal division or part of a Lot from which a sample of material is obtained in order to assess the Quality Characteristics of the Lot.

MATERIALS

A. MATERIALS

Materials shall meet the following specifications (if applicable):

General	M4.00.00
Portland Cement	M4.01.0
Blended Hydraulic Cements	M4.01.1
Fly Ash	M4.01.2
Cement Concrete	M4.02.00

Cement	M4.02.01
Cement Mortar	M4.02.15
Aggregates	M4.02.02
Lightweight Aggregates	M4.02.03
Water	M4.02.04
Cement Concrete Additives	M4.02.05
Proportioning	M4.02.06
Mixing and Delivery	M4.02.10
Test Specimens	M4.02.13
Mortar for Filling Keyways	M4.04.0
Slag	AASHTO M 302
High Performance Cement Concrete	M4.06.1
Self-Consolidating Concrete (SCC)	M4.02.17
Prestressing Strands	AASHTO M 203
Reinforcing Bars	M8.01.0
Epoxy Coated Reinforcing Bars	M8.01.7
Welded Wire Reinforcement	M8.01.2
Mechanical Reinforcing Bar Splicer	M8.01.9
Strand Chuck	M8.15.0
Lifting Devices	PCI MNL-116

1. CEMENT CONCRETE MIX DESIGN

The cement concrete shall be comprised of specified proportions of water and MassDOT approved aggregates, cement, supplementary cementitious materials (SCMs), and admixtures to form a homogenous composition. When used, self-consolidating concrete (SCC) shall meet the requirements of M4.02.17.

The Fabricator is responsible for developing the concrete mix to be used for fabricating prestressed beams and having it prequalified by the MassDOT Research and Materials Section. The mix design compressive strength shall be as shown on the plans and as prequalified by the MassDOT Research and Materials Section. Prequalification shall include the trial batch testing shown in Table 3. For previously prequalified mixes, the Fabricator shall perform any tests specified in Table 3 that were not previously performed.

If the concrete mix has not been prequalified by the MassDOT Research and Materials Section, the Fabricator shall design and submit for approval, the proportions and test results for a concrete mix that shall attain the requirements specified in Table 3. The proposed mix design and all required test results shall be submitted to the MassDOT Research and Materials Section for approval. Requirements for additional testing and receipt of additional documentation from the Fabricator will be determined by RMS. Unsatisfactory results or other conditions identified during this additional testing and additional documentation review, will require re-submission of a new mix design for review and approval.

The mix shall be formulated with calcium nitrite corrosion inhibitors, which shall be added at a rate of 3 gallons per cubic yard of concrete in order to increase the active corrosion threshold to 9.9 pounds of chloride per cubic yard of concrete at the reinforcing bar level. Prior to production of cement concrete, the Fabricator shall report and submit all proposed mix design formulations and its constituent materials onto the MassDOT Cement Concrete Mix Design Sheet to MassDOT Research and Materials Section for review and approval. All mix design yields shall be designed for 1.0 cubic yards of concrete, with an allowable tolerance of +/- 1.0 %. All liquids incorporated into the proposed mix design(s) shall include both water and admixtures in the liquid mass calculation.

During production of cement concrete, the Fabricator shall not alter the previously approved mix design formulation or its constituent materials. Proposed alterations in source, type, batch quantity, or gradation to any of the constituent materials of the previously approved mix design formulation shall require a new MassDOT Mix Design Sheet submission to MassDOT Research and Materials Section for review and approval. Fabrication shall not occur without prior MassDOT mix design approval. All concrete used for prestressed concrete beams shall be batched by the Fabricator producing the prestressed concrete beams. The use of ready-mix concrete batched by others shall not be permitted.

The Fabricator shall notify MassDOT RMS to schedule trial batch testing for the new mix design(s). Trial batch testing shall meet the following requirements:

- (a) Performed by a qualified laboratory and/or AASHTO accredited laboratory.
- (b) Performed and/or sampled in the presence of a MassDOT Inspector.
- (c) Meet the requirements as specified in *Table 3: Trial Batch Sampling Testing for New Mix Designs*. Self-consolidating concrete (SCC) shall meet M4.02.17.

Failure to perform all of the required trial batch testing or provide MassDOT RMS trial batch test results within the Specification Limits (as specified in Table 3) will result in the disqualification of the Fabricator’s proposed mix design(s).

Table 3: Trial Batch Sampling and Testing for New Mix Designs

Quality Characteristic	Test Method	Sample Size	Specification Limit	Performed By
Slump ^(a)	AASHTO T 119	Per AASHTO	Max. 8 inches or as approved by the Engineer	Quality Control
Air Content (AC)	AASHTO T 152	Per AASHTO	$5\% \leq AC \leq 8\%$	Quality Control
Temperature (°F)	AASHTO T 309	Per AASHTO	$50^{\circ}F \leq ^{\circ}F \leq 90^{\circ}F$	Quality Control
Compressive Strength ^(b)	AASHTO T 22 AASHTO T 23	28-day Cylinders: One (1) set of Three (3) 4 x 8 in.	Lab Mixed $f'_{cr} = 1.3 f'_c$ at 28 days	Inspector
			Batch Mixed $f'_{cr} = 1.2 f'_c$ at 28 days	Inspector
Alkali-Silica Reaction (ASR) ^(d)	ASTM C 1567	Per ASTM	M4.02.00	Quality Control
Resistance to Chloride Ion Penetration Chloride Ion Penetration ^(e)	AASHTO T 358 ^(f)	28-day Cylinders: One (1) set of Three (3) 4 x 8 in.	Resistivity ≥ 21 k Ω -cm at 28 days	Inspector
Freeze/Thaw Durability ^(c)	AASHTO T 161 (Procedure A)	Per AASHTO	Relative Dynamic Modulus of Elasticity after 300 cycles $\geq 80\%$	Quality Control

Notes:

- (a) Self-consolidating concrete (SCC) shall meet the requirements of M4.02.17.
- (b) Acceptance will be based on compressive strength testing performed by the Inspector .

- (c) If an AASHTO accredited laboratory is preparing the trial batch test specimens, Inspector Acceptance presence is not required. If the Fabricator is preparing the trial batch test specimens, Inspector Acceptance presence is required during trial batch test specimen preparation.
- (d) Alkali Silica Reaction (ASR) testing shall meet the requirements of M4.02.00. Independent laboratories performing ASR testing shall be listed on the MassDOT Quality Construction Materials List (QCML).
- (e) Calcium nitrite shall be removed from mix designs containing the admixture and replaced by an equivalent quantity of water when preparing Chloride Ion Penetration resistance trial batch test specimens.
- (f) The Wenner probe tip spacing “a” shall be 1.5.

2. REINFORCEMENT AND PRESTRESSING STRANDS

The size and grade of steel reinforcement and prestressing strands shall be as indicated on the plans. All reinforcing steel shall be epoxy coated, Grade 60. All prestressing strands shall be uncoated.

3. TRANSVERSE TIES.

The transverse ties shall be low-relaxation strands meeting the requirements of AASHTO M 203. The size and grade shall be as indicated on the plans. The ties shall be supplied with a seamless polypropylene sheath which has corrosion inhibitor grease between the strand and sheath. The location of all transverse ties, shall be as shown on the plans.

4. THREADED INSERTS

Threaded inserts are permissible in Prestressed Concrete Beams for installing formwork, utility supports, or deck drains. Threaded inserts shall be hot dip galvanized or made of stainless steel and shall not come in contact with the reinforcing steel. The number of threaded inserts installed for the Contractor’s convenience shall be kept to a minimum.

CONSTRUCTION METHODS – PLANT FABRICATION

A. SHOP DRAWINGS

Prior to performing any work under this Section, the Contractor shall receive approval for all shop drawings for the Prestressed Concrete Beam being worked on and any special Contract requirements, provided that a complete shop drawing package is provided. The Contractor shall not order materials or begin work before receiving approved shop drawings. The Engineer will reject any precast concrete beams that deviate from the approved drawings or are fabricated prior to receiving written approval of the shop drawings. The Contractor shall bear full responsibility and costs for all materials ordered or work performed prior to the approval of the shop drawings or written authorization from the Engineer.

The Contractor shall submit scaled shop drawings to the Engineer of Record for review and approval. An approval stamp shall appear on every shop drawing sheet. Wet-stamping or wet-signing is not required, provided that the stamp and reviewer name are legible. The Fabricator’s name and address shall appear on each sheet.

Resubmittal of “Approved as Noted” shop drawings is not necessary for minor revisions, provided that the correction can be clearly understood and is unambiguous without possibility of misinterpretation. Shop drawings with questions or comments that require a response and/or additional information from the Fabricator must be resubmitted.

Detailed shop drawings shall be prepared in accordance with the relevant provisions of Subsection 5.02 and shall, at a minimum, contain the following:

- (a) Number and type of Prestressed Concrete Beams including overall length, width and height.
- (b) Skew angle.

- (c) Location and spacing of strands, draped strands and their geometry, and/or location and spacing of strands to be debonded including the length of each strand's debondment.
- (d) Location, size and geometry of all steel reinforcement, and mechanical reinforcing bar splicers if called for on the plans.
- (e) Location and details of all inserts, anchors, and any other items required to be cast into the Prestressed Concrete Beams (whether detailed on the plans by the Engineer of Record or provided for the Contractor's convenience). Prestressed Concrete Beams shall not be fired or drilled into for attachment purposes. All hardware shall be galvanized except as noted.
- (f) Locations and details of the lifting devices, including supporting calculations, type and amount of any additional reinforcing required for lifting. The Fabricator shall design all lifting devices based on the no cracking criteria in Chapter 8 of the PCI Design Handbook (7th edition).
- (g) The minimum compressive strength required prior to release of prestressing and prior to handling the Prestressed Concrete Beam.

The shop drawings shall not include procedures for placement, finishing, and curing of concrete. These details shall be included in the Placement, Finishing and Curing Plan that is to be submitted to the Engineer as described under *Placement, Finishing, and Curing Plan*.

B. FABRICATION

All Prestressed Concrete Beams shall be fabricated in accordance with the latest edition of PCI MNL-116 as modified herein.

C. PLACEMENT, FINISHING AND CURING PLAN

At least 30 days prior to start of fabrication, the Contractor shall submit the Fabricator's proposed Placement, Finishing and Curing Plan to the Engineer for approval. This shall be an independent submittal, separate from the fabrication shop drawings. The Placement, Finishing and Curing Plan shall include the following:

- (a) Method of Mixing
- (b) Method of Placement
- (c) Method of Consolidation
- (d) Method of Finishing
- (e) Method of Initial Curing
- (f) Method of Intermediate Curing
- (g) Method of Final Curing
- (h) Moisture Retention Materials and Equipment (water spray equipment, saturated covers, sheet materials, liquid membrane-forming compounds, accelerated curing equipment, etc.)
- (i) Cylinder Curing Methods, Location, and Environmental Control (temperature, humidity, etc.)
- (j) Temperature Monitoring, Recording, and Reporting

D. DUNNAGE PLAN SHOP DRAWINGS

At least 30 days prior to the start of fabrication, the Contractor shall submit proposed Dunnage Plan Shop Drawings to the Engineer of Record for review and approval. This shall be an independent submittal, separate from the fabrication shop drawings. The Dunnage Plan Shop Drawings shall include the following:

- (a) Proposed layout of the Prestressed Concrete Beams for storage in yard and during shipping
- (b) Support and blocking point locations
- (c) Support and blocking materials

E. PRE-PRODUCTION MEETING

The Contractor shall notify the Engineer to determine if a pre-production meeting will be required to review the specification, shop drawings, curing plan, schedule, and discuss any specific requirements. The meeting shall be held prior to scheduling the Inspector (refer to Section *Quality Assurance – Precast Concrete, C. Acceptance, A. Inspection*), and at least seven (7) days prior to the scheduled casting of any Prestressed Concrete Beam or control section. The Contractor shall schedule the meeting, which shall include representatives of the Fabricator and the Town.

F. REINFORCEMENT

The reinforcing bars shall be installed in accordance with Section 901.62 of the Supplemental Specifications, including tolerances for cover and horizontal spacing of bars. Components of mechanical reinforcing bar splicers shall be set with the tolerances shown on the plans. The reinforcing bars and mechanical reinforcing bar splicers shall be assembled into a rigid cage that will maintain its shape in the form and which will not allow individual reinforcing bars to move during the placement of concrete. This cage shall be secured in the form so that the clearances to all faces of the concrete, as shown on the plans, shall be maintained.

G. PLACING AND TENSIONING STRANDS

Placing and tensioning strands shall be in accordance with PCI MNL-116. The location of all prestressing strands shall be as indicated on the plans.

H. TOLERANCES

Fabrication shall comply with tolerances specified on the plans. Tolerances for steel reinforcement placement shall be in accordance with 901.62. In the absence of specifications on the plans, tolerances shall comply with the latest version of the PCI MNL 135, Precast Tolerance Manual.

I. FORMS

Concrete shall be cast in rigidly constructed forms, which will maintain the Prestressed Concrete Beams within specified tolerances to the shapes, lines and dimensions shown on the approved fabrication drawings. Forms shall be constructed from flat, smooth, non-absorbent material and shall be sufficiently tight to prevent the leakage of the plastic concrete. When wood forms are used, all faces in contact with the concrete shall be laminated or coated with a non-absorbent material. All worn or damaged forms, which cause irregularities on the concrete surface or damage to the concrete during form removal, shall be repaired or replaced before being reused. Any defects or damage of more than “Category 2, Minor Defects” made to the concrete, due to form work, stripping or handling, shall be subject to repair or rejection, as defined in the *Repairs and Replacement* section. If threaded inserts are cast into the elements for support of formwork, the inserts shall be recessed a minimum of 1 inch and shall be plugged after use with a grout of the same color as that of the precast cement concrete.

J. MIXING OF CONCRETE

The concrete shall be proportioned and mixed in conformance with the Fabricator’s MassDOT approved mix design and M4.02.10 Mixing and Delivery. Fabrication shall not occur without prior MassDOT mix design approval. The Fabricator shall provide copies of batch tickets to the Inspector. The Inspector will verify if the batch ticket quantities are within the tolerances of the Fabricator’s MassDOT approved mix design.

K. PLACEMENT OF CONCRETE

Prior to the placement of concrete, the temperature of the forms shall be greater than or equal to 50°F. Quality Control inspection shall be performed by the Fabricator as specified in the *Fabricator Quality Control* section. Placement of the concrete shall not proceed until the MassDOT Plant Inspector is present to perform inspection and begin monitoring Fabricator Quality Control inspection activities and is in compliance with specifications. The Inspector shall inspect and accept the placement of the reinforcing steel and prestressing strands prior to the placement of concrete into the forms. The Fabricator shall verify all materials and equipment required for protecting and curing the concrete are readily available and meet the requirements of the *Final Curing Methods* section below. All items encased in the concrete shall be accurately placed in the position shown on the Plans and firmly held during the placing and setting of the concrete. Clearance from the forms shall be maintained by supports, spacers, or hangers and shall be of approved shape and dimension.

During placement, the concrete shall maintain a concrete temperature range between 50°F and 90°F. The Fabricator shall minimize the time to concrete placement (measured from start of mixing to completion of placement). In no event shall time to placement exceed 90 minutes. The Fabricator shall perform additional Quality Control sampling and testing on concrete that has been retempered with admixtures or hold-back water during the placement of the concrete as specified in the *Fabricator Quality Control* section above. Delays or shutdowns of over 30 minutes shall not be allowed during the continuous filling of individual forms.

L. CONSOLIDATION OF CONCRETE

Suitable means shall be used for placing concrete to prevent segregation or displacement of reinforcing steel or forms. The concrete shall be thoroughly consolidated by external or internal vibrators or a combination of both. Vibrators shall not be used to move concrete within the forms. Vibrators shall be used as specified in 901.63C and as directed by the Engineer. Concrete shall be placed and consolidated in a way that minimizes the presence of surface voids or bug holes on the formed surfaces. When used, self-consolidating concrete (SCC) shall meet the requirements of M4.02.17.

M. FINISHING OF CONCRETE

The top of the prestressed concrete beams shall be given a rake finish with a ¼” amplitude applied transversely across the beam to the limits shown on the plans.

N. EXPOSED SURFACES OF PRESTRESSED CONCRETE BEAMS

As soon as conditions permit, before the concrete has fully hardened, all dirt, laitance, and loose aggregate shall be removed from the exposed concrete surfaces. Contractor shall not allow foot traffic on the uncured concrete until it has reached sufficient strength to prevent damage.

O. EXPOSED SURFACES OF SHEAR KEYS AND CLOSURE POUR SHEAR KEYS

The closure pour shear key cast in the sides of the beam shall have an exposed aggregate finish. The closure pour reinforcing steel and its coating shall not be damaged by the process for creating the exposed aggregate surface. Fabricator may utilize a surface retarder with water blast, abrasive blast, or a combination of both to achieve the desired shear key finish. The abrasive blast shall use oil free compressed air. The profile of the shear key surfaces shall be similar to that of 60 grit sand paper.

P. INITIAL CURING METHODS

After the placement of concrete and prior to concrete finishing, the Fabricator shall initiate initial curing methods when the concrete surface begins to dry, to reduce moisture loss from the surface. Application of one or more of the following initial curing methods shall occur immediately after the bleed water sheen has disappeared.

1. FOGGING

Fogging nozzles shall atomize water into a fog-like mist. The fog spray shall be directed and remain visibly suspended above the concrete surface, to increase the humidity of the air and reduce the rate of

evaporation. Water from fogging shall not be worked into the surface during finishing operations and shall be removed or allowed to evaporate prior to finishing.

2. LIQUID-APPLIED EVAPORATION REDUCERS

Evaporation reducers shall be sprayed onto the freshly placed concrete surface to produce an effective monomolecular film that reduces the risk of plastic-shrinkage cracking and rate of evaporation of the bleed water from the concrete surface. Evaporation reducers shall be applied in accordance with manufacturer’s recommendations.

Q. INTERMEDIATE CURING METHODS

The Fabricator shall initiate intermediate curing methods if concrete finishing has taken place prior to the concrete reaching final set. The freshly finished concrete surface shall be protected from moisture loss, by the continuation of initial curing methods (fogging and evaporation reducers) until final curing methods are applied or by the use of liquid membrane-forming curing compounds (see *Liquid Membrane-Forming Compounds for Curing* section).

R. FINAL CURING METHODS

The Fabricator shall initiate and apply final curing methods to the concrete immediately after the following conditions are met:

- (a) Completion of concrete finishing
- (b) Final set of concrete
- (c) Concrete has hardened sufficiently enough to prevent surface damage

During fabrication of Prestressed Concrete Beams, the Fabricator shall maintain the required concrete temperature ranges throughout the entire duration of the final curing method cycle as specified herein. Controlled and gradual termination of the final curing method shall occur after all specified conditions are met. The concrete temperature shall be reduced at a rate not to exceed 36°F per hour until the concrete temperature is within 20°F of the ambient temperature outside of the final curing method enclosure. The Fabricator shall maintain a minimum concrete temperature of 40°F until 100% f’c is attained (see *Handling and Storage* section below).

1. WATER SPRAY CURING

All exposed concrete surfaces shall remain moist with a continuous fine spray of water throughout the entire duration of the final curing method cycle (see *Table 4: Final Curing Method Cycle for Water Spray*).

Table 4: Final Curing Method Cycle for Water Spray

Sustained Concrete Temperature	Final Curing Method Cycle Duration	Compressive Strength
50°F ≤ °F ≤ 90°F	≥ Five (5) days	≥ 80% f’c

2. SATURATED COVERS FOR CURING

All exposed concrete surfaces shall remain moist with a continuous application of saturated covers throughout the entire duration of the final curing method cycle (see *Table 5: Final Curing Method Cycle for Saturated Covers*). Saturated covers shall be allowed to dry thoroughly before removal to provide uniform, slow drying of the concrete surface.

Table 5: Final Curing Method Cycle for Saturated Covers

Sustained Concrete Temperature	Final Curing Method Cycle Duration	Compressive Strength
50°F ≤ °F ≤ 90°F	≥ Three (3) days	≥ 80% f _c

Saturated covers, such as burlap, cotton mats, and other coverings of absorbent materials shall meet the requirements of AASHTO M 182, Class 3. Saturated covers shall be in good condition, free from holes, tears, or other defects that would render it unsuitable for curing concrete. Saturated covers shall be dried to prevent mildew when storing. Prior to application, saturated covers shall be thoroughly rinsed in water and free of harmful substances that are deleterious or cause discoloration to the concrete. Saturated covers shall have sufficient thickness and proper positioning onto the concrete surface to maximize moisture retention.

Saturated covers shall contain a sufficient amount of moisture to prevent moisture loss from the surface of the concrete. Saturated covers shall be kept continuously moist so that a film of water remains on the concrete surface throughout the entire duration of the final curing method cycle. The Fabricator shall not permit the saturated covers to dry and absorb water from the concrete. Use of polyethylene film (see *Polyethylene Film* section) may be applied over the saturated cover to potentially decrease the need for continuous watering.

3. SHEET MATERIALS FOR CURING

All exposed concrete surfaces shall remain moist with a continuous application of curing sheet materials throughout the entire duration of the final curing method cycle (see *Table 6: Final Curing Method Cycle for Curing Sheet Materials*).

Table 6: Final Curing Method Cycle for Sheet Materials

Sustained Concrete Temperature	Final Curing Method Cycle Duration	Compressive Strength
50°F ≤ °F ≤ 90°F	≥ Three (3) days	≥ 80% f _c

Sheet Materials used for curing, such as polyethylene film, white burlap-polyethylene sheeting, and reinforced paper shall meet the requirements of ASTM C171 and the specifications herein. Sheet materials shall inhibit moisture loss and reduce temperature rise in concrete exposed to radiation from the sun during the final curing method cycle. Adjoining covers shall overlap not less than 12 inches. All edges of the covers shall be secured to maintain a moist environment.

(a) POLYETHYLENE FILM

Polyethylene film shall meet the requirements of ASTM C171, consist of a single sheet manufactured from polyethylene resins, be free of visible defects, and have a uniform appearance. Careful considerations shall be taken by the Fabricator to prevent the film from tearing during storage and application, so as to not disrupt the continuity of the film (polyethylene film reinforced with glass or other fibers is more durable and less likely to be torn). The Fabricator shall monitor the application of the film to prevent uneven spots from appearing (mottling) on the concrete surface, due to variations in temperature, moisture content, or both. The Fabricator shall prevent mottling from occurring on the concrete surface by applying additional water under the film or applying a combination of polyethylene

film bonded to absorbent fabric to the concrete surface to retain and evenly distribute the moisture.

lm to prevent uneven spots from appearing (mottling) on the concrete surface, due to variations in temperature, moisture content, or both. The Fabricator shall prevent mottling from occurring on the concrete surface by applying additional water under the film or applying a combination of polyethylene film bonded to absorbent fabric to the concrete surface to retain and evenly distribute the moisture.

m to prevent uneven spots from appearing (mottling) on the concrete surface, due to variations in temperature, moisture content, or both. The Fabricator shall prevent mottling from occurring on the concrete surface by applying additional water under the film or applying a combination of polyethylene film bonded to absorbent fabric to the concrete surface to retain and evenly distribute the moisture. Immediately following final finishing, polyethylene film shall be placed over the surface of the fresh concrete surface, so as to not damage the surface of the concrete and shall be placed and weighted so that it remains in contact with the concrete throughout the entire duration of the final curing method cycle.

The film shall extend beyond the edges of the concrete surface. The film shall be placed flat on the concrete surface, avoiding wrinkles, to minimize mottling. Edges of adjacent polyethylene film shall overlap a minimum of 6 inches and be tightly sealed with the use of sand, wood planks, pressure-sensitive tape, mastic, or glue to maintain close contact with the concrete surface, retain moisture, and prevent the formation of air pockets throughout the entire duration of the final curing method cycle.

(b) WHITE BURLAP-POLYETHYLENE SHEETING

White burlap-polyethylene sheeting shall meet the requirements of ASTM C171, be securely bonded to the burlap so to avoid separation of the materials during handling and curing of the concrete, and be applied in the same manner as the polyethylene film.

(c) REINFORCED IMPERVIOUS PAPER

Reinforced impervious paper shall meet the requirements of ASTM C171, consist of two sheets of kraft paper cemented together with a bituminous adhesive and reinforced with embedded cords or strands of fiber running in both directions, and be white in color. Reinforced impervious paper shall be treated to prevent tearing when wetted and dried.

Reinforced impervious paper can be reused so long as it is effective in retaining moisture on the concrete surface. The Fabricator shall visually inspect the reinforced impervious paper for all holes, tears, and pin holes from deterioration of the paper through repeated use by holding the paper up to the light. The paper shall be discarded and prohibited from use when the moisture is no longer retained.

After the concrete has hardened sufficiently to prevent surface damage, the concrete surface shall be thoroughly wetted prior to the application of the reinforced impervious paper, and be applied in the same manner as the polyethylene film.

4. LIQUID MEMBRANE-FORMING COMPOUNDS FOR CURING

All exposed concrete surfaces shall remain moist with a continuous application of liquid membrane-forming compounds throughout the entire duration of the final curing method cycle (see *Table 7: Final Curing Method Cycle for Liquid Membrane-Forming Compounds*).

Table 7: Final Curing Method Cycle for Liquid Membrane-Forming Compounds

Sustained Concrete Temperature	Final Curing Method Cycle Duration	Compressive Strength
50°F ≤ °F ≤ 90°F	≥ Seven (7) days	≥ 80% f _c

Liquid membrane-forming compounds shall meet the requirements of ASTM C 1315, Type I, Class A and shall exhibit specific properties, such as alkali resistance, acid resistance, adhesion-promoting quality, and resistance to degradation by ultraviolet light, in addition to moisture-retention capabilities. Liquid membrane-forming compounds shall consist of waxes, resins, chlorinated rubber, or other materials to reduce evaporation of moisture from concrete. Liquid membrane-forming compounds shall be applied in accordance with the manufacturer's recommendations.

Liquid membrane-forming compounds shall be applied immediately after the disappearance of the surface water sheen following final finishing. All exposed surfaces shall be wetted immediately after form removal and kept moist to prevent absorption of the compound, allowing the curing membrane to remain on the concrete surface for proper membrane moisture retention. The concrete shall reach a uniformly damp appearance with no free water on the surface prior to the application of the compound.

If patching or finishing repairs are to be performed prior to the application of the compound, the Precast Concrete Bridge Element shall be covered temporarily with saturated covers until the repairs are completed and the compound is applied. Only areas being repaired shall be uncovered during this period. While the saturated covers are removed to facilitate the patching process, the work shall continue uninterrupted. If for any reason the work is interrupted, saturated covers shall be placed onto the uncovered concrete surface, until the work continues and is completed, at which time the curing compound shall be applied to the repaired area.

Careful considerations shall be made by the Fabricator to determine if the evaporation rate is exceeding the rate of bleeding, thus causing the surface to appear dry even though bleeding is still occurring. Under such conditions, the application of liquid membrane-forming compounds to the concrete surface shall be delayed, in order to prevent bleed water from being sealed below the concrete surface and avert map cracking of the membrane films, reduction in moisture-retention capability, and reapplication of the compound. To diagnose and prevent this condition, the Fabricator shall place a transparent plastic sheet over a test area of the uncured and unfinished concrete surface and shall determine if any bleed water accumulates under the plastic.

The compound shall be applied in two applications at right angles to each other to ensure uniform and more complete coverage. On very deeply textured surfaces, the surface area to be treated shall be at least twice the surface area of a troweled or floated surface. In such cases, two separate applications may be needed, each at 200 ft²/gal., with the first being allowed to become tacky before the second is applied.

The curing compound shall be applied by power sprayer, using appropriate wands and nozzles with pressures between 25 and 100 psi. For very small areas such as repairs, the compound shall be applied with a wide, soft-bristled brush or paint roller. The compound shall be stirred or agitated before use and applied uniformly in accordance with the manufacturer's recommended rate. The Fabricator shall verify the application rates are in accordance with the manufacturer's recommended rate.

When the concrete surface is to receive paint, finishes, or toppings that require positive bond to the concrete, it is critical that the curing procedures and subsequent coatings, finishes, or toppings be compatible to achieve the necessary bond.

After the termination of the final curing method cycle has occurred, liquid membrane-forming compounds shall be removed by blast-cleaning from any concrete surface that is to receive paint, finishes, plastic concrete from secondary pour, grout, or any other toppings that require bonding to the concrete surface. These surfaces shall be further blast-cleaned to remove the cement matrix down to exposed aggregate to ensure proper bonding to the material. The method used to remove the curing compound shall not damage the reinforcement and coating. Compounds are prohibited on any concrete surface that will have a penetrating or coating type treatment such as a sealer, stain, or waterproofing membrane applied to it.

5. ACCELERATED CURING

Accelerated curing shall use live steam or radiant heat with moisture in accordance with PCI MNL-116 as modified herein. The concrete temperature shall meet the maximum heat increase and cool down rates as specified herein. Concrete temperature monitoring shall meet the requirements of the *Temperature Monitoring* section. Excessive and fluctuating rates of heating and cooling shall be prohibited. The concrete temperature shall not exceed 158°F at any time. The Fabricator shall meet the following accelerated curing sequencing and requirements.

(a) INITIAL DELAY PERIOD

The initial delay period shall be defined as the duration immediately following the placement of the concrete and the attainment of initial set of the concrete. The Fabricator shall determine the time of initial set in accordance with AASHTO T 197 specifications. Throughout the entire duration of the initial delay period, initial curing shall be implemented. The temperature increase period (see *Temperature Increase Period* section) shall not occur until initial set of the concrete is attained. During the initial delay period, the concrete temperature shall meet the following requirements:

- i. Concrete temperature rate of increase shall not exceed 10°F per hour.
- ii. Total concrete temperature increase shall not exceed 40°F higher than the placement concrete temperature or 100°F, whichever is less

(b) TEMPERATURE INCREASE PERIOD

The temperature increase period shall be defined as the duration immediately following the completion of the initial delay period (after initial set) and immediately prior to the start of the constant maximum temperature period. Application of steam to the enclosure shall not occur until the initial delay period is complete. After the initial delay period is complete, all exposed concrete surfaces shall be cured in a moist environment where the concrete temperature increases at a rate not to exceed 36°F per hour.

(c) CONSTANT MAXIMUM TEMPERATURE PERIOD

The constant maximum temperature period shall be defined as the duration immediately following the completion of the temperature increase period and immediately prior to the start of the temperature decrease period. After the temperature increase period is complete, all exposed concrete surfaces shall be cured in a moist environment at a controlled and constant elevated temperature throughout the entire duration of the constant maximum temperature period. Termination of the constant maximum temperature period and the start of the termination decrease period shall occur after all specified conditions are met (see *Table 8: Constant Maximum Temperature Period*).

Table 8: Constant Maximum Temperature Period

Sustained Concrete Temperature	Constant Maximum Temperature Period	Compressive Strength
120°F ≤ °F ≤ 158°F	6 hrs ≤ Time ≤ 48 hrs	≥ 80% f _c

(d) TEMPERATURE DECREASE PERIOD

After the constant maximum temperature period is complete, the concrete temperature shall be cured in a moist environment at a controlled and reduced rate not to exceed 36°F per hour until the concrete temperature is within 20°F of the ambient temperature outside of the curing enclosure.

S. RELEASE

The Fabricator shall not release strands or handle the Prestressed Concrete Beam until Quality Control compressive strength cylinders attain a minimum compressive strength of 80% Design Strength (f'_c) or the specified detensioning compression strength as indicated on the approved shop drawings has been achieved. All exposed concrete surfaces shall continue to be cured in conformance with the *Final Curing Methods* sections until completion.

