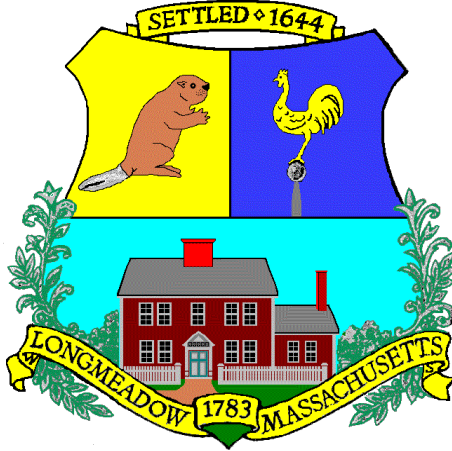


INVITATION FOR BID (IFB)

## **RUSSELL FIELD EROSION PROJECT**



TOWN OF LONGMEADOW  
MASSACHUSETTS

October 31, 2019

**INVITATION FOR BID**  
**RUSSELL FIELD EROSION PROJECT**  
**Town of Longmeadow, Massachusetts**

**INDEX:**

Legal Notice

Article 1     Objective

Article 2     Bid Documents

Article 3     Questions & Requests for Interpretation

Article 4     Submission of Bids

Article 5     Contract Award

Article 6     Terms and Conditions

Article 7     Specifications and Scope of Work:

                Section 311000-Site Clearing

                Section 312000-Earth Moving

                Section 321313-Concrete Paving

                Section 323223-Segmental Retaining Walls

                Section 329200-Turf and Grasses

Attachment A     Prevailing Wage Rate Form, and Prevailing Wage Rates

Attachment B     Sample Contract Terms and Conditions

Attachment C     Design Professionals Construction Plans: Russell Field  
Erosion Project Bliss Road, Longmeadow, Massachusetts,  
Plan set of two pages:

                        C-SP1, Site Plan, and

                        C-D1, Notes, Legend, & Details

Bid Submission Forms

## **LEGAL NOTICE:**

### **INVITATION FOR BID (IFB) RUSSELL FIELD EROSION PROJECT**

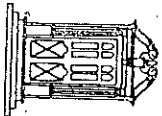
The Town of Longmeadow, MA, is accepting sealed bids for the Russell Field Erosion Project. The bid package is available from the Purchasing Department at the Town of Longmeadow, Attn: Chad Thompson-Procurement Manager, 735 Longmeadow Street, Suite 101, Longmeadow, MA 01106 ( Phone: 413-565-4185, [cthompson@longmeadow.org](mailto:cthompson@longmeadow.org) ). Bid documents are available during standard business hours, Monday-Thursday, 8am to 4:30pm; and 8am to noon on Fridays. Bid documents may also be obtained online at [www.longmeadow.org](http://www.longmeadow.org) through the Purchasing Department page of the town website, select the 'Bids & RFPs' link, and then the 'Bid & RFP Finder' link to access documents. Bidders are encouraged to register with the Purchasing Department to be added to the bid list. Those that do not register with the Purchasing Department will be responsible for monitoring the website for the issuance of updates and addenda. Failure to acknowledge the receipt of addenda may result in a bid rejection.

There is an **Optional Pre-Bid Conference** for those interested in bidding on the project. Gather at the Russell Field athletic field located on Bliss Road across the street from Longmeadow Public Schools Central Office (535 Bliss Road, Longmeadow, MA 01106, but go across the street for to the athletic field). **Gather at Russell Field on the side closest to Longmeadow Shops on Friday, November 8, 2019 at 10:00am for the optional conference.**

Sealed bids should be delivered to the Longmeadow Purchasing Department only and will be accepted until the **bid deadline of Friday, November 15, 2019 at 11:00 AM**. Bids should be labeled 'IFB: Russell Field Erosion Project', followed by the bidder's company name, address and contact information. Late bids will be rejected. Bids received will be opened immediately following the bid deadline in the auditorium located within the same building.

All bidders shall furnish with their bid a mandatory bid guarantee in the form of a bid bond, certified check, treasurer's check or cashier's check issued by a responsible bank or trust company in the amount of 5% of the total amount of the bid, made payable to the Town of Longmeadow. Wages are subject to Massachusetts minimum wage rates as per M.G.L. C.149, Section 26 to 27H, inclusive. Upon contract award a 50% payment bond will be required of the successful bidder.

All bids received will be evaluated and awarded in accordance with the provisions established under Massachusetts General Law Chapter 30, 39M. The Town of Longmeadow, acting through the Town Manager, the Awarding Authority, reserves the right to reject any or all bids, waive informalities, and to award the contract in the best interest of the Town.



town of LONGMEADOW,  
MASSACHUSETTS  
DEPARTMENT OF PUBLIC WORKS

SCALE 1" = 100'

REVISED 6/9/68  
Drawn by R. HARRIS & C. HARRIS

**INVITATION FOR BID (IFB)  
RUSSELL FIELD EROSION PROJECT**

**INSTRUCTIONS TO BIDDERS:**

**ARTICLE 1- Objective**

**1.1 Objective:**

The Town of Longmeadow is soliciting bids to remedy the erosion on the east side of the field by replacing the railroad tie retaining walls that have deteriorated with tiered, interlocked stone walls around the backstop so fans can view the games.

**ARTICLE 2- Bid Documents**

**2.1** Each Bidder by making a bid represents that they have read and understand the bidding documents, contract forms and general conditions of the contract and the bid specifications.

**2.2** Addenda will only be emailed to every individual on record as having taken a set of bid documents. Addenda will be available from the Town of Longmeadow Purchasing Department and can also be accessed through the Purchasing Department of the Town website [www.longmeadow.org](http://www.longmeadow.org) , select links for 'Bids & RFPs', then 'Bid & RFP Finder'.

**2.3** Those that are NOT on the active bid list specific for this bid and will not receive update and addenda notifications include the following:

Those that are on a Town of Longmeadow general category bid list,

Those that receive a solicitation or email from the Longmeadow Purchasing Department labeled as a 'Notification' of a specific bid opportunity and then do not reply requesting to be added to a specified active bid list for an active bid.

Those who access bid documents through other sources, such as a bid listing service, etc.

Those that do not register to be added to the active bid list will be responsible for monitoring the town website bid listing service for updates and addenda. These individuals should check at least one day prior to the bid deadline Failure to acknowledge the receipt of addenda may result in a bid rejection.

**2.4** Those that are on the active bid, bid list for this bid solicitation includes only those that notify the Longmeadow Purchasing Department that they would like to be added to the bid list for this active bid. The bidder should identify the title name of the active bid list that they would like to be added to and should also supply their complete contract information. A bidder on an active bid list will receive confirmation from the Purchasing Department that they have been added to the bid list.

**ARTICLE 3- Questions & Request for Interpretation:**

**3.1** All questions should be submitted in writing to Chad Thompson-Procurement Manager in the Purchasing Department by fax: 413-565-4185 or by email: [cthompson@longmeadow.org](mailto:cthompson@longmeadow.org) . All clarification or responses to questions that result in a change to the specifications will be issued through written addendum. Verbal interpretations will not be considered as binding.

**3.2** All questions, if any must be received by the Procurement Manager no later than 96 hours (4 days) prior to the bid deadline. Questions received after the deadline for questions will not be answered. Bidders should not contact other Town employees regarding this bid.

#### **ARTICLE 4- Submission of Bids:**

**4.1** Sealed bids should be delivered to the Town of Longmeadow Purchasing Department no later than the bid deadline date and time identified in the Legal Notice.

**4.2** Bids should be delivered in a sealed envelope labeled '**IFB: RUSSELL FIELD EROSION**' on the exterior of the envelope along with the complete contact information of the bidder (Organization name, contact name, complete address, and phone number).

**4.3** Late bids will be rejected. Timely delivery of bids to the Longmeadow Purchasing Department shall be the responsibility of the Bidder. In the event that the Town of Longmeadow is closed on the date or at the time that bids are due, the date and time of receipt of bids shall be extended to the next regular business day that the Purchasing Department of the Town of Longmeadow is open (Monday through Friday, excluding holidays), with the bid deadline time being the same time as specified in the legal notice.

**4.4** Bids should be submitted utilizing the Bid Submission Forms supplied with the bid document or revised Bid Submission Forms if they are issued through addenda. The Non-Collusion form supplied with the Bid Submission Forms must be completed, a Non-Collusion form not completed as required by law will result in a bid rejection.

**4.5** Where indicated on the Bid Submission Form, the unit price bid pricing should be supplied in both numbers and written words. Where there is a discrepancy between the numeric and written words of a bidder, the written words shall be utilized in correcting the unit pricing and further calculation of totals.

**4.6** Withdrawal of Bid: Any bid may be withdrawn prior to the time designated for receipt of bids. Provide written notification to the Longmeadow Purchasing Department. No bid may be withdrawn within thirty (30) days, Saturdays, Sundays and legal holidays excluded, after the opening of the bids.

**4.7** Before submitting a bid, each bidder must make a careful study of all specifications and bidding/contract requirements and fully assure themselves as to the quality/quantity of the materials and work required. It is strongly advised that the bidder perform a site walk at all project locations.

**4.8** The bid for this work must cover all contingencies, including all labor and materials, transportation, etc, necessary for the purchase, delivery and installation of the materials and related work required by the Town of Longmeadow. No fuel adjustment, mileage expenses or other additional unauthorized charges or fees will be allowed.

## **ARTICLE 5- Contract Award**

**5.1** The Town is soliciting pricing for the items set forth in the Bid Submission Forms. One contract will be awarded to the “lowest responsive and eligible bidder” based on the total price, the Bid Total, of the estimated quantities documented on the Bid Submission Forms. The term “lowest responsive and eligible bidder” shall mean the Bidder (1) whose bid is the lowest of those bidders possessing the skill, ability and integrity necessary for the faithful performance/supply required; (2) who has met all of the Minimum Requirements of the Invitation for Bid; (3) who shall certify that they are able to furnish labor that can work in harmony with all other elements of labor employed or to be employed in the work.

**5.2** The Town reserves the right to request and check references of the low bidders to determine if they are responsive and responsible. All bidders must submit a list of references of clients who they have performed work of similar landscape construction regarding with experience building retaining walls. The Minimum Requirements of the bidder is that they have: 1) been in the business for a minimum of one (1) full years; and 2) have completed projects involving landscape construction involving land excavation, regrading and landscaping construction involving installation of landscape walls and /or retaining walls demonstrating comparable skill. Bids received that do not meet the Minimum Requirements will result in a bid rejection and will not be considered for contract award. The Town is to have express permission to contact these people, either by phone, written correspondence or in person, as to past performance. Any negative references received will be grounds for rejection of the bid by the Town.

**5.3** All quantities shown for the estimated quantities on the Bid Submission Forms are estimates only. The Town will direct the Contractor to provide only those supplies which are actually required. The Contractor will be compensated only for the supplies accepted. Whether the supplies are more or less than the estimate, the unit pricing provided on the bid shall apply.

**5.4** Subsequent to the award and within five (5) days, Saturday, Sundays and legal holidays excluded, after the prescribed forms are presented for signature the successful bidder shall execute and deliver to the Town a completed original contract with original signatures in the form included in the contract documents. In the event that the Contractor delays the return a completed contract, the Town will supply the contract with a notification to return the contract within two days. Then if the Contractor fails to return the completed Contract to the Town, the Town reserves the right at its own discretion to withdraw the contract award offer and instead award the contract to the next “lowest responsive and eligible bidder”.

**5.5** In the event that the Town receives low bids that result in an identical tied award total price from two or more responsive and responsible bidders, the Town shall select the successful bidder by a blind selection process chosen by the Town, such as the drawing of names. The low bidders who are under consideration will be invited to attend and observe the selection process.

**5.6** Proprietary specifications: The town may have proprietary specifications for some materials utilized. Such proprietary specifications are permitted under M.G.L. c. 30, 39M(b), provided that the Town state in writing that use of the proprietary specifications is in its best interest and that it will accept an “equal” of the item specified. An item is considered equal if (i) it is at least equal in

quality, durability, appearance, strength and design; (ii) will perform the intended function at least; and (iii) conforms substantially, even with deviations, to the detailed requirements contained in the specifications.

**5.7** The bidder to whom a contract is awarded will be required to guarantee the installed materials and workmanship in writing to the Town of Longmeadow for a period of three hundred sixty-five (365) days after final acceptance and shall replace any defective materials or workmanship required without additional cost to the Town.

**5.8** The Town of Longmeadow acting through the Town Manager, the Awarding Authority reserves the right to reject any and all bids, waive minor informalities and to award a contract in the best interest of the Town.

## **ARTICLE 6: Terms and Conditions**

**6.1** A Town sample standard contract is provided within this IFB document which contains contract terms and conditions. The IFB document and addendum issued will also become part of the contract specifications, terms and conditions. Upon contract award the successful contractor will be required to complete the contract and comply with all of terms and conditions of the contract.

**6.2** Equality of Materials: All proprietary specifications, or proprietary names used for items listed in the specifications, are shown for purposes of description only and are not intended, nor should they be interpreted, to be an endorsement of any particular proprietary item. The words “or equal” are understood to follow all names of proprietary products, trade names, catalog numbers and detailed descriptions and shall be interpreted to mean any material, article, assembly, or system, which in the opinion of the Town is at least equal in quality, durability, appearance, strength and design to the equipment specified and will perform at least equally the functions imposed by the general design. The words “or equal” shall not be construed to permit substantial departure from the requirements of the specifications. The provisions of Massachusetts’s General laws shall govern.