T. HANDLING AND STORAGE OF PRESTRESSED CONCRETE BEAMS

Prestressed Concrete Beams may be exposed to temperatures below freezing (32°F) when the chosen curing cycle has been completed, provided that the following conditions are met:

- (a) Prestressed Concrete Beams are protected from precipitation with polyethylene curing covers until 100% f'_c is attained
- (b) Prestressed Concrete Beams maintain a minimum concrete temperature of 40°F until 100% f'_c is attained

Prestressed Concrete Beams damaged during handling and storage will be repaired or replaced at the Inspectors direction at no cost to the Town. Prestressed Concrete Beams shall be lifted at the designated points by approved lifting devices embedded in the concrete and in accordance with proper lifting and handling procedures. Storage areas shall be smooth and well compacted to prevent damage due to differential settlement. Prestressed Concrete Beams shall be supported on the ground by means of continuous blocking, in accordance with the approved dunnage plan.

Prestressed Concrete Beams shall be loaded on a trailer with blocking as described above, in accordance with the approved dunnage plan. Shock-absorbing cushioning material shall be used at all bearing points during transportation of the Prestressed Concrete Beams. Blocking shall be provided at all locations of tie-down straps. Prestressed Concrete Beams stored prior to shipment shall be inspected by the Contractor prior to being delivered to the site to identify damage that would be cause for repair or rejection.

U. REPAIRS AND REPLACEMENT

In the event defects are identified, they shall be classified in the following categories and a non-conformance report (NCR) shall be filed if required. The NCR shall be submitted to the Engineer for review. Defects in all categories shall be documented by plant Quality Control personnel and made available to the Engineer upon request. Any required repairs shall utilize materials listed on the MassDOT QCML.

Where noted, defects shall be repaired according to the PCI Northeast Region Guidelines for Resolution of Non-Conformances in Prestressed Concrete Beams, Report Number PCINE-18-RNPCBE. Please note that reference to PCINE-18-RNPCBE is made for repair details only. In the case of conflicts with this Special Provision, this Special Provision shall govern.

1. CATEGORY 1, SURFACE DEFECTS

Category 1 defects do not need to be repaired, and an NCR does not need to be filed. Surface defects are defined as the following:

- (a) Surface voids or bug holes that are less than 5/8-inch in diameter and less than 1/4-inch deep, except when classified as Category 4
- (b) Cracks less than or equal to 0.006 inches wide
- (c) Cracks less than or equal to 0.125 inches wide on surfaces that will receive a concrete overlay or spray-applied membrane waterproofing

2. CATEGORY 2, MINOR DEFECTS

Category 2 defects shall be repaired, but an NCR does not need to be filed. Minor defects are defined as the following:

- (a) Spalls, honeycombing, surface voids that are less than 2 inches deep and have no dimension greater than 12 inches
- (b) Cracks less than or equal to 0.016 inches that will not receive a concrete overlay or spray-applied membrane waterproofing
- (c) Broken or spalled corners that will be covered by field-cast concrete

Minor defects shall be repaired according to PCINE-18-RNPCBE. Cracks shall be sealed according to the PCI Repair Procedure #14 in PCINE-18-RNPCBE.

3. CATEGORY 3, MAJOR DEFECTS

For Category 3 defects, the Fabricator shall prepare an NCR that documents the defect and describes the proposed repair procedure. The NCR shall be submitted to the Engineer for approval prior to performing the repair. Major defects are defined as the following:

- (a) Spalls, honeycombing and surface voids that are deeper than 2 inches or have any dimension greater than 12 inches, when measured along a straight line
- (b) Concentrated area of defects consisting of four or more Category 2 Defects within a 4-square foot area
- (c) Exposed reinforcing steel
- (d) Cracks greater than 0.016 inches and less than or equal to 0.060 inches in width that will not receive a concrete overlay or spray-applied membrane waterproofing
- (e) Bearing area spalls with dimensions not exceeding 3 inches
- (f) Cracks, spalls and honeycombing that will be encased in cast in place concrete need not be repaired, but the limits and location of the defects shall be documented with an NCR

Upon the Engineer's approval, defects and cracks shall be repaired according to PCINE-18-RNPCBE and this specification. All repairs shall be completed at the expense of the Contractor.

4. CATEGORY 4, REJECTABLE DEFECTS

Rejectable defects as determined by the Inspector or Engineer may be cause for rejection. Fabricator may submit an NCR with a proposed repair procedure, requesting approval. Some rejectable defects are defined as the following:

- (a) Surface defects on more than 5% of the surface area which will be exposed to view after installation
- (b) Minor defects that in total make up more than 5% of the surface area of the unit
- (c) Cracks greater than 0.060 inches in width except as noted in Category 1
- (d) Elements fabricated outside of the specified tolerances
- (e) Inspector compressive strength testing that does not meet the specified Design Strength, f'_c .

V. LOADING

Prior to the Fabricator loading the Precast Bridge Element on to the truck for shipping, the Fabricator shall provide the Inspector a minimum seven (7) days' notice of the Fabricator's intent to load the Precast Bridge Element. Inspection by the Inspector shall take place while the element is still on dunnage in the yard. The element shall not be loaded onto the truck until the Inspector has performed the inspection.

W. SHIPPING

Prior to shipment, the Fabricator shall perform the following actions and provide the required documentation to the Inspector:

- (a) Prestressed Concrete Beams shall remain at the Fabricator's plant for a minimum of 7 days after cast date.
- (b) QC Inspection Reports shall be signed by the Quality Control Manager and provided to the Inspector.
- (c) QC Compressive Strength Test Report Forms attaining Design Strength, f'_c for the Prestressed Concrete Beam's representative subplot shall be generated by the Fabricator and provided to the Inspector.
- (d) Certificate of Compliance shall be generated by the Fabricator as described under the Fabricator Quality Control section and provided to the Inspector.
- (e) All Engineer approved Corrective Actions submitted on the Non-Conformance Reports (NCR), shall be verified to have been completed by the Inspector and Quality Control Manager.
- (f) All NCRs shall be signed off by the Quality Control Manager, Inspector and Engineer.

X. DELIVERY

Upon Delivery, the following documentation shall be provided to the Engineer or designee:

- (a) QC Compressive Strength Test Report Forms attaining Design Strength, f'_c for the Prestressed Concrete Beam's representative subplot.
- (b) Certificate of Compliance generated by the Fabricator as described under the Fabricator Quality Control section.
- (c) QC Inspection Reports signed by the Quality Control Manager.

The Contractor shall inspect the Prestressed Concrete Beams upon receipt at the site. Prestressed Concrete Beams damaged during delivery shall be repaired or replaced at the Engineer's direction at no cost to the Town.

CONSTRUCTION METHODS – FIELD CONSTRUCTION

A. GENERAL

All of the Contractor's field personnel involved in the erection and assembly of the Prestressed Concrete Beams shall have knowledge of and follow the approved Erection Procedure and Quality Control Plan for Prestressed Concrete Beam Assembly.

Prior to installation, the following documentation shall be reviewed and confirmed by the Engineer or designee:

- (a) QC Compressive Strength Test Report Forms attaining Design Strength, f'_c for the Prestressed Concrete Beam's representative subplot.
- (b) Certificate of Compliance generated by the Fabricator as described under the Fabricator Quality Control section.
- (c) QC Inspection Reports signed by the Quality Control Manager.

Field construction staff shall verify that the Engineer has accepted all Prestressed Concrete Beams prior to installation.

B. ERECTION PROCEDURE AND QUALITY CONTROL PLAN FOR PRESTRESSED CONCRETE BEAM ASSEMBLY

Prior to the erection, the Contractor shall submit an Erection Procedure and a Quality Control Plan for Prestressed Concrete Beam Assembly for approval by the Engineer. This submittal shall include computations and drawings for the transport, hoisting, erection and handling of the Prestressed Concrete Beams. The Erection Procedure and Quality Control Plan for Prestressed Concrete Beam Assembly shall be prepared and stamped by a Professional Engineer registered in the Commonwealth of Massachusetts with working knowledge of the Contractor's equipment, approved shop drawings, and materials to build

the bridge. The Erection Procedure and Quality Control Plan for Prestressed Concrete Beam Assembly shall, at a minimum, include the following:

1. ERECTION PROCEDURE

The Erection Procedure shall be prepared to conform to the requirements of 960.61, Erection and the applicable sections in Chapter 8 of the PCI Design Handbook (seventh edition) for handling, erection, and bracing requirements. At a minimum, the Erection Procedure shall provide:

Steel reinforcing details, and location and details of lifting devices

- (a) Minimum concrete compressive strength for handling the Prestressed Concrete Beams.
- (b) Concrete stresses during handling, transport, and erection.
- (c) Crane capacities, pick radii, sling geometry, and lifting hardware.
- (d) Verification that the equipment can handle all pick loads and weights with the required factor of safety.
- (e) Evaluation of construction sequence and evaluation of any geometric conflicts in the lifting of the Prestressed Concrete Beams and setting them on the abutments and piers.
- (f) Design of crane supports including verification of subgrade for support.
- (g) Location and design of all temporary bracing that will be required during erection.

2. QUALITY CONTROL PLAN FOR PRESTRESSED CONCRETE BEAM ASSEMBLY

The Quality Control Plan for Prestressed Concrete Beam Assembly is a document prepared and submitted by the Contractor prior to the start of work which requires the Contractor to identify and detail the sequence of construction in accordance with the project schedule and which clearly identifies all stages of field construction. The assembly procedures for the Prestressed Concrete Beams shall be submitted electronically.

At a minimum, the Quality Control Plan for Prestressed Concrete Beam Assembly shall include the following:

- (a) Listing of the equipment, materials, and personnel including their assigned responsibilities that will be used to erect and assemble the Prestressed Concrete Beams on site.
- (b) Documentation of all preparatory work necessary for moving personnel, equipment, supplies, and incidentals to the project site before beginning work.
- (c) Detailed schedule showing the sequence of operations that the Contractor will follow to complete the field construction from setting working points and working lines to the casting of closure pours and the curing of the closure pour concrete, as described below and as called for on the plans.
- (d) For NEDBT and NEXT D beams, Contractor's means for ensuring that the Prestressed Concrete Beam shall align to the roadway profile and cross slope and means for adjusting the final deck slab elevation.
- (e) Timeline and descriptions of Quality Control activities to be followed throughout the field construction operations including methods and procedures for controlling tolerance limits both horizontally and vertically.

C. SURVEY AND LAYOUT

Working points, working lines, and benchmark elevations shall be established prior to placement of all elements. The Contractor is responsible for field survey as necessary to complete the work.

D. PRESTRESSED CONCRETE SOLID DECK BEAMS

1. BEAM LAYOUT AND ERECTION

Prestressed concrete beams shall be installed to the line and grade shown on the plans in accordance with the Contractor's approved Erection Procedure and Assembly Plan. The location of the beams on the

abutments and piers shall be laid out according to the nominal width of the beams as shown on the plans. Each beam shall be erected such that after erection, the beam shall lie entirely within the horizontal lines defined by its nominal width for its entire length and shall not infringe on the space allocated for any adjacent beam. The Contractor may adjust the width of the closure pour between beams.

Immediately prior to erecting the beams, the closure pour surfaces shall be cleaned at the job site of all dust, dirt, and carbonation using a high-pressure water blast.

After all beams are erected, the actual overall width of the beams as laid out shall not deviate from the nominal dimension shown on the framing plan beyond a tolerance of +0 inches and -1 inches.

After the beam layout has been accepted by the Engineer, the Contractor shall cut the lifting devices off below the top of the beam.

SAWING & SEALING JOINTS IN ASPHALT PAVEMENT AT BRIDGES

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

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

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

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

Once the groove is clean and dry, the Contractor shall fill it completely with a hot-applied bituminous crack sealer meeting the requirements of M3.05.4 of the Standard Specifications and 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.

METAL BRIDGE THRIE BEAM RAILING

The work to be performed under this heading shall consist of the fabrication and installation of a Thrie Beam Bridge Rail system. This item shall be fabricated by a MassDOT Approved Fabricator of Bridge Components (CPT). Work shall conform to the relevant provisions of Section 975, Metal Bridge Railings and Protective Screen, of the Standard Specifications and the following.

Thrie beam panels shall be double nested (2 layers) 12-gauge panels or 1 layer of 10-gauge panels and shall conform to AASHTO M 180 Class B. The posts, base plates, and thrie beam rail panels shall be galvanized after fabrication in accordance with AASHTO M111.

SCHEDULE OF BASIS FOR PARTIAL PAYMENT

At the time of bid, the Contractor shall submit on his/her proposal form a schedule of unit prices for the major component Sub-Items that make up Item 995.1 as well as his/her total bridge structure Lump Sum cost for Bridge Structure No. C-21-005. The bridge structure Lump Sum breakdown quantities provided in the proposal form are estimated and not guaranteed. The total of all partial payments to the Contractor shall equal the Lump Sum contract price regardless of the accuracy of the quantities furnished by the Engineer for the individual bridge components. The cost of labor and materials for any Item not listed but required to complete the work shall be considered incidental to Item 995.1 and no further compensation will be allowed.

The schedule on the proposal form applies only to Bridge Structure No. C-21-005. Payment for similar materials and construction at locations other than at this bridge structure shall not be included under this Item. Sub-Item numbering is presented for information only in coordination with MassDOT Standard Nomenclature.

995.01 BRIDGE NO. C-21-005

Sub-Item	Description	QTY.	UNIT
482.31	SAWING & SEALING JOINTS IN ASPHALT PAVEMENT AT BRIDGES	62	FT
904.3	5000 PSI, 3/4 INCH, 685 HP CEMENT CONCRETE	14	CY
908.11	PRESTRESSED CONCRETE SOLID DECK BEAM – SHOP APPLIED SEALER	30	SY
910.1	STEEL REINFORCEMENT FOR STRUCTURES - EPOXY COATED	1091	LB
930.305	PRESTRESSED CONCRETE SOLID DECK BEAMS (SDB48-15)	174	FT
965.2	MEMBRANE WATERPROOFING FOR BRIDGE DECKS - SPRAY APPLIED	823	SF
975.7	METAL BRIDGE THRIE BEAM RAILING	63	FT

ITEM 996.4

GEOSYNTHETIC REINFORCED SOIL-INTEGRATED BRIDGE SYSTEM LUMP SUM

DESCRIPTION: The work under this item shall consist of all work associated with furnishing materials and constructing the geosynthetic reinforced soil-integrated bridge system (GRS-IBS) substructure to the lines and grades shown on the contract drawings and the approved shop drawings. All work shall be performed in accordance with the Design and Construction Guidelines for Geosynthetic Reinforced Soil Abutments and Integrated Bridge Systems, Publication No. FHWA-HRT-17-080, June 2018, the Standard Specifications, and this special provision.

No operation is to be started unless all materials and services needed for the work will be delivered in such an order that there will be no interruption to the continuous and efficient progress in the completion of the project.

Bidders are also encouraged to watch an FHWA-produced video of the construction process. It can be seen at: http://www.youtube.com/watch?v=w_5WFoAdoUw

It should be noted that the above video illustrates general construction practice and that many of the materials used in the video will be different that the ones specified herein.

Abbreviations:

GRS	Geosynthetic Reinforced Soil
GRS-IBS	Geosynthetic Reinforced Soil – Integrated Bridge System
RSF	Reinforced Soil Foundation
QC	Quality Control

Backfill Definitions:

RSF Backfill	Backfill to be used within the limits of the RSF
GRS Backfill	Backfill to be used within the main GRS mass from the top of RSF to the bottom of the Integrated Approach
Integrated Approach Backfill	Backfill to be used within the limits of the Integrated Approach

SUBMITTALS:

1. **Schedule of Operations:** Before starting any work under this Contract, submit a schedule of operations. Work shall be coordinated with all other work required to complete this project. All GRS walls shall be built in accordance with the Plans and approved Shop Drawings for the proposed wall systems. All Shop Drawings shall be in accordance with Standard Specifications Section 5.02.
2. **Shop Drawings:** Contractor shall submit shop drawings for the GRS-IBS substructure. The drawings shall be prepared and submitted in accordance with Section 5.02 of the Standard Specifications and shall include:
 - a. Full plan views of each GRS abutment and wingwall drawn to scale. The plan view must illustrate the reinforcement lengths the Contractor plans on using for each lift height in accordance with the minimum lengths provided.
 - b. Full elevation view of the GRS abutment and wingwall faces drawn to scale. Elevation views shall indicate the elevation at the top and bottom of the GRS abutments and wingwalls.
 - c. Typical cross sections drawn to scale including all appurtenances.
 - d. Material designations for all materials to be used.

3. Backfill Materials: Contractor shall submit the following regarding the backfill material:
 - a. Materials Source: Submit name and address of imported materials source.
 - b. Density/optimum moisture content of the Integrated Approach Backfill material prior to placement of material.
4. Geosynthetics: Contractor shall submit the following regarding the geosynthetic reinforcement:
 - a. Storage Plan, indicating method of storage as recommended by the manufacturer.
 - b. Product Data, indicating product standards, physical and chemical characteristics, technical specifications, limitations, maintenance instructions, and general recommendations regarding each material proposed for use as geosynthetic reinforcement.
 - c. A current AASHTO National Transportation Product Evaluation Program (NTPEP) evaluation report for the geosynthetic to be used (NTPEP GTX for geotextiles).
 - d. Mill Certificates and Certificates of Compliance: Provide mill certificate and certificate of compliance signed by a legally authorized official from the company manufacturing the geosynthetic. The mill certificate and certificate of compliance shall attest that the geosynthetic meets the chemical, physical, and manufacturing requirements of this Specification. A mill certificate shall be submitted for each lot of geosynthetic delivered to the Project site.
5. Modular Block Facing: Contractor shall submit the following regarding the modular block facing:
 - a. Product data, indicating product standards, physical and chemical characteristics, technical specifications, limitations, maintenance instructions, and general recommendations regarding the precast modular block proposed for use.
 - b. Certificate of Compliance signed by a legally authorized official from the company manufacturing the precast modular blocks. The certificate of compliance shall attest that the precast modular block meets the chemical, physical, and manufacturing requirements of this Specification. A certificate shall be submitted for each lot of precast modular block delivered to the Project Site.

MATERIALS:

Materials shall meet the requirements specified below and relevant Subsections of Division III, Materials Specifications of the Standard Specifications.

1. Geosynthetic Reinforcement: Geosynthetic reinforcement for the abutments and wingwalls shall be listed on the MassDOT qualified construction materials list and shall consist of a woven geotextile manufactured from polypropylene, high-density polyethylene, or polyester and shall be inert to biological degradation and resistant to naturally encountered chemicals, alkalis, and acids.

The geosynthetic shall have a minimum average roll value (MARV) of 4,800 lb/ft ultimate tensile strength and a MARV of 1,200 lb/ft at 2% strain. The above MARV values shall be confirmed and documented through laboratory test results in accordance with ASTM D4595. Tests should be conducted at a strain rate of 10 percent/min.

2. GRS and RSF Backfill: All backfill material used within the limits of the abutment and wingwall GRS and RSF shall be an open-graded material consisting of clean, crushed angular (not rounded) stone, free from organic or otherwise deleterious materials that meets the requirements of the Standard Specifications Table M2.01.0-1, Type M2.01.4 crushed stone.

3. Integrated Approach Backfill: All backfill material used within the limits of the integrated approach shall be a well-graded material produced from natural gravels or crushed rock and shall be free from organic or otherwise deleterious materials that meets the requirements of the Standard Specifications Table M2.01.7-1, Gradation requirements for Dense Graded Crushed Stone for Sub-base.
4. Modular Block Facing: The prefabricated modular (PM) wall units shall conform to the following:
 - A. The PM concrete wall units shall meet ASTM C1372 requirements.
 - B. The PM concrete wall units shall be manufactured to a minimum 28-day compressive strength of 4000 psi and a maximum water absorption of 7 lb/ft³.
 - C. The PM concrete wall units shall meet the following requirements for freeze-thaw durability:
 1. Less than 1% weight loss after 40 cycles for 5 of 5 specimens or less than 1.5% weight loss after 50 cycles for 4 of 5 specimens tested using ASTM C1262 in 3% saline solution.
 - D. Blocks used for absorption testing shall not subsequently be used for freeze-thaw testing.
 - E. The PM concrete wall units shall be randomly sampled and tested in accordance with ASTM C140 Annex A3. Contractor QC testing shall be conducted as described herein under “Contractor Quality Control”.
 - F. PM concrete wall units shall conform to the following architectural requirements:
 1. Face color shall be standard grey.
 2. Face finish of individual units shall be straight with split rock finish.
 3. Blocks shall be laid in a running bond pattern, with bonds nominally located at midpoint from vertically adjacent blocks.
 4. Exposed surfaces shall be free of chips, cracks, or other visible imperfections as determined by the Engineer.
 - G. The PM concrete wall units shall have a height of 8 to 16 inches and a depth between 8 to 16 inches. The blocks shall be constructed with a maximum set back of 3/8” per vertical foot.
 - H. The units will be accepted on the job site; however, the quality of materials, process of manufacture, and finished units shall be subject to inspection by the Engineer prior to shipment. Precast units may be subject to rejection on account of failure to conform to these specifications. Individual units will be rejected because of any of the following:
 1. Lack of a manufacturer’s certificate.
 2. Variations in the exposed face that substantially deviate from the approved architectural model unit as to color, texture, and reveals in accordance with precast concrete industry standards.
 3. Dimensions not conforming to the following tolerances:
 - a. Position of modular wall unit connection devices within 1 inch, except for coils and loop imbeds, which shall be 3/16-inch. All other dimensions within 3/16-inch.
 - b. Squareness of face of modular wall units, as determined by the difference between the two diagonals, shall not exceed 3/8-inch for precast units up to 10-foot wide and 1/2-inch for larger units.

- c. Surface defects on smooth-formed surfaces measured over a length of 10-feet shall not exceed ¼-inch. Surface defects on textured-finished surfaces measured over a length of 10-feet shall not exceed ½-inch.
 - d. Length or height of modular wall units shall not exceed +/- 1/8-inch.
 - 4. Defects indicating honeycombed or open texture.
 - 5. Defects that would affect the structural integrity of the unit, including cracked or severely chipped blocks.
 - 6. Color variations on front faces of the blocks which, in the opinion of the Engineer, would detract from the overall appearance of the wall.
- C. The date of manufacture, production lot number, and the piece mark shall be clearly scribed on an unexposed face of each PM wall unit.
- D. The precast units shall be fully supported until the concrete reaches a minimum compressive strength of 3,000 psi or as specified by the designer. The units may be shipped and installed after the concrete reaches a minimum compressive strength of 4,000 psi.
- E. On site, the PM concrete wall units should always be stored off the ground and protected with water-repellent tarps or plastic covers to protect from the weather and from staining or discoloration during construction. (All precast units shall be handled, stored, and shipped in such a manner as to eliminate the dangers of chipping, discoloration, cracks, fractures, and excessive bending stresses. PM units in storage shall be supported in firm blocking to protect the panel connection devices and the exposed exterior finish.)
- 5. Miscellaneous Materials:
 - a. Offset Block: Block shall be 8" x 16" solid concrete block.
 - b. Foam Board: Foam board shall be expanded polystyrene meeting the requirements of Standard Specifications M9.11.3.

CONSTRUCTION REQUIREMENTS:

All construction shall be in accordance with the approved Shop Drawings, these specifications, and where provided the manufacturer's recommendations and instructions. Where conflicts exist, the most stringent requirement shall govern as determined by the Engineer.

- 1. Labor and Equipment. Chapter 7.2 of Publication No. FHWA-HRT-17-080 provides information regarding typical labor, tools, and equipment that has been used to construct GRS-IBS in the past. However, it is the responsibility of the Contractor to choose the construction method, labor, and equipment that is most efficient for this project.
- 2. RSF. The base of the RSF shall be cut smooth and excavated to uniform depth, and all loose, unstable material should be removed from the limits of the excavation. The base of the RSF shall be graded level over its entire area and shall be compacted prior to construction of the RSF. This may require proof rolling, and any soft spots or voids shall be backfilled with compacted fill material. Once compacted, the excavation shall be backfilled as soon as possible to avoid adverse weather delays. If this cannot be achieved, the excavation shall be graded to one end to facilitate the removal of any water. If excavation is flooded, all water shall be removed along with any soft saturated soils.

The RSF shall be encapsulated in geotextile reinforcement placed perpendicular to the wall face. The geotextile sheets shall be measured and sized to fully enclose the RSF on three sides (excluding the side

facing the cut slope). Where more than one sheet of textile is needed to encapsulate the RSF, the geotextile shall be overlapped a minimum of 3 feet on the top of the preceding layer and all overlapped sections shall be oriented to prevent running water or surface runoff from penetrating the layers of reinforcement. The wrapped corners of the RSF need to be tight and without exposed soil within the RSF to complete the encapsulation.

3. Placement of Backfill and Compaction. Proper placement and compaction of the backfill is critical to the overall performance of the GRS system. Placement and compaction of all backfill material shall occur in maximum 8" lifts. Placement and compaction of the backfill of each GRS-IBS component shall be performed in accordance with the following:
 - a. In-Place Compaction Test for Open-Graded Backfill. For the RSF and GRS backfill material, an in-place compaction test shall be performed to determine the number of passes required by a specific piece of equipment to achieve a specific compacted lift thickness. Adequate compaction shall be defined as no visible evidence of further consolidation. The compaction equipment shall consist of a vibratory compactor or other similar equipment as approved by the Engineer. The compaction test shall consist of placing and compacting the first layer of backfill for each RSF and GRS component in place. The compaction equipment and the number of passes required to achieve adequate compaction will be recorded. The number of passes required during the in-place test shall then be used for all subsequent lifts. All compaction equipment anticipated to be used to construct the GRS-IBS structure shall be tested and the number of passes required shall be recorded for each equipment type. No compaction equipment shall be used to construct the GRS-IBS structure until an in-place test has been performed to determine the number of passes required.
 - b. RSF. The RSF shall be constructed using compacted lifts of 8 inches. The fill material shall be graded, leveled, and compacted before encapsulating the RSF. Begin compaction of backfill material at the front, proceeding backward toward the end of the RSF to completely compact the backfill layer.
 - c. GRS. The GRS mass shall be constructed using compacted lifts of approximately 8 inches, equal to the geosynthetic reinforcement spacing. The GRS backfill shall closely follow the construction of each course of the modular block wall facing. Backfill shall be placed in such a manner as to avoid any damage or disturbance of the modular block or misalignment of the modular block units. Any facing units which become damaged during backfill placement shall be removed and replaced at the Contractor's expense. Any misalignment or distortion of the modular block facing units due to placement of backfill shall be corrected.

Prior to placing each backfill layer, smooth all wrinkles and loose areas from the geosynthetic reinforcement. Place backfill beginning at the facing, moving backward to prevent formation of wrinkles in the reinforcement. Begin compaction of backfill material immediately behind the facing units, proceeding backward toward the end of the wall to completely compact the backfill layer. Only hand operated compaction equipment shall be permitted within 3 feet of the modular block face. Outside of 3 feet, larger vibratory compactors can be used. Outward modular block movement shall be monitored during all compaction activities.

- d. Integrated Approach. The integrated approach shall be constructed using compacted lifts of approximately 7 inches at the face of the precast concrete Solid Deck Beams. The lifts will vary with the roadway profile. Prior to placing each Integrated Approach backfill layer, smooth all wrinkles and loose areas from the geosynthetic reinforcement. The

Integrated Approach Backfill shall be placed and compacted in accordance with the relevant provisions of Subsection 150 of the Standard Specifications. Place backfill beginning at the back face of the precast concrete solid deck beams, moving backward to prevent formation of wrinkles in the reinforcement. Begin compaction of backfill material immediately behind the precast concrete solid deck beams, proceeding backward toward the end of the wall to completely compact the backfill layer. The compaction equipment shall consist of a vibratory compactor or other similar equipment as approved by the Engineer. Additionally, the following compaction requirements also apply to the integrated approach backfill.

- i. The moisture content of the integrated approach fill shall be adjusted to within 2% of its optimal moisture content prior to compacting.
 - ii. The integrated approach backfill should be compacted to at least 95 percent of maximum dry density according to AASHTO T 99 for a well-graded aggregate.
4. Placement of Geosynthetic Reinforcement. Geosynthetic reinforcement shall be installed in accordance with the manufacturer's site-specific installation manual. The geosynthetic reinforcement shall be connected to the precast concrete modular block facing units utilizing a frictional connection. The geosynthetic reinforcement shall extend between layers of block facing and shall cover a minimum of 85 percent of the top surface of the blocks. Any excess reinforcement material showing through the face shall be removed in accordance with the manufacturer's directions. If the block height is larger than the lift height the geosynthetic reinforcement shall be installed utilizing a 4'-0" tail at the back face of the modular block wall within the main GRS mass. A 4'-0" tail shall also be utilized at the back face of the precast concrete Solid Deck Beams and the back face of the solid offset block/foam board. The geosynthetic reinforcement shall be placed directly on the compacted horizontal fill surface and shall bear uniformly over the entire width of the GRS mass. After the reinforcement is rolled out, it shall be laid so that it is taut free of wrinkles, and flat. Placement of fill shall be from the wall face backward to remove and prevent the formation of wrinkles in the geosynthetic.

The reinforcement shall be laid out with the machine direction perpendicular to the abutment wall face. Splicing or overlapping of adjacent rolls is not required (seams running perpendicular to the wall face). All such seams in the reinforcement shall be staggered to avoid a continuous break in the reinforcement along a vertical plane throughout the GRS structure. Seams running parallel to the wall face shall not be allowed. If the end of a roll comes up short, the last piece shall be discarded, and a new roll shall be used.

Within the integrated approach zone, geotextile reinforcement shall be used to encapsulate the fill layers on three sides (along the end face of the precast concrete Solid Deck Beams and along the two faces parallel to the roadway).

Tracked Construction Equipment shall not be operated directly on geosynthetic reinforcement. A minimum backfill thickness of 6 inches is required prior to operation of tracked vehicles over geosynthetic reinforcement. Turning of tracked vehicles should be kept to a minimum to prevent displacing the fill and damaging or moving the geosynthetic reinforcement. Rubber-tired equipment may pass over geosynthetic reinforcement, if in accordance with the manufacturer's recommendations, at slow speeds less than 5 mph. Sudden braking and sharp turning should be avoided. In the bearing reinforcement zone, hand-operated compaction equipment shall be used over the 4-inch lifts to prevent excessive installation damage of the geosynthetic reinforcement.

5. Modular Block Wall Facing. Setting the first course of the blocks level and to grade is critical in maintaining wall alignment for the entire height of the wall. To help set the first course to grade and prevent rocking, a thin (less than one half inch) leveling layer of fine aggregate may be used.

Construction of the block wall shall begin at the lowest portion of the excavation, with each layer placed horizontally. Each layer shall be entirely constructed prior to beginning the next layer. A running bond pattern shall be maintained between courses of blocks to ensure that the joints between the blocks are offset with each row, with the vertical joints of each course approximately midway between those of adjoining courses. Each block shall be placed tightly against the adjoining block without any gaps. After the completion of each layer, the top of the blocks shall be cleaned of any debris and fill material prior to placing the next layer of geosynthetic reinforcement.

The blocks shall be constructed with a maximum set back of 3/8" per vertical foot. Alignment of the wall shall be checked for plumbness at every layer and any deviations greater than 0.5 inches shall be corrected. Wall face batter shall be maintained to conform to the limits and shape of the abutments to avoid potential changes in the setback distance and clear space. If any of the blocks become displaced during construction, they shall be carefully moved back into position by methods that will not cause damage to the block.

CONTRACTOR QUALITY CONTROL:

The Contractor shall provide a QC program to ensure all materials and workmanship meet the required quality levels specified. The Contractor shall provide qualified QC personnel, perform QC sampling, testing, inspection, and corrective action (where necessary) as outlined below.

1. QC of Standard Manufactured Items. All manufacturers of standard manufactured items shall have a QC system in place that meets the requirements established in AASHTO R38. Each manufacturer shall maintain a Quality System Manual (QSM) that addresses the format and content of AASHTO R38. The manufacturer shall perform QC inspection and testing in accordance with their QSM. All standard manufactured items delivered to the project site shall be accompanied by a manufacturer's certificate of compliance (COC), which includes the QC inspection and testing results for the corresponding manufacturer's lot. The Contractor shall be responsible for reviewing the manufacturer's COC and accompanying QC results for all standard manufacturer items delivered to the project, including, but not limited to the modular block wall and geosynthetic reinforcement.

The Contractor shall provide copies of each manufacturer's COC to the Engineer. The Contractor will perform QC inspection of all standard manufactured items upon delivery to the project site and during storage. Contractor QC personnel will also provide inspection of all standard manufactured items throughout field installation of the GRS-IBS system.

2. QC Inspection. The Contractor shall perform QC inspection of all work items addressed under this specification. Inspection activities during production and placement may be performed by qualified production personnel (skilled laborers, foremen, and superintendents). However, the Contractor's QC personnel shall have overall responsibility for QC inspection.

QC inspection activities must address the following primary components: materials, and workmanship. The minimum frequency of QC inspection activity shall be in accordance with the requirements below.

- a. QC Inspection of Modular Block Wall, Backfill, and Geosynthetics. The Contractor's personnel will perform QC inspection during installation of the modular blocs, backfill material, and geosynthetics in accordance with the requirements of this specification. The minimum attributes to be inspected are outlined in Table 1. The Contractor shall identify the specific inspection activities necessary to ensure the quality of the work, including any additional QC inspection attributes not specifically listed in Table 1.

Table 1: Minimum QC Inspection of Modular Block, Backfill Material, and Geosynthetic Reinforcement

Inspection Component	Attributed Inspected	Minimum Inspection Frequency	Point of Inspection	Inspection Method
Materials	Modular Block	One Per Layer	At Placement Location	Visual Check and Manufacturer COC
	GRS/RSF Backfill (correct type and free of organics)	One Per Backfill Layer	At Placement Location	Visual Check
	Integrated Approach Backfill (correct type and free of organics)	One Per Backfill Layer	At Placement Location	Visual Check
	Geosynthetics (correct type and free of tears)	One Per Backfill Layer	At Placement Location	Visual Check and Manufacturer COC
Workmanship	Modular Block Geometry/Alignment/Free of Gaps	One Per Layer	Each Layer	Check Measurements and/or Visual Check
	RSF Backfill (lift thickness)	One Per Backfill Layer	Post-Compaction of each lift	Check Measurement
	GRS Backfill (lift thickness)	One Per Backfill Layer	Post-Compaction of each lift	Check Measurement
	Integrated Approach Backfill (lift thickness)	One Per Backfill Layer	Post-Compaction of each lift	Check Measurement
	Level of Backfill behind Modular Block	One Per Backfill Layer	Post-Compaction of each lift	Visual Check
	Geosynthetics (no excessive construction damage)	One Per Backfill Layer	Each Geosynthetic Layer	Visual Check
	Geosynthetics (splice seams staggered)	Per Reinforcement Layer	Each Geosynthetic Layer	Visual Check
	Geosynthetics (4'-0" Tail)	Per Reinforcement Layer	Each Geosynthetic Layer	Check Measurement

3. Independent QC Sampling and Testing of Backfill Material: The Contractor shall retain an independent testing consultant or firm (hereby referred to as “Inspector”) to ensure the backfill material and construction is in compliance with the Standard Specifications and this Special Provision as allowed for under Item 999.300. The QC sampling will be performed at the site of the GRS field placement. The QC testing will be performed at the field placement site or at the Inspector’s QC laboratory depending on the quality characteristic being tested.

Each lot of backfill material will represent material from the same source, be produced or obtained under the same controlled process, and will possess normally distributed specification properties.

The Inspector shall perform QC testing during production and field placement of the backfill materials to ensure that the production and placement processes are providing work conforming to the contract requirements. All QC testing shall be in accordance with procedures specified in Table 2.

Table 2: Minimum QC Sampling and Testing of Backfill Material

Quality Characteristic	Test Method	Minimum Test Frequency	Point of Sampling	Sampling Method
Gradation	AASHTO T11 and AASHTO T27	One Per Lot	Source of Material (before use)	Random: AASHTO T2 and AASHTO T248
Maximum Dry Density and Optimum Moisture Content	AASHTO T99 (method C) and AASHTO T180	One Per Lot	Integrated Approach Backfill Source of Material (before use)	Random: AASHTO T2 and AASHTO T248
In-Place Density and Moisture Content (per targets)	AASHTO T310 (method B) and other approved procedures	Min. 2 Per lift per day	In-Place Compacted Integrated Approach Zone (before placing subsequent layer)	Random: AASHTO T310
In-Place Density (recommended alternative test)	Nuclear Density Gauge	Min. 4 Per lift per day	In-Place Compacted Integrated Approach Zone (before placing subsequent layer)	Random four locations at the compacted layer

SCHEDULE OF BASIS FOR PARTIAL PAYMENT

At the time of bid, the Contractor shall submit on his/her proposal form a schedule of unit prices for the major component Sub-Items that make up Item 996.4 as well as his/her total Lump Sum cost for Item 996.4 Geosynthetic Reinforced Soil – Integrated Bridge System. The Lump Sum breakdown quantities provided in the proposal form are estimated and not guaranteed. The total of all partial payments to the Contractor shall equal the Lump Sum contract price regardless of the accuracy of the quantities furnished by the Engineer for the individual components. The cost of labor and materials for any Item not listed but required to complete the work shall be considered incidental to Item 996.4 and no further compensation will be allowed. Sub-Item numbering is presented for information only in coordination with MassDOT Standard Nomenclature.

996.4 GEOSYNTHETIC REINFORCED SOIL – INTEGRATED BRIDGE SYSTEM

Sub-Item	Description	QTY.	UNIT
156.	CRUSHED STONE (GRS/RSF BACKFILL)	2824	TON
402.	DENSE GRADED CRUSHED STONE FOR SUB-BASE (INTEGRATED APPROACH BACKFILL)	177	CY
698.5	GEOSYNTHETIC REINFORCEMENT	9049	SY
904.001	CONCRETE BLOCK FACING	3469	SF

CONTRACT ALLOWANCE PAYMENT ITEMS

The quantity to be paid for under these items shall be the actual amount paid by the Contractor to provide satisfactory police services and testing operations as stipulated and required. Any associated Contractor overhead costs and profit shall be considered incidental to the cost of the contract.

ALLOWANCE ITEM 999.001

TRAFFIC POLICE

The Contractor shall furnish police services where and when required to direct traffic on existing roadways where traffic is maintained.

The Contractor shall provide such police officers as may be deemed necessary by either the Engineer or the Town for the direction and control of all traffic traveling within and through the project area. The police officers shall be obtained from the Town Police Department as applicable. The police officers shall be paid by the Contractor at the prevailing rate of wages established by the Town.

Allowance for Police Services

An allowance for the furnishing of police services has been included in all bids. This allowance is determined by multiplying the number of hours estimated as necessary by the prevailing hourly rate of wages established for such services. The Contractor shall submit certified copies of itemized bills of services rendered for review and approval by the Engineer. The allowance will be adjusted to the actual amount paid for authorized and approved police services as stipulated and shall include other payments due to any legal requirements of the State and Federal governments.

ALLOWANCE ITEM 999.300

FABRICATION INSPECTION, MATERIALS INSPECTION, SAMPLING AND TESTING SERVICES

Allowance for Inspection, Verification, and Testing

Fabrication Inspection, Materials inspection, sampling and testing services shall be provided by independent testing consultants or firms that shall be retained by the Contractor to ensure compliance with the Standard Specifications and these Special Provisions. These services will include, but are not limited to the following:

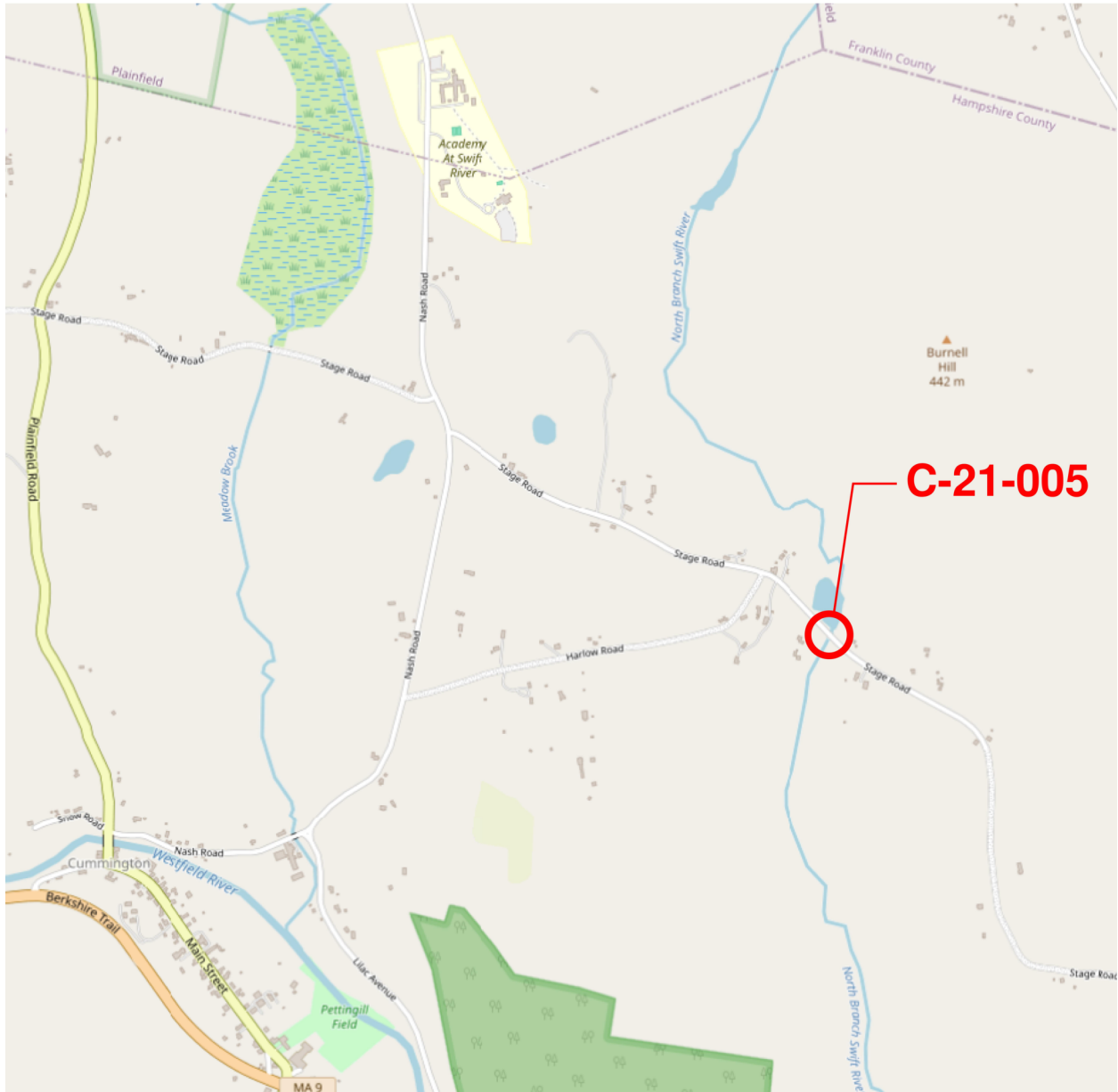
- Precast Concrete Shop Fabrication
- Portland Cement Concrete Field Inspection and Testing
- Spray Applied Membrane Waterproofing QC and Verification Testing
- Bridge Railing Post Fabrication and Welding
- Sampling and Testing of GRS-IBS backfill

The firm(s) selected to provide these services must be pre-qualified by MassDOT in the discipline of Materials Inspection and Testing. The Contractor shall coordinate with the firm(s) and the Engineer as necessary while the work is ongoing to ensure that the appropriate materials inspection, sampling and testing is occurring. Test reports shall be provided to the Engineer with copies to the Contractor. Work on materials that fail to meet the requirements of these Special Provisions shall be promptly corrected by the Contractor in accordance with the standard specifications. The cost of tests that fail to show compliance will not be reimbursed to the Contractor. The Contractor shall be reimbursed under this allowance item for testing based on paid invoices from the independent testing consultant(s).

END OF SPECIAL PROVISIONS

ATTACHMENT A

LOCUS MAP



ATTACHMENT B
WPA-3 NOTICE OF INTENT



Massachusetts Department of Environmental Protection

eDEP Transaction Copy

Here is the file you requested for your records.

To retain a copy of this file you must save and/or print.

Username: **PGILL27**

Transaction ID: **1716001**

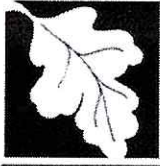
Document: **WPA Form 3 - NOI**

Size of File: **273.78K**

Status of Transaction: **In Process**

Date and Time Created: **6/5/2024:3:16:09 PM**

Note: This file only includes forms that were part of your transaction as of the date and time indicated above. If you need a more current copy of your transaction, return to eDEP and select to “Download a Copy” from the Current Submittals page.



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1716001
City/Town:CUMMINGTON

A.General Information

1. Project Location:

a. Street Address STAGE ROAD OVER NORTH BRANCH SWIFT RIVER
b. City/Town CUMMINGTON c. Zip Code 01026
d. Latitude 42.46863N e. Longitude 72.87078W
f. Map/Plat # 17 g.Parcel/Lot # 0.482.489.506

2. Applicant:

Individual Organization

a. First Name BILL KENNEDY b.Last Name ADAMS HOWES
c. Organization TOWN OF CUMMINGTON
d. Mailing Address 108 DODWELLS RD.
e. City/Town CUMMINGTON f. State MA g. Zip Code 01026
h. Phone Number 413-634-5342 i. Fax j. Email bill.adams2@verizon.net

3.Property Owner:

more than one owner

a. First Name BILL KENNEDY b. Last Name ADAMS HOWES
c. Organization TOWN OF CUMMINGTON, SELECTBOARD
d. Mailing Address 33 MAIN STREET
e. City/Town CUMMINGTON f.State MA g. Zip Code 01026
h. Phone Number 413-634-5342 i. Fax j.Email bill.adams2@verizon.net

4.Representative:

a. First Name PETER b. Last Name GILL
c. Organization GILL ENGINEERING
d. Mailing Address 63 KENDRICK STREET
e. City/Town NEEDHAM f. State MA g. Zip Code 02494
h.Phone Number 508-400-4892 i.Fax j.Email PGILL@GILL-ENG.COM

5.Total WPA Fee Paid (Automatically inserted from NOI Wetland Fee Transmittal Form):

a.Total Fee Paid 0.00 b.State Fee Paid 0.00 c.City/Town Fee Paid 0.00

6.General Project Description:

THE PROJECT SCOPE OF WORK IS A BRIDGE REPLACEMENT FOR BRIDGE NUMBER C21005 (775). THE EXISTING STEEL ARCH CULVERT IS STRUCTURALLY DEFICIENT AND NEEDS REPLACEMENT. THE PROPOSED BRIDGE WILL CONSIST OF A GEOSYNTHETIC REINFORCED SOIL INTEGRATED BRIDGE SYSTEM (GRS/IBS) SUBSTRUCTURE AND A PRECAST CONCRETE DECK BEAM SUPERSTRUCTURE. THE PROPOSED BRIDGE WILL OCCUPY THE SAME APPROXIMATE FOOTPRINT AND PROVIDE A LARGER HYDRAULIC OPENING THAT MEETS STREAM CROSSING STANDARDS. TEMPORARY WATER CONTROL WILL BE IMPLEMENTED TO PERFORM WORK IN THE DRY.

7a.Project Type:

- Single Family Home Residential Subdivision
Limited Project Driveway Crossing Commercial/Industrial



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1716001
City/Town:CUMMINGTON

A.General Information

1. Project Location:

a. Street Address STAGE ROAD OVER NORTH BRANCH SWIFT RIVER
b. City/Town CUMMINGTON c. Zip Code 01026
d. Latitude 42.46863N e. Longitude 72.87078W
f. Map/Plat # 17 g.Parcel/Lot # 0,482,489,506

2. Applicant:

Individual Organization

a. First Name BILL b.Last Name ADAMS
c. Organization TOWN OF CUMMINGTON
d. Mailing Address 108 DODWELLS RD.
e. City/Town CUMMINGTON f. State MA g. Zip Code 01026
h. Phone Number 413-634-5342 i. Fax j. Email bill.adams2@verizon.net

3.Property Owner:

more than one owner

a. First Name BILL b. Last Name ADAMS
c. Organization TOWN OF CUMMINGTON
d. Mailing Address 33 MAIN STREET
e. City/Town CUMMINGTON f.State MA g. Zip Code 01026
h. Phone Number 413-634-5342 i. Fax j.Email bill.adams2@verizon.net

4.Representative:

a. First Name PETER b. Last Name GILL
c. Organization GILL ENGINEERING
d. Mailing Address 63 KENDRICK STREET
e. City/Town NEEDHAM f. State MA g. Zip Code 02494
h.Phone Number 508-400-4892 i.Fax j.Email PGILL@GILL-ENG.COM

5.Total WPA Fee Paid (Automatically inserted from NOI Wetland Fee Transmittal Form):

a.Total Fee Paid 0.00 b.State Fee Paid 0.00 c.City/Town Fee Paid 0.00

6.General Project Description:

THE PROJECT SCOPE OF WORK IS A BRIDGE REPLACEMENT FOR BRIDGE NUMBER C21005 (775). THE EXISTING STEEL ARCH CULVERT IS STRUCTURALLY DEFICIENT AND NEEDS REPLACEMENT. THE PROPOSED BRIDGE WILL CONSIST OF A GEOSYNTHETIC REINFORCED SOIL INTEGRATED BRIDGE SYSTEM (GRS/IBS) SUBSTRUCTURE AND A PRECAST CONCRETE DECK BEAM SUPERSTRUCTURE. THE PROPOSED BRIDGE WILL OCCUPY THE SAME APPROXIMATE FOOTPRINT AND PROVIDE A LARGER HYDRAULIC OPENING THAT MEETS STREAM CROSSING STANDARDS. TEMPORARY WATER CONTROL WILL BE IMPLEMENTED TO PERFORM WORK IN THE DRY.

7a.Project Type:

- Single Family Home Residential Subdivision
Limited Project Driveway Crossing Commercial/Industrial



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP: MassDEP File #: eDEP Transaction #:1716001 City/Town:CUMMINGTON

- 5. Dock/Pier 6. Utilities 7. Coastal Engineering Structure 8. Agriculture (eg., cranberries, forestry) 9. Transportation 10. Other

7b. Is any portion of the proposed activity eligible to be treated as a limited project subject to 310 CMR 10.24 (coastal) or 310 CMR 10.53 (inland)?

1. If yes, describe which limited project applies to this project:

Limited Project: THE MAINTENANCE, REPAIR AND IMPROVEMENT (BUT NOT SUBSTANTIAL ENLARGEMENT EXCEPT WHEN NECESSARY TO MEET THE MASSACHUSETTS STREAM CROSSING STANDARDS) OF STRUCTURES, INCLUDING DAMS AND RESERVOIRS AND APPURTENANT WORKS TO SUCH DAMS AND RESERVOIRS, BUILDINGS, PIERS, TOWERS, HEADWALLS, BRIDGES, AND CULVERTS WHICH EXISTED ON THE EFFECTIVE DATE OF 310 CMR 10.51 THROUGH 10.60 (APRIL 1, 1983) THIS PROJECT CONSISTS OF REPLACING A FAILING CULVERT WITH A NEW BRIDGE OF SIMILAR SIZE AND LOCATION.

8. Property recorded at the Registry of Deeds for:

a. County: b. Certificate: c. Book: d. Page:

B. Buffer Zone & Resource Area Impacts (temporary & permanent)

1. Buffer Zone & Resource Area Impacts (temporary & permanent):

This is a Buffer Zone only project - Check if the project is located only in the Buffer Zone of a Bordering Vegetated Wetland, Inland Bank, or Coastal Resource Area.

2. Inland Resource Areas: (See 310 CMR 10.54 - 10.58, if not applicable, go to Section B.3. Coastal Resource Areas)

Table with 3 columns: Resource Area, Size of Proposed Alteration, Proposed Replacement (if any). Rows include Bank, Bordering Vegetated Wetland, Land under Waterbodies and Waterways, Bordering Land Subject to Flooding, Isolated Land Subject to Flooding, and Riverfront Area.



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1716001
City/Town:CUMMINGTON

- 1. Name of Waterway (if any)
- 2. Width of Riverfront Area (check one)
 - 25 ft. - Designated Densely Developed Areas only
 - 100 ft. - New agricultural projects only
 - 200 ft. - All other projects
- 3. Total area of Riverfront Area on the site of the proposed project 40000 square feet
- 4. Proposed Alteration of the Riverfront Area:

1801	1801	0
a. total square feet	b. square feet within 100 ft.	c. square feet between 100 ft. and 200 ft.
- 5. Has an alternatives analysis been done and is it attached to this NOI? Yes No
- 6. Was the lot where the activity is proposed created prior to August 1, 1996? Yes No

3. Coastal Resource Areas: (See 310 CMR 10.25 - 10.35)

Resource Area	Size of Proposed Alteration	Proposed Replacement (if any)
a. <input type="checkbox"/> Designated Port Areas	Indicate size under	Land under the ocean below,
b. <input type="checkbox"/> Land Under the Ocean	1. square feet	
	2. cubic yards dredged	
c. <input type="checkbox"/> Barrier Beaches	Indicate size under Coastal Beaches and/or Coastal Dunes, below	
d. <input type="checkbox"/> Coastal Beaches	1. square feet	2. cubic yards beach nourishment
e. <input type="checkbox"/> Coastal Dunes	1. square feet	2. cubic yards dune nourishment
f. <input type="checkbox"/> Coastal Banks	1. linear feet	
g. <input type="checkbox"/> Rocky Intertidal Shores	1. square feet	
h. <input type="checkbox"/> Salt Marshes	1. square feet	2. sq ft restoration, rehab, crea.
i. <input type="checkbox"/> Land Under Salt Ponds	1. square feet	
	2. cubic yards dredged	
j. <input type="checkbox"/> Land Containing Shellfish	1. square feet	
k. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, Inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above	
	1. cubic yards dredged	
l. <input type="checkbox"/> Land Subject to Coastal		



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1716001
City/Town:CUMMINGTON

Storm Flowage 1. square feet

4. Restoration/Enhancement

Restoration/Replacement

If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.2.b or B.3.h above, please entered the additional amount here.

a. square feet of BVW b. square feet of Salt Marsh

5. Projects Involves Stream Crossings

Project Involves Streams Crossings

If the project involves Stream Crossings, please enter the number of new stream crossings/number of replacement stream crossings.

0 1
a. number of new stream crossings b. number of replacement stream crossings

C. Other Applicable Standards and Requirements

Streamlined Massachusetts Endangered Species Act/Wetlands Protection Act Review

1. Is any portion of the proposed project located in **Estimated Habitat of Rare Wildlife** as indicated on the most recent Estimated Habitat Map of State-Listed Rare Wetland Wildlife published by the Natural Heritage of Endangered Species program (NHESP)?

a. Yes No

If yes, include proof of mailing or hand delivery of NOI to:
Natural Heritage and Endangered Species
Program
Division of Fisheries and Wildlife
1 Rabbit Hill Road
Westborough, MA 01581

b. Date of map: FROM MAP VIEWER

If yes, the project is also subject to Massachusetts Endangered Species Act (MESA) review (321 CMR 10.18)...

c. Submit Supplemental Information for Endangered Species Review * (Check boxes as they apply)

1. Percentage/acreage of property to be altered:

(a) within Wetland Resource Area 0 percentage/acreage
(b) outside Resource Area 100 percentage/acreage

2. Assessor's Map or right-of-way plan of site

3. Project plans for entire project site, including wetland resource areas and areas outside of wetland jurisdiction, showing existing and proposed conditions, existing and proposed tree/vegetation clearing line, and clearly demarcated limits of work **

a. Project description (including description of impacts outside of wetland resource area & buffer zone)

b. Photographs representative of the site

c. MESA filing fee (fee information available at: <http://www.mass.gov/eea/agencies/dfg/dfw/natural-heritage/regulatory-review/mass-endangered-species-act-mesa/mesa-fee-schedule.html>)

Make check payable to "Natural Heritage & Endangered Species Fund" and **mail to NHESP** at above address

Projects altering 10 or more acres of land, also submit:

d. Vegetation cover type map of site



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1716001
City/Town:CUMMINGTON

e. Project plans showing Priority & Estimated Habitat boundaries

d. OR Check One of the following

1. Project is exempt from MESA review. Attach applicant letter indicating which MESA exemption applies. (See 321 CMR 10.14, <http://www.mass.gov/eea/agencies/dfg/dfw/laws-regulations/cmr/321-cmr-1000-massachusetts-endangered-species-act.html#10.14>; the NOI must still be sent to NHESP if the project is within estimated habitat pursuant to 310 CMR 10.37 and 10.59.)

2. Separate MESA review ongoing.

a. NHESP Tracking Number

b. Date submitted to NHESP

3. Separate MESA review completed.

Include copy of NHESP "no Take" determination or valid Conservation & Management Permit with approved plan.

* Some projects **not** in Estimated Habitat may be located in Priority Habitat, and require NHESP review...

2. For coastal projects only, is any portion of the proposed project located below the mean high waterline or in a fish run?

a. Not applicable - project is in inland resource area only

b. Yes No

If yes, include proof of mailing or hand delivery of NOI to either:

South Shore - Cohasset to Rhode Island, and the Cape & Islands:

North Shore - Hull to New Hampshire:

Division of Marine Fisheries -
Southeast Marine Fisheries Station
Attn: Environmental Reviewer
836 S. Rodney French Blvd
New Bedford, MA 02744

Division of Marine Fisheries -
North Shore Office
Attn: Environmental Reviewer
30 Emerson Avenue
Gloucester, MA 01930

If yes, it may require a Chapter 91 license. For coastal towns in the Northeast Region, please contact MassDEP's Boston Office. For coastal towns in the Southeast Region, please contact MassDEP's Southeast Regional office.

3. Is any portion of the proposed project within an Area of Critical Environmental Concern (ACEC)?

a. Yes No

If yes, provide name of ACEC (see instructions to WPA Form 3 or DEP Website for ACEC locations). **Note:** electronic filers click on Website.

b. ACEC Name

4. Is any portion of the proposed project within an area designated as an Outstanding Resource Water (ORW) as designated in the Massachusetts Surface Water Quality Standards, 314 CMR 4.00?

a. Yes No

5. Is any portion of the site subject to a Wetlands Restriction Order under the Inland Wetlands Restriction Act (M.G.L.c. 131, § 40A) or the Coastal Wetlands Restriction Act (M.G.L.c. 130, § 105)?

a. Yes No

6. Is this project subject to provisions of the MassDEP Stormwater Management Standards?

a. Yes, Attach a copy of the Stormwater Report as required by the Stormwater Management Standards per 310 CMR 10.05(6)(k)-(q) and check if:

1. Applying for Low Impact Development (LID) site design credits (as described in Stormwater Management Handbook



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1716001
City/Town:CUMMINGTON

- Vol.2, Chapter 3)
- 2. A portion of the site constitutes redevelopment
- 3. Proprietary BMPs are included in the Stormwater Management System

b. No, Explain why the project is exempt:

- 1. Single Family Home
- 2. Emergency Road Repair
- 3. Small Residential Subdivision (less than or equal to 4 single-family houses or less than or equal to 4 units in multi-family housing project) with no discharge to Critical Areas.

D. Additional Information

Applicants must include the following with this Notice of Intent (NOI). See instructions for details.

Online Users: Attach the document transaction number (provided on your receipt page) for any of the following information you submit to the Department by regular mail delivery.

- 1. USGS or other map of the area (along with a narrative description, if necessary) containing sufficient information for the Conservation Commission and the Department to locate the site. (Electronic filers may omit this item.)
- 2. Plans identifying the location of proposed activities (including activities proposed to serve as a Bordering Vegetated Wetland [BVW] replication area or other mitigating measure) relative to the boundaries of each affected resource area.
- 3. Identify the method for BVW and other resource area boundary delineations (MassDEP BVW Field Data Form(s)).
- 4. Determination of Applicability, Order of Resource Area Delineation, etc.), and attach documentation of the methodology.
- 4. List the titles and dates for all plans and other materials submitted with this NOI.

a. Plan Title: b. Plan Prepared By: c. Plan Signed/Stamped By: c. Revised Final Date: e. Scale:

ENVIRONMENTAL GILL ENGINEERING
PERMIT PLANS

- 5. If there is more than one property owner, please attach a list of these property owners not listed on this form.
- 6. Attach proof of mailing for Natural Heritage and Endangered Species Program, if needed.
- 7. Attach proof of mailing for Massachusetts Division of Marine Fisheries, if needed.
- 8. Attach NOI Wetland Fee Transmittal Form.
- 9. Attach Stormwater Report, if needed.



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1716001
City/Town:CUMMINGTON

E. Fees

1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

_____	_____
2. Municipal Check Number	3. Check date
_____	_____
4. State Check Number	5. Check date
_____	_____
6. Payer name on check: First Name	7. Payer name on check: Last Name

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

Town of Cummington	6/5/2024
_____	_____
1. Signature of Applicant	2. Date
Town of Cummington	6/5/2024
_____	_____
3. Signature of Property Owner(if different)	4. Date
Peter Gill	6/5/2024
_____	_____
5. Signature of Representative (if any)	6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a copy of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in Section C, Items 1-3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Form 3 - Notice of Wetland Fee Transmittal
Form

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
 MassDEP File #:
 eDEP Transaction #:1716001
 City/Town:CUMMINGTON

A. Applicant Information

1. Applicant:

a. First Name	BILL	b. Last Name	ADAMS
c. Organization	TOWN OF CUMMINGTON		
d. Mailing Address	108 DODWELLS RD.		
e. City/Town	CUMMINGTON	f. State	MA
g. Zip Code	01026		
h. Phone Number	4136345342	i. Fax	
j. Email	bill.adams2@verizon.net		

2. Property Owner:(if different)

a. First Name	BILL	b. Last Name	ADAMS
c. Organization	TOWN OF CUMMINGTON		
d. Mailing Address	33 MAIN STREET		
e. City/Town	CUMMINGTON	f. State	MA
g. Zip Code	01026		
h. Phone Number	4136345342	i. Fax	
j. Email	bill.adams2@verizon.net		

3. Project Location:

a. Street Address	STAGE ROAD OVER NORTH BRANCH SWIFT RIVER	b. City/Town	CUMMINGTON
-------------------	--	--------------	------------

Are you exempted from Fee?

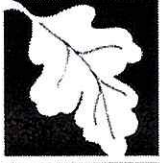
Note: Fee will be exempted if you are one of the following:

- City/Town/County/District
- Municipal Housing Authority
- Indian Tribe Housing Authority
- MBTA

State agencies are only exempt if the fee is less than \$100

B. Fees

Activity Type	Activity Number	Activity Fee	RF Multiplier	Sub Total
	City/Town share of filling fee	\$0.00	State share of filing fee	\$0.00
			Total Project Fee	\$0.00



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 3 - Notice of Intent

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #:
eDEP Transaction #:1716001
City/Town:CUMMINGTON

E. Fees

1. Fee Exempt: No filing fee shall be assessed for projects of any city, town, county, or district of the Commonwealth, federally recognized Indian tribe housing authority, municipal housing authority, or the Massachusetts Bay Transportation Authority.