**6.3** Performance of Services: Under the contract awarded, the successful bidder shall agree to the following:

**6.3.1** All services of the successful bidder shall be performed by qualified licensed contractor and their employees. The successful bidder shall perform its services in accordance with the highest professional standards of skill, care and diligence.

**6.3.2** Unless clearly stated in the successful bidder’s bid and incorporated into the contract, none of the services to be provided by the successful bidder pursuant to the contract shall be sub-contracted or delegated to any other organization, association, individual, corporation, partnership or other such entity without the prior written consent of the Town.

**6.3.3** The successful bidder and its personnel shall perform one hundred percent (100%) of all the work under the contract, except as may be required under emergency circumstances or as



otherwise approved by the Town, measured either in value of services rendered or in bidder's time spent on such services.

**6.3.4** The Town may require the successful bidder to relieve any of the successful bidder's personnel and sub-contractors from any further work under the contract if in the Town's sole option the individual or sub-contractor does not perform at the applicable skill level; the individual does not deliver work which conforms to the performance standards stated in the contract and the successful bidder's bid; or personality conflicts with Town personnel hinder effective progress on the work of the project or assignment for which the individual is responsible.

**6.3.5** No subcontracts or delegation shall relieve or discharge the successful bidder from any obligation or liability under the contract except as specifically set forth in the instrument of consent. The successful bidder shall be as fully responsible to the Town for acts and omissions of its sub-contractors and of persons either directly or indirectly employed by them, as it is for the acts and omissions of persons directly or indirectly employed by it.

**6.3.6** Without limiting the foregoing, the Town shall have the right to require the successful bidder to cease providing services immediately upon written notice.

**6.4** Compliance with applicable laws and regulations: This procurement is subject to the requirements under MGL, Chapter 30, Section 39M. Under the contract award, it is the successful bidder's responsibility that the contract be conducted, and that all services and other work performed by the successful bidder under the contract be performed so as to comply with all applicable federal, state and municipal laws, regulations, codes, and ordinances including prevailing wage laws as applicable. The Town intends to award the contract to one prime Bidder only, generally referred to herein as 'the successful bidder'. The successful bidder shall be solely responsible for any separate contractual agreements with its sub-contractor(s), if any are proposed and agreed to in the contract between the Town and the successful bidder.

**6.5 Bid and Contract Pricing:**

**6.5.1** All price quotes must include all charges, fees, expenses, etc., related to supplying the required equipment and installation work (including all labor and materials and any cleanup). No separate or additional costs will be paid by the Town. All costs must be included in the proposed unit pricing. Prices must be based on the total installed based on the unit pricing provided. There will be no price adjustments of unit pricing, fuel adjustment, mileage reimbursement or other expenses.

**6.5.2** The Town will provide at no additional cost to the Contractor any police detail required if needed. The Town will independently contract any police order required.

**6.5.3** Prevailing wages will apply to this contract. The successful bidder must comply with the prevailing wage laws of Massachusetts when performing work for the Town. Prevailing wage rates are provided. The successful Contractor shall submit prevailing wage reports to the Longmeadow Purchasing Department.

**6.6 Compensation:** Under the contract awarded, the successful bidder's compensation shall be made according to the following provisions:

**6.6.1** The maximum fee for all successful bidder and sub-contractor services and expenses shall not exceed the bid amount. The maximum successful bidder fee shall be all-inclusive. Compensation shall be based on the unit pricing supplied by the successful bidder multiplied by the actual quantities provided. In no event shall the Town be liable for additional charges such as interest, penalties, attorney's fees or any other expenses incurred by the successful bidder such as travel, telephone, or duplication expenses except as may be negotiated for and agreed to by the Town and set forth in writing.

**6.6.2** The successful bidder shall submit invoices for services rendered on the schedule agreed to between the Town and the successful bidder. The successful bidder's invoice shall include a description of services performed under the task or tasks in such, form, detail, and with such supporting data as the Town may reasonably require showing the computational basis for all charges. The successful bidder shall keep records pertaining to services performed employing sound bookkeeping practices and in accordance with generally accepted accounting principles.

**6.6.3** Payments under the contract will be made only to the successful bidder. The successful bidder shall be responsible for the compensation of any of its sub-contractors.

**6.6.4** The Town shall withhold a retainage of five percent (5%) of Town authorized payments due to the contract for completed work. The total retainage will be released upon final inspection and authorization by the Town Engineer that the Scope of Work is fully complete to the Town's expectations and specifications.

## **ARTICLE 7: Specifications and Scope of Work**

The Town of Longmeadow is soliciting bids to remedy the erosion on the east side of the field by replacing the railroad tie retaining walls that have deteriorated with tiered, interlocked stone walls around the backstop so fans can view the games.

Once the Contractor begins with construction services, safety fencing shall be utilized to segregate the construction site and work shall proceed in a timely manner until the project scope of work is complete. . The project shall be completed on or before March 14, 2020, the Substantial Completion Date.

## **SECTION 311000 - SITE CLEARING**

### **PART 1 - GENERAL**

#### **1.1 SUMMARY**

**A. Section Includes:**

1. Protecting existing vegetation to remain.
2. Removing existing vegetation.
3. Clearing and grubbing.
4. Stripping and stockpiling topsoil.
5. Removing above- and below-grade site improvements.
6. Disconnecting, capping or sealing site utilities.
7. Temporary erosion- and sedimentation-control measures.

#### **1.2 MATERIAL OWNERSHIP**

- A.** Except for stripped topsoil and other materials indicated to be stockpiled or otherwise remain Owner's property, cleared materials shall become Contractor's property and shall be removed from Project site.

#### **1.3 PROJECT CONDITIONS**

- A.** Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during site-clearing operations.
1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.
  2. Provide alternate routes around closed or obstructed traffic ways if required by Owner or authorities having jurisdiction.
- B.** Utility Locator Service: Notify utility locator service for area where Project is located before site clearing.
- C.** Do not commence site clearing operations until temporary erosion- and sedimentation-control measures are in place.
- D.** The following practices are prohibited within protection zones:
1. Storage of construction materials, debris, or excavated material.
  2. Parking vehicles or equipment.
  3. Foot traffic.
  4. Erection of sheds or structures.
  5. Impoundment of water.
  6. Excavation or other digging unless otherwise indicated.
  7. Attachment of signs to or wrapping materials around trees or plants unless otherwise indicated.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

- A. Satisfactory Soil Material: Requirements for satisfactory soil material are specified in Division 31 Section "Earth Moving."
  - 1. Obtain approved borrow soil material off-site when satisfactory soil material is not available on-site.

## PART 3 - EXECUTION

### 3.1 PREPARATION

- A. Protect and maintain benchmarks and survey control points from disturbance during construction.
- B. Locate and clearly identify trees, shrubs, and other vegetation to remain or to be relocated.
- C. Protect existing site improvements to remain from damage during construction.
  - 1. Restore damaged improvements to their original condition, as acceptable to Owner.

### 3.2 TEMPORARY EROSION AND SEDIMENTATION CONTROL

- A. Provide temporary erosion- and sedimentation-control measures to prevent soil erosion and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways, according to erosion- and sedimentation-control Drawings and requirements of authorities having jurisdiction.
- B. Verify that flows of water redirected from construction areas or generated by construction activity do not enter or cross protection zones.
- C. Inspect, maintain, and repair erosion- and sedimentation-control measures during construction until permanent vegetation has been established.
- D. Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.

### 3.3 TREE AND PLANT PROTECTION

- A. General: Protect trees and plants remaining on-site.
- B. Repair or replace trees, shrubs, and other vegetation indicated to remain or be relocated that are damaged by construction operations, in a manner approved by Owner.

### 3.4 EXISTING UTILITIES

- A. Interrupting Existing Utilities: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:
  - 1. Notify Owner not less than two days in advance of proposed utility interruptions.
  - 2. Do not proceed with utility interruptions without Architect's written permission.

### 3.5 CLEARING AND GRUBBING

- A. Remove obstructions, trees, shrubs, and other vegetation to permit installation of new construction.
  - 1. Grind down stumps and remove roots, obstructions, and debris to a depth of 18 inches (450 mm) below exposed subgrade.
  - 2. Use only hand methods for grubbing within protection zones.
- B. Fill depressions caused by clearing and grubbing operations with satisfactory soil material unless further excavation or earthwork is indicated.
  - 1. Place fill material in horizontal layers not exceeding a loose depth of 6 inches, and compact each layer to a density equal to adjacent original ground.

### 3.6 TOPSOIL STRIPPING

- A. Remove sod and grass before stripping topsoil.
- B. Strip topsoil in a manner to prevent intermingling with underlying subsoil or other waste materials.
- C. Stockpile topsoil away from edge of excavations without intermixing with subsoil. Grade and shape stockpiles to drain surface water. Cover to prevent windblown dust and erosion by water.

### 3.7 SITE IMPROVEMENTS

- A. Remove existing above- and below-grade improvements as indicated and necessary to facilitate new construction.

### 3.8 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A. Remove surplus soil material, unsuitable topsoil, obstructions, demolished materials, and waste materials including trash and debris, and legally dispose of them off Owner's property.
- B. Separate recyclable materials produced during site clearing from other nonrecyclable materials. Store or stockpile without intermixing with other materials and transport them to recycling facilities. Do not interfere with other Project work.

END OF SECTION 311000

## **SECTION 312000 - EARTH MOVING**

### **PART 1 - GENERAL**

#### **1.1 SUMMARY**

**A. Section Includes:**

1. Preparing subgrades for slabs-on-grade, walks, pavements, and turf and grasses.
2. Excavating and backfilling for structures.
3. Drainage course for concrete slabs-on-grade.
4. Subbase course for concrete pavements.

#### **1.2 DEFINITIONS**

**A. Backfill:** Soil material used to fill an excavation.

1. Initial Backfill: Backfill placed beside and over pipe in a trench, including haunches to support sides of pipe.
2. Final Backfill: Backfill placed over initial backfill to fill a trench.

**B. Base Course:** Aggregate layer placed between the subbase course and hot-mix asphalt paving.

**C. Bedding Course:** Aggregate layer placed over the excavated subgrade in a trench before laying pipe.

**D. Borrow Soil:** Satisfactory soil imported from off-site for use as fill or backfill.

**E. Drainage Course:** Aggregate layer supporting the slab-on-grade that also minimizes upward capillary flow of pore water.

**F. Excavation:** Removal of material encountered above subgrade elevations and to lines and dimensions indicated.

1. Authorized Additional Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions as directed by Architect. Authorized additional excavation and replacement material will be paid for according to Contract provisions for changes in the Work.
2. Unauthorized Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions without direction by Architect. Unauthorized excavation, as well as remedial work directed by Architect, shall be without additional compensation.

**G. Fill:** Soil materials used to raise existing grades.

**H. Structures:** Buildings, footings, foundations, retaining walls, slabs, tanks, curbs, mechanical and electrical appurtenances, or other man-made stationary features constructed above or below the ground surface.

**I. Subbase Course:** Aggregate layer placed between the subgrade and base course for hot-mix asphalt pavement, or aggregate layer placed between the subgrade and a cement concrete pavement or a cement concrete or hot-mix asphalt walk.

- J. Subgrade: Uppermost surface of an excavation or the top surface of a fill or backfill immediately below subbase, drainage fill, drainage course, or topsoil materials.
- K. Utilities: On-site underground pipes, conduits, ducts, and cables, as well as underground services within buildings.

### 1.3 QUALITY ASSURANCE

- A. Preexcavation Conference: Conduct conference at Project site with Owner's representative.

### 1.4 PROJECT CONDITIONS

- A. Utility Locator Service: Notify utility locator service for area where Project is located before beginning earth moving operations.
- B. Do not commence earth moving operations until plant-protection measures are in place.

## PART 2 - PRODUCTS

### 2.1 SOIL MATERIALS

- A. General: Provide borrow soil materials when sufficient satisfactory soil materials are not available from excavations.
- B. Satisfactory Soils: Soil Classification Groups GW, GP, GM, SW, SP, and SM according to ASTM D 2487], or a combination of these groups; free of rock or gravel larger than 3 inches in any dimension, debris, waste, frozen materials, vegetation, and other deleterious matter.
  - 1. Liquid Limit: <Insert value>.
  - 2. Plasticity Index: <Insert value>.
- C. Unsatisfactory Soils: Soil Classification Groups GC, SC, CL, ML, OL, CH, MH, OH, and PT according to ASTM D 2487, or a combination of these groups.
  - 1. Unsatisfactory soils also include satisfactory soils not maintained within 2 percent of optimum moisture content at time of compaction.
- D. Subbase Material: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 90 percent passing a 1-1/2-inch (37.5-mm) sieve and not more than 12 percent passing a No. 200 (0.075-mm) sieve.
- E. Base Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 95 percent passing a 1-1/2-inch (37.5-mm) sieve and not more than 8 percent passing a No. 200 (0.075-mm) sieve.
- F. Engineered Fill: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; with at least 90 percent passing a 1-1/2-inch (37.5-mm) sieve and not more than 12 percent passing a No. 200 (0.075-mm) sieve.



- G. Bedding Course: Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand; ASTM D 2940; except with 100 percent passing a 1-inch (25-mm) sieve and not more than 8 percent passing a No. 200 (0.075-mm) sieve.
- H. Drainage Course: Narrowly graded mixture of crushed stone, or crushed or uncrushed gravel; ASTM D 448; coarse-aggregate grading Size 57; with 100 percent passing a 1-1/2-inch (37.5-mm) sieve and 0 to 5 percent passing a No. 8 (2.36-mm) sieve.

## PART 3 - EXECUTION

### 3.1 PREPARATION

- A. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earth moving operations.
- B. Protect and maintain erosion and sedimentation controls during earth moving operations.
- C. Protect subgrades and foundation soils from freezing temperatures and frost. Remove temporary protection before placing subsequent materials.

### 3.2 EXCAVATION, GENERAL

- A. Unclassified Excavation: Excavate to subgrade elevations regardless of the character of surface and subsurface conditions encountered. Unclassified excavated materials may include rock, soil materials, and obstructions. No changes in the Contract Sum or the Contract Time will be authorized for rock excavation or removal of obstructions.
  - 1. If excavated materials intended for fill and backfill include unsatisfactory soil materials and rock, replace with satisfactory soil materials.

### 3.3 EXCAVATION FOR STRUCTURES

- A. Excavate to indicated elevations and dimensions within a tolerance of plus or minus 1 inch (25 mm). If applicable, extend excavations a sufficient distance from structures for placing and removing concrete formwork, for installing services and other construction, and for inspections.
  - 1. Excavations for Footings and Foundations: Do not disturb bottom of excavation. Excavate by hand to final grade just before placing concrete reinforcement. Trim bottoms to required lines and grades to leave solid base to receive other work.
- B. Excavations at Edges of Tree- and Plant-Protection Zones:
  - 1. Excavate by hand to indicated lines, cross sections, elevations, and subgrades. Use narrow-tine spading forks to comb soil and expose roots. Do not break, tear, or chop exposed roots. Do not use mechanical equipment that rips, tears, or pulls roots.
  - 2. Cut and protect roots according to requirements in Division 01 Section "Temporary Tree and Plant Protection."

### 3.4 EXCAVATION FOR WALKS AND PAVEMENTS

- A. Excavate surfaces under walks and pavements to indicated lines, cross sections, elevations, and subgrades.

### 3.5 SUBGRADE INSPECTION

- A. Proof-roll subgrade with a pneumatic-tired dump truck to identify soft pockets and areas of excess yielding. Do not proof-roll wet or saturated subgrades.
- B. Reconstruct subgrades damaged by freezing temperatures, frost, rain, accumulated water, or construction activities, as directed by Owner, without additional compensation.

### 3.6 UNAUTHORIZED EXCAVATION

- A. Fill unauthorized excavation under foundations or wall footings by extending bottom elevation of concrete foundation or footing to excavation bottom, without altering top elevation. Lean concrete fill, with 28-day compressive strength of 2500 psi (17.2 MPa), may be used when approved by Owner.

### 3.7 STORAGE OF SOIL MATERIALS

- A. Stockpile borrow soil materials and excavated satisfactory soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust. Ring with silt fence to prevent erosion.
  - 1. Stockpile soil materials away from edge of excavations. Do not store within drip line of remaining trees.

### 3.8 SOIL FILL

- A. Plow, scarify, bench, or break up sloped surfaces steeper than 1 vertical to 4 horizontal so fill material will bond with existing material.
- B. Place and compact fill material in layers to required elevations as follows:
  - 1. Under grass and planted areas, use satisfactory soil material.
  - 2. Under walks and pavements, use satisfactory soil material.
  - 3. Under steps and ramps, use engineered fill.
  - 4. Under footings and foundations, use engineered fill.

### 3.9 SOIL MOISTURE CONTROL

- A. Uniformly moisten or aerate subgrade and each subsequent fill or backfill soil layer before compaction to within 2 percent of optimum moisture content.
  - 1. Do not place backfill or fill soil material on surfaces that are muddy, frozen, or contain frost or ice.

2. Remove and replace, or scarify and air dry, otherwise satisfactory soil material that exceeds optimum moisture content by 2 percent and is too wet to compact to specified dry unit weight.

### 3.10 COMPACTION OF SOIL BACKFILLS AND FILLS

- A. Place backfill and fill soil materials in layers not more than 6 inches in loose depth for material compacted by heavy compaction equipment, and not more than 4 inches (100 mm) in loose depth for material compacted by hand-operated tampers.
- B. Place backfill and fill soil materials evenly on all sides of structures to required elevations, and uniformly along the full length of each structure.
- C. Compact soil materials to not less than the following percentages of maximum dry unit weight according to ASTM D 698:
  1. Under structures, building slabs, steps, and pavements, scarify and recompact top 12 inches (300 mm) of existing subgrade and each layer of backfill or fill soil material at 95 percent.
  2. Under walkways, scarify and recompact top 6 inches (150 mm) below subgrade and compact each layer of backfill or fill soil material at 92 percent.
  3. Under turf or unpaved areas, scarify and recompact top 6 inches (150 mm) below subgrade and compact each layer of backfill or fill soil material at 85 percent.

### 3.11 GRADING

- A. General: Uniformly grade areas to a smooth surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.
- B. Site Rough Grading: Slope grades to direct water away from buildings and structures, and to prevent ponding. Finish subgrades to required elevations within the following tolerances:
  1. Turf or Unpaved Areas: Plus or minus 1 inch (25 mm).
  2. Walks: Plus or minus 1/2 inch (13 mm).
  3. Pavements: Plus or minus 1/2 inch (13 mm).

### 3.12 SUBBASE AND BASE COURSES UNDER PAVEMENTS AND WALKS

- A. Place base course on subgrades free of mud, frost, snow, or ice.
- B. On prepared subgrade, place base course under pavements and walks as follows:
  1. Shape base course to required crown elevations and cross-slope grades.
  2. Compact base course at optimum moisture content to required grades, lines, cross sections, and thickness to not less than 95 percent of maximum dry unit weight according to ASTM D 698.

### 3.13 PROTECTION

- A. Protecting Graded Areas: Protect newly graded areas from traffic, freezing, and erosion. Keep free of trash and debris.

- B. Repair and reestablish grades to specified tolerances where completed or partially completed surfaces become eroded, rutted, settled, or where they lose compaction due to subsequent construction operations or weather conditions.
- C. Where settling occurs before Project correction period elapses, remove finished surfacing, backfill with additional soil material, compact, and reconstruct surfacing.
  - 1. Restore appearance, quality, and condition of finished surfacing to match adjacent work, and eliminate evidence of restoration to greatest extent possible.

#### 3.14 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A. Remove surplus satisfactory soil and waste materials, including unsatisfactory soil, trash, and debris, and legally dispose of them off Owner's property.

END OF SECTION 312000

## **SECTION 321313 - CONCRETE PAVING**

### **PART 1 - GENERAL**

#### **1.1 SUMMARY**

- A. Section Includes:
  - 1. Walks/Concrete Pads.

#### **1.2 SUBMITTALS**

- A. Product Data: For each type of product indicated.

#### **1.3 QUALITY ASSURANCE**

- A. Ready-Mix-Concrete Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C 94/C 94M requirements for production facilities and equipment.
- B. ACI Publications: Comply with ACI 301 unless otherwise indicated.

### **PART 2 - PRODUCTS**

#### **2.1 CONCRETE MATERIALS**

- A. Concrete: Per Mass Highway Standard Specifications for Highways & Bridges, Section M4.02.00.
- B. Aggregate base: Per Mass Highway Standard Specifications for Highways & Bridges, Section M1.01.01.

### **PART 3 - EXECUTION**

#### **3.1 EXAMINATION AND PREPARATION**

- A. Proof-roll prepared subbase surface below concrete paving to identify soft pockets and areas of excess yielding.
- B. Remove loose material from compacted subbase surface immediately before placing concrete.

#### **3.2 EDGE FORMS AND SCREED CONSTRUCTION**

- A. Set, brace, and secure edge forms, bulkheads, and intermediate screed guides to required lines, grades, and elevations. Install forms to allow continuous progress of work and so forms can remain in place at least 24 hours after concrete placement.

- B. Clean forms after each use and coat with form-release agent to ensure separation from concrete without damage.

### 3.3 STEEL REINFORCEMENT

- A. General: Comply with CRSI's "Manual of Standard Practice" for fabricating, placing, and supporting reinforcement.

### 3.4 JOINTS

- A. General: Form construction, isolation, and contraction joints and tool edges true to line, with faces perpendicular to surface plane of concrete. Construct transverse joints at right angles to centerline unless otherwise indicated.
- B. Construction Joints: Set construction joints at side and end terminations of paving and at locations where paving operations are stopped for more than one-half hour unless paving terminates at isolation joints.
- C. Isolation Joints: Form isolation joints of preformed joint-filler strips abutting concrete curbs, catch basins, manholes, inlets, structures, other fixed objects, and where indicated.
- D. Contraction Joints: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of the concrete thickness[, **to match jointing of existing adjacent concrete paving**]:
- E. Edging: After initial floating, tool edges of paving, gutters, curbs, and joints in concrete with an edging tool to a 1/4-inch (6-mm) radius. Repeat tooling of edges after applying surface finishes. Eliminate edging-tool marks on concrete surfaces.

### 3.5 CONCRETE PLACEMENT

- A. Moisten subbase to provide a uniform dampened condition at time concrete is placed.
- B. Comply with ACI 301 requirements for measuring, mixing, transporting, placing, and consolidating concrete.
- C. Deposit and spread concrete in a continuous operation between transverse joints. Do not push or drag concrete into place or use vibrators to move concrete into place.
- D. Screed paving surface with a straightedge and strike off.
- E. Commence initial floating using bull floats or darbies to impart an open-textured and uniform surface plane before excess moisture or bleed water appears on the surface. Do not further disturb concrete surfaces before beginning finishing operations or spreading surface treatments.

### 3.6 FLOAT FINISHING

- A. General: Do not add water to concrete surfaces during finishing operations.
- B. Float Finish: Begin the second floating operation when bleed-water sheen has disappeared and concrete surface has stiffened sufficiently to permit operations. Float surface with power-driven

floats or by hand floating if area is small or inaccessible to power units. Finish surfaces to true planes. Cut down high spots and fill low spots. Refloat surface immediately to uniform granular texture.

1. Medium-to-Coarse-Textured Broom Finish: Provide a coarse finish by striating float-finished concrete surface 1/16 to 1/8 inch (1.6 to 3 mm) deep with a stiff-bristled broom, perpendicular to line of traffic.

### 3.7 CONCRETE PROTECTION AND CURING

- A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures.
- B. Comply with ACI 306.1 for cold-weather protection.
- C. Evaporation Retarder: Apply evaporation retarder to concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h (1 kg/sq. m x h) before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete but before float finishing.
- D. Begin curing after finishing concrete but not before free water has disappeared from concrete surface.
- E. Curing Methods: Cure concrete by moisture curing, moisture-retaining-cover curing, curing compound, or a combination of these.

### 3.8 PAVING TOLERANCES

- A. Comply with tolerances in ACI 117 and as follows:
  1. Elevation: 3/4 inch (19 mm).
  2. Thickness: Plus 3/8 inch (10 mm), minus 1/4 inch (6 mm).
  3. Surface: Gap below 10-foot- (3-m-) long, unlevelled straightedge not to exceed 1/2 inch (13 mm).
  4. Joint Spacing: 3 inches (75 mm).
  5. Contraction Joint Depth: Plus 1/4 inch (6 mm), no minus.
  6. Joint Width: Plus 1/8 inch (3 mm), no minus.

### 3.9 REPAIRS AND PROTECTION

- A. Remove and replace concrete paving that is broken, damaged, or defective or that does not comply with requirements in this Section. Remove work in complete sections from joint to joint unless otherwise approved by Architect.
- B. Protect concrete paving from damage. Exclude traffic from paving for at least 14 days after placement. When construction traffic is permitted, maintain paving as clean as possible by removing surface stains and spillage of materials as they occur.
- C. Maintain concrete paving free of stains, discoloration, dirt, and other foreign material. Sweep paving not more than two days before date scheduled for Substantial Completion inspections.

END OF SECTION 321313

## **SECTION 323223 - SEGMENTAL RETAINING WALLS**

### **PART 1 - GENERAL**

#### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

#### **1.2 SUMMARY**

- A. This Section includes single-depth segmental retaining walls without soil reinforcement.
- B. Related Requirements:
  - 1. Section 312000 "Earth Moving" for excavation for segmental retaining walls.

#### **1.3 ACTION SUBMITTALS**

- A. Product Data: For each type of product.
- B. Delegated-Design Submittal: For segmental retaining walls.

#### **1.4 INFORMATIONAL SUBMITTALS**

- A. Product Certificates: For each type of segmental retaining wall unit] from manufacturer.
  - 1. Include test data for shear strength between segmental retaining wall units in accordance with ASTM D6916.
  - 2. Include test data for connection strength between segmental retaining wall units and soil reinforcement in accordance with ASTM D6638.
- B. Product Test Reports: For each type of segmental retaining wall unit, for tests performed by a qualified testing agency.
  - 1. Include test data for freeze-thaw durability of segmental retaining wall units.
  - 2. Include test data for shear strength between segmental retaining wall units in accordance with ASTM D6916.
  - 3. Include test data for connection strength between segmental retaining wall units and soil reinforcement in accordance with ASTM D6638.