Applicants must submit the following information (in addition to pages 1 and 2 of the NOI Wetland Fee Transmittal Form) to confirm fee payment:

2. Municipal Check Number

3. Check date

4. State Check Number

5. Check date

6. Payer name on check: First Name

7. Payer name on check: Last Name

F. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Notice of Intent and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge. I understand that the Conservation Commission will place notification of this Notice in a local newspaper at the expense of the applicant in accordance with the wetlands regulations, 310 CMR 10.05(5)(a).

I further certify under penalties of perjury that all abutters were notified of this application, pursuant to the requirements of M.G.L. c. 131, § 40. Notice must be made by Certificate of Mailing or in writing by hand delivery or certified mail (return receipt requested) to all abutters within 100 feet of the property line of the project location.

Town of Cummington *Kenneth J. Howe*
1. Signature of Applicant

6/5/2024
2. Date

Town of Cummington
3. Signature of Property Owner(if different)

6/5/2024
4. Date

Peter Gill
5. Signature of Representative (if any)

6/5/2024
6. Date

For Conservation Commission:

Two copies of the completed Notice of Intent (Form 3), including supporting plans and documents, two copies of the NOI Wetland Fee Transmittal Form, and the city/town fee payment, to the Conservation Commission by certified mail or hand delivery.

For MassDEP:

One copy of the completed Notice of Intent (Form 3), including supporting plans and documents, one copy of the NOI Wetland Fee Transmittal Form, and a copy of the state fee payment to the MassDEP Regional Office (see Instructions) by certified mail or hand delivery.

Other:

If the applicant has checked the "yes" box in Section C, Items 1-3, above, refer to that section and the Instructions for additional submittal requirements.

The original and copies must be sent simultaneously. Failure by the applicant to send copies in a timely manner may result in dismissal of the Notice of Intent.

ATTACHMENT C
WPA-5 ORDER OF CONDITIONS



Massachusetts Department of Environmental Protection

eDEP Transaction Copy

Here is the file you requested for your records.

To retain a copy of this file you must save and/or print.

Username: **ALLANCCUMMINGTON**

Transaction ID: **1751153**

Document: **WPA Form 5 - OOC**

Size of File: **150.01K**

Status of Transaction: **In Process**

Date and Time Created: **9/4/2024:12:00:52 PM**

Note: This file only includes forms that were part of your transaction as of the date and time indicated above. If you need a more current copy of your transaction, return to eDEP and select to "Download a Copy" from the Current Submittals page.



Massachusetts Department of Environmental Protection
 Bureau of Resource Protection - Wetlands
WPA Form 5 - Order of Conditions
 Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
 MassDEP File #:139-0064
 eDEP Transaction
 #:1751153
 City/Town:CUMMINGTON

A. General Information

1. Conservation Commission CUMMINGTON

2. Issuance a. OOC b. Amended OOC

3. Applicant Details

a. First Name	BILL	b. Last Name	ADAMS
c. Organization	TOWN OF CUMMINGTON		
d. Mailing Address	108 DODWELLS RD.		
e. City/Town	CUMMINGTON	f. State	MA
		g. Zip Code	01026

4. Property Owner

a. First Name	BILL	b. Last Name	ADAMS
c. Organization	TOWN OF CUMMINGTON		
d. Mailing Address	33 MAIN STREET		
e. City/Town	CUMMINGTON	f. State	MA
		g. Zip Code	01026

5. Project Location

a. Street Address	STAGE ROAD OVER NORTH BRANCH SWIFT RIVER		
b. City/Town	CUMMINGTON	c. Zip Code	01026
d. Assessors Map/Plat#	16	e. Parcel/Lot#	69
f. Latitude	42.46863N	g. Longitude	72.87078W

6. Property recorded at the Registry of Deed for:

a. County	b. Certificate	c. Book	d. Page
HAMPSHIRE			

7. Dates

a. Date NOI Filed : 6/5/2024 b. Date Public Hearing Closed: 8/5/2024 c. Date Of Issuance: 8/27/2024

8. Final Approved Plans and Other Documents

a. Plan Title: b. Plan Prepared by: c. Plan Signed/Stamped by: d. Revised Final Date: e. Scale:

B. Findings

1. Findings pursuant to the Massachusetts Wetlands Protection Act
 Following the review of the the above-referenced Notice of Intent and based on the information provided in this application and presented at the public hearing, this Commission finds that the areas in which work is proposed is significant to the following interests of the Wetlands Protection Act.

Check all that apply:

a. <input type="checkbox"/> Public Water Supply	b. <input type="checkbox"/> Land Containing Shellfish	c. <input type="checkbox"/> Prevention of Pollution
d. <input type="checkbox"/> Private Water Supply	e. <input type="checkbox"/> Fisheries	f. <input type="checkbox"/> Protection of Wildlife Habitat
g. <input type="checkbox"/> Ground Water Supply	h. <input type="checkbox"/> Storm Damage Prevention	i. <input type="checkbox"/> Flood Control

2. Commission hereby finds the project, as proposed, is:

Approved subject to:



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Wetlands

WPA Form 5 - Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
MassDEP File #:139-0064
eDEP Transaction #:1751153
City/Town:CUMMINGTON

a. The following conditions which are necessary in accordance with the performance standards set forth in the wetlands regulations. This Commission orders that all work shall be performed in accordance with the Notice of Intent referenced above, the following General Conditions, and any other special conditions attached to this Order. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, these conditions shall control.

Denied because:

b. The proposed work cannot be conditioned to meet the performance standards set forth in the wetland regulations. Therefore, work on this project may not go forward unless and until a new Notice of Intent is submitted which provides measures which are adequate to protect interests of the Act, and a final Order of Conditions is issued. **A description of the performance standards which the proposed work cannot meet is attached to this Order.**

c. The information submitted by the applicant is not sufficient to describe the site, the work or the effect of the work on the interests identified in the Wetlands Protection Act. Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides sufficient information and includes measures which are adequate to protect the interests of the Act, and a final Order of Conditions is issued. **A description of the specific information which is lacking and why it is necessary is attached to this Order as per 310 CMR 10.05(6)(c).**

3. Buffer Zone Impacts: Shortest distance between limit of project disturbance and the wetland resource area specified in 310CMR10.02(1)(a).
a. linear feet

Inland Resource Area Impacts:(For Approvals Only):				
Resource Area	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
4. <input checked="" type="checkbox"/> Bank	<u>6</u> a. linear feet	<u> </u> b. linear feet	<u>84</u> c. linear feet	<u> </u> d. linear feet
5. <input type="checkbox"/> Bordering Vegetated Wetland	<u> </u> a. square feet	<u> </u> b. square feet	<u> </u> c. square feet	<u> </u> d. square feet
6. <input type="checkbox"/> Land under Waterbodies and Waterways	<u> </u> a. square feet	<u> </u> b. square feet	<u> </u> c. square feet	<u> </u> d. square feet
	<u> </u> e. c/y dredged	<u> </u> f. c/y dredged		
7. <input checked="" type="checkbox"/> Bordering Land Subject to Flooding	<u>290</u> a. square feet	<u> </u> b. square feet	<u>0</u> c. square feet	<u> </u> d. square feet
Cubic Feet Flood Storage	<u>0</u> e. cubic feet	<u> </u> f. cubic feet	<u>0</u> g. cubic feet	<u> </u> h. cubic feet
8. <input type="checkbox"/> Isolated Land Subject to Flooding	<u> </u> a. square feet	<u> </u> b. square feet		
Cubic Feet Flood Storage	<u> </u> c. cubic feet	<u> </u> d. cubic feet	<u> </u> e. cubic feet	<u> </u> f. cubic feet
9. <input checked="" type="checkbox"/> Riverfront Area	<u>1801</u> a. total sq. feet	<u> </u> b. total sq. feet		



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Sq ft within 100 ft

c. square feet

d. square feet

e. square feet

f. square feet

Sq ft between 100-200 ft

g. square feet

h. square feet

i. square feet

j. square feet

Coastal Resource Area Impacts:

Resource Area	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
---------------	---------------------	----------------------	----------------------	-----------------------

10. <input type="checkbox"/> Designated Port Areas	Indicate size under Land Under the Ocean, below			
--	---	--	--	--

11. <input type="checkbox"/> Land Under the Ocean	<u> </u> a. square feet	<u> </u> b. square feet	<u> </u> c. c/y dredged	<u> </u> d. c/y dredged
---	---	---	---	---

12. <input type="checkbox"/> Barrier Beaches	Indicate size under Coastal Beaches and/or Coastal Dunes below			
--	--	--	--	--

13. <input type="checkbox"/> Coastal Beaches	<u> </u> a. square feet	<u> </u> b. square feet	<u> </u> c. c/y nourishment	<u> </u> d. c/y nourishment
14. <input type="checkbox"/> Coastal Dunes	<u> </u> a. square feet	<u> </u> b. square feet	<u> </u> c. c/y nourishment	<u> </u> d. c/y nourishment

15. <input type="checkbox"/> Coastal Banks	<u> </u> a. linear feet	<u> </u> b. linear feet		
--	---	---	--	--

16. <input type="checkbox"/> Rocky Intertidal Shores	<u> </u> a. square feet	<u> </u> b. square feet		
--	---	---	--	--

17. <input type="checkbox"/> Salt Marshes	<u> </u> a. square feet	<u> </u> b. square feet	<u> </u> c. square feet	<u> </u> d. square feet
---	---	---	---	---

18. <input type="checkbox"/> Land Under Salt Ponds	<u> </u> a. square feet	<u> </u> b. square feet		
	<u> </u> c. c/y dredged	<u> </u> d. c/y dredged		

19. <input type="checkbox"/> Land Containing Shellfish	<u> </u> a. square feet	<u> </u> b. square feet	<u> </u> c. square feet	<u> </u> d. square feet
--	---	---	---	---

20. <input type="checkbox"/> Fish Runs	Indicate size under Coastal Banks, inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above			
	<u> </u> c. c/y dredged	<u> </u> d. c/y dredged		

21. <input type="checkbox"/> Land Subject to Coastal Storm Flowage	<u> </u> a. square feet	<u> </u> b. square feet		
--	---	---	--	--

22. Restoration/Enhancement (For Approvals Only)

If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage



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that has been entered in Section B.5.c & d or B.17.c & d above, please entered the additional amount here.

a. square feet of BVW

b. square feet of Salt Marsh

23.

Streams Crossing(s)

If the project involves Stream Crossings, please enter the number of new stream crossings/number of replacement stream crossings.

0

1

a. number of new stream crossings

b. number of replacement stream crossings

C. General Conditions Under Massachusetts Wetlands Protection Act

The following conditions are only applicable to Approved projects

1. Failure to comply with all conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to revoke or modify this Order.
2. The Order does not grant any property rights or any exclusive privileges; it does not authorize any injury to private property or invasion of private rights.
3. This Order does not relieve the permittee or any other person of the necessity of complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.
4. The work authorized hereunder shall be completed within three years from the date of this Order unless either of the following apply:
 - a. the work is a maintenance dredging project as provided for in the Act; or
 - b. the time for completion has been extended to a specified date more than three years, but less than five years, from the date of issuance. If this Order is intended to be valid for more than three years, the extension date and the special circumstances warranting the extended time period are set forth as a special condition in this Order.
5. This Order may be extended by the issuing authority for one or more periods of up to three years each upon application to the issuing authority at least 30 days prior to the expiration date of the Order.
6. If this Order constitutes an Amended Order of Conditions, this Amended Order of Conditions does not exceed the issuance date of the original Final Order of Conditions.
7. Any fill used in connection with this project shall be clean fill. Any fill shall contain no trash, refuse, rubbish, or debris, including but not limited to lumber, bricks, plaster, wire, lath, paper, cardboard, pipe, tires, ashes, refrigerators, motor vehicles, or parts of any of the foregoing.
8. This Order is not final until all administrative appeal periods from this Order have elapsed, or if such an appeal has been taken, until all proceedings before the Department have been completed.
9. No work shall be undertaken until the Order has become final and then has been recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land upon which the proposed work is to be done. In the case of the registered land, the Final Order shall also be noted on the Land Court Certificate of Title of the owner of the land upon which the proposed work is done. The recording information shall be submitted to the Conservation Commission on the form at the end of this Order, which form must be stamped by the Registry of Deeds, prior to the commencement of work..
10. A sign shall be displayed at the site not less then two square feet or more than three square feet in size bearing the words,

" Massachusetts Department of Environmental Protection"



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[or 'MassDEP']

File Number : "139-0064"

11. Where the Department of Environmental Protection is requested to issue a Superseding Order, the Conservation Commission shall be a party to all agency proceedings and hearings before Mass DEP.
12. Upon completion of the work described herein, the applicant shall submit a Request for Certificate of Compliance (WPA Form 8A) to the Conservation Commission.
13. The work shall conform to the plans and special conditions referenced in this order.
14. Any change to the plans identified in Condition #13 above shall require the applicant to inquire of the Conservation Commission in writing whether the change is significant enough to require the filing of a new Notice of Intent.
15. The Agent or members of the Conservation Commission and the Department of Environmental Protection shall have the right to enter and inspect the area subject to this Order at reasonable hours to evaluate compliance with the conditions stated in this Order, and may require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.
16. This Order of Conditions shall apply to any successor in interest or successor in control of the property subject to this Order and to any contractor or other person performing work conditioned by this Order.
17. Prior to the start of work, and if the project involves work adjacent to a Bordering Vegetated Wetland, the boundary of the wetland in the vicinity of the proposed work area shall be marked by wooden stakes or flagging. Once in place, the wetland boundary markers shall be maintained until a Certificate of Compliance has been issued by the Conservation Commission.
18. All sedimentation barriers shall be maintained in good repair until all disturbed areas have been fully stabilized with vegetation or other means. At no time shall sediments be deposited in a wetland or water body. During construction, the applicant or his/her designee shall inspect the erosion controls on a daily basis and shall remove accumulated sediments as needed. The applicant shall immediately control any erosion problems that occur at the site and shall also immediately notify the Conservation Commission, which reserves the right to require additional erosion and/or damage prevention controls it may deem necessary. Sedimentation barriers shall serve as the limit of work unless another limit of work line has been approved by this Order.

NOTICE OF STORMWATER CONTROL AND MAINTENANCE REQUIREMENTS

19. The work associated with this Order(the "Project") is (1) is not (2) subject to the Massachusetts Stormwater Standards. If the work is subject to Stormwater Standards, then the project is subject to the following conditions;
 - a) All work, including site preparation, land disturbance, construction and redevelopment, shall be implemented in accordance with the construction period pollution prevention and erosion and sedimentation control plan and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollutant Discharge Elimination System Construction General Permit as required by Stormwater Standard 8. Construction period erosion, sedimentation and pollution control measures and best management practices (BMPs) shall remain in place until the site is fully stabilized.
 - b) No stormwater runoff may be discharged to the post-construction stormwater BMPs unless and until a Registered Professional Engineer provides a Certification that: *i.* all construction period BMPs have been removed or will be removed by a date certain specified in the Certification. For any construction period BMPs intended to be converted to post construction operation for stormwater attenuation, recharge, and/or treatment, the conversion is allowed by the MassDEP Stormwater Handbook BMP specifications and that the BMP has been properly cleaned or prepared for post construction operation, including removal of all construction period sediment trapped in inlet and outlet control structures; *ii.* as-built final construction BMP plans are included, signed and stamped by a Registered Professional Engineer, certifying the site is fully stabilized; *iii.* any illicit discharges to the stormwater management system have been removed, as per



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the requirements of Stormwater Standard 10; *iv.* all post-construction stormwater BMPs are installed in accordance with the plans (including all planting plans) approved by the issuing authority, and have been inspected to ensure that they are not damaged and that they are in proper working condition; *v.* any vegetation associated with post-construction BMPs is suitably established to withstand erosion.

- c) The landowner is responsible for BMP maintenance until the issuing authority is notified that another party has legally assumed responsibility for BMP maintenance. Prior to requesting a Certificate of Compliance, or Partial Certificate of Compliance, the responsible party (defined in General Condition 19(e)) shall execute and submit to the issuing authority an Operation and Maintenance Compliance Statement ("O&M Statement") for the Stormwater BMPs identifying the party responsible for implementing the stormwater BMP Operation and Maintenance Plan ("O&M Plan") and certifying the following: *i.*) the O&M Plan is complete and will be implemented upon receipt of the Certificate of Compliance, and *ii.*) the future responsible parties shall be notified in writing of their ongoing legal responsibility to operate and maintain the stormwater management BMPs and implement the Stormwater Pollution Prevention Plan.
- d) Post-construction pollution prevention and source control shall be implemented in accordance with the long-term pollution prevention plan section of the approved Stormwater Report and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollutant Discharge Elimination System Multi-Sector General Permit.
- e) Unless and until another party accepts responsibility, the landowner, or owner of any drainage easement, assumes responsibility for maintaining each BMP. To overcome this presumption, the landowner of the property must submit to the issuing authority a legally binding agreement of record, acceptable to the issuing authority, evidencing that another entity has accepted responsibility for maintaining the BMP, and that the proposed responsible party shall be treated as a permittee for purposes of implementing the requirements of Conditions 19(f) through 19(k) with respect to that BMP. Any failure of the proposed responsible party to implement the requirements of Conditions 19(f) through 19(k) with respect to that BMP shall be a violation of the Order of Conditions or Certificate of Compliance. In the case of stormwater BMPs that are serving more than one lot, the legally binding agreement shall also identify the lots that will be serviced by the stormwater BMPs. A plan and easement deed that grants the responsible party access to perform the required operation and maintenance must be submitted along with the legally binding agreement.
- f) The responsible party shall operate and maintain all stormwater BMPs in accordance with the design plans, the O&M Plan, and the requirements of the Massachusetts Stormwater Handbook.
- g) The responsible party shall:
 - 1. Maintain an operation and maintenance log for the last three (3) consecutive calendar years of inspections, repairs, maintenance and/or replacement of the stormwater management system or any part thereof, and disposal (for disposal the log shall indicate the type of material and the disposal location);
 - 2. Make the maintenance log available to MassDEP and the Conservation Commission ("Commission") upon request; and
 - 3. Allow members and agents of the MassDEP and the Commission to enter and inspect the site to evaluate and ensure that the responsible party is in compliance with the requirements for each BMP established in the O&M Plan approved by the issuing authority.
- h) All sediment or other contaminants removed from stormwater BMPs shall be disposed of in accordance with all applicable federal, state, and local laws and regulations.
- i) Illicit discharges to the stormwater management system as defined in 310 CMR 10.04 are prohibited.
- j) The stormwater management system approved in the Order of Conditions shall not be changed without the prior written approval of the issuing authority.
- k) Areas designated as qualifying pervious areas for the purpose of the Low Impact Site Design Credit (as defined in the MassDEP Stormwater Handbook, Volume 3, Chapter 1, Low Impact Development Site Design



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Credits) shall not be altered without the prior written approval of the issuing authority.

- 1) Access for maintenance, repair, and/or replacement of BMPs shall not be withheld. Any fencing constructed around stormwater BMPs shall include access gates and shall be at least six inches above grade to allow for wildlife passage.

Special Conditions:

NO SPECIAL CONDITIONS



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D. Findings Under Municipal Wetlands Bylaw or Ordinance

1. Is a municipal wetlands bylaw or ordinance applicable? Yes No

2. The Conservation Commission hereby (check one that applies):

a. DENIES the proposed work which cannot be conditioned to meet the standards set forth in a municipal ordinance or bylaw specifically:

1. Municipal Ordinance or Bylaw _____

2. Citation _____

Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides measures which are adequate to meet these standards, and a final Order or Conditions is issued. Which are necessary to comply with a municipal ordinance or bylaw:

b. APPROVES the proposed work, subject to the following additional conditions.

1. Municipal Ordinance or Bylaw _____

2. Citation _____

3. The Commission orders that all work shall be performed in accordance with the following conditions and with the Notice of Intent referenced above. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, the conditions shall control.

The special conditions relating to municipal ordinance or bylaw are as follows:



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E. Signatures

This Order is valid for three years from the date of issuance, unless otherwise specified pursuant to General Condition #4. If this is an Amended Order of Conditions, the Amended Order expires on the same date as the original Order of Conditions.

8/27/2024
1. Date of Original Order

Please indicate the number of members who will sign this form. This Order must be signed by a majority of the Conservation Commission.

4
2. Number of Signers

The Order must be mailed by certified mail (return receipt requested) or hand delivered to the applicant. A copy also must be mailed or hand delivered at the same time to the appropriate Department of Environmental Protection Regional Office, if not filing electronically, and the property owner, if different from applicant.

Signatures:

by hand delivery on _____

by certified mail, return receipt requested, on _____

Date

Date

F. Appeals

The applicant, the owner, any person aggrieved by this Order, any owner of land abutting the land subject to this Order, or any ten residents of the city or town in which such land is located, are hereby notified of their right to request the appropriate MassDEP Regional Office to issue a Superseding Order of Conditions. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and a completed Request for Departmental Action Fee Transmittal Form, as provided in 310 CMR 10.03(7) within ten business days from the date of issuance of this Order. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant, if he/she is not the appellant.

Any appellants seeking to appeal the Department's Superseding Order associated with this appeal will be required to demonstrate prior participation in the review of this project. Previous participation in the permit proceeding means the submission of written information to the Conservation Commission prior to the close of the public hearing, requesting a Superseding Order, or providing written information to the Department prior to issuance of a Superseding Order.

The request shall state clearly and concisely the objections to the Order which is being appealed and how the Order does not contribute to the protection of the interests identified in the Massachusetts Wetlands Protection Act (M.G.L. c. 131, § 40), and is inconsistent with the wetlands regulations (310 CMR 10.00). To the extent that the Order is based on a municipal ordinance or bylaw, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no appellate jurisdiction.

G. Recording Information

This Order of Conditions must be recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land subject to the Order. In the case of registered land, this Order shall also be noted on the Land Court Certificate of Title of the owner of the land subject to the Order of Conditions. The recording information on this page shall be submitted to the Conservation Commission listed below.

CUMMINGTON



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Conservation Commission

Detach on dotted line, have stamped by the Registry of Deeds and submit to the Conservation Commission.

To:

CUMMINGTON

Conservation Commission

Please be advised that the Order of Conditions for the Project at:

STAGE ROAD OVER NORTH BRANCH SWIFT RIVER

Project Location

139-0064

MassDEP File Number

Has been recorded at the Registry of Deeds of:

_____ County	_____ Book	_____ Page
-----------------	---------------	---------------

for:

Property Owner BILL ADAMS

and has been noted in the chain of title of the affected property in:

_____ Book	_____ Page
---------------	---------------

In accordance with the Order of Conditions issued on:

Date

If recorded land, the instrument number identifying this transaction is:

Instrument Number

If registered land, the document number identifying this transaction is:

Document Number

Signature of Applicant

Rev. 4/1/2010



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Provided by MassDEP:

MassDEP File #

eDEP Transaction #

City/Town

E. Signatures

This Order is valid for three years, unless otherwise specified as a special condition pursuant to General Conditions #4, from the date of issuance.

Please indicate the number of members who will sign this form. This Order must be signed by a majority of the Conservation Commission.

The Order must be mailed by certified mail (return receipt requested) or hand delivered to the applicant. A copy also must be mailed or hand delivered at the same time to the appropriate Department of Environmental Protection Regional Office, if not filing electronically, and the property owner, if different from applicant.

1. Date of Issuance

2. Number of Signers

Signature *John A. Riley*
 Signature *Nathan K. Buckhout*
 Signature *Lucille A. Fandel*
 Signature *Robert B. Arbib*
 Signature *John B. E.*
 Signature
 Signature
 Signature

Printed Name *Leah A. Riley*
 Printed Name *Nathan K Buckhout*
 Printed Name *Lucille A. Fandel*
 Printed Name *ROBERT B ARBIB*
 Printed Name *John B. E.*
 Printed Name
 Printed Name
 Printed Name

by hand delivery on

by certified mail, return receipt requested, on

Date

Date

ATTACHMENT D
US ARMY CORP OF ENGINEERS GENERAL PERMIT

(Notification will be sent via Addendum when received)

**TOWN OF CUMMINGTON
BRIDGE #C-21-005 – STAGE ROAD OVER SWIFT RIVER
FRCOG IFB 2025-2153**

GENERAL INSTRUCTIONS TO BIDDERS

1. All bids must contain a filled out and signed BID FORM. Minor defects on a bid submittal may be waived by the Chief Procurement Officer (CPO) as long as the error or variation is not prejudicial or preferential to the other bidders and that it may be corrected without affect upon substantive elements of the bid such as, but not limited to, price, quality, payment terms or delivery schedule. Resolution will be determined by the CPO.
2. Bids which are incomplete, not properly endorsed or signed, or otherwise contrary to instructions may be rejected as non-responsive by the CPO. Conditional bids will not be accepted. Any bid arriving after the time and date of bid opening will not be accepted.
3. As the TOWN OF CUMMINGTON is exempt from the payment of Federal Excise Taxes and Massachusetts Sales Tax, prices quoted herein are not to include these taxes.
4. A bidder will be held to the terms and the prices on the bid form for the duration of the contract period if a contract is signed by both parties within 30 days from bid opening.
5. The TOWN reserves the right to reject any and all bids, in total or in part.
6. The selected contractor will be bound by all applicable statutory provisions of law of the Federal Government and the Commonwealth of Massachusetts.
7. The contractor will be required to indemnify and hold harmless the TOWN OF CUMMINGTON for all damages to life and property that may occur due to contractor's negligence or that of his/her employees, subcontractors, etc., during the contract.
8. If in the judgment of the TOWN OF CUMMINGTON, any property is needlessly damaged by an act or omission of the contractor, the amount of damages will be deducted from money due the contractor or may be recovered from said contractor in legal action.
9. Any restrictions, qualifications, or deviations from specifications must appear either on the bid form or on an attachment thereto.
10. A contract (or contracts) will be signed between the awarded bidder(s) and the TOWN OF CUMMINGTON. **A sample contract is attached.** Any provisions of the contract that cannot be met by a prospective bidder must be brought to the attention of the FRCOG during the open question period, otherwise submittal of a bid constitutes acceptance of the Town's standard terms and conditions.
11. Once bids are opened, the FRCOG will forward the information to the Town and their Engineer for review.
12. The contract(s) resulting from this bid will be awarded to the lowest responsible and responsive bidder based upon bid price, past performance and reliability of the bidder, quality of product and/or service, and degree of exclusion, exemption, or restrictions on the bid form. In the event of identical and responsible low bids, a coin toss overseen by the CPO will determine the award. Responsibility may be determined in part by reference checks. **A list of all projects done or in process for Municipalities in Massachusetts for Bridges/Culverts in the last two years is required with the bid submission.**
13. Any questions about the technical specifications of the project or the bid process must be directed to FRCOG via written question (email ebatchelder@frcog.org and all prospective bidders will be notified if an addendum is required.

14. The FRCOG will in no way be responsible for the actions of the TOWN. Payment of invoices will be made within 30 days upon receipt of invoice by the TOWN.
15. FRCOG will be available to answer any general questions about bid procedure, etc., but no question will be answered that in any way could give an unfair advantage to a bidder. All inquiries concerning this bid should be directed to:

Ellen Batchelder, Assistant Procurement Officer
Franklin Regional Council of Governments
12 Olive Street, Suite 2
Greenfield, MA 01301
EMAIL ebatchelder@frcog.org

16. Police or Flagging Detail will be the responsibility of the CONTRACTOR. See Special Provisions/Technical Specifications.
17. The FRCOG and the TOWN OF CUMMINGTON do not discriminate on the basis of disability with respect to admission to, access to, or operation of its programs, services or activities. Individuals who may need auxiliary aids should call the Council office.
18. Awards will be based on the estimated quantities provided times the price submitted. The responsive and responsible contractor whose total is lowest for the combination of all items will be awarded unless the Town has a legitimate reason to not award to that particular vendor per MGL Ch30 §39M.
19. The project is being funded by Grant and Town Funds which have been appropriated. If funding is unavailable, the project could be cancelled.
20. **OSHA Certification is Required**

All contractors working on public works projects will be required to certify that ALL employees employed at the work site have successfully completed an OSHA approved course in construction safety at least 10 hours in duration. This law requires general contractors to have on file records of all employees OSHA 10- hour training and provide proof to the various agencies in charge of the work. This also applies to all subcontractors, hired trucks, and hired equipment with operators. Every bidder must certify that all persons who are employed by them for this bid are certified. Proof does not have to be submitted with this bid but must be available upon request.

21 Contract execution will be conditioned upon producing:

An insurance certificate as outlined on the INSURANCE REQUIREMENTS page and a 50% Labor and Materials Payment Bond.

Failure or refusal of the successful bidder to execute and deliver a Signed Contract, Certificate of Insurance, and Labor and Materials Bond acceptable to the Chief Procurement Officer within five days after notice of contract award will result in the forfeiture of the Bid Bond as Liquidated Damages. The Contract may be awarded to the next lowest qualified bidder or the IFB re-advertised, if the Town believes it is in the best public interest.

22.

INSURANCE REQUIREMENTS

The Contractor shall at all times during the Contract maintain in full force and effect Employer's Liability, Worker's Compensation, Bodily Injury Liability and Property Damage, and General Liability Insurance, including contractual liability coverage. All insurance shall be by insurers and for policy limits acceptable to the Council and before commencement of work hereunder the Contractor agrees to furnish the Council certificates of insurance or other evidence satisfactory to the Council to the effect that such insurance has been procured and is in force.

For the purpose of the Contract, the Contractor shall carry the following types of insurance in at least the minimum amounts specified below:

COVERAGE LIMITS OF LIABILITY

Workers' Compensation	Statutory
Employers' Liability	\$500,000
Bodily Injury Liability (except automobile)	\$1,000,000 each occurrence \$2,000,000 aggregate
Property Damage Liability (except automobile)	\$1,000,000 each occurrence \$2,000,000 aggregate
Automobile Bodily Injury Liability	\$1,000,000 each person \$2,000,000 each occurrence
Automobile Property Damage Liability	\$1,000,000 each occurrence
Excess Umbrella Liability	\$2,000,000 each occurrence
Contractor's Pollution Liability	\$1,000,000 each occurrence \$3,000,000 aggregate

Contractor's Pollution Liability: The Contractor shall purchase and maintain coverage for bodily injury and property damage resulting from liability arising out of pollution related exposures such as asbestos abatement, lead paint abatement, tank removal, removal of contaminated soil, etc. The policy shall cover the liability of the Contractor during the process of removal, storage, transport and disposal of hazardous waste and contaminated soil and/or asbestos abatement. The policy shall coverage for on-site and off-site bodily injury and loss of, damage to, or loss of use of property, directly or indirectly arising out of the discharge, dispersal, release or escape of smoke, vapors, soot, fumes, acids, alkalis, toxic chemicals, liquids or gas, waste materials or other irritants, contaminants or pollutants into or upon the land, the atmosphere or any water course or body of water, whether it be gradual or sudden and accidental. The policy shall also include defense and clean-up costs. The Town shall be named as an additional insured.

The TOWN OF CUMMINGTON shall be named as an additional insured under the liability and automobile insurance. The excess/umbrella liability insurance policy should contain a broad form general liability endorsement.

Checklist of Required Signed Bid Documents:

- Bid Form
- Bid Signature Page with Corporate Resolution or List of Partners if applicable
- 5% Bid Bond
- References (Please list all Massachusetts municipal Bridge/Culvert Projects completed or in process in the last two years with contact information)

SUBMIT ONE ORIGINAL AND ONE COPY OF THE BID

FORM FOR GENERAL BID – Page 1 of 3
TOWN OF CUMMINGTON – BRIDGE #C-21-005 STAGE ROAD OVER SWIFT RIVER
FRCOG IFB 2025-2153

To the Town of CUMMINGTON, Massachusetts, (hereinafter called the "Owner") acting through its Selectboard, duly authorized therefore, who act solely for said Town and without personal liability to themselves:

Ladies/Gentlemen:

The undersigned _____, as bidder, declares that the only persons or parties interested in this bid as principals are those named herein; that the bidder has carefully examined the proposed form of Proposal and the Specifications (and amendments thereto); and he/she bids and agrees, if this bid is accepted, that the bidder will furnish all materials and labor necessary for the completion of the Work as specified in the Proposal, in the manner and time therein prescribed and according to the requirements of Owner as herein set forth.

The Bidder agrees that the Owner will have forty (40) consecutive days from date of opening to accept the bid, except as described in the specifications, the unit(s) at the price, therein. The Bidder also understands that the Owner reserves the right to accept or reject any or all bids and to waive any informalities in the Proposals if it is in the Owner's interest to do so. The Advertisement for Bidders, Information for Bidders, Specifications and Bid Form attached thereto, shall become a contract upon the receipt by the Bidder of written acceptance of this bid by the Owner.

I/We hereby agree to provide services for which we have provided pricing in accordance with the specifications in the bid and MassDOT, Mass DEP and Army Corps of Engineers standards, where appropriate, and agree to the standard terms and conditions of the sample contract attached.

Pursuant to M.G.L. Ch. 62C, Sec. 49A, I certify under the penalties of perjury that, to the best of my knowledge and belief, I am in **compliance with all laws of the Commonwealth relating to taxes**, reporting of employees and contractors, and withholding and remitting child support.

The undersigned certifies under penalties of perjury that this bid has been made and submitted in good faith and **without collusion or fraud** with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals.

The undersigned certifies under penalties of perjury that the said undersigned is **not presently debarred** from doing public construction work in the Commonwealth of Massachusetts under the provisions of Section 29F of Chapter 29 of the General Laws, or any other applicable debarment provisions of any other Chapter of the General Laws, or any Rule or Regulation promulgated thereunder.

I hereby certify that all of our employees who will be employed at the work site have successfully passed the **OSHA approved 10-hour safety course**, and we have proof on file. I also certify that I am able to furnish labor that can work in harmony with all other elements of labor employed or to be employed in the work.


The BIDDER acknowledges receipt of the following addenda:

- No. _____, dated _____, 2025
- No. _____, dated _____, 2025
- No. _____, dated _____, 2025
- No. _____, dated _____, 2025

ITEM	QUANTITY	UNITS	DESCRIPTION	UNIT PRICE	EXTENDED
102.	0.05	A	Selective Clearing and Thinning		\$
115.1	1	LS	Demolition of Bridge No. C21005		\$
140.	2651	CY	Bridge Excavation		\$
151.	108	CY	Gravel Borrow		\$
170.	318	SY	Fine Grading and Compacting - Subgrade Area		\$
281.6	192	CY	Natural Streambed Material		\$
460.22	35	TON	Superpave Surface Course - 9.5 (SSC -9.5)		\$
460.31	53	TON	Superpave Intermediate Course - 12.5 (SIC -12.5)		\$
452.	29	GAL	Asphalt Emulsion for Tack Coat		\$
504.	46	FT	Granite Curb Type VA4 - Straight		\$
509.	26	FT	Granite Transition Curb for Pedestrian Curb Ramps - Straight		\$
594.	176	FT	Curb Removed And Discarded		\$
620.12	161	FT	Guardrail, TL-2 (Single Faced)		\$
620.131	150	FT	Guardrail, Deep Post (Single Faced)		\$
627.1	3	EA	Trailing Anchorage		\$
628.25	4	EA	Transition to Thrie Beam		\$
630.2	440	FT	Highway Guardrail Removed and Discarded		\$
657.	400	FT	Temporary Fence		\$
698.3	6	SY	Geotextile for Separation		\$
751.7	8	CY	Compost Blanket		\$
765.	264	SY	Seeding		\$
767.121	471	FT	Sediment Control Barrier		\$
769.	401	FT	Pavement Milling Mulch Under Guard Rail		\$
852.	198	SF	Safety Signing for Traffic Management		\$
853.1	6	EA	Portable Breakaway Barricade Type III		\$
853.21	90	FT	Temporary Barrier Removed and Reset		\$
859.	1080	DAY	Reflectorized Drum		\$
986.	79	TON	Modified Rockfill		\$
991.1	1	LS	Control of Water - Structure No. C21005		\$
995.01	1	LS	Bridge Structure, Bridge No. C21005		\$
996.4	1	LS	Geosynthetic Reinforced Soil-Integrated Bridge System		\$
			ALLOWANCES		
999.001	1	LS	Traffic Police - Allowance	1,000.00	\$ 1,000.00
999.300	1	LS	Materials Inspection, Sampling, and Testing Services	20,000.00	\$ 20,000.00
			TOTAL CONSTRUCTION BID WITH ALLOWANCES	\$	

FORM FOR GENERAL BID, Page 3 of 3, CONTINUED: _____ Bidder's Name

TOTAL CONSTRUCTION BID IN WORDS: _____

Authorized Signature  _____ Printed Name _____

Title _____ Company Name _____

Company Address _____

City/State/Zip _____

Phone _____ Email _____

Date _____

The Office of the Attorney General, Washington, DC, requires the following information on all bid proposals amounting to \$1,000.00 or more:

_____ Federal Tax ID Number (this number is regularly used by companies when filing their "EMPLOYER'S FEDERAL TAX RETURN, U.S." Treasury Department Form 941

*IF A CORPORATION, INCLUDE WITH YOUR BID A CORPORATE RESOLUTION LISTING ALL DULY AUTHORIZED SIGNERS ON BEHALF OF THE CORPORATION AND CHECK HERE

*IF A LIMITED LIABILITY CORPORATION (LLC), INCLUDE THE NAME OF THE LLC MANAGER AND CHECK THE APPROPRIATE CLASSIFICATION OF LLC

Circle tax classification: D (disregarded entity) C (corporation) or P (partnership)

_____ LLC MANAGER NAME

*IF A PARTNERSHIP, INCLUDE A LIST OF NAMES/ADDRESSES OF ALL PARTNERS AND CHECK HERE (add additional page if necessary)

_____ NAME
_____ NAME
_____ NAME
_____ NAME

*IF A PROPRIETORSHIP, COMPLETELY FILL OUT INFORMATION ON BID FORM ONLY AND CHECK HERE

ATTACHMENT E - SAMPLE AGREEMENT

TOWN OF CUMMINGTON
BRIDGE #C-21-005 – STAGE ROAD OVER SWIFT RIVER

THIS AGREEMENT made this ____ day of _____, 2025 between **CONTRACTOR** with a usual place of business at **ADDRESS AND PHONE**, hereinafter called the CONTRACTOR, and the **TOWN of CUMMINGTON** acting by its SELECTBOARD, with a usual place of business at **33 MAIN STREET, CUMMINGTON, MA , TEL 413-634-5354** (hereinafter called the OWNER).

The CONTRACTOR and the OWNER, for the consideration hereinafter named, agree as follows:

1. Scope of Work

The Contractor shall furnish all labor, materials, equipment and insurance to perform all work required for the project known as the **BRIDGE #C-21-005 STAGE ROAD OVER SWIFT** Project, in strict accordance with the Contract Documents and all related Drawings and Specifications including the Order of Conditions. The Contract Documents (Section 11, herein), Specifications, Drawings and any GENERAL SUPPLEMENTARY CONDITIONS are incorporated herein by reference and are made a part of this Agreement.

2. Contract Price

The Owner shall pay the Contractor for the performance of this Agreement, subject to additions and deductions provided herein, in current funds, the sum of **\$xxxx (xxxxDOLLARS and xxxCENTS)**.

3. Commencement and Completion of Work and Liquidated Damages

It is agreed that time is of the essence of this Agreement. The Contractor shall commence and prosecute the work under this Agreement upon execution hereof and shall complete the work on or before 12/15//2025.

- A. Definition of Term: The Term "Substantial completion" shall mean the date certified by the Owner when construction is sufficiently complete, in accordance with the Contract Documents, so the Owner may occupy the project, or designated portion(s) thereof, for the use for which it is intended.
- B. Time as Essential Condition: It is understood and agreed that the commencement of and substantial completion of the work are essential conditions of this Agreement. It is further agreed that time is of the essence for each and every portion of the Contract Documents wherein a definite and certain length of time is fixed for the performance of any act whatsoever; and where under the Contract Documents any additional time is allowed for the completion of any work, the new time fixed by such extension shall be of the essence of this Agreement. It is understood and agreed that the times for the completion of the work are reasonable, taking into consideration the average climatic range and usual industrial conditions prevailing in this locality.

C. Progress and Completion: Contractor shall commence work promptly upon execution of this Agreement and shall prosecute and complete the work regularly, diligently and uninterruptedly at such a rate of progress as will insure Substantial Completion within the stipulated number of calendar days.

D. Liquidated Damages: N/A

4. Performance of the Work

A. Direction of the Work: The Contractor shall supervise and direct the Work, using his best skills and attention which shall not be less than such state of skill and attention generally rendered by the contracting profession for projects similar to the Project in scope, difficulty and location. The Contractor shall maintain adequate supervisory personnel at the project site during the performance of the Work. He shall be solely responsible for all construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Work under the Agreement.

B. Responsibility for the Work: (1) The Contractor shall be responsible to the Owner for the acts and omissions of his employees, Subcontractors and their agents and employees, and other persons performing any of the Work under a contract with the Contractor. This obligation shall also extend to the presence on the Site of suppliers of materials or equipment, their employees, contractors, and agents engaged in the work.

(2) The Contractor shall not be relieved from his obligations to perform the Work in accordance with the Contract Documents either by the activities or duties of the Owner in its administration of the Agreement, or by inspections, tests or approvals required or performed by persons other than the Contractor. Approval or review of any documents, plans, specifications, or drawings by the Owner shall not relieve the Contractor of its duties and obligations hereunder.

C. Permits and Fees: Unless otherwise expressly provided, the Contractor shall secure and pay for all permits and fees, licenses and inspections necessary for the proper execution and completion of the Work which are customarily secured after execution of the Agreement and which are legally required at the time the bids are received, and the same shall at all times be the property of the Owner and shall be delivered to the Owner upon completion of the Project.

D. Notices, Compliance With Laws: (1) The Contractor shall give all notices and comply with all federal, state and local laws, ordinances, rules, regulations and lawful orders of any public authority bearing on the performance of the Work. The Contractor shall provide the Owner with reproductions of all permits, licenses and receipts for any fees paid. The Owner represents that it has disclosed to the Contractor all orders and requirements known to the Owner of any public authority particular to this Agreement.

(2) If the Contractor observes that any of the Contract Documents are at variance with applicable laws, statutes, codes and regulations in any respect, he shall promptly notify the Owner in writing, and any necessary changes shall be accomplished by appropriate modification.

(3) If the Contractor performs any Work which he knows or should know is contrary to such laws, ordinances, rules and regulations, and without such notice to the Owner, he shall assume full responsibility therefor and shall bear all costs attributable thereto.

(4) In the performance of the Work, the Contractor shall comply with all applicable federal, state and local laws and regulations including those relating to workplace and employee safety. The Contractor shall notify the Owner immediately of any conditions at the place of the work which violate said laws and regulations and shall take prompt action to correct and eliminate any such violations.

E. Project Superintendent: The Contractor shall employ a competent superintendent and necessary assistants who shall be in attendance at the Project site at all times during the progress of the Work. The superintendent shall represent the Contractor and all communications given to the superintendent shall be as binding as if given to the Contractor. Important communications shall be confirmed in writing. Other communications shall be so confirmed on written request in each case.

F. Progress Schedule: The Contractor, immediately after being awarded the Contract, shall prepare and submit for the Owner's information an estimated progress schedule for the Work. The progress schedule shall be related to the entire Project to the extent required by the Contract Documents, and shall provide for expeditious and practicable execution of the Work.

G. Drawings, Specifications and Submittals:

(1) The Contractor shall maintain at the site for the Owner one record copy of all Drawings, Specifications, Addenda, Change Orders and other Modifications, and "As-Built" Drawings and Specifications in good order and marked currently to record all changes made during construction, and approved Shop Drawings, Product Data and Samples. These shall be delivered to the Owner upon completion of the Work.

(2) By approving and submitting Shop Drawings, Product Data and Samples, the Contractor represents that he has determined and verified all materials, field measurements, and field construction criteria related thereto, or will do so, and that he has checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents.

(3) The Contractor shall not be relieved of responsibility for any deviation from the requirements of the Contract Documents by the Owner's approval of Shop Drawings, Product Data or Samples unless the Contractor has specifically informed the Owner in writing of such deviation at the time of submission and the Owner has given written approval to the specific deviation. The Contractor shall not be relieved from responsibility for errors or omissions in the Shop Drawings, Product Data or Samples by the Owner's approval thereof.

(4) The Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data or Samples, to revisions other than those requested by the Owner on previous submittals.

(5) No portion of the Work requiring submission of a Shop Drawing, Product Data or Sample shall be commenced until the submittal has been approved by the Owner. All such portions of the Work shall be in accordance with approved submittals.

- H. **Protection of the Work and Owner's Property:** The Contractor shall at all times safely guard the Owner's property from injury or loss in connection with this Agreement. He shall at all times safely guard and protect his own work, and that of adjacent property from damage. The Contractor shall replace or make good any such damage, loss or injury. The Contractor shall clean the work area and restore it to its original condition upon completion of the work.
- I. **Quality of the Work:** The Contractor shall perform the work in a good, workmanlike manner. The Contractor hereby guarantees that the entire work constructed by him under the Agreement will meet fully all requirements thereof as to quality of workmanship and materials. The Contractor hereby agrees to make at his own expense any repairs or replacements made necessary by defects in materials or workmanship supplied to him that become evident within one (1) year after the date of the final payment, and to restore to full compliance with the requirements set forth herein any part of the work constructed hereunder, which during said one (1) year period is found to be deficient with respect to any provisions of the Contract Documents. The Contractor also agrees to hold the Owner harmless from claims of any kind arising from damage due to said defects. The Contractor shall make all repairs and replacements promptly upon receipt of written orders for same from the Owner. If the Contractor fails to make the repairs and replacements promptly, the Owner may do the work and the Contractor shall be liable to the Owner for the cost thereof.
- J. **Warranty:** The Contractor guarantees to Owner that all materials incorporated into the work will be new unless otherwise specified or agreed. Prior to final payment, the Contractor shall deliver to the Owner all manufacturers' warranties, together with such endorsements or assignments as are necessary to ensure to the Owner the full rights and benefits of such warranties.

5. **Affirmative Action/Equal Employment Opportunity/Workforce Participation**

The Contractor is directed to comply with all applicable Federal and State Laws, Ordinances, Bylaws, and rules and regulations regarding affirmative action, equal employment opportunity, and workforce participation goal requirements. Failure of the Contractor to comply with any such law, rule or regulation shall constitute grounds for the Owner to terminate the Agreement. The Contractor shall not discriminate against any person because of race, color, religious creed, national origin, gender, ancestry, sexual orientation, age, handicap, gender identity, genetic information, military service or any other protected class under the law.

See Attached CONTRACTOR CERTIFICATION and SUPPLEMENTAL EQUAL EMPLOYMENT OPPORTUNITY, NON-DISCRIMINATION AND AFFIRMATIVE ACTION PROGRAM

6. **Site Information Not Guaranteed; Contractor's Investigation**

All information given in the Contract Documents relating to subsurface and other conditions, natural phenomena, existing pipes, and other structures is from the best sources at present available to the Owner. All such information is furnished only for the information and convenience of the Contractor and is not guaranteed.

It is agreed and understood that the Owner does not warrant or guarantee that the subsurface or other conditions, natural phenomena, existing pipes, or other structures encountered during construction will be the same as those indicated in the Contract Documents.

Contractor has familiarized himself with the nature and extent of the Contract Documents, work, locality, and with all local conditions and federal, state, and local laws, rules, ordinances, and regulations that in any manner may affect costs, progress, or performance of the work. Contractor has made, or has caused to be made, examinations, investigations, and tests and studies of such reports and related data in addition to those referred to in the paragraph above as he deems necessary for the performance of the work at the Contract Price, within the Contract Time, and in accordance with the other Terms and Conditions of the Contract Documents; and no additional examinations, tests, investigations, reports, and similar data are or will be required by the Contractor for such purposes.

Contractor has correlated the results of all such observations, examinations, investigations, tests, reports, and data with the Contract Documents. Contractor has given the Owner written notice of all conflicts, errors, or discrepancies that he has discovered in the Contract Documents, and the resolution thereof by the Owner is acceptable to the Contractor.

It is further agreed and understood that the Contractor shall not use or be entitled to use any of the information made available to him or obtained in any examination made by him in any manner as a basis of or ground for any claim or demand against the Owner, arising from or by reason of any variance which may exist between the information made available and the actual subsurface conditions or other conditions or structures actually encountered during the construction work, except as may otherwise be expressly provided for in the Contract Documents.

7. Project Architect or Engineer

There is a project engineer for this project who is PETER GILL, PROJECT MANAGER; GILL ENGINEERING ASSOCIATES, NEEDHAM, MA. Except as otherwise indicated in the Contract Documents, the Engineer shall be a representative of the Owner and the Contractor shall direct all communications, questions and comments on the work and the performance thereof to the Engineer. Except as otherwise provided, the Engineer shall have all the authority of the Owner set forth in the Contract Documents. In general, the Engineer shall have the authority to review the performance of the work, reject work which is defective or otherwise does not comply with the Contract Documents and to order the Contractor to remedy defective work and take such actions which are necessary to make the work conform to the Contract Documents.

8. Wage Rates

Prevailing Wage Rates as determined by the Commissioner of the Department of Labor and Workforce Development under the provisions of Massachusetts General Laws, Chapter 149, Section 26 to 27G, as amended, apply to this project. It is the responsibility of the Contractor to provide the Town with certified payrolls and to comply with all requirements of the above-cited statutes.

The schedules of prevailing wage rates are included in the Contract Documents.

9. Payments to the Contractor

After receipt from the Contractor of a proper and satisfactory periodic estimate requesting payment of the amount due for the preceding month, the Owner shall apply for and receive reimbursement from the Grantor, after which time the Owner shall make payment for:

- A. The work performed during the preceding month.

- B. The materials not incorporated in the Work but delivered and suitably stored at the site (or at some location agreed upon in writing) to which the Contractor has title, or to which a Subcontractor has title and has authorized the Contractor to transfer title to the Owner.
- C. Less the following retention items:
1. A retention based on an estimate of the fair value of the Owner's claims against the Contractor.
 2. A retention for direct payments to Subcontractors, if any, based on demands for same in accordance with the provisions of Section 39F of Chapter 30 of the General Laws.
 3. A retention not exceeding five percent (5%) of the approved amount of the periodic payment.
- D. After the receipt of a periodic estimate requesting final payment and within thirty (30) days after the Contractor fully completes the Work, or substantially completes the Work so that the value of the Work remaining to be done is, on the estimate of the Owner, less than 1% of the original Contract Price, or substantially completes the Work and the Owner takes possession or occupancy, whichever occurs first, the Owner shall pay the Contractor the entire balance due on the Contract less:
1. A retention based on an estimate of the fair value of the Owner's claims against the Contractor and of the cost of completing the incomplete and unsatisfactory items of work.
 2. A retention for direct payments to Subcontractors, if any, based on demands of same in accordance with the provisions of Section 39F of Chapter 30 of the General Laws, or based on the record of payments by the Contractor to the Subcontractors under this Contract if such record of payment indicates that the Contractor has not paid Subcontractors as provided in Section 39F of Chapter 30 of the General Laws.

The Owner may make changes in any periodic estimate submitted by the Contractor and the payment due on said periodic estimate shall be computed in accordance with the changes so made, and such changes and any requirements for a corrected periodic estimate shall not affect the due date for the periodic payment or the date for the commencement of interest charges on the amount of the periodic payment computed in accordance with the changes made, as provided herein; provided further, that the Owner may, within fourteen (14) days after receipt, return to the Contractor for correction, any periodic estimate which is not in acceptable form or which contains computations not arithmetically correct, and in that event, the date of receipt of such periodic estimate shall be the date of receipt of the corrected periodic estimate in proper form and with arithmetically correct computations. The date of receipt of a periodic estimate received on a Saturday shall be the first working day thereafter.

- E. Changes in the Work: No changes in the work covered by the approved Contract Documents shall be made without prior written approval of the Owner. Charges or credits for the work covered by the approved change shall be determined by one or more, or a combination of the following methods:
- (a) Unit bid prices previously approved.

- (b) An agreed lump sum.
- (c) The actual cost of:
 - (1) Labor.
 - (2) Materials entering permanently into the work.
 - (3) The ownership or rental cost of construction equipment during the time of use on the extra work.
 - (4) Power and consumable supplies for the operation of power equipment.
 - (5) Wages to be paid.

To the cost under (c) there shall be added a fixed fee to be agreed upon but not to exceed fifteen percent (15%) of the actual cost of work. The fee shall be compensation to cover the cost of supervision, overhead, bond, profit and any other general expenses.

- F. Claims for Additional Costs: If the Contractor wishes to make a claim for an increase in the Contract Sum, he shall give the Owner written notice thereof within twenty days after the occurrence of the event giving rise to such claim. This notice shall be given by the Contractor before proceeding to execute the Work, except in an emergency endangering life or property. No such claim shall be valid unless so made. Any change in the Contract Sum resulting from such claim shall be authorized by Change Order.

The Contractor hereby agrees that the Contractor shall have no claim for damages of any kind against the Owner on account of any delay in the commencement or performance of the work and/or any hindrance, delay or suspension of any portion of the work including, but not limited to, any claims or damages on account of having to perform out of sequence work, claims for damages on account of loss of production or other interference with the work whether such delay is caused by the Owner or otherwise, except as and to the extent expressly provided under G.L. c.30, §390 in the case of written orders by the Owner. The Contractor acknowledges that the Contractor's sole remedy for any such claim will be an extension of time as provided herein.

10. Final Payment, Effect

The acceptance of final payment by the Contractor shall constitute a waiver of all claims by the Contractor arising under the Agreement.

11. Contract Documents

The Contract Documents consist of the following, together with this Agreement:

This Contract Form
Attachment A:
 Invitation to Bid
 Addenda

Instructions to Bidders
General Conditions
Engineer's Technical Specifications/SPECIAL PROVISIONS

Attachment B:
Contractor's Bid Submission
Clerk's Certificate of Corporate Vote

Attachment C:
Certified Payroll Reporting Forms
Schedule of Prevailing Wages

Under Separate Cover
Exhibit 1 - Engineer's Plans
Exhibit 2 – Geotechnical Report
Exhibit 3 – Hydraulic Report

Appendix B
Labor & Materials Payment Bond
Certificate of Insurance

12. Terms Required By Law

12.1 This contract will be construed and governed by the provisions of applicable federal, state and local laws and regulations; and wherever any provision of the contract or contract documents shall conflict with any provision or requirement of federal, state or local law or regulation, then the provisions of law and regulation shall control. Where applicable to the contract, the provisions of General Laws are incorporated by reference into this contract, including but not limited to the following:

General Laws Chapter 30B - Procurement of Goods and Services

General Laws Chapter 30, section 39 et. seq. - Public Works Contracts

12.2 Wherever applicable law mandates the inclusion of any term and/or provision into a municipal contract, this section shall be understood to import such term or provision into this contract. To whatever extent any provision of this contract shall be inconsistent with any law or regulation limiting the power or liability of cities and towns, such law or regulation shall control.

12.3 The Contractor shall give all notices and comply with all laws and regulations bearing on the performance of the contract. If the Contractor performs the contract in violation of any applicable law or regulation, the Contractor shall bear all costs arising therefrom.

12.4 The Contractor shall keep itself fully informed of all existing and future State and Federal Laws and Municipal By-laws and regulations and of all orders and decrees of any bodies or tribunals having jurisdiction in any manner affecting those engaged or employed in the work, of the materials used in the work or in any way affecting the conduct of the work, if any discrepancy or inconsistency is discovered in the Drawings, Specifications or Contract for this work in violation of any such law, by-law, regulation, order or decree, it shall forthwith report the same in writing to the Owner. It shall, at all times, itself observe and comply with

and shall cause all its agents, employees and subcontractors to observe and comply with all such existing and future laws, by-laws, regulations, orders and decrees; and shall protect and indemnify the Owner and its duly appointed agents against any claim or liability arising from or based on any violation whether by Contractor, its agents, employees or Subcontractors or any such law, by-law, regulation or decree.

13. Indemnification

a. The Contractor shall defend, indemnify, and hold harmless the Owner from and against any and all claims, damages, losses, and expenses, including attorney's fees, arising out of the performance of this Agreement when such claims, damages, losses, and expenses are caused, in whole or in part, by the acts, errors, or omissions of the Contractor or his employees, agents, subcontractors or representatives. Such obligation shall not negate, abridge, or reduce in any way any additional indemnification rights of the Owner, that otherwise may exist under statute or in law or equity.

b. Contractor assumes full responsibility for relations with any subcontractors employed directly or indirectly by the Contractor and the Contractor shall defend, indemnify, and save harmless the Owner from all demands made against the Owner by such subcontractor, such subcontractor's agent or employee, or any person, as the result of such subcontractor's work performed pursuant to this Agreement including but not limited to negligent acts, errors, or omissions that arise out of, result from, or are connected with the performance of this Agreement or any subsequent Agreement and is not otherwise subject to indemnifications under subparagraph "a" above.

c. The Contractor shall defend, indemnify, and hold harmless the Owner from any and all demands relating to wages, overtime compensation, or other employee benefits by employees employed directly or indirectly by the Contractor for work performed in connection with the work hereunder or required by state or federal law, including but not limited to **Fair Labor Standards Act and Massachusetts Prevailing Wage Law**.

d. The indemnification obligations of the Contractor shall not be limited in any way by any limitations on the amount or type of damages, compensations, or benefits payable by or for the Contractor under any federal or state law.

e. In the event of a breach of this Agreement by the Contractor, the Contractor shall pay the Owner all reasonable attorneys' fees, costs and other litigation expenses incurred by the Owner in enforcing its rights as a result of said breach in addition to any damages for said breach.

14. Insurance

The Contractor shall purchase and maintain such insurance as will protect both the Owner and the Contractor from claims which may arise under the Agreement, including operations performed for the named insured by independent contractors and general inspection thereof by the named insured. In addition, the Contractor shall require its subcontractors to maintain such insurance. Coverage shall be provided for:

- .1 claims under workers' or workmen's compensation, disability benefit and other applicable employee benefit acts;
- .2 claims for damages because of bodily injury, occupational sickness or disease, or death of Contractor's employees;

- .3 claims for damages because of bodily injury, sickness or disease, or death of any person other than Contractor's employees;
- .4 claims for damages insured by usual personal injury liability coverage which are sustained (1) by any person as a result of an offense directly or indirectly related to the employment of such person by the Contractor, or (2) by any other person;
- .5 claims for damages, including damages to the Work itself, because of injury to or destruction of tangible property, including loss of use resulting therefrom; and
- .6 claims for damages because of bodily injury or death of any person or property damage arising out of the ownership, maintenance or use of any motor vehicle.
- .7 claims involving contractual liability applicable to the Contractor's obligations under Article 13.

The Contractor shall, at all times during the Contract, maintain in full force and effect: Employer's Liability, Workers' Compensation, Public Liability and Property Damage Insurance, including contractual liability coverage for the provisions of Section 13.00 (INDEMNITY). All insurance shall be by insurers and for policy limits acceptable to Owner and, before commencement of work hereunder, the Contractor agrees to furnish Owner with certificates of insurance or other evidence satisfactory to Owner to the effect that such insurance has been procured and is in force.

For the purpose of the Contract, the Contractor shall carry the following types of insurance in at least the limits specified below:

COVERAGE LIMITS OF LIABILITY

Workers' Compensation	Statutory
Employers' Liability	\$500,000
Bodily Injury Liability (except automobile)	\$1,000,000 each occurrence \$2,000,000 aggregate
Property Damage Liability (except automobile)	\$1,000,000 each occurrence \$2,000,000 aggregate
Automobile Bodily Injury Liability	\$1,000,000 each person \$2,000,000 each occurrence
Automobile Property Damage Liability	\$1,000,000 each occurrence
Excess Umbrella Liability	\$2,000,000 each occurrence
Contractor's Pollution Liability	\$1,000,000 each occurrence \$3,000,000 aggregate

Contractor's Pollution Liability: The Contractor shall purchase and maintain coverage for bodily injury and property damage resulting from liability arising out of pollution related exposures such as asbestos

abatement, lead paint abatement, tank removal, removal of contaminated soil, etc. The policy shall cover the liability of the Contractor during the process of removal, storage, transport and disposal of hazardous waste and contaminated soil and/or asbestos abatement. The policy shall coverage for on-site and off-site bodily injury and loss of, damage to, or loss of use of property, directly or indirectly arising out of the discharge, dispersal, release or escape of smoke, vapors, soot, fumes, acids, alkalis, toxic chemicals, liquids or gas, waste materials or other irritants, contaminants or pollutants into or upon the land, the atmosphere or any water course or body of water, whether it be gradual or sudden and accidental. The policy shall also include defense and clean-up costs. The Town shall be named as an additional insured.

Town of CUMMINGTON shall be named as an additional insured under the liability and automobile insurance. The general liability insurance policy should contain a broad form general liability endorsement.

Except for Workmen's Compensation, all liability coverage shall name the Owner as an additional insured and shall provide for 30 days prior written notice to the Owner of any modification or termination of coverage provided thereby. The Contractor shall provide the Owner with appropriate certificate(s) of insurance evidencing compliance with this provision prior to the commencement of any work under this Agreement.

15. Notice

All notices required to be given hereunder shall be in writing and delivered to, or mailed first class to, the parties' respective addresses stated above. In the event that immediate notice is required, it may be given by telephone or EMAIL, but shall, to the extent possible, be followed by notice in writing in the manner set forth above.

16. Termination

- A. Each party shall have the right to terminate this Agreement in the event of a failure of the other party to comply with the terms of the Agreement. Such termination shall be effective upon seven days' notice to the party in default and the failure within that time of said party to cure its default.
- B. The Owner shall have the right to terminate the Agreement without cause, upon ten (10) days' written notice to the Contractor. In the event that the Agreement is terminated pursuant to this subparagraph, the Contractor shall be reimbursed in accordance with the Contract Documents for all satisfactory Work performed up to the termination date, and for all materials or equipment not incorporated in the Work, but delivered and suitably stored at the site. Payment for material or equipment stored at the site shall be conditioned upon submission by the Contractor of bills of sale or such other evidence as is satisfactory to Owner to establish the Owner's title to such material or equipment or otherwise protect the Owner's interests.

17. Miscellaneous

- A. ROYALTIES AND PATENTS: The Contractor shall pay all royalties and license fees. He shall defend all suits or claims for infringement of any patent rights and shall save the Owner harmless from loss on account thereof, except that the Owner shall be responsible for all such loss when a particular design, process or the product of a particular manufacturer or manufacturers is specified; but if the Contractor believes or has reason to believe that the design, process or product specified is an infringement of a patent, he shall be responsible for such loss unless he promptly gives such

information to the Owner, and thereafter the Owner insists on the use of the design, process or products specified.

B. ACCESS TO RECORDS

Contractor will make all books, accounts, data, records, reports, files and other papers, things or property, that relate to its activities under this Contract, available at all reasonable times for inspection, review and audit by the Owner, its authorized representative, the Inspector General of the Commonwealth, or the Auditor of the Commonwealth. The Commonwealth reserves the right of the Governor or his designee, the Secretary of Administration and Finance and the State Auditor or his designee, at reasonable times and upon reasonable notice to examine the books, records, and other compilative data of the Contractor which pertain to the performance of the provisions and requirements of this Contract as provided by Executive Order 195.

C. RIGHTS AND REMEDIES

Owner's rights and remedies provided in this Contract are in addition to any other rights and remedies provided by law.