#### **1.5 QUALITY ASSURANCE**

- A. Testing Agency Qualifications: Qualified in accordance with ASTM E329 for testing indicated.



## 1.6 PRECONSTRUCTION TESTING

- A. Preconstruction Testing Service: Engage a qualified testing agency to perform the following preconstruction testing:
  - 1. Test soil reinforcement and backfill materials for pullout resistance in accordance with ASTM D6706.
  - 2. Test soil reinforcement and backfill materials for coefficient of friction in accordance with ASTM D5321.

## 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store and handle concrete units and accessories to prevent deterioration or damage due to contaminants, breaking, chipping, or other causes.
- B. Store geosynthetics in manufacturer's original packaging with labels intact. Store and handle geosynthetics to prevent deterioration or damage due to sunlight, chemicals, flames, temperatures above 160 deg F (71 deg C) or below 32 deg F (0 deg C), and other conditions that might damage them. Verify identification of geosynthetics before use, and examine them for defects as material is placed.

## PART 2 - PRODUCTS

### 2.1 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Engage a qualified professional engineer recommended by the manufacturer to design segmental retaining walls.
- B. Structural Performance: Engineering design shall be based on the following loads and be in accordance with NCMA's "Design Manual for Segmental Retaining Walls."
  - 1. Gravity loads due to soil pressures resulting from grades indicated.
- C. Machine Placed Concrete Units: ASTM C1372, Normal Weight, except that maximum water absorption shall not exceed 7 percent by weight and units shall not differ in height more than plus or minus 1/16 inch (1.6 mm) from specified dimension.
  - 1. Provide units that comply with requirements in ASTM C1372 for freeze-thaw durability.
  - 2. Color: As selected by Owner from manufacturer's standard range of colors.
  - 3. Shape and Texture: Provide units of any basic shape and dimensions that produce segmental retaining walls of dimensions and profiles indicated without interfering with other elements of the Work and with machine-split textured face.
    - a. Batter: Provide units that offset from course below to provide batter.
    - b. Cap Units: Provide cap units of same shape as base units.
    - c. Special Units: Provide corner units, end units, and other shapes as needed to produce segmental retaining walls of dimensions and profiles indicated and to provide texture on exposed surfaces matching face.

## 2.2 INSTALLATION MATERIALS

- A. Cap Adhesive: Product supplied or recommended by segmental retaining wall unit manufacturer for adhering cap units to units below.
- B. Leveling Base:
  - 1. The leveling base material shall be non-frost susceptible, well-graded, compacted angular gravel-sand mixture (GW as per ASTM D2487).
  - 2. Additional information may be required, which could include the following:
    - a. Effective friction angle (direct shear or triaxial).
    - b. Soil gradation curve; ASTM D422.
    - c. Soil pH; ASTM D4972.
    - d. Permeability coefficient "Q."
    - e. Potential for consolidation.
  - 3. Comply with requirements in Section 312000 "Earth Moving" for base and drainage course.
- C. Drainage Fill: Comply with requirements in Section 312000 "Earth Moving" for drainage course.
  - 1. Drainage fill shall be a free-drainage angular, gravel material of uniform particle size larger than 1/4 inch (6 mm) and smaller than 1 inch (25 mm).
  - 2. Additional information may be required, which could include the following:
    - a. Effective friction angle (direct shear or triaxial).
    - b. Soil gradation curve; ASTM D422.
    - c. Soil pH; ASTM D4972.
    - d. Permeability coefficient "Q."
    - e. Potential for consolidation.
- D. Reinforced-Soil Fill: Comply with requirements in Section 312000 "Earth Moving" for satisfactory soils.
- E. Nonreinforced-Soil Fill: Comply with requirements in Section 312000 "Earth Moving" for satisfactory soils.
- F. Drainage Geotextile: Nonwoven needle-punched geotextile, manufactured for subsurface drainage applications, made from polyolefins or polyesters; with elongation greater than 50 percent.
  - 1. Apparent Opening Size: No. 70 to 100 (0.212- to 0.150-mm) sieve, maximum; ASTM D4751.
  - 2. Minimum Grab Tensile Strength: 110 lb (49.9 kg); ASTM D4632.
  - 3. Minimum Weight: 4 oz./sq. yd. (132 g/sq. m).
- G. Soil Reinforcement: Product specifically manufactured for use as soil reinforcement and as follows:
  - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    - a. Bonar Inc.; a Low & Bonar company.
    - b. Mirafi Construction Products.

- c. Strata Systems, Inc.
- d. Wall Engineer approved equivalent.

### 2.3 SOURCE QUALITY CONTROL

- A. Factory test and inspect each roll of soil reinforcement for minimum average roll values for geosynthetic index property tests, including the following:
  - 1. Weight.
  - 2. Grab or single-rib strength.
  - 3. Aperture opening.
  - 4. Rib or yarn size.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine areas and conditions, with Installer present, for compliance with requirements for excavation tolerances, condition of subgrades, and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 RETAINING WALL INSTALLATION

- A. General: Place units in accordance with NCMA's "Segmental Retaining Wall Installation Guide" and segmental retaining wall unit manufacturer's written instructions.
  - 1. Lay units in running bond pattern.
  - 2. Form corners and ends by using special units.
- B. Do not use units with chips, cracks, or other defects that are visible at a distance of 20 ft. (6 m) where such defects are exposed in the completed Work.
- C. Leveling Base: Place and compact base material to thickness indicated and with not less than 98 percent maximum dry unit weight in accordance with ASTM D698.
- D. First Course: Place first course of segmental retaining wall units for full length of wall. Place units in firm contact with each other, properly aligned and level.
  - 1. Tamp units into leveling base as necessary to bring tops of units into a level plane.
- E. Subsequent Courses: Remove excess fill and debris from tops of units in course below. Place units in firm contact, properly aligned, and directly on course below.
  - 1. For units with lugs designed to fit into holes in adjacent units, lay units so lugs are accurately aligned with holes, and bedding surfaces are firmly seated on beds of units below.
  - 2. For units with lips at front of units, slide units as far forward as possible for firm contact with lips of units below.

3. For units with lips at bottom rear of units, slide units as far forward as possible for firm contact of lips with units below.
  4. For units with pins, install pins and align units.
  5. For units with clips, install clips and align units.
- F. Cap Units: Place cap units and secure with cap adhesive.

### 3.3 FILL PLACEMENT

- A. General: Comply with requirements in Section 312000 "Earth Moving," with NCMA's "Segmental Retaining Wall Installation Guide," and with segmental retaining wall unit manufacturer's written instructions.
- B. Fill voids between and within units with drainage fill. Place fill as each course of units is laid.
- C. Place, spread, and compact drainage fill and soil fill in uniform lifts for full width and length of embankment as wall is laid. Place and compact fills without disturbing alignment of units. Where both sides of wall are indicated to be filled, place fills on both sides at same time. Begin at wall, and place and spread fills toward embankment.
  1. Use only hand-operated compaction equipment within 48 inches (1200 mm) of wall, or one-half of height above bottom of wall, whichever is greater.
  2. Compact reinforced-soil fill to not less than 95 percent maximum dry unit weight in accordance with ASTM D698.
    - a. In areas where only hand-operated compaction equipment is allowed, compact fills to not less than 90 percent maximum dry unit weight in accordance with ASTM D698.
  3. Compact nonreinforced-soil fill to comply with Section 312000 "Earth Moving."
- D. Place drainage geotextile against back of wall, and place layer of drainage fill at least **[12 inches (300 mm)] [6 inches (150 mm)]** wide behind drainage geotextile to within **12 inches (300 mm)** of finished grade. Place another layer of drainage geotextile between drainage fill and soil fill.
- E. Place a layer of drainage fill at least 12 inches wide behind wall to within 12 inches (300 mm) of finished grade. Place a layer of drainage geotextile between drainage fill and soil fill.
- F. Wrap subdrainage pipe with filter fabric and place in drainage fill as indicated, sloped not less than 0.5 percent to drain.
- G. Place impervious fill over top edge of drainage fill layer.
- H. Slope grade at top of wall away from wall unless otherwise indicated. Slope grade at wall base away from wall. Provide uniform slopes that prevent ponding.
- I. Place soil reinforcement in horizontal joints of retaining wall where indicated and in accordance with soil-reinforcement manufacturer's written instructions. Place embed reinforcement within 1 inch (25 mm) from face of wall and stretched tight over compacted backfill. Anchor soil reinforcement before placing fill.
  1. Place additional soil reinforcement at corners and curved walls to provide continuous reinforcement.

2. Place geosynthetics with seams, if any, oriented perpendicular to segmental retaining walls.
3. Do not dump fill material directly from trucks onto geosynthetics.
4. Place at least 6 inches (150 mm) of fill over reinforcement before compacting with tracked vehicles or 4 inches (100 mm) before compacting with rubber-tired vehicles.
5. Do not turn vehicles on fill until first layer of fill is compacted and second layer is placed over each soil-reinforcement layer.

### 3.4 CONSTRUCTION TOLERANCES

- A. Variation from Level: For bed-joint lines along walls, do not exceed 1-1/4 inches in 10 ft. (32 mm in 3 m), 3 inches (75 mm) maximum.
- B. Variation from Indicated Batter: For slope of wall face, do not vary from indicated slope by more than 1-1/4 inches in 10 ft. (32 mm in 3 m).
- C. Variation from Indicated Wall Line: For walls indicated as straight, do not vary from straight line by more than 1-1/4 inches in 10 ft. (32 mm in 3 m).
- D. Maximum Gap between Units: 1/8 inch (3 mm).

### 3.5 ADJUSTING

- A. Remove and replace segmental retaining wall construction of the following descriptions:
  1. Broken, chipped, stained, or otherwise damaged units. Units may be repaired if Owner approves methods and results.
  2. Segmental retaining walls that do not match approved Samples and mockups.
  3. Segmental retaining walls that do not comply with other requirements indicated.
- B. Replace units so segmental retaining wall matches approved Samples and mockups, complies with other requirements, and shows no evidence of replacement.

END OF SECTION 323223

## SECTION 329200 - TURF AND GRASSES

### PART 1 - GENERAL

#### 1.1 SUMMARY

A. Section Includes:

1. Seeding.

#### 1.2 DEFINITIONS

- A. Duff Layer: The surface layer of native topsoil that is composed of mostly decayed leaves, twigs, and detritus.
- B. Finish Grade: Elevation of finished surface of planting soil.
- C. Manufactured Topsoil: Soil produced off-site by homogeneously blending mineral soils or sand with stabilized organic soil amendments to produce topsoil or planting soil.
- D. Pesticide: A substance or mixture intended for preventing, destroying, repelling, or mitigating a pest. This includes insecticides, miticides, herbicides, fungicides, rodenticides, and molluscicides. It also includes substances or mixtures intended for use as a plant regulator, defoliant, or desiccant.
- E. Pests: Living organisms that occur where they are not desired or that cause damage to plants, animals, or people. These include insects, mites, grubs, mollusks (snails and slugs), rodents (gophers, moles, and mice), unwanted plants (weeds), fungi, bacteria, and viruses.
- F. Planting Soil: Standardized topsoil; existing, native surface topsoil; existing, in-place surface soil; imported topsoil; or manufactured topsoil that is modified with soil amendments and perhaps fertilizers to produce a soil mixture best for plant growth.
- G. Subgrade: Surface or elevation of subsoil remaining after excavation is complete, or top surface of a fill or backfill before planting soil is placed.
- H. Subsoil: All soil beneath the topsoil layer of the soil profile, and typified by the lack of organic matter and soil organisms.
- I. Surface Soil: Whatever soil is present at the top layer of the existing soil profile at the Project site. In undisturbed areas, the surface soil is typically topsoil, but in disturbed areas such as urban environments, the surface soil can be subsoil.

#### 1.3 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Certification of grass seed.
1. Certification of each seed mixture.

#### 1.4 QUALITY ASSURANCE

- A. Installer's Field Supervision: Require Installer to maintain an experienced full-time supervisor on Project site when work is in progress.

- 1. Pesticide Applicator: State licensed, commercial.

#### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Seed and Other Packaged Materials: Deliver packaged materials in original, unopened containers showing weight, certified analysis, name and address of manufacturer, and indication of conformance with state and federal laws, as applicable.
- B. Sod: Harvest, deliver, store, and handle sod according to requirements in "Specifications for Turfgrass Sod Materials" and "Specifications for Turfgrass Sod Transplanting and Installation" in TPI's "Guideline Specifications to Turfgrass Sodding." Deliver sod in time for planting within 24 hours of harvesting. Protect sod from breakage and drying.

#### 1.6 MAINTENANCE SERVICE

- A. Initial Turf Maintenance Service: Provide full maintenance by skilled employees of landscape Installer. Maintain as required in Part 3. Begin maintenance immediately after each area is planted and continue until acceptable turf is established but for not less than the following periods:
  - 1. Seeded Turf: Until satisfactory growth as determined by Owner.
    - a. When initial maintenance period has not elapsed before end of planting season, or if turf is not fully established, continue maintenance during next planting season.