D. CONFLICT OF INTEREST

Each party shall adhere to the provisions of Massachusetts General Laws, Chapter 268A, with respect to the Conduct of Public Employees. In addition, no member, officer, or employee of either party, or its designee, or agents, no member of the governing body of the locality in which the program is situated, and no other public official of such locality or localities who exercises any functions or responsibilities with respect to the program during his tenure or for one (1) year thereafter (or such longer period as may be provided in Chapter 268A of the Massachusetts General Laws), shall have any interest in any contract or subcontract, or the proceeds thereof, for work to be performed in connection with the program assisted under this Contract. Each party shall incorporate, or cause to be incorporated, in all such contracts or subcontracts a provision prohibiting such interest, pursuant to the purposes of this subsection.

E. JURISDICTION

This Contract shall be interpreted by the laws of the Commonwealth of Massachusetts and any suit brought pursuant to this Contract shall be commenced only within the County of Franklin, Massachusetts.

F. MODIFICATION, WAIVER OR CHANGE

No modifications, waiver or change shall be made in the terms and conditions of this Contract except as may be mutually agreed upon in writing by all parties hereto.

G. ASSIGNMENT

Owner and Contractor recognize that each has a substantial interest in having the other perform or control the acts required of it by this Contract. Neither party shall perform its duties through a delegate nor assign its interest under this Contract without the written consent of the other. Nothing herein shall be construed to prevent an assignor's due performance of its entire obligation.

H. SUCCESSORS AND ASSIGNS

Owner and Contractor each binds itself, its partners, successors, assigns, and legal representatives to the other party to this Contract and to the partners, successors, assigns and legal representatives of such other party with respect to all covenants of this Contract.

I. ENTIRE UNDERSTANDING

This Contract, together with the attachments hereto, represent the entire understanding of the parties, and neither party is relying upon any representation not contained herein.

J. SEVERABILITY/INTERPRETATION

In the event that any provision of this Contract shall be deemed invalid, unreasonable, or unenforceable by any court of competent jurisdiction, such provision shall be stricken from the Contract or modified so as to render it reasonable, and the remaining provisions of this Contract or the modified provision as provided above, shall continue in full force and effect and be binding upon the parties so long as such remaining or modified provisions reflect the intent of the parties as of the date of this Contract. Further, should this Contract omit any statutory or regulatory requirements which would otherwise render this Contract illegal, then this Contract shall be deemed amended to the minimum extent necessary to comply with said statutes or regulations.

For purposes of interpreting this Agreement in the context of a dispute over its terms or otherwise neither party shall be considered the drafter of this Agreement and neither party shall have any provision of this Agreement construed in its favor as a result of its role in drafting this Agreement or its bargaining power with respect to this Agreement, Consultant's Services, the Project, or otherwise.

K. OWNERSHIP OF DOCUMENTS

The parties agree that all documents created for the project by the Contractor shall belong to the Owner.

L. By its signature hereon, the Contractor certifies, under the pains and penalties of perjury, that it has complied with all laws of the Commonwealth of Massachusetts relating to taxes, reporting of employees and contractors, and withholding and remitting child support.

M. Compensation for any additional approved work or change orders is subject to the continued availability of funds.

[Remainder of page intentionally blank.]

AGREED:

TOWN OF CUMMINGTON, MASSACHUSETTS
(Owner)

By its SELECTBOARD

Authorized Signature

Printed Name

Date

CONTRACTOR: NAME

By _____

(Name)

(Title)

(Address)

(City and State and ZIP)

Email: _____

Date

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS: That we _____

_____ a _____
(Name of Contractor) (Corporation, Partnership, Joint Venture or Individual)

hereinafter called "Principal" and _____ of _____,
(Surety)

State of _____ hereinafter called the "Surety" and licensed by the State
(City and State)

Division of Insurance to do business under the laws of the Commonwealth of Massachusetts, are held and firmly bound to the Town of _____, _____, Massachusetts, hereinafter called "Owner", in the penal sum of _____ Dollars (\$_____) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that Whereas, the Principal entered into a certain contract with the Owner, dated the _____ day of _____, 20____, for the construction described as follows:

NOW, THEREFORE, if the Principal shall promptly make payment to all persons, firms, subcontractors, and corporations furnishing materials for or performing labor in the prosecution of the work provided for in such contract, and any authorized extension or modification thereof, including all amounts due for materials, lubricants, oil, gasoline, coal and coke, repairs on machinery, equipment and tools, consumed or used in connection with the construction of such work, and all insurance premiums on said work, and for all labor, performed in such work whether by subcontractor or otherwise, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said Surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the work to be performed thereunder or the specifications accompanying the same shall in any way affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of this contract or to the work or to the specifications.

When the Surety's obligation under this Bond arises, the Surety, at its sole expense and at the consent and election of the Owner, shall promptly take one of the following steps: (1) arrange for the Principal to make payment to subcontractors and suppliers; (2) make payments to all subcontractors and suppliers; or (3) reimburse the Owner, in a manner and at such time as the Owner shall decide, for all costs and expenses incurred by the Owner in reimbursing the subcontractors and suppliers. Surety will keep Owner reasonably informed of the progress, status and results of any investigation of any claim of the Owner.

If the Surety does not proceed as provided in this Bond with due diligence and all deliberate speed, the Surety shall be deemed to be in default of this Bond, and the Owner shall be entitled to enforce any remedy available to the Owner.

After the Surety's obligation under this Bond arises, the Surety is obligated, to the limit of the amounts of this Bond for all payments to subcontractors and suppliers.

Any proceeding, legal or equitable, under this Bond shall be instituted in any court of competent jurisdiction in the Commonwealth of Massachusetts.

The Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Construction Contract or to the work to be performed thereunder or the specifications accompanying the same shall in any way affect its obligation on this Bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Construction Contract or to the work or to the specifications.

PROVIDED, FURTHER, that no final settlement between the Owner and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in ____ () counterparts, each one of which shall be deemed an original, this the _____ day of _____, 20__.

ATTEST:

_____	By	_____ Surety
		_____ (Attorney-in-Fact)
		_____ (Address-Zip Code)
_____ (SEAL)		
Witness as to Surety		

_____ (Address-Zip Code)		

NOTE: Date of Bond must not be prior to date of Contract. If Contractor is a Partnership, all partners should execute Bond.

THE COMMONWEALTH OF MASSACHUSETTS

SUPPLEMENTAL EQUAL EMPLOYMENT OPPORTUNITY, NON-DISCRIMINATION
AND AFFIRMATIVE ACTION PROGRAM

ATTACHMENT

APPLIES TO ALL WORK REIMBURSED UNDER MASSACHUSETTS “CHAPTER 90” HIGHWAY
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 151B).

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 non-discrimination 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 any one 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

A bidder for a state construction contract or state assisted construction contract will not be eligible for award of the contract unless such bidder has submitted to the administering agency the following certification, which will be incorporated into the resulting contract:

CONTRACTOR'S CERTIFICATION

_____ certifies that they:

(Contractor Name)

- 1. Will not discriminate in their employment practices;
- 2. Intend to use the following listed construction trades in the work under the contract

_____ ; and

- 3. Will make good faith efforts to comply with the minority employee and women employee workforce participation ratio goals and specific affirmative action steps contained herein; and
- 4. Are in compliance with all applicable federal and state laws, rules, and regulations governing fair labor and employment practices; and
- 5. Will provide the provisions of the "Supplemental Equal Employment Opportunity, Non-Discrimination and Affirmative Action Program" to each and every subcontractor employed on the Project and will incorporate the terms of this Section into all subcontracts and work orders entered into on the Project.
- 6. Agree to comply with all provisions contained herein.

(Signature of authorized representative of Contractor)

Date

(Printed name of authorized representative of Contractor)

XI. Subcontractor Requirements

Prior to the award of any subcontract for a state construction contract or a state assisted construction contract, regardless of tier, the Prime or General Contractor shall provide all prospective subcontractors with a complete copy of this Section entitled "Supplemental Equal Employment Opportunity, Non-Discrimination and Affirmative Action Program" and will incorporate the provisions of this Section by reference 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 preceding paragraph.

ATTACHMENT F

PW NOTICE AND COMPLIANCE SCHEDULE

PREVAILING WAGE SCHEDULE



THE COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF LABOR
DIVISION OF OCCUPATIONAL SAFETY
PREVAILING WAGE PROGRAM
www.mass.gov/dos/pw

The Massachusetts Prevailing Wage Law
M.G.L. c. 149, §§26-27

NOTICE TO AWARDING AUTHORITIES

The enclosed wage schedule applies only to the specific project listed at the top of the schedule, and these rates will remain in effect for the duration of the project.

You should request an updated wage schedule from the Division of Occupational Safety if you have not opened bids or selected a contractor within 90 days of the date of issuance of the enclosed wage schedule.

The wage schedule shall be incorporated in any advertisement or call for bids for the project for which it has been issued.

Once a contractor has been selected by the awarding authority, the wage schedule shall be made a part of the contract for that project.

NOTICE TO CONTRACTORS

The enclosed wage schedule must be posted in a conspicuous place at the work site during the life of the project.

The wages listed on the enclosed wage schedule must be paid to employees on public works projects regardless of whether they are employed by the prime contractor, a filed sub-bidder, or any sub-contractor.

The enclosed wage schedule applies to all phases of the project, including the final clean-up. Contractors whose only role is to perform final clean-up must pay their employees according to this wage schedule.

All apprentices must be registered with the Massachusetts Division of Apprenticeship Training (DAT) in order to be paid at the lower apprentice rates. All apprentices must keep his/her apprentice identification card on his/her person during all work hours. If a worker is not registered with DAT, they must be paid the "total rate" listed on the wage schedule regardless of experience or skill level. For further information, please call 617-626-5409, or write to DAT, 19 Staniford Street, Floor 1, P.O. Box 146759, Boston, MA 02114.

**WEEKLY PAYROLL RECORDS REPORT
& STATEMENT OF COMPLIANCE**

In accordance with Massachusetts General Law c. 149, §27B, a true and accurate record must be kept of all persons employed on the public works project for which the enclosed rates have been provided. A Payroll Form has been printed on the reverse of this page and includes all the information required to be kept by law. Every contractor or subcontractor is required to keep these records and preserve them for a period of three years from the date of completion of the contract.

In addition, every contractor and subcontractor is required to submit a copy of their weekly payroll records to the awarding authority. This is required to be done on a weekly basis. Once collected, the awarding authority is also required to preserve those records for three years from the date of completion of the project.

Each such contractor or subcontractor shall furnish to the awarding authority directly within 15 days after completion of its portion of the work, a statement, executed by the contractor, subcontractor or by any authorized officer thereof who supervised the payment of wages, this form.

STATEMENT OF COMPLIANCE

_____, 20_____

I, _____, _____
(Name of signatory party) (Title)

do hereby state:

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

_____ on the _____
(Contractor, subcontractor or public body) (Building or project)

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 _____

MASSACHUSETTS WEEKLY CERTIFIED PAYROLL REPORT FORM



Company's Name:	Address:	Phone No.:	Payroll No.:
Employer's Signature:	Title:	Contract No:	Tax Payer ID Number
Awarding Authority's Name:	Public Works Project Name:	Public Works Project Location:	Min. Wage Rate Sheet Number

General / Prime Contractor's Name:		Subcontractor's Name:		"Employer" Hourly Fringe Benefit Contributions															
Employee Name & Complete Address	Work Classification:	Employee is OSHA 10 certified (?)	Appr. Rate (%)	Hours Worked							Project Hours (A) All Other Hours	Hourly Base Wage (B)	Health & Welfare Insurance (C)	ERISA Pension Plan (D)	Supp. Unemp. (E)	Total Hourly Prev. Wage (F)	(B+C+D+E)	(A x F)	Check No. (H)
				Su.	Mo.	Tu.	We.	Th.	Fr.	Sa.							Total Gross Wages		

Are all apprentice employees identified above currently registered with the MA DLS's Division of Apprentice Standards? YES NO

For all apprentices performing work during the reporting period, attach a copy of the apprentice identification card issued by the Massachusetts Department of Labor Standards / Division of Apprentice Standards. No apprentices are identified above

NOTE: Pursuant to MGL c. 149, s. 27B, every contractor and subcontractor is required to submit a **true and accurate** copy of their certified weekly payroll records to the awarding authority by first-class mail or e-mail. In addition, each weekly payroll must be accompanied by a statement of compliance signed by the employer. Failure to comply may result in the commencement of a criminal action or the issuance of a civil citation.



MAURA HEALEY
Governor

KIM DRISCOLL
Lt. Governor

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

Prevailing Wage Rates

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: Town of Cummington

Contract Number:

City/Town: CUMMINGTON

Description of Work: The work includes complete replacement of existing corrugated steel pipe culvert with a proposed integrated bridge system substructure. Also temp water control, stream channel restoration and paving.

Job Location: Stage Road over Swift River, Cummington, MA

Information about Prevailing Wage Schedules for Awarding Authorities and Contractors

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

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
Construction						
(2 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2024	\$39.95	\$15.07	\$20.17	\$0.00	\$75.19
	01/01/2025	\$39.95	\$15.57	\$20.17	\$0.00	\$75.69
	06/01/2025	\$40.95	\$15.57	\$20.17	\$0.00	\$76.69
	12/01/2025	\$40.95	\$15.57	\$21.78	\$0.00	\$78.30
	01/01/2026	\$40.95	\$16.17	\$21.78	\$0.00	\$78.90
	06/01/2026	\$41.95	\$16.17	\$21.78	\$0.00	\$79.90
	12/01/2026	\$41.95	\$16.17	\$23.52	\$0.00	\$81.64
	01/01/2027	\$41.95	\$16.77	\$23.52	\$0.00	\$82.24
(3 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2024	\$40.02	\$15.07	\$20.17	\$0.00	\$75.26
	01/01/2025	\$40.02	\$15.57	\$20.17	\$0.00	\$75.76
	06/01/2025	\$41.02	\$15.57	\$20.17	\$0.00	\$76.76
	12/01/2025	\$41.02	\$15.57	\$21.78	\$0.00	\$78.37
	01/01/2026	\$41.02	\$16.17	\$21.78	\$0.00	\$78.97
	06/01/2026	\$42.02	\$16.17	\$21.78	\$0.00	\$79.97
	12/01/2026	\$42.02	\$16.17	\$23.52	\$0.00	\$81.71
	01/01/2027	\$42.02	\$16.77	\$23.52	\$0.00	\$82.31
(4 & 5 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2024	\$40.14	\$15.07	\$20.17	\$0.00	\$75.38
	01/01/2025	\$40.14	\$15.57	\$20.17	\$0.00	\$75.88
	06/01/2025	\$41.14	\$15.57	\$20.17	\$0.00	\$76.88
	12/01/2025	\$41.14	\$15.57	\$21.78	\$0.00	\$78.49
	01/01/2026	\$41.14	\$16.17	\$21.78	\$0.00	\$79.09
	06/01/2026	\$42.14	\$16.17	\$21.78	\$0.00	\$80.09
	12/01/2026	\$42.14	\$16.17	\$23.52	\$0.00	\$81.83
	01/01/2027	\$42.14	\$16.77	\$23.52	\$0.00	\$82.43
ADS/SUBMERSIBLE PILOT <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2024	\$117.16	\$10.08	\$24.29	\$0.00	\$151.53
For apprentice rates see "Apprentice- PILE DRIVER"						
AIR TRACK OPERATOR <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2024	\$32.79	\$9.65	\$14.53	\$0.00	\$56.97
For apprentice rates see "Apprentice- LABORER"						
AIR TRACK OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 4 (HEAVY & HIGHWAY)</i>	12/01/2024	\$35.24	\$9.65	\$15.60	\$0.00	\$60.49
	06/01/2025	\$36.48	\$9.65	\$15.60	\$0.00	\$61.73
	12/01/2025	\$37.71	\$9.65	\$15.60	\$0.00	\$62.96
	06/01/2026	\$39.75	\$9.65	\$15.60	\$0.00	\$65.00
	12/01/2026	\$41.04	\$9.65	\$15.60	\$0.00	\$66.29
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
ASBESTOS WORKER (PIPES & TANKS) <i>HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)</i>	12/01/2024	\$38.52	\$14.50	\$10.55	\$0.00	\$63.57
	06/01/2025	\$39.42	\$14.50	\$10.55	\$0.00	\$64.47
	12/01/2025	\$40.32	\$14.50	\$10.55	\$0.00	\$65.37
ASPHALT RAKER <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2024	\$32.29	\$9.65	\$14.53	\$0.00	\$56.47
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
ASPHALT RAKER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 4 (HEAVY & HIGHWAY)</i>	12/01/2024	\$34.74	\$9.65	\$15.60	\$0.00	\$59.99
	06/01/2025	\$35.98	\$9.65	\$15.60	\$0.00	\$61.23
	12/01/2025	\$37.21	\$9.65	\$15.60	\$0.00	\$62.46
	06/01/2026	\$39.25	\$9.65	\$15.60	\$0.00	\$64.50
	12/01/2026	\$40.54	\$9.65	\$15.60	\$0.00	\$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
AUTOMATIC GRADER-EXCAVATOR (RECLAIMER) <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2023	\$39.56	\$13.78	\$15.15	\$0.00	\$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BACKHOE/FRONT-END LOADER OPERATOR <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2023	\$39.56	\$13.78	\$15.15	\$0.00	\$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BARCO-TYPE JUMPING TAMPER <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2024	\$32.29	\$9.65	\$14.53	\$0.00	\$56.47
For apprentice rates see "Apprentice- LABORER"						
BATCH/CEMENT PLANT - ON SITE <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2023	\$39.03	\$13.78	\$15.15	\$0.00	\$67.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BLOCK PAVER, RAMMER / CURB SETTER <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2024	\$32.79	\$9.65	\$14.53	\$0.00	\$56.97
For apprentice rates see "Apprentice- LABORER"						
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 4 (HEAVY & HIGHWAY)</i>	12/01/2024	\$35.24	\$9.65	\$15.60	\$0.00	\$60.49
	06/01/2025	\$36.48	\$9.65	\$15.60	\$0.00	\$61.73
	12/01/2025	\$37.71	\$9.65	\$15.60	\$0.00	\$62.96
	06/01/2026	\$39.75	\$9.65	\$15.60	\$0.00	\$65.00
	12/01/2026	\$41.04	\$9.65	\$15.60	\$0.00	\$66.29
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
BOILER MAKER <i>BOILERMAKERS LOCAL 29</i>	01/01/2024	\$48.12	\$7.07	\$20.60	\$0.00	\$75.79

Apprentice - BOILERMAKER - Local 29

Effective Date - 01/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	65	\$31.28	\$7.07	\$13.22	\$0.00	\$51.57
2	65	\$31.28	\$7.07	\$13.22	\$0.00	\$51.57
3	70	\$33.68	\$7.07	\$14.23	\$0.00	\$54.98
4	75	\$36.09	\$7.07	\$15.24	\$0.00	\$58.40
5	80	\$38.50	\$7.07	\$16.25	\$0.00	\$61.82
6	85	\$40.90	\$7.07	\$17.28	\$0.00	\$65.25
7	90	\$43.31	\$7.07	\$18.28	\$0.00	\$68.66
8	95	\$45.71	\$7.07	\$19.32	\$0.00	\$72.10

Notes:

Apprentice to Journeyworker Ratio:1:4

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING) <i>BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)</i>	08/01/2024	\$52.06	\$11.49	\$21.46	\$0.00	\$85.01
	02/01/2025	\$53.36	\$11.49	\$21.46	\$0.00	\$86.31
	08/01/2025	\$55.51	\$11.49	\$21.46	\$0.00	\$88.46
	02/01/2026	\$56.86	\$11.49	\$21.46	\$0.00	\$89.81
	08/01/2026	\$59.06	\$11.49	\$21.46	\$0.00	\$92.01
	02/01/2027	\$60.46	\$11.49	\$21.46	\$0.00	\$93.41

Apprentice - BRICK/PLASTER/CEMENT MASON - Local 3 Springfield/Pittsfield

Effective Date - 08/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.03	\$11.49	\$21.46	\$0.00	\$58.98
2	60	\$31.24	\$11.49	\$21.46	\$0.00	\$64.19
3	70	\$36.44	\$11.49	\$21.46	\$0.00	\$69.39
4	80	\$41.65	\$11.49	\$21.46	\$0.00	\$74.60
5	90	\$46.85	\$11.49	\$21.46	\$0.00	\$79.80

Effective Date - 02/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.68	\$11.49	\$21.46	\$0.00	\$59.63
2	60	\$32.02	\$11.49	\$21.46	\$0.00	\$64.97
3	70	\$37.35	\$11.49	\$21.46	\$0.00	\$70.30
4	80	\$42.69	\$11.49	\$21.46	\$0.00	\$75.64
5	90	\$48.02	\$11.49	\$21.46	\$0.00	\$80.97

Notes:

Apprentice to Journeyworker Ratio:1:5

BULLDOZER/POWER SHOVEL/TREE SHREDDER <i>/CLAM SHELL OPERATING</i>	12/01/2023	\$39.56	\$13.78	\$15.15	\$0.00	\$68.49
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ENGINEERS LOCAL 98

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

CAISSON & UNDERPINNING BOTTOM MAN <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2024	\$48.10	\$9.65	\$18.22	\$0.00	\$75.97
	06/01/2025	\$49.60	\$9.65	\$18.22	\$0.00	\$77.47
	12/01/2025	\$51.10	\$9.65	\$18.22	\$0.00	\$78.97
	06/01/2026	\$52.65	\$9.65	\$18.22	\$0.00	\$80.52
	12/01/2026	\$54.15	\$9.65	\$18.22	\$0.00	\$82.02

For apprentice rates see "Apprentice- LABORER"

CAISSON & UNDERPINNING LABORER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2024	\$46.95	\$9.65	\$18.22	\$0.00	\$74.82
	06/01/2025	\$48.45	\$9.65	\$18.22	\$0.00	\$76.32
	12/01/2025	\$49.95	\$9.65	\$18.22	\$0.00	\$77.82
	06/01/2026	\$51.50	\$9.65	\$18.22	\$0.00	\$79.37
	12/01/2026	\$53.00	\$9.65	\$18.22	\$0.00	\$80.87

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
CAISSON & UNDERPINNING TOP MAN <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2024	\$47.28	\$9.65	\$18.22	\$0.00	\$75.15
	06/01/2025	\$48.78	\$9.65	\$18.22	\$0.00	\$76.65
	12/01/2025	\$50.28	\$9.65	\$18.22	\$0.00	\$78.15
	06/01/2026	\$51.83	\$9.65	\$18.22	\$0.00	\$79.70
	12/01/2026	\$53.33	\$9.65	\$18.22	\$0.00	\$81.20

For apprentice rates see "Apprentice- LABORER"

CARBIDE CORE DRILL OPERATOR <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2024	\$32.29	\$9.65	\$14.53	\$0.00	\$56.47
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For apprentice rates see "Apprentice- LABORER"

CARPENTER <i>CARPENTERS LOCAL 336 - HAMPDEN HAMPSHIRE FRANKLIN</i>	09/01/2024	\$42.36	\$7.91	\$18.15	\$0.00	\$68.42
	03/01/2025	\$43.26	\$7.91	\$18.15	\$0.00	\$69.32
	09/01/2025	\$44.21	\$7.91	\$18.15	\$0.00	\$70.27
	03/01/2026	\$45.11	\$7.91	\$18.15	\$0.00	\$71.17
	09/01/2026	\$46.06	\$7.91	\$18.15	\$0.00	\$72.12
	03/01/2027	\$46.96	\$7.91	\$18.15	\$0.00	\$73.02

Apprentice - CARPENTER - Local 336 Hampden Hampshire Franklin

Effective Date - 09/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$19.06	\$7.91	\$1.40	\$0.00	\$28.37
2	45	\$19.06	\$7.91	\$1.40	\$0.00	\$28.37
3	55	\$23.30	\$7.91	\$2.76	\$0.00	\$33.97
4	55	\$23.30	\$7.91	\$2.76	\$0.00	\$33.97
5	70	\$29.65	\$7.91	\$15.39	\$0.00	\$52.95
6	70	\$29.65	\$7.91	\$15.39	\$0.00	\$52.95
7	80	\$33.89	\$7.91	\$16.77	\$0.00	\$58.57
8	80	\$33.89	\$7.91	\$16.77	\$0.00	\$58.57

Effective Date - 03/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$19.47	\$7.91	\$1.40	\$0.00	\$28.78
2	45	\$19.47	\$7.91	\$1.40	\$0.00	\$28.78
3	55	\$23.79	\$7.91	\$2.76	\$0.00	\$34.46
4	55	\$23.79	\$7.91	\$2.76	\$0.00	\$34.46
5	70	\$30.28	\$7.91	\$15.39	\$0.00	\$53.58
6	70	\$30.28	\$7.91	\$15.39	\$0.00	\$53.58
7	80	\$34.61	\$7.91	\$16.77	\$0.00	\$59.29
8	80	\$34.61	\$7.91	\$16.77	\$0.00	\$59.29

Notes:

Apprentice to Journeyworker Ratio:1:5

CARPENTER WOOD FRAME <i>CARPENTERS-ZONE 3 (Wood Frame)</i>	10/01/2024	\$26.65	\$7.02	\$4.80	\$0.00	\$38.47
	10/01/2025	\$27.75	\$7.02	\$4.80	\$0.00	\$39.57
	10/01/2026	\$28.85	\$7.02	\$4.80	\$0.00	\$40.67

Classification

All Aspects of New Wood Frame Work

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - CARPENTER (Wood Frame) - Zone 3

Effective Date - 10/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$15.99	\$7.02	\$0.00	\$0.00	\$23.01
2	60	\$15.99	\$7.02	\$0.00	\$0.00	\$23.01
3	65	\$17.32	\$7.02	\$1.00	\$0.00	\$25.34
4	70	\$18.66	\$7.02	\$1.00	\$0.00	\$26.68
5	75	\$19.99	\$7.02	\$4.80	\$0.00	\$31.81
6	80	\$21.32	\$7.02	\$4.80	\$0.00	\$33.14
7	85	\$22.65	\$7.02	\$4.80	\$0.00	\$34.47
8	90	\$23.99	\$7.02	\$4.80	\$0.00	\$35.81

Effective Date - 10/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$16.65	\$7.02	\$0.00	\$0.00	\$23.67
2	60	\$16.65	\$7.02	\$0.00	\$0.00	\$23.67
3	65	\$18.04	\$7.02	\$1.00	\$0.00	\$26.06
4	70	\$19.43	\$7.02	\$1.00	\$0.00	\$27.45
5	75	\$20.81	\$7.02	\$4.80	\$0.00	\$32.63
6	80	\$22.20	\$7.02	\$4.80	\$0.00	\$34.02
7	85	\$23.59	\$7.02	\$4.80	\$0.00	\$35.41
8	90	\$24.98	\$7.02	\$4.80	\$0.00	\$36.80

Notes:

Apprentice to Journeyworker Ratio:1:5

CEMENT MASONRY/PLASTERING BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)	01/01/2024	\$44.68	\$12.90	\$18.66	\$1.25	\$77.49
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Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - CEMENT MASONRY/PLASTERING - Springfield/Pittsfield

Effective Date - 01/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$22.34	\$12.90	\$15.86	\$0.00	\$51.10
2	60	\$26.81	\$12.90	\$18.66	\$1.25	\$59.62
3	65	\$29.04	\$12.90	\$18.66	\$1.25	\$61.85
4	70	\$31.28	\$12.90	\$18.66	\$1.25	\$64.09
5	75	\$33.51	\$12.90	\$18.66	\$1.25	\$66.32
6	80	\$35.74	\$12.90	\$18.66	\$1.25	\$68.55
7	90	\$40.21	\$12.90	\$18.66	\$1.25	\$73.02

Notes:

Steps 3,4 are 500 hrs. All other steps are 1,000 hrs.