### PART 2 - PRODUCTS

#### 2.1 SEED

- A. Grass Seed: Fresh, clean, dry, new-crop seed complying with AOSA's "Journal of Seed Technology; Rules for Testing Seeds" for purity and germination tolerances.
- B. Seed Species: State-certified seed of grass species as shown on the plans.

#### 2.2 INORGANIC SOIL AMENDMENTS

- A. Lime: ASTM C 602, agricultural liming material containing a minimum of 80 percent calcium carbonate equivalent and as follows:
  - 1. Class: T, with a minimum of 99 percent passing through No. 8 (2.36-mm) sieve and a minimum of 75 percent passing through No. 60 (0.25-mm) sieve.
  - 2. Class: O, with a minimum of 95 percent passing through No. 8 (2.36-mm) sieve and a minimum of 55 percent passing through No. 60 (0.25-mm) sieve.

- B. Sulfur: Granular, biodegradable, containing a minimum of 90 percent sulfur, and with a minimum of 99 percent passing through No. 6 (3.35-mm) sieve and a maximum of 10 percent passing through No. 40 (0.425-mm) sieve.
- C. Iron Sulfate: Granulated ferrous sulfate containing a minimum of 20 percent iron and 10 percent sulfur.
- D. Aluminum Sulfate: Commercial grade, unadulterated.
- E. Perlite: Horticultural perlite, soil amendment grade.
- F. Agricultural Gypsum: Minimum 90 percent calcium sulfate, finely ground with 90 percent passing through No. 50 (0.30-mm) sieve.
- G. Sand: Clean, washed, natural or manufactured, and free of toxic materials.
- H. Diatomaceous Earth: Calcined, 90 percent silica, with approximately 140 percent water absorption capacity by weight.
- I. Zeolites: Mineral clinoptilolite with at least 60 percent water absorption by weight.

## 2.3 FERTILIZERS

- A. Commercial Fertilizer: Commercial-grade complete fertilizer of neutral character, consisting of fast- and slow-release nitrogen, 50 percent derived from natural organic sources of urea formaldehyde, phosphorous, and potassium in the following composition:
  - 1. Composition: 1 lb/1000 sq. ft. (0.45 kg/92.9 sq. m) of actual nitrogen, 4 percent phosphorous, and 2 percent potassium, by weight.
- B. Slow-Release Fertilizer: Granular or pelleted fertilizer consisting of 50 percent water-insoluble nitrogen, phosphorus, and potassium in the following composition:
  - 1. Composition: 20 percent nitrogen, 10 percent phosphorous, and 10 percent potassium, by weight.

## 2.4 PLANTING SOILS

- A. Planting Soil Existing, in-place surface soil. Verify suitability of soil to produce viable planting soil. Clean soil of roots, plants, sod, stones, clods, clay lumps, pockets of coarse sand, concrete slurry, concrete layers or chunks, cement, plaster, building debris, and other extraneous materials harmful to plant growth. Mix soil with the following soil amendments in the following quantities to produce planting soil:
  - 1. Weight of Commercial Fertilizer per 1000 Sq. Ft. (92.9 Sq. m): 1 lb.
  - 2. Weight of Slow-Release Fertilizer per 1000 Sq. Ft. (92.9 Sq. m): 1 lb.

## 2.5 MULCHES

- A. Straw Mulch: Provide air-dry, clean, mildew- and seed-free, salt hay or threshed straw of wheat, rye, oats, or barley.



## 2.6 PESTICIDES

- A. General: Pesticide, registered and approved by EPA, acceptable to authorities having jurisdiction, and of type recommended by manufacturer for each specific problem and as required for Project conditions and application. Do not use restricted pesticides unless authorized in writing by authorities having jurisdiction.

## PART 3 - EXECUTION

### 3.1 TURF AREA PREPARATION

- A. Newly Graded Subgrades: Loosen subgrade to a minimum depth of 6 inches. Remove stones larger than 1 inch in any dimension and sticks, roots, rubbish, and other extraneous matter and legally dispose of them off Owner's property.
  - 1. Apply fertilizer directly to subgrade before loosening.
  - 2. Thoroughly blend planting soil off-site before spreading or spread topsoil, apply soil amendments and fertilizer on surface, and thoroughly blend planting soil.
  - 3. Spread planting soil to a depth of 6 inches but not less than required to meet finish grades after light rolling and natural settlement. Do not spread if planting soil or subgrade is frozen, muddy, or excessively wet.
- B. Unchanged Subgrades: If turf is to be planted in areas unaltered or undisturbed by excavating, grading, or surface-soil stripping operations, prepare surface soil as follows:
  - 1. Remove existing grass, vegetation, and turf. Do not mix into surface soil.
  - 2. Loosen surface soil to a depth of at least 6 inches. Apply soil amendments and fertilizers according to planting soil mix proportions and mix thoroughly into top 4 inches of soil. Till soil to a homogeneous mixture of fine texture.
    - a. Apply fertilizer directly to surface soil before loosening.
  - 3. Remove stones larger than 1 inch in any dimension and sticks, roots, rubbish, and other extraneous matter.
  - 4. Legally dispose of waste material, including grass, vegetation, and turf, off Owner's property.
- C. Finish Grading: Grade planting areas to a smooth, uniform surface plane with loose, uniformly fine texture. Grade to within plus or minus 1/2 inch (13 mm) of finish elevation. Roll and rake, remove ridges, and fill depressions to meet finish grades and to prevent ponding. Limit finish grading to areas that can be planted in the immediate future.
- D. Moisten prepared area before planting if soil is dry. Water thoroughly and allow surface to dry before planting. Do not create muddy soil.
- E. Before planting, obtain Architect's acceptance of finish grading; restore planting areas if eroded or otherwise disturbed after finish grading.

### 3.2 SEEDING

- A. Do not broadcast or drop seed when wind velocity exceeds 5 mph (8 km/h). Evenly distribute seed by sowing equal quantities in two directions at right angles to each other. Do not seed against existing trees. Limit extent of seed to outside edge of planting saucer.

- B. Sow seed at a total rate of 4.5 lbs/1000 sq. ft.
- C. Rake seed lightly into top 1/8 inch (3 mm) of soil, roll lightly, and water with fine spray.
- D. Protect seeded areas with slopes not exceeding 1:6 by spreading straw mulch. Spread uniformly at a minimum rate of 2 tons/acre to form a continuous blanket 1-1/2 inches (38 mm) in loose thickness over seeded areas. Spread by hand, blower, or other suitable equipment.
  - 1. Anchor straw mulch by crimping into soil with suitable mechanical equipment.

### 3.3 TURF MAINTENANCE

- A. Maintain and establish turf by watering, fertilizing, weeding, mowing, trimming, replanting, and performing other operations as required to establish healthy, viable turf. Roll, regrade, and replant bare or eroded areas and remulch to produce a uniformly smooth turf. Provide materials and installation the same as those used in the original installation.
- B. Mow turf as soon as top growth is tall enough to cut. Repeat mowing to maintain height appropriate for species without cutting more than 1/3 of grass height. Remove no more than 1/3 of grass-leaf growth in initial or subsequent mowings.
- C. Apply pesticides and other chemical products and biological control agents in accordance with authorities having jurisdiction and manufacturer's written recommendations. Coordinate applications with Owner's operations and others in proximity to the Work. Notify Owner before each application is performed.

### 3.4 SATISFACTORY TURF

- A. Turf installations shall meet the following criteria as determined by Architect:
  - 1. Satisfactory Seeded Turf: At end of maintenance period, a healthy, uniform, close stand of grass has been established, free of weeds and surface irregularities, with coverage exceeding 90 percent over any 10 sq. ft. (0.92 sq. m) and bare spots not exceeding 5 by 5 inches (125 by 125 mm)].
  - 2. Satisfactory Sodded Turf: At end of maintenance period, a healthy, well-rooted, even-colored, viable turf has been established, free of weeds, open joints, bare areas, and surface irregularities.
- B. Use specified materials to reestablish turf that does not comply with requirements and continue maintenance until turf is satisfactory.

END OF SECTION 329200

ATTACHMENT A  
PREVAILING WAGE REPORT FORM  
PREVAILING WAGE RATES

WEEKLY PAYROLL RECORDS REPORT  
& STATEMENT OF COMPLIANCE

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In accordance with Massachusetts General Law c149, Section 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 next 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.

In addition, each such contractor, subcontractor or public body shall furnish to the Department of Labor & Industries within fifteen days after completion of its portion of the work a statement, executed by the contractor, subcontractor or public body who supervises the payment of wages, in the following form:

<p>STATEMENT OF COMPLIANCE _____, 20____</p> <p>I, _____, _____</p> <p style="text-align: center;">(Name of signatory party) (Title)</p> <p>do hereby state:</p> <p style="padding-left: 40px;">That I pay or supervise the payment of the persons employed by</p> <p>_____ on the _____</p> <p style="text-align: center;">(Contractor, subcontractor or public body) (Building or project)</p> <p>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.</p> <p style="text-align: right; padding-right: 50px;">Signature _____</p> <p style="text-align: right; padding-right: 50px;">Title _____</p>	
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DEPARTMENT OF LABOR & INDUSTRIES, 100 CAMBRIDGE STREET, 11TH FL., BOSTON, MA 02202





CHARLES D. BAKER  
Governor

KARYN E. POLITO  
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**

ROSALIN ACOSTA  
Secretary  
WILLIAM D MCKINNEY  
Director

**Awarding Authority:** Town of Longmeadow  
**Contract Number:** **City/Town:** LONGMEADOW  
**Description of Work:** RUSSELL FIELD EROSION PROJECT- Remedy erosion of the athletic field by replacing railroad tie remaining walls that have deteriorated with tiered, interlocking stone walls for athletic viewing section.  
**Job Location:** Russell Field, Bliss Road, Longmeadow, MA

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Information about Prevailing Wage Schedules for Awarding Authorities and Contractors

- 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 from the Department of Labor Standards ("DLS") 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 any sub-contractor.
- All apprentices working on the project are required to be registered with the Massachusetts Department of Labor Standards, Division of Apprentice Standards (DLS/DAS). Apprentice must keep his/her apprentice identification card on his/her person 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 DLS/DAS regardless of whether or not they are registered with any other federal, state, local, or private agency must be paid the journeyworker's rate for the trade.**
- 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. Awarding authorities are required to request these updates 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, 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. Contractors are required to obtain the wage schedules from awarding authorities, and to pay no less than these rates to covered workers. The annual update requirement is not applicable to 27F "rental of equipment" contracts.
- Every contractor or subcontractor which performs construction work on the project is required to 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. A sample of a payroll reporting form may be obtained at <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.
- Employees not receiving the prevailing wage rate set forth on the wage schedule may report the violation to the Fair Labor Division of the office of the Attorney General at (617) 727-3465.
- 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