Apprentice to Journeyworker Ratio:1:3

CHAIN SAW OPERATOR <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2024	\$32.29	\$9.65	\$14.53	\$0.00	\$56.47
For apprentice rates see "Apprentice- LABORER"						
COMPRESSOR OPERATOR <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2023	\$39.03	\$13.78	\$15.15	\$0.00	\$67.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
CRANE OPERATOR <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2023	\$43.06	\$13.78	\$15.15	\$0.00	\$71.99
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
DELEADER (BRIDGE) <i>PAINTERS LOCAL 35 - ZONE 3</i>	07/01/2024	\$57.26	\$9.95	\$23.95	\$0.00	\$91.16
	01/01/2025	\$58.46	\$9.95	\$23.95	\$0.00	\$92.36

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER Local 35 - BRIDGES/TANKS

Effective Date - 07/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$28.63	\$9.95	\$0.00	\$0.00	\$38.58
2	55	\$31.49	\$9.95	\$6.66	\$0.00	\$48.10
3	60	\$34.36	\$9.95	\$7.26	\$0.00	\$51.57
4	65	\$37.22	\$9.95	\$7.87	\$0.00	\$55.04
5	70	\$40.08	\$9.95	\$20.32	\$0.00	\$70.35
6	75	\$42.95	\$9.95	\$20.93	\$0.00	\$73.83
7	80	\$45.81	\$9.95	\$21.53	\$0.00	\$77.29
8	90	\$51.53	\$9.95	\$22.74	\$0.00	\$84.22

Effective Date - 01/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$29.23	\$9.95	\$0.00	\$0.00	\$39.18
2	55	\$32.15	\$9.95	\$6.66	\$0.00	\$48.76
3	60	\$35.08	\$9.95	\$7.26	\$0.00	\$52.29
4	65	\$38.00	\$9.95	\$7.87	\$0.00	\$55.82
5	70	\$40.92	\$9.95	\$20.32	\$0.00	\$71.19
6	75	\$43.85	\$9.95	\$20.93	\$0.00	\$74.73
7	80	\$46.77	\$9.95	\$21.53	\$0.00	\$78.25
8	90	\$52.61	\$9.95	\$22.74	\$0.00	\$85.30

Notes:
Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

DEMO: ADZEMAN	12/02/2024	\$47.00	\$9.65	\$18.40	\$0.00	\$75.05
LABORERS - ZONE 4 (BUILDING & SITE)	06/02/2025	\$48.50	\$9.65	\$18.40	\$0.00	\$76.55
	12/01/2025	\$50.00	\$9.65	\$18.40	\$0.00	\$78.05
	06/01/2026	\$51.55	\$9.65	\$18.40	\$0.00	\$79.60
	12/07/2026	\$53.05	\$9.65	\$18.40	\$0.00	\$81.10
	06/07/2027	\$54.65	\$9.65	\$18.40	\$0.00	\$82.70
	12/06/2027	\$56.25	\$9.65	\$18.40	\$0.00	\$84.30
	06/05/2028	\$57.93	\$9.65	\$18.40	\$0.00	\$85.98
	12/04/2028	\$59.60	\$9.65	\$18.40	\$0.00	\$87.65

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
DEMO: BACKHOE/LOADER/HAMMER OPERATOR <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/02/2024	\$48.00	\$9.65	\$18.40	\$0.00	\$76.05
	06/02/2025	\$49.50	\$9.65	\$18.40	\$0.00	\$77.55
	12/01/2025	\$51.00	\$9.65	\$18.40	\$0.00	\$79.05
	06/01/2026	\$52.55	\$9.65	\$18.40	\$0.00	\$80.60
	12/07/2026	\$54.05	\$9.65	\$18.40	\$0.00	\$82.10
	06/07/2027	\$55.65	\$9.65	\$18.40	\$0.00	\$83.70
	12/06/2027	\$57.25	\$9.65	\$18.40	\$0.00	\$85.30
	06/05/2028	\$58.93	\$9.65	\$18.40	\$0.00	\$86.98
	12/04/2028	\$60.60	\$9.65	\$18.40	\$0.00	\$88.65
For apprentice rates see "Apprentice- LABORER"						
DEMO: BURNERS <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/02/2024	\$47.75	\$9.65	\$18.40	\$0.00	\$75.80
	06/02/2025	\$49.25	\$9.65	\$18.40	\$0.00	\$77.30
	12/01/2025	\$50.75	\$9.65	\$18.40	\$0.00	\$78.80
	06/01/2026	\$52.30	\$9.65	\$18.40	\$0.00	\$80.35
	12/07/2026	\$53.80	\$9.65	\$18.40	\$0.00	\$81.85
	06/07/2027	\$55.40	\$9.65	\$18.40	\$0.00	\$83.45
	12/06/2027	\$57.00	\$9.65	\$18.40	\$0.00	\$85.05
	06/05/2028	\$58.68	\$9.65	\$18.40	\$0.00	\$86.73
	12/04/2028	\$60.35	\$9.65	\$18.40	\$0.00	\$88.40
For apprentice rates see "Apprentice- LABORER"						
DEMO: CONCRETE CUTTER/SAWYER <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/02/2024	\$48.00	\$9.65	\$18.40	\$0.00	\$76.05
	06/02/2025	\$49.50	\$9.65	\$18.40	\$0.00	\$77.55
	12/01/2025	\$51.00	\$9.65	\$18.40	\$0.00	\$79.05
	06/01/2026	\$52.55	\$9.65	\$18.40	\$0.00	\$80.60
	12/07/2026	\$54.05	\$9.65	\$18.40	\$0.00	\$82.10
	06/07/2027	\$55.65	\$9.65	\$18.40	\$0.00	\$83.70
	12/06/2027	\$57.25	\$9.65	\$18.40	\$0.00	\$85.30
	06/05/2028	\$58.93	\$9.65	\$18.40	\$0.00	\$86.98
	12/04/2028	\$60.60	\$9.65	\$18.40	\$0.00	\$88.65
For apprentice rates see "Apprentice- LABORER"						
DEMO: JACKHAMMER OPERATOR <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/02/2024	\$47.75	\$9.65	\$18.40	\$0.00	\$75.80
	06/02/2025	\$49.25	\$9.65	\$18.40	\$0.00	\$77.30
	12/01/2025	\$50.75	\$9.65	\$18.40	\$0.00	\$78.80
	06/01/2026	\$52.30	\$9.65	\$18.40	\$0.00	\$80.35
	12/07/2026	\$53.80	\$9.65	\$18.40	\$0.00	\$81.85
	06/07/2027	\$55.40	\$9.65	\$18.40	\$0.00	\$83.45
	12/06/2027	\$57.00	\$9.65	\$18.40	\$0.00	\$85.05
	06/05/2028	\$58.68	\$9.65	\$18.40	\$0.00	\$86.73
	12/04/2028	\$60.35	\$9.65	\$18.40	\$0.00	\$88.40
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
DEMO: WRECKING LABORER <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/02/2024	\$47.00	\$9.65	\$18.40	\$0.00	\$75.05
	06/02/2025	\$48.50	\$9.65	\$18.40	\$0.00	\$76.55
	12/01/2025	\$50.00	\$9.65	\$18.40	\$0.00	\$78.05
	06/01/2026	\$51.55	\$9.65	\$18.40	\$0.00	\$79.60
	12/07/2026	\$53.05	\$9.65	\$18.40	\$0.00	\$81.10
	06/07/2027	\$54.65	\$9.65	\$18.40	\$0.00	\$82.70
	12/06/2027	\$56.25	\$9.65	\$18.40	\$0.00	\$84.30
	06/05/2028	\$57.93	\$9.65	\$18.40	\$0.00	\$85.98
	12/04/2028	\$59.60	\$9.65	\$18.40	\$0.00	\$87.65
For apprentice rates see "Apprentice- LABORER"						
DIVER <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2024	\$78.11	\$10.08	\$24.29	\$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 <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2024	\$49.19	\$10.08	\$24.29	\$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) <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2024	\$83.69	\$10.08	\$24.29	\$0.00	\$118.06
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER/SLURRY (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2024	\$117.16	\$10.08	\$24.29	\$0.00	\$151.53
For apprentice rates see "Apprentice- PILE DRIVER"						
DRAWBRIDGE OPERATOR (Construction) <i>DRAWBRIDGE - SEIU LOCAL 888</i>	07/01/2020	\$26.77	\$6.67	\$3.93	\$0.16	\$37.53
ELECTRICIAN (Including Core Drilling) <i>ELECTRICIANS LOCAL 7</i>	06/30/2024	\$50.01	\$13.00	\$14.86	\$0.00	\$77.87
	12/29/2024	\$51.06	\$13.25	\$15.06	\$0.00	\$79.37
	06/29/2025	\$52.16	\$13.50	\$15.21	\$0.00	\$80.87
	12/28/2025	\$53.26	\$13.75	\$15.36	\$0.00	\$82.37
	06/28/2026	\$54.41	\$14.00	\$15.46	\$0.00	\$83.87
	01/03/2027	\$55.56	\$14.25	\$15.56	\$0.00	\$85.37

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - ELECTRICIAN - Local 7

Effective Date - 06/30/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$20.00	\$7.20	\$0.60	\$0.00	\$27.80
2	45	\$22.50	\$7.20	\$0.68	\$0.00	\$30.38
3	50	\$25.01	\$13.00	\$7.40	\$0.00	\$45.41
4	55	\$27.51	\$13.00	\$7.48	\$0.00	\$47.99
5	65	\$32.51	\$13.00	\$9.64	\$0.00	\$55.15
6	70	\$35.01	\$13.00	\$11.06	\$0.00	\$59.07

Effective Date - 12/29/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$20.42	\$7.35	\$0.61	\$0.00	\$28.38
2	45	\$22.98	\$7.35	\$0.69	\$0.00	\$31.02
3	50	\$25.53	\$13.25	\$7.47	\$0.00	\$46.25
4	55	\$28.08	\$13.25	\$7.54	\$0.00	\$48.87
5	65	\$33.19	\$13.25	\$9.74	\$0.00	\$56.18
6	70	\$35.74	\$13.25	\$11.19	\$0.00	\$60.18

Notes:

Steps 1-2 are 1000 hrs; Steps 3-6 are 1500 hrs.

Apprentice to Journeyworker Ratio:2:3****

ELEVATOR CONSTRUCTOR	01/01/2024	\$61.98	\$16.18	\$20.96	\$0.00	\$99.12
ELEVATOR CONSTRUCTORS LOCAL 41	01/01/2025	\$62.83	\$16.28	\$21.36	\$0.00	\$100.47
	01/01/2026	\$63.68	\$16.38	\$21.76	\$0.00	\$101.82
	01/01/2027	\$64.53	\$16.48	\$22.16	\$0.00	\$103.17

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - ELEVATOR CONSTRUCTOR - Local 41

Effective Date - 01/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$30.99	\$16.18	\$0.00	\$0.00	\$47.17
2	55	\$34.09	\$16.18	\$20.96	\$0.00	\$71.23
3	65	\$40.29	\$16.18	\$20.96	\$0.00	\$77.43
4	70	\$43.39	\$16.18	\$20.96	\$0.00	\$80.53
5	80	\$49.58	\$16.18	\$20.96	\$0.00	\$86.72

Effective Date - 01/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$31.42	\$16.28	\$0.00	\$0.00	\$47.70
2	55	\$34.56	\$16.28	\$21.36	\$0.00	\$72.20
3	65	\$40.84	\$16.28	\$21.36	\$0.00	\$78.48
4	70	\$43.98	\$16.28	\$21.36	\$0.00	\$81.62
5	80	\$50.26	\$16.28	\$21.36	\$0.00	\$87.90

Notes:

Steps 1-2 are 6 mos.; Steps 3-5 are 1 year

Apprentice to Journeyworker Ratio:1:1

ELEVATOR CONSTRUCTOR HELPER <i>ELEVATOR CONSTRUCTORS LOCAL 41</i>	01/01/2024	\$43.39	\$16.18	\$20.96	\$0.00	\$80.53
	01/01/2025	\$43.98	\$16.28	\$21.36	\$0.00	\$81.62
	01/01/2026	\$44.58	\$16.38	\$21.76	\$0.00	\$82.72
	01/01/2027	\$45.17	\$16.48	\$22.16	\$0.00	\$83.81

For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"

FENCE & BEAM RAIL ERECTOR <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2024	\$32.04	\$9.65	\$14.53	\$0.00	\$56.22
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For apprentice rates see "Apprentice- LABORER"

FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 4 (HEAVY & HIGHWAY)</i>	12/01/2024	\$34.74	\$9.65	\$15.60	\$0.00	\$59.99
	06/01/2025	\$35.98	\$9.65	\$15.60	\$0.00	\$61.23
	12/01/2025	\$37.21	\$9.65	\$15.60	\$0.00	\$62.46
	06/01/2026	\$39.25	\$9.65	\$15.60	\$0.00	\$64.50
	12/01/2026	\$40.54	\$9.65	\$15.60	\$0.00	\$65.79

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

FIELD ENG.INST/ROD-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/1999	\$18.84	\$4.80	\$4.10	\$0.00	\$27.74
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FIELD ENG.PARTY CHIEF:BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/1999	\$21.33	\$4.80	\$4.10	\$0.00	\$30.23
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FIELD ENG.SURVEY CHIEF-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/1999	\$22.33	\$4.80	\$4.10	\$0.00	\$31.23
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Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
FIRE ALARM INSTALLER <i>ELECTRICIANS LOCAL 7</i>	06/30/2024	\$50.01	\$13.00	\$14.86	\$0.00	\$77.87
	12/29/2024	\$51.06	\$13.25	\$15.06	\$0.00	\$79.37
	06/29/2025	\$52.16	\$13.50	\$15.21	\$0.00	\$80.87
	12/28/2025	\$53.26	\$13.75	\$15.36	\$0.00	\$82.37
	06/28/2026	\$54.41	\$14.00	\$15.46	\$0.00	\$83.87
	01/03/2027	\$55.56	\$14.25	\$15.56	\$0.00	\$85.37

For apprentice rates see "Apprentice- ELECTRICIAN"

FIRE ALARM REPAIR / MAINTENANCE <i>/ COMMISSIONING ELECTRICIANS LOCAL 7</i>	06/30/2024	\$50.01	\$13.00	\$14.86	\$0.00	\$77.87
	12/29/2024	\$51.06	\$13.25	\$15.06	\$0.00	\$79.37
	06/29/2025	\$52.16	\$13.50	\$15.21	\$0.00	\$80.87
	12/28/2025	\$53.26	\$13.75	\$15.36	\$0.00	\$82.37
	06/28/2026	\$54.41	\$14.00	\$15.46	\$0.00	\$83.87
	01/03/2027	\$55.56	\$14.25	\$15.56	\$0.00	\$85.37

For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"

FIREMAN <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2023	\$39.03	\$13.78	\$15.15	\$0.00	\$67.96
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Apprentice - OPERATING ENGINEERS - Local 98 Class 3

Effective Date - 12/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$23.42	\$13.78	\$15.15	\$0.00	\$52.35
2	70	\$27.32	\$13.78	\$15.15	\$0.00	\$56.25
3	80	\$31.22	\$13.78	\$15.15	\$0.00	\$60.15
4	90	\$35.13	\$13.78	\$15.15	\$0.00	\$64.06

Notes:

Steps 1-2 are 1000 hrs.; Steps 3-4 are 2000 hrs.

Apprentice to Journeyworker Ratio:1:6

FLAGGER & SIGNALER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 4 (HEAVY & HIGHWAY)</i>	12/01/2024	\$26.51	\$9.65	\$15.60	\$0.00	\$51.76
	06/01/2025	\$27.59	\$9.65	\$15.60	\$0.00	\$52.84
	12/01/2025	\$27.59	\$9.65	\$15.60	\$0.00	\$52.84
	06/01/2026	\$28.71	\$9.65	\$15.60	\$0.00	\$53.96
	12/01/2026	\$28.71	\$9.65	\$15.60	\$0.00	\$53.96

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

FLOORCOVERER <i>FLOORCOVERERS LOCAL 2168 ZONE III</i>	09/01/2024	\$42.36	\$7.91	\$18.15	\$0.00	\$68.42
	03/01/2025	\$43.26	\$7.91	\$18.15	\$0.00	\$69.32
	09/01/2025	\$44.21	\$7.91	\$18.15	\$0.00	\$70.27
	03/01/2026	\$45.11	\$7.91	\$18.15	\$0.00	\$71.17
	09/01/2026	\$46.06	\$7.91	\$18.15	\$0.00	\$72.12
	03/01/2027	\$46.96	\$7.91	\$18.15	\$0.00	\$73.02

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - FLOORCOVERER - Local 2168 Zone III

Effective Date - 09/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.18	\$7.91	\$1.38	\$0.00	\$30.47
2	55	\$23.30	\$7.91	\$1.38	\$0.00	\$32.59
3	60	\$25.42	\$7.91	\$2.76	\$0.00	\$36.09
4	65	\$27.53	\$7.91	\$2.76	\$0.00	\$38.20
5	70	\$29.65	\$7.91	\$15.39	\$0.00	\$52.95
6	75	\$31.77	\$7.91	\$15.39	\$0.00	\$55.07
7	80	\$33.89	\$7.91	\$16.77	\$0.00	\$58.57
8	85	\$36.01	\$7.91	\$16.77	\$0.00	\$60.69

Effective Date - 03/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.63	\$7.91	\$1.38	\$0.00	\$30.92
2	55	\$23.79	\$7.91	\$1.38	\$0.00	\$33.08
3	60	\$25.96	\$7.91	\$2.76	\$0.00	\$36.63
4	65	\$28.12	\$7.91	\$2.76	\$0.00	\$38.79
5	70	\$30.28	\$7.91	\$15.39	\$0.00	\$53.58
6	75	\$32.45	\$7.91	\$15.39	\$0.00	\$55.75
7	80	\$34.61	\$7.91	\$16.77	\$0.00	\$59.29
8	85	\$36.77	\$7.91	\$16.77	\$0.00	\$61.45

Notes: Steps are 750 hrs.
 % After 10/1/17; 45/45/55/55/70/70/80/80 (1500hr Steps)
 Step 1&2 \$26.72.24/ 3&4 \$32.11/ 5&6 \$50.75/ 7&8 \$56.14

Apprentice to Journeyworker Ratio:1:1

FORK LIFT 12/01/2023 \$39.25 \$13.78 \$15.15 \$0.00 \$68.18
OPERATING ENGINEERS LOCAL 98

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

GENERATORS/LIGHTING PLANTS 12/01/2023 \$35.80 \$13.78 \$15.15 \$0.00 \$64.73
OPERATING ENGINEERS LOCAL 98

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS) 06/01/2020 \$39.18 \$10.80 \$10.45 \$0.00 \$60.43
GLAZIERS LOCAL 1333

Apprentice - GLAZIER - Local 1333

Effective Date - 06/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.59	\$10.80	\$1.80	\$0.00	\$32.19
2	56	\$22.04	\$10.80	\$1.80	\$0.00	\$34.64
3	63	\$24.49	\$10.80	\$2.45	\$0.00	\$37.74
4	69	\$26.94	\$10.80	\$2.45	\$0.00	\$40.19
5	75	\$29.39	\$10.80	\$3.15	\$0.00	\$43.34
6	81	\$31.83	\$10.80	\$3.15	\$0.00	\$45.78
7	88	\$34.28	\$10.80	\$10.45	\$0.00	\$55.53
8	94	\$36.73	\$10.80	\$10.45	\$0.00	\$57.98

Notes:

Apprentice to Journeyworker Ratio:1:3

GRADER/TRENCHING MACHINE/DERRICK <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2023	\$39.56	\$13.78	\$15.15	\$0.00	\$68.49
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For apprentice rates see "Apprentice- OPERATING ENGINEERS"

HVAC (DUCTWORK) <i>SHEETMETAL WORKERS LOCAL 63</i>	07/01/2024	\$40.98	\$12.20	\$18.74	\$2.13	\$74.05
	01/01/2025	\$42.23	\$12.20	\$18.74	\$2.13	\$75.30

For apprentice rates see "Apprentice- SHEET METAL WORKER"

HVAC (ELECTRICAL CONTROLS) <i>ELECTRICIANS LOCAL 7</i>	06/30/2024	\$50.01	\$13.00	\$14.86	\$0.00	\$77.87
	12/29/2024	\$51.06	\$13.25	\$15.06	\$0.00	\$79.37
	06/29/2025	\$52.16	\$13.50	\$15.21	\$0.00	\$80.87
	12/28/2025	\$53.26	\$13.75	\$15.36	\$0.00	\$82.37
	06/28/2026	\$54.41	\$14.00	\$15.46	\$0.00	\$83.87
	01/03/2027	\$55.56	\$14.25	\$15.56	\$0.00	\$85.37

For apprentice rates see "Apprentice- ELECTRICIAN"

HVAC (TESTING AND BALANCING - AIR) <i>SHEETMETAL WORKERS LOCAL 63</i>	07/01/2024	\$40.98	\$12.20	\$18.74	\$2.13	\$74.05
	01/01/2025	\$42.23	\$12.20	\$18.74	\$2.13	\$75.30

For apprentice rates see "Apprentice- SHEET METAL WORKER"

HVAC (TESTING AND BALANCING - WATER) <i>PLUMBERS & PIPEFITTERS LOCAL 104</i>	03/17/2024	\$49.21	\$9.55	\$17.10	\$0.00	\$75.86
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For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"

HVAC MECHANIC <i>PLUMBERS & PIPEFITTERS LOCAL 104</i>	03/17/2024	\$49.21	\$9.55	\$17.10	\$0.00	\$75.86
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For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"

HYDRAULIC DRILLS (HEAVY & HIGHWAY) <i>LABORERS - ZONE 4 (HEAVY & HIGHWAY)</i>	12/01/2024	\$35.24	\$9.65	\$15.60	\$0.00	\$60.49
	06/01/2025	\$36.48	\$9.65	\$15.60	\$0.00	\$61.73
	12/01/2025	\$37.71	\$9.65	\$15.60	\$0.00	\$62.96
	06/01/2026	\$39.75	\$9.65	\$15.60	\$0.00	\$65.00
	12/01/2026	\$41.04	\$9.65	\$15.60	\$0.00	\$66.29

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

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
INSULATOR (PIPES & TANKS) HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)	09/01/2024	\$45.54	\$14.75	\$19.61	\$0.00	\$79.90
	09/01/2025	\$48.27	\$14.75	\$19.61	\$0.00	\$82.63
	09/01/2026	\$51.01	\$14.75	\$19.61	\$0.00	\$85.37

Apprentice - ASBESTOS INSULATOR (Pipes & Tanks) - Local 6 Springfield

Effective Date - 09/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$22.77	\$14.75	\$14.32	\$0.00	\$51.84
2	60	\$27.32	\$14.75	\$15.37	\$0.00	\$57.44
3	70	\$31.88	\$14.75	\$16.43	\$0.00	\$63.06
4	80	\$36.43	\$14.75	\$17.49	\$0.00	\$68.67

Effective Date - 09/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.14	\$14.75	\$14.32	\$0.00	\$53.21
2	60	\$28.96	\$14.75	\$15.37	\$0.00	\$59.08
3	70	\$33.79	\$14.75	\$16.43	\$0.00	\$64.97
4	80	\$38.62	\$14.75	\$17.49	\$0.00	\$70.86

Notes:

Steps are 1 year

Apprentice to Journeyworker Ratio:1:4

IRONWORKER/WELDER IRONWORKERS LOCAL 7 (SPRINGFIELD AREA)	03/16/2024	\$40.66	\$8.25	\$22.70	\$0.00	\$71.61
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Apprentice - IRONWORKER - Local 7 Springfield

Effective Date - 03/16/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$24.40	\$8.25	\$22.70	\$0.00	\$55.35
2	70	\$28.46	\$8.25	\$22.70	\$0.00	\$59.41
3	75	\$30.50	\$8.25	\$22.70	\$0.00	\$61.45
4	80	\$32.53	\$8.25	\$22.70	\$0.00	\$63.48
5	85	\$34.56	\$8.25	\$22.70	\$0.00	\$65.51
6	90	\$36.59	\$8.25	\$22.70	\$0.00	\$67.54

Notes:

Apprentice to Journeyworker Ratio:1:4

JACKHAMMER & PAVING BREAKER OPERATOR LABORERS - ZONE 4 (BUILDING & SITE)	12/01/2024	\$32.29	\$9.65	\$14.53	\$0.00	\$56.47
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For apprentice rates see "Apprentice- LABORER"

LABORER LABORERS - ZONE 4 (BUILDING & SITE)	12/01/2024	\$32.04	\$9.65	\$14.53	\$0.00	\$56.22
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Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - LABORER - Zone 4 Building and Site

Effective Date - 12/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$19.22	\$9.65	\$14.53	\$0.00	\$43.40
2	70	\$22.43	\$9.65	\$14.53	\$0.00	\$46.61
3	80	\$25.63	\$9.65	\$14.53	\$0.00	\$49.81
4	90	\$28.84	\$9.65	\$14.53	\$0.00	\$53.02

Notes:

Apprentice to Journeyworker Ratio:1:5

LABORER (HEAVY & HIGHWAY)	12/01/2024	\$34.49	\$9.65	\$15.60	\$0.00	\$59.74
LABORERS - ZONE 4 (HEAVY & HIGHWAY)	06/01/2025	\$35.73	\$9.65	\$15.60	\$0.00	\$60.98
	12/01/2025	\$36.96	\$9.65	\$15.60	\$0.00	\$62.21
	06/01/2026	\$39.00	\$9.65	\$15.60	\$0.00	\$64.25
	12/01/2026	\$40.29	\$9.65	\$15.60	\$0.00	\$65.54

Apprentice - LABORER (Heavy and Highway) - Zone 4

Effective Date - 12/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$20.69	\$9.65	\$15.60	\$0.00	\$45.94
2	70	\$24.14	\$9.65	\$15.60	\$0.00	\$49.39
3	80	\$27.59	\$9.65	\$15.60	\$0.00	\$52.84
4	90	\$31.04	\$9.65	\$15.60	\$0.00	\$56.29

Effective Date - 06/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$21.44	\$9.65	\$15.60	\$0.00	\$46.69
2	70	\$25.01	\$9.65	\$15.60	\$0.00	\$50.26
3	80	\$28.58	\$9.65	\$15.60	\$0.00	\$53.83
4	90	\$32.16	\$9.65	\$15.60	\$0.00	\$57.41

Notes:

Apprentice to Journeyworker Ratio:1:5

LABORER: CARPENTER TENDER	12/01/2024	\$32.04	\$9.65	\$14.53	\$0.00	\$56.22
LABORERS - ZONE 4 (BUILDING & SITE)						

For apprentice rates see "Apprentice- LABORER"

LABORER: CEMENT FINISHER TENDER	12/01/2024	\$32.04	\$9.65	\$14.53	\$0.00	\$56.22
LABORERS - ZONE 4 (BUILDING & SITE)						

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2024	\$33.16	\$9.65	\$14.41	\$0.00	\$57.22
	06/01/2025	\$34.40	\$9.65	\$14.41	\$0.00	\$58.46
	12/01/2025	\$35.63	\$9.65	\$14.41	\$0.00	\$59.69
	06/01/2026	\$37.67	\$9.65	\$14.41	\$0.00	\$61.73
	12/01/2026	\$38.96	\$9.65	\$14.41	\$0.00	\$63.02
	06/01/2027	\$40.26	\$9.65	\$14.41	\$0.00	\$64.32
	12/01/2027	\$41.56	\$9.65	\$14.41	\$0.00	\$65.62
	06/05/2028	\$42.91	\$9.65	\$14.41	\$0.00	\$66.97
	12/04/2028	\$44.26	\$9.65	\$14.41	\$0.00	\$68.32
For apprentice rates see "Apprentice- LABORER"						
LABORER: MASON TENDER <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2024	\$34.04	\$9.65	\$14.53	\$0.00	\$58.22
	For apprentice rates see "Apprentice- LABORER"					
LABORER: MASON TENDER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 4 (HEAVY & HIGHWAY)</i>	12/01/2024	\$34.74	\$9.65	\$15.60	\$0.00	\$59.99
	06/01/2025	\$35.98	\$9.65	\$15.60	\$0.00	\$61.23
	12/01/2025	\$37.21	\$9.65	\$15.60	\$0.00	\$62.46
	06/01/2026	\$39.25	\$9.65	\$15.60	\$0.00	\$64.50
	12/01/2026	\$40.54	\$9.65	\$15.60	\$0.00	\$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
LABORER: MULTI-TRADE TENDER <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2024	\$32.04	\$9.65	\$14.53	\$0.00	\$56.22
	For apprentice rates see "Apprentice- LABORER"					
LABORER: TREE REMOVER <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2024	\$32.04	\$9.65	\$14.53	\$0.00	\$56.22
	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 <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2024	\$32.29	\$9.65	\$14.53	\$0.00	\$56.47
	For apprentice rates see "Apprentice- LABORER"					
LASER BEAM OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 4 (HEAVY & HIGHWAY)</i>	12/01/2024	\$34.74	\$9.65	\$15.60	\$0.00	\$59.99
	06/01/2025	\$35.98	\$9.65	\$15.60	\$0.00	\$61.23
	12/01/2025	\$37.21	\$9.65	\$15.60	\$0.00	\$62.46
	06/01/2026	\$39.25	\$9.65	\$15.60	\$0.00	\$64.50
	12/01/2026	\$40.54	\$9.65	\$15.60	\$0.00	\$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
MARBLE & TILE FINISHERS <i>BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE</i>	08/01/2024	\$43.05	\$11.49	\$20.53	\$0.00	\$75.07
	02/01/2025	\$44.90	\$11.49	\$20.53	\$0.00	\$76.92
	08/01/2025	\$45.81	\$11.49	\$20.53	\$0.00	\$77.83
	02/01/2026	\$46.89	\$11.49	\$20.53	\$0.00	\$78.91
	08/01/2026	\$48.65	\$11.49	\$20.53	\$0.00	\$80.67
	02/01/2027	\$49.77	\$11.49	\$20.53	\$0.00	\$81.79

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - MARBLE-TILE FINISHER-Local 3 Marble/Tile (Spr/Pitt)

Effective Date - 08/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.53	\$11.49	\$20.53	\$0.00	\$53.55
2	60	\$25.83	\$11.49	\$20.53	\$0.00	\$57.85
3	70	\$30.14	\$11.49	\$20.53	\$0.00	\$62.16
4	80	\$34.44	\$11.49	\$20.53	\$0.00	\$66.46
5	90	\$38.75	\$11.49	\$20.53	\$0.00	\$70.77

Effective Date - 02/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$22.45	\$11.49	\$20.53	\$0.00	\$54.47
2	60	\$26.94	\$11.49	\$20.53	\$0.00	\$58.96
3	70	\$31.43	\$11.49	\$20.53	\$0.00	\$63.45
4	80	\$35.92	\$11.49	\$20.53	\$0.00	\$67.94
5	90	\$40.41	\$11.49	\$20.53	\$0.00	\$72.43

Notes:

Apprentice to Journeyworker Ratio:1:5

MARBLE MASON/TILE LAYER(SP/PT)SeeBrick
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE

See "BRICK/STONE/ARTIFICIAL MASONRY(INCL.MASONRY WATERPROOFING)

MECH. SWEEPER OPERATOR (ON CONST. SITES) 12/01/2023 \$39.56 \$13.78 \$15.15 \$0.00 \$68.49
OPERATING ENGINEERS LOCAL 98

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

MECHANIC/WELDER/BOOM TRUCK 12/01/2023 \$39.03 \$13.78 \$15.15 \$0.00 \$67.96
OPERATING ENGINEERS LOCAL 98

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

MILLWRIGHT (Zone 3) 01/01/2024 \$41.20 \$10.08 \$21.22 \$0.00 \$72.50
MILLWRIGHTS LOCAL 1121 - Zone 3
01/06/2025 \$43.48 \$10.08 \$21.22 \$0.00 \$74.78
01/05/2026 \$45.76 \$10.08 \$21.22 \$0.00 \$77.06

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - MILLWRIGHT - Local 1121 Zone 3

Effective Date - 01/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$22.66	\$10.08	\$5.36	\$0.00	\$38.10
2	65	\$26.78	\$10.08	\$6.34	\$0.00	\$43.20
3	75	\$30.90	\$10.08	\$18.78	\$0.00	\$59.76
4	85	\$35.02	\$10.08	\$19.76	\$0.00	\$64.86

Effective Date - 01/06/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$23.91	\$10.08	\$5.36	\$0.00	\$39.35
2	65	\$28.26	\$10.08	\$6.34	\$0.00	\$44.68
3	75	\$32.61	\$10.08	\$18.78	\$0.00	\$61.47
4	85	\$36.96	\$10.08	\$19.76	\$0.00	\$66.80

Notes: Step 1&2 Appr. indentured after 1/6/2020 receive no pension, but do receive annuity. (Step 1 \$5.72, Step 2 \$6.66)
Steps are 2,000 hours

Apprentice to Journeyworker Ratio:1:4

MORTAR MIXER <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2024	\$32.29	\$9.65	\$14.53	\$0.00	\$56.47
For apprentice rates see "Apprentice- LABORER"						
OILER <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2023	\$35.02	\$13.78	\$15.15	\$0.00	\$63.95
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
OTHER POWER DRIVEN EQUIPMENT - CLASS VI <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2023	\$32.74	\$13.78	\$15.15	\$0.00	\$61.67
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PAINTER (BRIDGES/TANKS) <i>PAINTERS LOCAL 35 - ZONE 3</i>	07/01/2024	\$57.26	\$9.95	\$23.95	\$0.00	\$91.16
	01/01/2025	\$58.46	\$9.95	\$23.95	\$0.00	\$92.36

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER Local 35 - BRIDGES/TANKS

Effective Date - 07/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$28.63	\$9.95	\$0.00	\$0.00	\$38.58
2	55	\$31.49	\$9.95	\$6.66	\$0.00	\$48.10
3	60	\$34.36	\$9.95	\$7.26	\$0.00	\$51.57
4	65	\$37.22	\$9.95	\$7.87	\$0.00	\$55.04
5	70	\$40.08	\$9.95	\$20.32	\$0.00	\$70.35
6	75	\$42.95	\$9.95	\$20.93	\$0.00	\$73.83
7	80	\$45.81	\$9.95	\$21.53	\$0.00	\$77.29
8	90	\$51.53	\$9.95	\$22.74	\$0.00	\$84.22

Effective Date - 01/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$29.23	\$9.95	\$0.00	\$0.00	\$39.18
2	55	\$32.15	\$9.95	\$6.66	\$0.00	\$48.76
3	60	\$35.08	\$9.95	\$7.26	\$0.00	\$52.29
4	65	\$38.00	\$9.95	\$7.87	\$0.00	\$55.82
5	70	\$40.92	\$9.95	\$20.32	\$0.00	\$71.19
6	75	\$43.85	\$9.95	\$20.93	\$0.00	\$74.73
7	80	\$46.77	\$9.95	\$21.53	\$0.00	\$78.25
8	90	\$52.61	\$9.95	\$22.74	\$0.00	\$85.30

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER (SPRAY OR SANDBLAST, NEW) *	07/01/2024	\$40.03	\$9.65	\$19.90	\$0.00	\$69.58
* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. PAINTERS LOCAL 35 - ZONE 3	01/01/2025	\$41.23	\$9.65	\$19.90	\$0.00	\$70.78

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER Local 35 Zone 3 - Spray/Sandblast - New

Effective Date - 07/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.02	\$9.95	\$0.00	\$0.00	\$29.97
2	55	\$22.02	\$9.95	\$4.43	\$0.00	\$36.40
3	60	\$24.02	\$9.95	\$4.83	\$0.00	\$38.80
4	65	\$26.02	\$9.95	\$5.23	\$0.00	\$41.20
5	70	\$28.02	\$9.95	\$17.49	\$0.00	\$55.46
6	75	\$30.02	\$9.95	\$17.89	\$0.00	\$57.86
7	80	\$32.02	\$9.95	\$18.29	\$0.00	\$60.26
8	90	\$36.03	\$9.95	\$19.10	\$0.00	\$65.08