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
<b>Construction</b>						
(2 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	08/01/2019	\$34.25	\$12.41	\$12.70	\$0.00	\$59.36
	12/01/2019	\$34.25	\$12.41	\$13.72	\$0.00	\$60.38
	06/01/2020	\$35.15	\$12.41	\$13.72	\$0.00	\$61.28
	08/01/2020	\$35.15	\$12.91	\$13.72	\$0.00	\$61.78
	12/01/2020	\$35.15	\$12.91	\$14.82	\$0.00	\$62.88
	06/01/2021	\$35.95	\$12.91	\$14.82	\$0.00	\$63.68
	08/01/2021	\$35.95	\$13.41	\$14.82	\$0.00	\$64.18
	12/01/2021	\$35.95	\$13.41	\$16.01	\$0.00	\$65.37
(3 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	08/01/2019	\$34.32	\$12.41	\$12.70	\$0.00	\$59.43
	12/01/2019	\$34.32	\$12.41	\$13.72	\$0.00	\$60.45
	06/01/2020	\$35.22	\$12.41	\$13.72	\$0.00	\$61.35
	08/01/2020	\$35.22	\$12.91	\$13.72	\$0.00	\$61.85
	12/01/2020	\$35.22	\$12.91	\$14.82	\$0.00	\$62.95
	06/01/2021	\$36.02	\$12.91	\$14.82	\$0.00	\$63.75
	08/01/2021	\$36.02	\$13.41	\$14.82	\$0.00	\$64.25
	12/01/2021	\$36.02	\$13.41	\$16.01	\$0.00	\$65.44
(4 & 5 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	08/01/2019	\$34.44	\$12.41	\$12.70	\$0.00	\$59.55
	12/01/2019	\$34.44	\$12.41	\$13.72	\$0.00	\$60.57
	06/01/2020	\$35.34	\$12.41	\$13.72	\$0.00	\$61.47
	08/01/2020	\$35.34	\$12.91	\$13.72	\$0.00	\$61.97
	12/01/2020	\$35.34	\$12.91	\$14.82	\$0.00	\$63.07
	06/01/2021	\$36.14	\$12.91	\$14.82	\$0.00	\$63.87
	08/01/2021	\$36.14	\$13.41	\$14.82	\$0.00	\$64.37
	12/01/2021	\$36.14	\$13.41	\$16.01	\$0.00	\$65.56
ADS/SUBMERSIBLE PILOT <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2019	\$102.78	\$9.90	\$21.15	\$0.00	\$133.83
For apprentice rates see "Apprentice- PILE DRIVER"						
AIR TRACK OPERATOR <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	06/03/2019	\$32.25	\$7.85	\$14.22	\$0.00	\$54.32
	12/02/2019	\$33.06	\$7.85	\$14.22	\$0.00	\$55.13
For apprentice rates see "Apprentice- LABORER"						
AIR TRACK OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY &amp; HIGHWAY)</i>	06/01/2019	\$32.25	\$7.85	\$12.18	\$0.00	\$52.28
	12/01/2019	\$33.04	\$7.85	\$12.18	\$0.00	\$53.07
	06/01/2020	\$33.85	\$7.85	\$12.18	\$0.00	\$53.88
	12/01/2020	\$34.66	\$7.85	\$12.18	\$0.00	\$54.69
	06/01/2021	\$35.50	\$7.85	\$12.18	\$0.00	\$55.53
	12/01/2021	\$36.33	\$7.85	\$12.18	\$0.00	\$56.36
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
ASBESTOS WORKER (PIPES & TANKS) <i>HEAT &amp; FROST INSULATORS LOCAL 6 (SPRINGFIELD)</i>	06/01/2019	\$32.40	\$12.50	\$8.35	\$0.00	\$53.25
	12/01/2019	\$33.30	\$12.50	\$8.35	\$0.00	\$54.15
	06/01/2020	\$34.20	\$12.50	\$8.35	\$0.00	\$55.05
	12/01/2020	\$35.10	\$12.50	\$8.35	\$0.00	\$55.95
ASPHALT RAKER <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	06/03/2019	\$31.75	\$7.85	\$14.22	\$0.00	\$53.82
	12/02/2019	\$32.56	\$7.85	\$14.22	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
ASPHALT RAKER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY &amp; HIGHWAY)</i>	06/01/2019	\$31.75	\$7.85	\$12.18	\$0.00	\$51.78
	12/01/2019	\$32.54	\$7.85	\$12.18	\$0.00	\$52.57
	06/01/2020	\$33.35	\$7.85	\$12.18	\$0.00	\$53.38
	12/01/2020	\$34.16	\$7.85	\$12.18	\$0.00	\$54.19
	06/01/2021	\$35.00	\$7.85	\$12.18	\$0.00	\$55.03
	12/01/2021	\$35.83	\$7.85	\$12.18	\$0.00	\$55.86
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
AUTOMATIC GRADER-EXCAVATOR (RECLAIMER) <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/2019	\$35.05	\$11.69	\$14.08	\$0.00	\$60.82
	12/01/2019	\$35.40	\$11.94	\$14.35	\$0.00	\$61.69
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BACKHOE/FRONT-END LOADER OPERATOR <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/2019	\$35.05	\$11.69	\$14.08	\$0.00	\$60.82
	12/01/2019	\$35.40	\$11.94	\$14.35	\$0.00	\$61.69
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BARCO-TYPE JUMPING TAMPER <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	06/03/2019	\$31.75	\$7.85	\$14.22	\$0.00	\$53.82
	12/02/2019	\$32.56	\$7.85	\$14.22	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						
BATCH/CEMENT PLANT - ON SITE <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/2019	\$34.52	\$11.69	\$14.08	\$0.00	\$60.29
	12/01/2019	\$34.87	\$11.94	\$14.35	\$0.00	\$61.16
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BLOCK PAVER, RAMMER / CURB SETTER <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	06/03/2019	\$32.25	\$7.85	\$14.22	\$0.00	\$54.32
	12/02/2019	\$33.06	\$7.85	\$14.22	\$0.00	\$55.13
For apprentice rates see "Apprentice- LABORER"						
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY &amp; HIGHWAY)</i>	06/01/2019	\$32.25	\$7.85	\$12.18	\$0.00	\$52.28
	12/01/2019	\$33.04	\$7.85	\$12.18	\$0.00	\$53.07
	06/01/2020	\$33.85	\$7.85	\$12.18	\$0.00	\$53.88
	12/01/2020	\$34.66	\$7.85	\$12.18	\$0.00	\$54.69
	06/01/2021	\$35.50	\$7.85	\$12.18	\$0.00	\$55.53
	12/01/2021	\$36.33	\$7.85	\$12.18	\$0.00	\$56.36
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
BOILER MAKER <i>BOILERMAKERS LOCAL 29</i>	01/01/2019	\$44.71	\$7.07	\$17.72	\$0.00	\$69.50
	01/01/2020	\$46.10	\$7.07	\$17.98	\$0.00	\$71.15



**Classification**

**Effective Date   Base Wage   Health   Pension   Supplemental Unemployment   Total Rate**

**Apprentice - BOILERMAKER - Local 29**

**Effective Date - 01/01/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	65	\$29.06	\$7.07	\$11.52	\$0.00	\$47.65
2	65	\$29.06	\$7.07	\$11.52	\$0.00	\$47.65
3	70	\$31.30	\$7.07	\$12.40	\$0.00	\$50.77
4	75	\$33.53	\$7.07	\$13.30	\$0.00	\$53.90
5	80	\$35.77	\$7.07	\$14.18	\$0.00	\$57.02
6	85	\$38.00	\$7.07	\$15.07	\$0.00	\$60.14
7	90	\$40.24	\$7.07	\$15.95	\$0.00	\$63.26
8	95	\$42.47	\$7.07	\$16.84	\$0.00	\$66.38

**Effective Date - 01/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	65	\$29.97	\$7.07	\$11.69	\$0.00	\$48.73
2	65	\$29.97	\$7.07	\$11.69	\$0.00	\$48.73
3	70	\$32.27	\$7.07	\$12.59	\$0.00	\$51.93
4	75	\$34.58	\$7.07	\$13.49	\$0.00	\$55.14
5	80	\$36.88	\$7.07	\$14.38	\$0.00	\$58.33
6	85	\$39.19	\$7.07	\$15.29	\$0.00	\$61.55
7	90	\$41.49	\$7.07	\$16.18	\$0.00	\$64.74
8	95	\$43.80	\$7.07	\$17.09	\$0.00	\$67.96

**Notes:**

**Apprentice to Journeyworker Ratio:1:4**

BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)	08/01/2019	\$42.81	\$10.75	\$19.41	\$0.00	\$72.97
BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)	02/01/2020	\$43.36	\$10.75	\$19.41	\$0.00	\$73.52
	08/01/2020	\$44.71	\$10.75	\$19.56	\$0.00	\$75.02
	02/01/2021	\$45.26	\$10.75	\$19.56	\$0.00	\$75.57
	08/01/2021	\$46.66	\$10.75	\$19.72	\$0.00	\$77.13
	02/01/2022	\$47.19	\$10.75	\$19.72	\$0.00	\$77.66

**Classification**
**Effective Date**
**Base Wage**
**Health**
**Pension**
**Supplemental  
Unemployment**
**Total Rate**
**Apprentice - BRICK/PLASTER/CEMENT MASON - Local 3 Springfield/Pittsfield**
**Effective Date - 08/01/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.41	\$10.75	\$19.41	\$0.00	\$51.57
2	60	\$25.69	\$10.75	\$19.41	\$0.00	\$55.85
3	70	\$29.97	\$10.75	\$19.41	\$0.00	\$60.13
4	80	\$34.25	\$10.75	\$19.41	\$0.00	\$64.41
5	90	\$38.53	\$10.75	\$19.41	\$0.00	\$68.69

**Effective Date - 02/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.68	\$10.75	\$19.41	\$0.00	\$51.84
2	60	\$26.02	\$10.75	\$19.41	\$0.00	\$56.18
3	70	\$30.35	\$10.75	\$19.41	\$0.00	\$60.51
4	80	\$34.69	\$10.75	\$19.41	\$0.00	\$64.85
5	90	\$39.02	\$10.75	\$19.41	\$0.00	\$69.18

**Notes:**
**Apprentice to Journeyworker Ratio:1:5**

BULLDOZER/POWER SHOVEL/TREE SHREDDER	06/01/2019	\$35.05	\$11.69	\$14.08	\$0.00	\$60.82
/CLAM SHELL OPERATING	12/01/2019	\$35.40	\$11.94	\$14.35	\$0.00	\$61.69
ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
CAISSON & UNDERPINNING BOTTOM MAN	06/01/2019	\$40.25	\$7.85	\$16.05	\$0.00	\$64.15
LABORERS - FOUNDATION AND MARINE	12/01/2019	\$41.25	\$7.85	\$16.05	\$0.00	\$65.15
	06/01/2020	\$42.24	\$7.85	\$16.05	\$0.00	\$66.14
	12/01/2020	\$43.22	\$7.85	\$16.05	\$0.00	\$67.12
	06/01/2021	\$44.24	\$7.85	\$16.05	\$0.00	\$68.14
	12/01/2021	\$45.25	\$7.85	\$16.05	\$0.00	\$69.15
For apprentice rates see "Apprentice- LABORER"						
CAISSON & UNDERPINNING LABORER	06/01/2019	\$39.10	\$7.85	\$16.05	\$0.00	\$63.00
LABORERS - FOUNDATION AND MARINE	12/01/2019	\$40.10	\$7.85	\$16.05	\$0.00	\$64.00
	06/01/2020	\$41.09	\$7.85	\$16.05	\$0.00	\$64.99
	12/01/2020	\$42.07	\$7.85	\$16.05	\$0.00	\$65.97
	06/01/2021	\$43.09	\$7.85	\$16.05	\$0.00	\$66.99
	12/01/2021	\$44.10	\$7.85	\$16.05	\$0.00	\$68.00
For apprentice rates see "Apprentice- LABORER"						
CAISSON & UNDERPINNING TOP MAN	06/01/2019	\$39.10	\$7.85	\$16.05	\$0.00	\$63.00
LABORERS - FOUNDATION AND MARINE	12/01/2019	\$40.10	\$7.85	\$16.05	\$0.00	\$64.00
	06/01/2020	\$41.09	\$7.85	\$16.05	\$0.00	\$64.99
	12/01/2020	\$42.07	\$7.85	\$16.05	\$0.00	\$65.97
	06/01/2021	\$43.09	\$7.85	\$16.05	\$0.00	\$66.99
	12/01/2021	\$44.10	\$7.85	\$16.05	\$0.00	\$68.00
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
CARBIDE CORE DRILL OPERATOR	06/03/2019	\$31.75	\$7.85	\$14.22	\$0.00	\$53.82
LABORERS - ZONE 3 (BUILDING & SITE)	12/02/2019	\$32.56	\$7.85	\$14.22	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						
CARPENTER	09/02/2019	\$37.54	\$7.84	\$16.87	\$0.00	\$62.25
CARPENTERS LOCAL 336 - HAMPDEN HAMPSHIRE FRANKLIN	03/01/2020	\$38.04	\$7.84	\$16.87	\$0.00	\$62.75
	09/01/2020	\$38.54	\$7.84	\$16.87	\$0.00	\$63.25
	03/01/2021	\$39.04	\$7.84	\$16.87	\$0.00	\$63.75
	09/01/2021	\$39.54	\$7.84	\$16.87	\$0.00	\$64.25
	03/01/2022	\$40.04	\$7.84	\$16.87	\$0.00	\$64.75
	09/01/2022	\$40.54	\$7.84	\$16.87	\$0.00	\$65.25
	03/01/2023	\$41.04	\$7.84	\$16.87	\$0.00	\$65.75

**Apprentice - CARPENTER - Local 336 Hampden Hampshire Franklin**

**Effective Date - 09/02/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$18.77	\$7.84	\$1.32	\$0.00	\$27.93
2	60	\$22.52	\$7.84	\$1.32	\$0.00	\$31.68
3	70	\$26.28	\$7.84	\$12.91	\$0.00	\$47.03
4	75	\$28.16	\$7.84	\$12.91	\$0.00	\$48.91
5	80	\$30.03	\$7.84	\$14.23	\$0.00	\$52.10
6	80	\$30.03	\$7.84	\$14.23	\$0.00	\$52.10
7	90	\$33.79	\$7.84	\$15.55	\$0.00	\$57.18
8	90	\$33.79	\$7.84	\$15.55	\$0.00	\$57.18

**Effective Date - 03/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.02	\$7.84	\$1.32	\$0.00	\$28.18
2	60	\$22.82	\$7.84	\$1.32	\$0.00	\$31.98
3	70	\$26.63	\$7.84	\$12.91	\$0.00	\$47.38
4	75	\$28.53	\$7.84	\$12.91	\$0.00	\$49.28
5	80	\$30.43	\$7.84	\$14.23	\$0.00	\$52.50
6	80	\$30.43	\$7.84	\$14.23	\$0.00	\$52.50
7	90	\$34.24	\$7.84	\$15.55	\$0.00	\$57.63
8	90	\$34.24	\$7.84	\$15.55	\$0.00	\$57.63

**Notes:**

% Indentured After 10/1/17; 45/45/55/55/70/70/80/80  
Step 1&2 \$26.05/ 3&4 \$31.09/ 5&6 \$48.35/ 7&8 \$53.42

**Apprentice to Journeyworker Ratio:1:5**

CARPENTER WOOD FRAME	10/01/2019	\$23.49	\$7.07	\$7.86	\$0.00	\$38.42
CARPENTERS LOCAL 336 - HAMPDEN HAMPSHIRE FRANKLIN						
All Aspects of New Wood Frame Work						

**Apprentice - CARPENTER (Wood Frame) - 336 Hampden Hampshire****Effective Date - 10/01/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$14.09	\$7.07	\$0.00	\$0.00	\$21.16
2	60	\$14.09	\$7.07	\$0.00	\$0.00	\$21.16
3	65	\$15.27	\$7.07	\$7.86	\$0.00	\$30.20
4	70	\$16.44	\$7.07	\$7.86	\$0.00	\$31.37
5	75	\$17.62	\$7.07	\$7.86	\$0.00	\$32.55
6	80	\$18.79	\$7.07	\$7.86	\$0.00	\$33.72
7	85	\$19.97	\$7.07	\$7.86	\$0.00	\$34.90
8	90	\$21.14	\$7.07	\$7.86	\$0.00	\$36.07

**Notes:**

% Indentured After 10/1/17; 45/45/55/55/70/70/80/80  
 Step 1&2 \$17.64/ 3&4 \$24.74/ 5&6 \$31.37/ 7&8 \$33.72

**Apprentice to Journeyworker Ratio:1:5****CEMENT MASONRY/PLASTERING**

07/01/2019

\$40.46

\$12.70

\$17.64

\$0.62

\$71.42

*BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)*

01/01/2020

\$41.94

\$12.70

\$17.64

\$0.62

\$72.90

**Apprentice - CEMENT MASONRY/PLASTERING - Springfield/Pittsfield****Effective Date - 07/01/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.23	\$12.70	\$15.41	\$0.00	\$48.34
2	60	\$24.28	\$12.70	\$17.64	\$0.62	\$55.24
3	65	\$26.30	\$12.70	\$17.64	\$0.62	\$57.26
4	70	\$28.32	\$12.70	\$17.64	\$0.62	\$59.28
5	75	\$30.35	\$12.70	\$17.64	\$0.62	\$61.31
6	80	\$32.37	\$12.70	\$17.64	\$0.62	\$63.33
7	90	\$36.41	\$12.70	\$17.64	\$0.62	\$67.37

**Effective Date - 01/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.97	\$12.70	\$15.41	\$0.00	\$49.08
2	60	\$25.16	\$12.70	\$17.64	\$0.62	\$56.12
3	65	\$27.26	\$12.70	\$17.64	\$0.62	\$58.22
4	70	\$29.36	\$12.70	\$17.64	\$0.62	\$60.32
5	75	\$31.46	\$12.70	\$17.64	\$0.62	\$62.42
6	80	\$33.55	\$12.70	\$17.64	\$0.62	\$64.51
7	90	\$37.75	\$12.70	\$17.64	\$0.62	\$68.71

**Notes:**

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

**Apprentice to Journeyworker Ratio:1:3**

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
CHAIN SAW OPERATOR <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	06/03/2019	\$31.75	\$7.85	\$14.22	\$0.00	\$53.82
	12/02/2019	\$32.56	\$7.85	\$14.22	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						
COMPRESSOR OPERATOR <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/2019	\$34.52	\$11.69	\$14.08	\$0.00	\$60.29
	12/01/2019	\$34.87	\$11.94	\$14.35	\$0.00	\$61.16
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
CRANE OPERATOR <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/2019	\$38.55	\$11.69	\$14.08	\$0.00	\$64.32
	12/01/2019	\$38.90	\$11.94	\$14.35	\$0.00	\$65.19
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
DELEADER (BRIDGE) <i>PAINTERS LOCAL 35 - ZONE 3</i>	07/01/2019	\$50.66	\$8.20	\$21.45	\$0.00	\$80.31
	01/01/2020	\$50.96	\$8.20	\$22.10	\$0.00	\$81.26
	07/01/2020	\$52.06	\$8.20	\$22.10	\$0.00	\$82.36
	01/01/2021	\$53.16	\$8.20	\$22.10	\$0.00	\$83.46

**Apprentice - PAINTER Local 35 - BRIDGES/TANKS**

**Effective Date - 07/01/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.33	\$8.20	\$0.00	\$0.00	\$33.53
2	55	\$27.86	\$8.20	\$5.78	\$0.00	\$41.84
3	60	\$30.40	\$8.20	\$6.30	\$0.00	\$44.90
4	65	\$32.93	\$8.20	\$6.83	\$0.00	\$47.96
5	70	\$35.46	\$8.20	\$18.30	\$0.00	\$61.96
6	75	\$38.00	\$8.20	\$18.83	\$0.00	\$65.03
7	80	\$40.53	\$8.20	\$19.35	\$0.00	\$68.08
8	90	\$45.59	\$8.20	\$20.40	\$0.00	\$74.19

**Effective Date - 01/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.48	\$8.20	\$0.00	\$0.00	\$33.68
2	55	\$28.03	\$8.20	\$5.94	\$0.00	\$42.17
3	60	\$30.58	\$8.20	\$6.48	\$0.00	\$45.26
4	65	\$33.12	\$8.20	\$7.02	\$0.00	\$48.34
5	70	\$35.67	\$8.20	\$18.51	\$0.00	\$62.38
6	75	\$38.22	\$8.20	\$19.05	\$0.00	\$65.47
7	80	\$40.77	\$8.20	\$19.59	\$0.00	\$68.56
8	90	\$45.86	\$8.20	\$20.67	\$0.00	\$74.73

**Notes:**

Steps are 750 hrs.

**Apprentice to Journeyworker Ratio:1:1**

DEMO: ADZEMAN <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	06/01/2019	\$39.30	\$7.85	\$15.85	\$0.00	\$63.00
	12/01/2019	\$40.30	\$7.85	\$15.85	\$0.00	\$64.00
For apprentice rates see "Apprentice- LABORER"						
DEMO: BACKHOE/LOADER/HAMMER OPERATOR <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	06/01/2019	\$40.30	\$7.85	\$15.85	\$0.00	\$64.00
	12/01/2019	\$41.30	\$7.85	\$15.85	\$0.00	\$65.00

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- LABORER"						
DEMO: BURNERS <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	06/01/2019	\$40.05	\$7.85	\$15.85	\$0.00	\$63.75
	12/01/2019	\$41.05	\$7.85	\$15.85	\$0.00	\$64.75
For apprentice rates see "Apprentice- LABORER"						
DEMO: CONCRETE CUTTER/SAWYER <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	06/01/2019	\$40.30	\$7.85	\$15.85	\$0.00	\$64.00
	12/01/2019	\$41.30	\$7.85	\$15.85	\$0.00	\$65.00
For apprentice rates see "Apprentice- LABORER"						
DEMO: JACKHAMMER OPERATOR <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	06/01/2019	\$40.05	\$7.85	\$15.85	\$0.00	\$63.75
	12/01/2019	\$41.05	\$7.85	\$15.85	\$0.00	\$64.75
For apprentice rates see "Apprentice- LABORER"						
DEMO: WRECKING LABORER <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	06/01/2019	\$39.30	\$7.85	\$15.85	\$0.00	\$63.00
	12/01/2019	\$40.30	\$7.85	\$15.85	\$0.00	\$64.00
For apprentice rates see "Apprentice- LABORER"						
DIVER <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2019	\$68.52	\$9.90	\$21.15	\$0.00	\$99.57
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2019	\$48.94	\$9.90	\$21.15	\$0.00	\$79.99
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2019	\$73.41	\$9.90	\$21.15	\$0.00	\$104.46
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER/SLURRY (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2019	\$102.78	\$9.90	\$21.15	\$0.00	\$133.83
For apprentice rates see "Apprentice- PILE DRIVER"						
ELECTRICIAN (Including Core Drilling) <i>ELECTRICIANS LOCAL 7</i>	06/30/2019	\$42.66	\$10.75	\$12.33	\$0.00	\$65.74
	12/29/2019	\$43.41	\$11.00	\$12.60	\$0.00	\$67.01

**Apprentice - *ELECTRICIAN - Local 7***

**Effective Date - 06/30/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$17.06	\$5.85	\$0.51	\$0.00	\$23.42
2	45	\$19.20	\$5.85	\$0.58	\$0.00	\$25.63
3	50	\$21.33	\$10.75	\$6.94	\$0.00	\$39.02
4	55	\$23.46	\$10.75	\$7.00	\$0.00	\$41.21
5	65	\$27.73	\$10.75	\$8.13	\$0.00	\$46.61
6	70	\$29.86	\$10.75	\$9.20	\$0.00	\$49.81

**Notes:**

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

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

ELEVATOR CONSTRUCTOR <i>ELEVATOR CONSTRUCTORS LOCAL 41</i>	01/01/2019	\$53.11	\$15.58	\$17.51	\$0.00	\$86.20
	01/01/2020	\$54.85	\$15.73	\$18.41	\$0.00	\$88.99
	01/01/2021	\$56.69	\$15.88	\$19.31	\$0.00	\$91.88
	01/01/2022	\$58.62	\$16.03	\$20.21	\$0.00	\$94.86

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
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**Apprentice - ELEVATOR CONSTRUCTOR - Local 41**

**Effective Date - 01/01/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.56	\$15.58	\$0.00	\$0.00	\$42.14
2	55	\$29.21	\$15.58	\$17.51	\$0.00	\$62.30
3	65	\$34.52	\$15.58	\$17.51	\$0.00	\$67.61
4	70	\$37.18	\$15.58	\$17.51	\$0.00	\$70.27
5	80	\$42.49	\$15.58	\$17.51	\$0.00	\$75.58

**Effective Date - 01/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$27.43	\$15.73	\$0.00	\$0.00	\$43.16
2	55	\$30.17	\$15.73	\$18.41	\$0.00	\$64.31
3	65	\$35.65	\$15.73	\$18.41	\$0.00	\$69.79
4	70	\$38.40	\$15.73	\$18.41	\$0.00	\$72.54
5	80	\$43.88	\$15.73	\$18.41	\$0.00	\$78.02

**Notes:**

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

**Apprentice to Journeyworker Ratio:1:1**

ELEVATOR CONSTRUCTOR HELPER	01/01/2019	\$37.18	\$15.58	\$17.51	\$0.00	\$70.27
ELEVATOR CONSTRUCTORS LOCAL 41	01/01/2020	\$38.40	\$15.73	\$18.41	\$0.00	\$72.54
	01/01/2021	\$39.68	\$15.88	\$19.31	\$0.00	\$74.87
	01/01/2022	\$41.03	\$16.03	\$20.21	\$0.00	\$77.27
For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"						
FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY)	06/01/2019	\$31.75	\$7.85	\$12.18	\$0.00	\$51.78
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	12/01/2019	\$32.54	\$7.85	\$12.18	\$0.00	\$52.57
	06/01/2020	\$33.35	\$7.85	\$12.18	\$0.00	\$53.38
	12/01/2020	\$34.16	\$7.85	\$12.18	\$0.00	\$54.19
	06/01/2021	\$35.00	\$7.85	\$12.18	\$0.00	\$55.03
	12/01/2021	\$35.83	\$7.85	\$12.18	\$0.00	\$55.86
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
FIELD ENG.INST/ROD-BLDG,SITE,HVY/HWY	06/01/1999	\$18.84	\$4.80	\$4.10	\$0.00	\$27.74
OPERATING ENGINEERS LOCAL 98						
FIELD ENG.PARTY CHIEF:BLDG,SITE,HVY/HWY	06/01/1999	\$21.33	\$4.80	\$4.10	\$0.00	\$30.23
OPERATING ENGINEERS LOCAL 98						
FIELD ENG.SURVEY CHIEF-BLDG,SITE,HVY/HWY	06/01/1999	\$22.33	\$4.80	\$4.10	\$0.00	\$31.23
OPERATING ENGINEERS LOCAL 98						
FIRE ALARM INSTALLER	06/30/2019	\$42.66	\$10.75	\$12.33	\$0.00	\$65.74
ELECTRICIANS LOCAL 7	12/29/2019	\$43.41	\$11.00	\$12.60	\$0.00	\$67.01
For apprentice rates see "Apprentice- ELECTRICIAN"						
FIRE ALARM REPAIR / MAINTENANCE	06/30/2019	\$42.66	\$10.75	\$12.33	\$0.00	\$65.74
/ COMMISSIONINGELECTRICIANS	12/29/2019	\$43.41	\$11.00	\$12.60	\$0.00	\$67.01
LOCAL 7						
For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
FIREMAN	06/01/2019	\$34.52	\$11.69	\$14.08	\$0.00	\$60.29
OPERATING ENGINEERS LOCAL 98	12/01/2019	\$34.87	\$11.94	\$14.35	\$0.00	\$61.16

**Apprentice - OPERATING ENGINEERS - Local 98 Class 3**

**Effective Date -** 06/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$20.71	\$11.69	\$14.08	\$0.00	\$46.48
2	70	\$24.16	\$11.69	\$14.08	\$0.00	\$49.93
3	80	\$27.62	\$11.69	\$14.08	\$0.00	\$53.39
4	90	\$31.07	\$11.69	\$14.08	\$0.00	\$56.84

**Effective Date -** 12/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$20.92	\$11.94	\$14.35	\$0.00	\$47.21
2	70	\$24.41	\$11.94	\$14.35	\$0.00	\$50.70
3	80	\$27.90	\$11.94	\$14.35	\$0.00	\$54.19
4	90	\$31.38	\$11.94	\$14.35	\$0.00	\$57.67