Effective Date - 01/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.62	\$9.95	\$0.00	\$0.00	\$30.57
2	55	\$22.68	\$9.95	\$4.43	\$0.00	\$37.06
3	60	\$24.74	\$9.95	\$4.83	\$0.00	\$39.52
4	65	\$26.80	\$9.95	\$5.23	\$0.00	\$41.98
5	70	\$28.86	\$9.95	\$17.49	\$0.00	\$56.30
6	75	\$30.92	\$9.95	\$17.89	\$0.00	\$58.76
7	80	\$32.98	\$9.95	\$18.29	\$0.00	\$61.22
8	90	\$37.11	\$9.95	\$19.10	\$0.00	\$66.16

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER (SPRAY OR SANDBLAST, REPAINT)	07/01/2024	\$37.35	\$9.95	\$19.90	\$0.00	\$67.20
PAINTERS LOCAL 35 - ZONE 3	01/01/2025	\$38.55	\$9.95	\$19.90	\$0.00	\$68.40

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER Local 35 Zone 3 - Spray/Sandblast - Repaint

Effective Date - 07/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$18.68	\$9.95	\$0.00	\$0.00	\$28.63
2	55	\$20.54	\$9.95	\$4.43	\$0.00	\$34.92
3	60	\$22.41	\$9.95	\$4.83	\$0.00	\$37.19
4	65	\$24.28	\$9.95	\$5.23	\$0.00	\$39.46
5	70	\$26.15	\$9.95	\$17.49	\$0.00	\$53.59
6	75	\$28.01	\$9.95	\$17.89	\$0.00	\$55.85
7	80	\$29.88	\$9.95	\$18.29	\$0.00	\$58.12
8	90	\$33.62	\$9.95	\$19.10	\$0.00	\$62.67

Effective Date - 01/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.28	\$9.95	\$0.00	\$0.00	\$29.23
2	55	\$21.20	\$9.95	\$4.43	\$0.00	\$35.58
3	60	\$23.13	\$9.95	\$4.83	\$0.00	\$37.91
4	65	\$25.06	\$9.95	\$5.23	\$0.00	\$40.24
5	70	\$26.99	\$9.95	\$17.49	\$0.00	\$54.43
6	75	\$28.91	\$9.95	\$17.89	\$0.00	\$56.75
7	80	\$30.84	\$9.95	\$18.29	\$0.00	\$59.08
8	90	\$34.70	\$9.95	\$19.10	\$0.00	\$63.75

Notes:
Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER / TAPER (BRUSH, NEW) *	07/01/2024	\$38.63	\$9.95	\$19.90	\$0.00	\$68.48
* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. PAINTERS LOCAL 35 - ZONE 3	01/01/2025	\$39.83	\$9.95	\$19.90	\$0.00	\$69.68

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER - Local 35 Zone 3 - BRUSH NEW

Effective Date - 07/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.32	\$9.95	\$0.00	\$0.00	\$29.27
2	55	\$21.25	\$9.95	\$4.43	\$0.00	\$35.63
3	60	\$23.18	\$9.95	\$4.83	\$0.00	\$37.96
4	65	\$25.11	\$9.95	\$5.23	\$0.00	\$40.29
5	70	\$27.04	\$9.95	\$17.49	\$0.00	\$54.48
6	75	\$28.97	\$9.95	\$17.89	\$0.00	\$56.81
7	80	\$30.90	\$9.95	\$18.29	\$0.00	\$59.14
8	90	\$34.77	\$9.95	\$19.10	\$0.00	\$63.82

Effective Date - 01/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.92	\$9.95	\$0.00	\$0.00	\$29.87
2	55	\$21.91	\$9.95	\$4.43	\$0.00	\$36.29
3	60	\$23.90	\$9.95	\$4.83	\$0.00	\$38.68
4	65	\$25.89	\$9.95	\$5.23	\$0.00	\$41.07
5	70	\$27.88	\$9.95	\$17.49	\$0.00	\$55.32
6	75	\$29.87	\$9.95	\$17.89	\$0.00	\$57.71
7	80	\$31.86	\$9.95	\$18.29	\$0.00	\$60.10
8	90	\$35.85	\$9.95	\$19.10	\$0.00	\$64.90

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER / TAPER (BRUSH, REPAINT)	07/01/2024	\$35.95	\$9.95	\$19.90	\$0.00	\$65.80
PAINTERS LOCAL 35 - ZONE 3	01/01/2025	\$37.15	\$9.95	\$19.90	\$0.00	\$67.00

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER Local 35 Zone 3 - BRUSH REPAINT

Effective Date - 07/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$17.98	\$9.95	\$0.00	\$0.00	\$27.93
2	55	\$19.77	\$9.95	\$4.43	\$0.00	\$34.15
3	60	\$21.57	\$9.95	\$4.83	\$0.00	\$36.35
4	65	\$23.37	\$9.95	\$5.23	\$0.00	\$38.55
5	70	\$25.17	\$9.95	\$17.49	\$0.00	\$52.61
6	75	\$26.96	\$9.95	\$17.89	\$0.00	\$54.80
7	80	\$28.76	\$9.95	\$18.29	\$0.00	\$57.00
8	90	\$32.36	\$9.95	\$19.10	\$0.00	\$61.41

Effective Date - 01/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$18.58	\$9.95	\$0.00	\$0.00	\$28.53
2	55	\$20.43	\$9.95	\$4.43	\$0.00	\$34.81
3	60	\$22.29	\$9.95	\$4.83	\$0.00	\$37.07
4	65	\$24.15	\$9.95	\$5.23	\$0.00	\$39.33
5	70	\$26.01	\$9.95	\$17.49	\$0.00	\$53.45
6	75	\$27.86	\$9.95	\$17.89	\$0.00	\$55.70
7	80	\$29.72	\$9.95	\$18.29	\$0.00	\$57.96
8	90	\$33.44	\$9.95	\$19.10	\$0.00	\$62.49

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY)	12/01/2024	\$34.49	\$9.65	\$15.60	\$0.00	\$59.74
LABORERS - ZONE 4 (HEAVY & HIGHWAY)	06/01/2025	\$35.73	\$9.65	\$15.60	\$0.00	\$60.98
	12/01/2025	\$36.96	\$9.65	\$15.60	\$0.00	\$62.21
	06/01/2026	\$39.00	\$9.65	\$15.60	\$0.00	\$64.25
	12/01/2026	\$40.29	\$9.65	\$15.60	\$0.00	\$65.54

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

PANEL & PICKUP TRUCKS DRIVER	12/01/2024	\$39.78	\$15.07	\$20.17	\$0.00	\$75.02
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	01/01/2025	\$39.78	\$15.57	\$20.17	\$0.00	\$75.52
	06/01/2025	\$40.78	\$15.57	\$20.17	\$0.00	\$76.52
	12/01/2025	\$40.78	\$15.57	\$21.78	\$0.00	\$78.13
	01/01/2026	\$40.78	\$16.17	\$21.78	\$0.00	\$78.73
	06/01/2026	\$41.78	\$16.17	\$21.78	\$0.00	\$79.73
	12/01/2026	\$41.78	\$16.17	\$23.52	\$0.00	\$81.47
	01/01/2027	\$41.78	\$16.77	\$23.52	\$0.00	\$82.07

PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK)	08/01/2024	\$49.19	\$10.08	\$24.29	\$0.00	\$83.56
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PILE DRIVER LOCAL 56 (ZONE 3)

For apprentice rates see "Apprentice- PILE DRIVER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PILE DRIVER PILE DRIVER LOCAL 56 (ZONE 3)	08/01/2024	\$49.19	\$10.08	\$24.29	\$0.00	\$83.56

Apprentice - PILE DRIVER - Local 56 Zone 3

Effective Date - 08/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$22.14	\$10.08	\$2.53	\$0.00	\$34.75
2	55	\$27.05	\$10.08	\$5.07	\$0.00	\$42.20
3	70	\$34.43	\$10.08	\$19.22	\$0.00	\$63.73
4	80	\$39.35	\$10.08	\$21.76	\$0.00	\$71.19

Notes:
% Indentured BEFORE 8/1/2020, 50/60/70/75/80/80/90/90
1\$58.97/2\$63.88/3\$68.80/4\$71.26/5&6 \$73.72/7&8 \$78.64

Apprentice to Journeyworker Ratio:1:5

PIPELAYER LABORERS - ZONE 4 (BUILDING & SITE)	12/01/2024	\$32.29	\$9.65	\$14.53	\$0.00	\$56.47
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For apprentice rates see "Apprentice- LABORER"

PIPELAYER (HEAVY & HIGHWAY) LABORERS - ZONE 4 (HEAVY & HIGHWAY)	12/01/2024	\$34.74	\$9.65	\$15.60	\$0.00	\$59.99
	06/01/2025	\$35.98	\$9.65	\$15.60	\$0.00	\$61.23
	12/01/2025	\$37.21	\$9.65	\$15.60	\$0.00	\$62.46
	06/01/2026	\$39.25	\$9.65	\$15.60	\$0.00	\$64.50
	12/01/2026	\$40.54	\$9.65	\$15.60	\$0.00	\$65.79

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

PLUMBER & PIPEFITTER PLUMBERS & PIPEFITTERS LOCAL 104	03/17/2024	\$49.21	\$9.55	\$17.10	\$0.00	\$75.86
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Apprentice - PLUMBER/PIPEFITTER - Local 104

Effective Date - 03/17/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$22.14	\$9.55	\$10.10	\$0.00	\$41.79
2	50	\$24.61	\$9.55	\$10.10	\$0.00	\$44.26
3	55	\$27.07	\$9.55	\$10.10	\$0.00	\$46.72
4	60	\$29.53	\$9.55	\$10.10	\$0.00	\$49.18
5	65	\$31.99	\$9.55	\$10.10	\$0.00	\$51.64
6	70	\$34.45	\$9.55	\$10.10	\$0.00	\$54.10
7	75	\$36.91	\$9.55	\$10.10	\$0.00	\$56.56
8	80	\$39.37	\$9.55	\$10.10	\$0.00	\$59.02
9	80	\$39.37	\$9.55	\$17.10	\$0.00	\$66.02
10	80	\$39.37	\$9.55	\$17.10	\$0.00	\$66.02

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

Apprentice to Journeyworker Ratio:**

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PNEUMATIC CONTROLS (TEMP.) <i>PLUMBERS & PIPEFITTERS LOCAL 104</i>	03/17/2024	\$49.21	\$9.55	\$17.10	\$0.00	\$75.86
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 4 (HEAVY & HIGHWAY)</i>	12/01/2024	\$34.74	\$9.65	\$15.60	\$0.00	\$59.99
	06/01/2025	\$35.98	\$9.65	\$15.60	\$0.00	\$61.23
	12/01/2025	\$37.21	\$9.65	\$15.60	\$0.00	\$62.46
	06/01/2026	\$39.25	\$9.65	\$15.60	\$0.00	\$64.50
	12/01/2026	\$40.54	\$9.65	\$15.60	\$0.00	\$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
POWDERMAN & BLASTER <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2024	\$33.04	\$9.65	\$14.53	\$0.00	\$57.22
For apprentice rates see "Apprentice- LABORER"						
POWDERMAN & BLASTER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 4 (HEAVY & HIGHWAY)</i>	12/01/2024	\$35.90	\$9.65	\$15.19	\$0.00	\$60.74
	06/01/2025	\$37.14	\$9.65	\$15.19	\$0.00	\$61.98
	12/01/2025	\$38.37	\$9.65	\$15.19	\$0.00	\$63.21
	06/01/2026	\$40.41	\$9.65	\$15.19	\$0.00	\$65.25
	12/01/2026	\$41.70	\$9.65	\$15.19	\$0.00	\$66.54
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
PUMP OPERATOR (CONCRETE) <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2023	\$39.56	\$13.78	\$15.15	\$0.00	\$68.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (DEWATERING, OTHER) <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2023	\$39.03	\$13.78	\$15.15	\$0.00	\$67.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
READY-MIX CONCRETE DRIVER <i>TEAMSTERS 404 - Construction Service (Northampton)</i>	05/01/2024	\$26.14	\$11.82	\$7.25	\$0.00	\$45.21
RIDE-ON MOTORIZED BUGGY OPERATOR <i>LABORERS - ZONE 4 (BUILDING & SITE)</i>	12/01/2024	\$32.29	\$9.65	\$14.53	\$0.00	\$56.47
For apprentice rates see "Apprentice- LABORER"						
ROLLER OPERATOR <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2023	\$38.42	\$13.78	\$15.15	\$0.00	\$67.35
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
ROOFER (Coal tar pitch) <i>ROOFERS LOCAL 248</i>	10/02/2024	\$42.38	\$10.35	\$18.00	\$0.00	\$70.73
	07/16/2025	\$43.88	\$10.35	\$18.00	\$0.00	\$72.23
	10/02/2025	\$44.88	\$10.35	\$18.00	\$0.00	\$73.23
	07/16/2026	\$46.88	\$10.35	\$18.00	\$0.00	\$75.23
For apprentice rates see "Apprentice- ROOFER"						
ROOFER (Inc.Roofing Waterproofing &Roofing Damproofing) <i>ROOFERS LOCAL 248</i>	10/02/2024	\$41.88	\$10.35	\$18.00	\$0.00	\$70.23
	07/16/2025	\$43.38	\$10.35	\$18.00	\$0.00	\$71.73
	10/02/2025	\$44.38	\$10.35	\$18.00	\$0.00	\$72.73
	07/16/2026	\$46.38	\$10.35	\$18.00	\$0.00	\$74.73

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - ROOFER - Local 248

Effective Date - 10/02/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$25.13	\$10.35	\$0.00	\$0.00	\$35.48
2	65	\$27.22	\$10.35	\$18.00	\$0.00	\$55.57
3	70	\$29.32	\$10.35	\$18.00	\$0.00	\$57.67
4	75	\$31.41	\$10.35	\$18.00	\$0.00	\$59.76
5	80	\$33.50	\$10.35	\$18.00	\$0.00	\$61.85
6	85	\$35.60	\$10.35	\$18.00	\$0.00	\$63.95
7	90	\$37.69	\$10.35	\$18.00	\$0.00	\$66.04
8	95	\$39.79	\$10.35	\$18.00	\$0.00	\$68.14

Notes:

Steps are 750 hrs.Roofer(Tear Off)1:1; Same as above

Apprentice to Journeyworker Ratio:1:3

ROOFER SLATE / TILE / PRECAST CONCRETE <i>ROOFERS LOCAL 248</i>	10/02/2024	\$42.38	\$10.35	\$18.00	\$0.00	\$70.73
	07/16/2025	\$43.88	\$10.35	\$18.00	\$0.00	\$72.23
	10/02/2025	\$44.88	\$10.35	\$18.00	\$0.00	\$73.23
	07/16/2026	\$46.88	\$10.35	\$18.00	\$0.00	\$75.23

For apprentice rates see "Apprentice- ROOFER"

SCRAPER <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2023	\$39.03	\$13.78	\$15.15	\$0.00	\$67.96
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For apprentice rates see "Apprentice- OPERATING ENGINEERS"

SELF-POWERED ROLLERS AND COMPACTORS (TAMPERS) <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2023	\$38.42	\$13.78	\$15.15	\$0.00	\$67.35
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For apprentice rates see "Apprentice- OPERATING ENGINEERS"

SELF-PROPELLED POWER BROOM <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2023	\$35.80	\$13.78	\$15.15	\$0.00	\$64.73
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For apprentice rates see "Apprentice- OPERATING ENGINEERS"

SHEETMETAL WORKER <i>SHEETMETAL WORKERS LOCAL 63</i>	07/01/2024	\$40.98	\$12.20	\$18.74	\$2.13	\$74.05
	01/01/2025	\$42.23	\$12.20	\$18.74	\$2.13	\$75.30

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - SHEET METAL WORKER - Local 63

Effective Date - 07/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$18.44	\$5.49	\$4.86	\$0.85	\$29.64
2	50	\$20.49	\$6.10	\$5.40	\$0.94	\$32.93
3	55	\$22.54	\$6.71	\$9.71	\$1.15	\$40.11
4	60	\$24.59	\$7.32	\$9.71	\$1.23	\$42.85
5	65	\$26.64	\$7.93	\$9.71	\$1.31	\$45.59
6	70	\$28.69	\$8.54	\$9.71	\$1.39	\$48.33
7	75	\$30.74	\$9.15	\$9.71	\$1.47	\$51.07
8	80	\$32.78	\$9.76	\$17.66	\$1.78	\$61.98
9	85	\$34.83	\$10.37	\$17.66	\$1.86	\$64.72
10	90	\$36.88	\$10.98	\$17.66	\$1.94	\$67.46

Effective Date - 01/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$19.00	\$5.49	\$4.86	\$0.85	\$30.20
2	50	\$21.12	\$6.10	\$5.40	\$0.94	\$33.56
3	55	\$23.23	\$6.71	\$9.71	\$1.15	\$40.80
4	60	\$25.34	\$7.32	\$9.71	\$1.23	\$43.60
5	65	\$27.45	\$7.93	\$9.71	\$1.31	\$46.40
6	70	\$29.56	\$8.54	\$9.71	\$1.39	\$49.20
7	75	\$31.67	\$9.15	\$9.71	\$1.47	\$52.00
8	80	\$33.78	\$9.76	\$17.66	\$1.78	\$62.98
9	85	\$35.90	\$10.37	\$17.66	\$1.86	\$65.79
10	90	\$38.01	\$10.98	\$17.66	\$1.94	\$68.59

Notes:

Apprentice to Journeyworker Ratio:1:3

SPECIALIZED EARTH MOVING EQUIP < 35 TONS	12/01/2024	\$40.24	\$15.07	\$20.17	\$0.00	\$75.48
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	01/01/2025	\$40.24	\$15.57	\$20.17	\$0.00	\$75.98
	06/01/2025	\$41.24	\$15.57	\$20.17	\$0.00	\$76.98
	12/01/2025	\$41.24	\$15.57	\$21.78	\$0.00	\$78.59
	01/01/2026	\$41.24	\$16.17	\$21.78	\$0.00	\$79.19
	06/01/2026	\$42.24	\$16.17	\$21.78	\$0.00	\$80.19
	12/01/2026	\$42.24	\$16.17	\$23.52	\$0.00	\$81.93
	01/01/2027	\$42.24	\$16.77	\$23.52	\$0.00	\$82.53

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
SPECIALIZED EARTH MOVING EQUIP > 35 TONS <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2024	\$40.53	\$15.07	\$20.17	\$0.00	\$75.77
	01/01/2025	\$40.53	\$15.57	\$20.17	\$0.00	\$76.27
	06/01/2025	\$41.53	\$15.57	\$20.17	\$0.00	\$77.27
	12/01/2025	\$41.53	\$15.57	\$21.78	\$0.00	\$78.88
	01/01/2026	\$41.53	\$16.17	\$21.78	\$0.00	\$79.48
	06/01/2026	\$42.53	\$16.17	\$21.78	\$0.00	\$80.48
	12/01/2026	\$42.53	\$16.17	\$23.52	\$0.00	\$82.22
	01/01/2027	\$42.53	\$16.77	\$23.52	\$0.00	\$82.82
SPRINKLER FITTER <i>SPRINKLER FITTERS LOCAL 669</i>	04/01/2023	\$47.43	\$11.45	\$16.61	\$0.00	\$75.49

Apprentice - SPRINKLER FITTER - Local 669

Effective Date - 04/01/2023

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$21.34	\$8.22	\$0.00	\$0.00	\$29.56
2	50	\$23.72	\$8.22	\$0.00	\$0.00	\$31.94
3	55	\$26.09	\$11.45	\$7.20	\$0.00	\$44.74
4	60	\$28.46	\$11.45	\$8.35	\$0.00	\$48.26
5	65	\$30.83	\$11.45	\$8.35	\$0.00	\$50.63
6	70	\$33.20	\$11.45	\$8.60	\$0.00	\$53.25
7	75	\$35.57	\$11.45	\$8.60	\$0.00	\$55.62
8	80	\$37.94	\$11.45	\$8.60	\$0.00	\$57.99
9	85	\$40.32	\$11.45	\$8.60	\$0.00	\$60.37
10	90	\$42.69	\$11.45	\$8.60	\$0.00	\$62.74

Notes:

Apprentice to Journeyworker Ratio:1:1

TELECOMMUNICATION TECHNICIAN <i>ELECTRICIANS LOCAL 7</i>	06/30/2024	\$50.01	\$13.00	\$14.86	\$0.00	\$77.87
	12/29/2024	\$51.06	\$13.25	\$15.06	\$0.00	\$79.37
	06/29/2025	\$52.16	\$13.50	\$15.21	\$0.00	\$80.87
	12/28/2025	\$53.26	\$13.75	\$15.36	\$0.00	\$82.37
	06/28/2026	\$54.41	\$14.00	\$15.46	\$0.00	\$83.87
	01/03/2027	\$55.56	\$14.25	\$15.56	\$0.00	\$85.37

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - TELECOMMUNICATION TECHNICIAN - Local 7

Effective Date - 06/30/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$20.00	\$7.20	\$0.60	\$0.00	\$27.80
2	45	\$22.50	\$7.20	\$0.68	\$0.00	\$30.38
3	50	\$25.01	\$13.00	\$7.40	\$0.00	\$45.41
4	55	\$27.51	\$13.00	\$7.48	\$0.00	\$47.99
5	65	\$32.51	\$13.00	\$9.64	\$0.00	\$55.15
6	70	\$35.01	\$13.00	\$11.06	\$0.00	\$59.07

Effective Date - 12/29/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$20.42	\$7.35	\$0.61	\$0.00	\$28.38
2	45	\$22.98	\$7.35	\$0.69	\$0.00	\$31.02
3	50	\$25.53	\$13.25	\$7.47	\$0.00	\$46.25
4	55	\$28.08	\$13.25	\$7.54	\$0.00	\$48.87
5	65	\$33.19	\$13.25	\$9.74	\$0.00	\$56.18
6	70	\$35.74	\$13.25	\$11.19	\$0.00	\$60.18

Notes:

Steps are 800 hours

Apprentice to Journeyworker Ratio:1:1

TERRAZZO FINISHERS	08/01/2024	\$63.44	\$11.49	\$23.59	\$0.00	\$98.52
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	02/01/2025	\$64.74	\$11.49	\$23.59	\$0.00	\$99.82
	08/01/2025	\$66.89	\$11.49	\$23.59	\$0.00	\$101.97
	02/10/2026	\$68.24	\$11.49	\$23.59	\$0.00	\$103.32
	08/01/2026	\$70.44	\$11.49	\$23.59	\$0.00	\$105.52
	02/01/2027	\$71.84	\$11.49	\$23.59	\$0.00	\$106.92

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - TERRAZZO FINISHER-Local 3 Marble/Tile (Spr/Ptt)

Effective Date - 08/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$31.72	\$11.49	\$23.59	\$0.00	\$66.80
2	60	\$38.06	\$11.49	\$23.59	\$0.00	\$73.14
3	70	\$44.41	\$11.49	\$23.59	\$0.00	\$79.49
4	80	\$50.75	\$11.49	\$23.59	\$0.00	\$85.83
5	90	\$57.10	\$11.49	\$23.59	\$0.00	\$92.18

Effective Date - 02/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$32.37	\$11.49	\$23.59	\$0.00	\$67.45
2	60	\$38.84	\$11.49	\$23.59	\$0.00	\$73.92
3	70	\$45.32	\$11.49	\$23.59	\$0.00	\$80.40
4	80	\$51.79	\$11.49	\$23.59	\$0.00	\$86.87
5	90	\$58.27	\$11.49	\$23.59	\$0.00	\$93.35

Notes:

Apprentice to Journeyworker Ratio:1:5

TERRAZZO MECHANIC	08/01/2024	\$64.52	\$11.49	\$23.56	\$0.00	\$99.57
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	02/01/2025	\$65.82	\$11.49	\$23.56	\$0.00	\$100.87
	08/01/2025	\$67.97	\$11.49	\$23.56	\$0.00	\$103.02
	02/01/2026	\$69.32	\$11.49	\$23.56	\$0.00	\$104.37
	08/01/2026	\$71.52	\$11.49	\$23.56	\$0.00	\$106.57
	02/01/2027	\$72.92	\$11.49	\$23.56	\$0.00	\$107.97

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - TERRAZZO MECH - Local 3 Marble/Tile (Spr/Pitt)

Effective Date - 08/01/2024

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$32.26	\$11.49	\$23.56	\$0.00	\$67.31
2	60	\$38.71	\$11.49	\$23.56	\$0.00	\$73.76
3	70	\$45.16	\$11.49	\$23.56	\$0.00	\$80.21
4	80	\$51.62	\$11.49	\$23.56	\$0.00	\$86.67
5	90	\$58.07	\$11.49	\$23.56	\$0.00	\$93.12

Effective Date - 02/01/2025

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$32.91	\$11.49	\$23.56	\$0.00	\$67.96
2	60	\$39.49	\$11.49	\$23.56	\$0.00	\$74.54
3	70	\$46.07	\$11.49	\$23.56	\$0.00	\$81.12
4	80	\$52.66	\$11.49	\$23.56	\$0.00	\$87.71
5	90	\$59.24	\$11.49	\$23.56	\$0.00	\$94.29

Notes:

Apprentice to Journeyworker Ratio:1:5

TEST BORING DRILLER	12/01/2024	\$51.28	\$9.65	\$18.22	\$0.00	\$79.15
<i>LABORERS - FOUNDATION AND MARINE</i>	06/01/2025	\$52.78	\$9.65	\$18.22	\$0.00	\$80.65
	12/01/2025	\$54.28	\$9.65	\$18.22	\$0.00	\$82.15
	06/01/2026	\$55.83	\$9.65	\$18.22	\$0.00	\$83.70
	12/01/2026	\$57.33	\$9.65	\$18.22	\$0.00	\$85.20

For apprentice rates see "Apprentice- LABORER"

TEST BORING DRILLER HELPER	12/01/2024	\$47.07	\$9.65	\$18.22	\$0.00	\$74.94
<i>LABORERS - FOUNDATION AND MARINE</i>	06/01/2025	\$48.57	\$9.65	\$18.22	\$0.00	\$76.44
	12/01/2025	\$50.07	\$9.65	\$18.22	\$0.00	\$77.94
	06/01/2026	\$51.62	\$9.65	\$18.22	\$0.00	\$79.49
	12/01/2026	\$53.12	\$9.65	\$18.22	\$0.00	\$80.99

For apprentice rates see "Apprentice- LABORER"

TEST BORING LABORER	12/01/2024	\$46.95	\$9.65	\$18.22	\$0.00	\$74.82
<i>LABORERS - FOUNDATION AND MARINE</i>	06/01/2025	\$48.45	\$9.65	\$18.22	\$0.00	\$76.32
	12/01/2025	\$49.95	\$9.65	\$18.22	\$0.00	\$77.82
	06/01/2026	\$51.50	\$9.65	\$18.22	\$0.00	\$79.37
	12/01/2026	\$53.00	\$9.65	\$18.22	\$0.00	\$80.87

For apprentice rates see "Apprentice- LABORER"

TRACTORS	12/01/2023	\$38.42	\$13.78	\$15.15	\$0.00	\$67.35
<i>OPERATING ENGINEERS LOCAL 98</i>						

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TRAILERS FOR EARTH MOVING EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2024	\$40.82	\$15.07	\$20.17	\$0.00	\$76.06
	01/01/2025	\$40.82	\$15.57	\$20.17	\$0.00	\$76.56
	06/01/2025	\$41.82	\$15.57	\$20.17	\$0.00	\$77.56
	12/01/2025	\$41.82	\$15.57	\$21.78	\$0.00	\$79.17
	01/01/2026	\$41.82	\$16.17	\$21.78	\$0.00	\$79.77
	06/01/2026	\$42.82	\$16.17	\$21.78	\$0.00	\$80.77
	12/01/2026	\$42.82	\$16.17	\$23.52	\$0.00	\$82.51
	01/01/2027	\$42.82	\$16.77	\$23.52	\$0.00	\$83.11
TUNNEL WORK - COMPRESSED AIR <i>LABORERS (COMPRESSED AIR)</i>	12/01/2024	\$59.18	\$9.65	\$19.00	\$0.00	\$87.83
	06/01/2025	\$60.68	\$9.65	\$19.00	\$0.00	\$89.33
	12/01/2025	\$62.18	\$9.65	\$19.00	\$0.00	\$90.83
	06/01/2026	\$63.73	\$9.65	\$19.00	\$0.00	\$92.38
	12/01/2026	\$65.23	\$9.65	\$19.00	\$0.00	\$93.88
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE) <i>LABORERS (COMPRESSED AIR)</i>	12/01/2024	\$61.18	\$9.65	\$19.00	\$0.00	\$89.83
	06/01/2025	\$62.68	\$9.65	\$19.00	\$0.00	\$91.33
	12/01/2025	\$64.18	\$9.65	\$19.00	\$0.00	\$92.83
	06/01/2026	\$65.73	\$9.65	\$19.00	\$0.00	\$94.38
	12/01/2026	\$67.23	\$9.65	\$19.00	\$0.00	\$95.88
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - FREE AIR <i>LABORERS (FREE AIR TUNNEL)</i>	12/01/2024	\$51.25	\$9.65	\$19.00	\$0.00	\$79.90
	06/01/2025	\$52.75	\$9.65	\$19.00	\$0.00	\$81.40
	12/01/2025	\$54.25	\$9.65	\$19.00	\$0.00	\$82.90
	06/01/2026	\$55.80	\$9.65	\$19.00	\$0.00	\$84.45
	12/01/2026	\$57.30	\$9.65	\$19.00	\$0.00	\$85.95
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - FREE AIR (HAZ. WASTE) <i>LABORERS (FREE AIR TUNNEL)</i>	12/01/2024	\$53.25	\$9.65	\$19.00	\$0.00	\$81.90
	06/01/2025	\$54.75	\$9.65	\$19.00	\$0.00	\$83.40
	12/01/2025	\$56.25	\$9.65	\$19.00	\$0.00	\$84.90
	06/01/2026	\$57.80	\$9.65	\$19.00	\$0.00	\$86.45
	12/01/2026	\$59.30	\$9.65	\$19.00	\$0.00	\$87.95
For apprentice rates see "Apprentice- LABORER"						
VAC-HAUL <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2024	\$40.24	\$15.07	\$20.17	\$0.00	\$75.48
	01/01/2025	\$40.24	\$15.57	\$20.17	\$0.00	\$75.98
	06/01/2025	\$41.24	\$15.57	\$20.17	\$0.00	\$76.98
	12/01/2025	\$41.24	\$15.57	\$21.78	\$0.00	\$78.59
	01/01/2026	\$41.24	\$16.17	\$21.78	\$0.00	\$79.19
	06/01/2026	\$42.24	\$16.17	\$21.78	\$0.00	\$80.19
	12/01/2026	\$42.24	\$16.17	\$23.52	\$0.00	\$81.93
	01/01/2027	\$42.24	\$16.77	\$23.52	\$0.00	\$82.53
WAGON DRILL OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 4 (HEAVY & HIGHWAY)</i>	12/01/2024	\$34.74	\$9.65	\$15.60	\$0.00	\$59.99
	06/01/2025	\$35.98	\$9.65	\$15.60	\$0.00	\$61.23
	12/01/2025	\$37.21	\$9.65	\$15.60	\$0.00	\$62.46
	06/01/2026	\$39.25	\$9.65	\$15.60	\$0.00	\$64.50
	12/01/2026	\$40.54	\$9.65	\$15.60	\$0.00	\$65.79
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
WATER METER INSTALLER <i>PLUMBERS & PIPEFITTERS LOCAL 104</i>	03/17/2024	\$49.21	\$9.55	\$17.10	\$0.00	\$75.86

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

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.