**Notes:**

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

**Apprentice to Journeyworker Ratio:1:6**

FLAGGER & SIGNALER (HEAVY & HIGHWAY)	06/01/2019	\$22.50	\$7.85	\$12.18	\$0.00	\$42.53
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	12/01/2019	\$23.50	\$7.85	\$12.18	\$0.00	\$43.53
	06/01/2020	\$23.50	\$7.85	\$12.18	\$0.00	\$43.53
	12/01/2020	\$24.50	\$7.85	\$12.18	\$0.00	\$44.53
	06/01/2021	\$24.50	\$7.85	\$12.18	\$0.00	\$44.53
	12/01/2021	\$24.50	\$7.85	\$12.18	\$0.00	\$44.53

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

FLOORCOVERER	09/01/2019	\$37.44	\$7.84	\$16.87	\$0.00	\$62.15
FLOORCOVERERS LOCAL 2168 ZONE III						



**Apprentice - FLOORCOVERER - Local 2168 Zone III**

**Effective Date - 09/01/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$18.72	\$7.84	\$1.32	\$0.00	\$27.88
2	55	\$20.59	\$7.84	\$1.32	\$0.00	\$29.75
3	60	\$22.46	\$7.84	\$12.91	\$0.00	\$43.21
4	65	\$24.34	\$7.84	\$12.91	\$0.00	\$45.09
5	70	\$26.21	\$7.84	\$14.23	\$0.00	\$48.28
6	75	\$28.08	\$7.84	\$14.23	\$0.00	\$50.15
7	80	\$29.95	\$7.84	\$15.55	\$0.00	\$53.34
8	85	\$31.82	\$7.84	\$15.55	\$0.00	\$55.21

**Notes:** Steps are 750 hrs.

% After 09/1/17; 45/45/55/55/70/70/80/80 (1500hr Steps)

Step 1&2 \$26.01/ 3&4 \$31.03/ 5&6 \$48.28/ 7&8 \$53.34

**Apprentice to Journeyworker Ratio:1:1**

FORK LIFT	06/01/2019	\$34.74	\$11.69	\$14.08	\$0.00	\$60.51
OPERATING ENGINEERS LOCAL 98	12/01/2019	\$35.09	\$11.94	\$14.35	\$0.00	\$61.38
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
GENERATORS/LIGHTING PLANTS	06/01/2019	\$31.29	\$11.69	\$14.08	\$0.00	\$57.06
OPERATING ENGINEERS LOCAL 98	12/01/2019	\$31.64	\$11.94	\$14.35	\$0.00	\$57.93
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)	06/01/2019	\$38.18	\$10.60	\$9.90	\$0.00	\$58.68
GLAZIERS LOCAL 1333	06/01/2020	\$39.18	\$10.80	\$10.45	\$0.00	\$60.43

**Classification**
**Effective Date**
**Base Wage**
**Health**
**Pension**
**Supplemental  
Unemployment**
**Total Rate**
**Apprentice - GLAZIER - Local 1333**
**Effective Date - 06/01/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.09	\$10.60	\$1.80	\$0.00	\$31.49
2	56	\$21.48	\$10.60	\$1.80	\$0.00	\$33.88
3	63	\$23.86	\$10.60	\$2.40	\$0.00	\$36.86
4	69	\$26.25	\$10.60	\$2.40	\$0.00	\$39.25
5	75	\$28.64	\$10.60	\$2.90	\$0.00	\$42.14
6	81	\$31.02	\$10.60	\$2.90	\$0.00	\$44.52
7	88	\$33.41	\$10.60	\$9.90	\$0.00	\$53.91
8	94	\$35.79	\$10.60	\$9.90	\$0.00	\$56.29

**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>	06/01/2019	\$35.05	\$11.69	\$14.08	\$0.00	\$60.82
	12/01/2019	\$35.40	\$11.94	\$14.35	\$0.00	\$61.69
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
HVAC (DUCTWORK) <i>SHEETMETAL WORKERS LOCAL 63</i>	07/01/2019	\$35.74	\$10.64	\$16.22	\$1.77	\$64.37
	01/01/2020	\$36.99	\$10.64	\$16.22	\$1.77	\$65.62
For apprentice rates see "Apprentice- SHEET METAL WORKER"						
HVAC (ELECTRICAL CONTROLS) <i>ELECTRICIANS LOCAL 7</i>	06/30/2019	\$42.66	\$10.75	\$12.33	\$0.00	\$65.74
	12/29/2019	\$43.41	\$11.00	\$12.60	\$0.00	\$67.01
For apprentice rates see "Apprentice- ELECTRICIAN"						
HVAC (TESTING AND BALANCING - AIR) <i>SHEETMETAL WORKERS LOCAL 63</i>	07/01/2019	\$35.74	\$10.64	\$16.22	\$1.77	\$64.37
	01/01/2020	\$36.99	\$10.64	\$16.22	\$1.77	\$65.62
For apprentice rates see "Apprentice- SHEET METAL WORKER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
HVAC (TESTING AND BALANCING -WATER) <i>PLUMBERS &amp; PIPEFITTERS LOCAL 104</i>	09/17/2019	\$41.21	\$8.75	\$16.35	\$0.00	\$66.31
	03/17/2020	\$42.21	\$8.75	\$16.35	\$0.00	\$67.31
	09/17/2020	\$43.21	\$8.75	\$16.35	\$0.00	\$68.31
	03/17/2021	\$44.21	\$8.75	\$16.35	\$0.00	\$69.31
	09/17/2021	\$45.21	\$8.75	\$16.35	\$0.00	\$70.31
	03/17/2022	\$46.46	\$8.75	\$16.35	\$0.00	\$71.56
	09/17/2022	\$47.46	\$8.75	\$16.35	\$0.00	\$72.56
	03/17/2023	\$48.71	\$8.75	\$16.35	\$0.00	\$73.81
	09/17/2023	\$49.71	\$8.75	\$16.35	\$0.00	\$74.81
	03/17/2024	\$50.96	\$8.75	\$16.35	\$0.00	\$76.06
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
HVAC MECHANIC <i>PLUMBERS &amp; PIPEFITTERS LOCAL 104</i>	09/17/2019	\$41.21	\$8.75	\$16.35	\$0.00	\$66.31
	03/17/2020	\$42.21	\$8.75	\$16.35	\$0.00	\$67.31
	09/17/2020	\$43.21	\$8.75	\$16.35	\$0.00	\$68.31
	03/17/2021	\$44.21	\$8.75	\$16.35	\$0.00	\$69.31
	09/17/2021	\$45.21	\$8.75	\$16.35	\$0.00	\$70.31
	03/17/2022	\$46.46	\$8.75	\$16.35	\$0.00	\$71.56
	09/17/2022	\$47.46	\$8.75	\$16.35	\$0.00	\$72.56
	03/17/2023	\$48.71	\$8.75	\$16.35	\$0.00	\$73.81
	09/17/2023	\$49.71	\$8.75	\$16.35	\$0.00	\$74.81
	03/17/2024	\$50.96	\$8.75	\$16.35	\$0.00	\$76.06
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
HYDRAULIC DRILLS (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY &amp; HIGHWAY)</i>	06/01/2019	\$32.25	\$7.85	\$12.18	\$0.00	\$52.28
	12/01/2019	\$33.04	\$7.85	\$12.18	\$0.00	\$53.07
	06/01/2020	\$33.85	\$7.85	\$12.18	\$0.00	\$53.88
	12/01/2020	\$34.66	\$7.85	\$12.18	\$0.00	\$54.69
	06/01/2021	\$35.50	\$7.85	\$12.18	\$0.00	\$55.53
	12/01/2021	\$36.33	\$7.85	\$12.18	\$0.00	\$56.36
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
INSULATOR (PIPES & TANKS) <i>HEAT &amp; FROST INSULATORS LOCAL 6 (SPRINGFIELD)</i>	09/01/2019	\$38.75	\$12.80	\$16.40	\$0.00	\$67.95

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

**Effective Date -** 09/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.38	\$12.80	\$11.90	\$0.00	\$44.08
2	60	\$23.25	\$12.80	\$12.80	\$0.00	\$48.85
3	70	\$27.13	\$12.80	\$13.70	\$0.00	\$53.63
4	80	\$31.00	\$12.80	\$14.60	\$0.00	\$58.40

**Notes:**

Steps are 1 year

**Apprentice to Journeyworker Ratio:1:4**

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
IRONWORKER/WELDER	09/16/2019	\$35.10	\$8.00	\$20.75	\$0.00	\$63.85
IRONWORKERS LOCAL 7 (SPRINGFIELD AREA)	03/16/2020	\$35.95	\$8.00	\$20.75	\$0.00	\$64.70
	09/16/2020	\$36.85	\$8.00	\$20.75	\$0.00	\$65.60
	03/16/2021	\$37.70	\$8.00	\$20.75	\$0.00	\$66.45

**Apprentice - IRONWORKER - Local 7 Springfield**

**Effective Date -** 09/16/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$21.06	\$8.00	\$20.75	\$0.00	\$49.81
2	70	\$24.57	\$8.00	\$20.75	\$0.00	\$53.32
3	75	\$26.33	\$8.00	\$20.75	\$0.00	\$55.08
4	80	\$28.08	\$8.00	\$20.75	\$0.00	\$56.83
5	85	\$29.84	\$8.00	\$20.75	\$0.00	\$58.59
6	90	\$31.59	\$8.00	\$20.75	\$0.00	\$60.34

**Effective Date -** 03/16/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$21.57	\$8.00	\$20.75	\$0.00	\$50.32
2	70	\$25.17	\$8.00	\$20.75	\$0.00	\$53.92
3	75	\$26.96	\$8.00	\$20.75	\$0.00	\$55.71
4	80	\$28.76	\$8.00	\$20.75	\$0.00	\$57.51
5	85	\$30.56	\$8.00	\$20.75	\$0.00	\$59.31
6	90	\$32.36	\$8.00	\$20.75	\$0.00	\$61.11

**Notes:**

Structural 1:6; Ornamental 1:4

**Apprentice to Journeyworker Ratio:**

JACKHAMMER & PAVING BREAKER OPERATOR	06/03/2019	\$31.75	\$7.85	\$14.22	\$0.00	\$53.82
LABORERS - ZONE 3 (BUILDING & SITE)	12/02/2019	\$32.56	\$7.85	\$14.22	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						
LABORER	06/03/2019	\$31.50	\$7.85	\$14.22	\$0.00	\$53.57
LABORERS - ZONE 3 (BUILDING & SITE)	12/02/2019	\$32.31	\$7.85	\$14.22	\$0.00	\$54.38

**Classification**

**Effective Date   Base Wage   Health   Pension   Supplemental Unemployment   Total Rate**

**Apprentice - LABORER - Zone 3 Building & Site**
**Effective Date - 06/03/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$18.90	\$7.85	\$14.22	\$0.00	\$40.97
2	70	\$22.05	\$7.85	\$14.22	\$0.00	\$44.12
3	80	\$25.20	\$7.85	\$14.22	\$0.00	\$47.27
4	90	\$28.35	\$7.85	\$14.22	\$0.00	\$50.42

**Effective Date - 12/02/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$19.39	\$7.85	\$14.22	\$0.00	\$41.46
2	70	\$22.62	\$7.85	\$14.22	\$0.00	\$44.69
3	80	\$25.85	\$7.85	\$14.22	\$0.00	\$47.92
4	90	\$29.08	\$7.85	\$14.22	\$0.00	\$51.15

**Notes:**
**Apprentice to Journeyworker Ratio:1:5**

LABORER (HEAVY & HIGHWAY)	06/01/2019	\$31.50	\$7.85	\$12.18	\$0.00	\$51.53
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	12/01/2019	\$32.29	\$7.85	\$12.18	\$0.00	\$52.32
	06/01/2020	\$33.10	\$7.85	\$12.18	\$0.00	\$53.13
	12/01/2020	\$33.91	\$7.85	\$12.18	\$0.00	\$53.94
	06/01/2021	\$34.75	\$7.85	\$12.18	\$0.00	\$54.78
	12/01/2021	\$35.58	\$7.85	\$12.18	\$0.00	\$55.61

**Apprentice - LABORER (Heavy & Highway) - Zone 3**
**Effective Date - 06/01/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$18.90	\$7.85	\$12.18	\$0.00	\$38.93
2	70	\$22.05	\$7.85	\$12.18	\$0.00	\$42.08
3	80	\$25.20	\$7.85	\$12.18	\$0.00	\$45.23
4	90	\$28.35	\$7.85	\$12.18	\$0.00	\$48.38

**Effective Date - 12/01/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$19.37	\$7.85	\$12.18	\$0.00	\$39.40
2	70	\$22.60	\$7.85	\$12.18	\$0.00	\$42.63
3	80	\$25.83	\$7.85	\$12.18	\$0.00	\$45.86
4	90	\$29.06	\$7.85	\$12.18	\$0.00	\$49.09

**Notes:**
**Apprentice to Journeyworker Ratio:1:5**

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LABORER: CARPENTER TENDER <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	06/03/2019	\$31.50	\$7.85	\$14.22	\$0.00	\$53.57
For apprentice rates see "Apprentice- LABORER"	12/02/2019	\$32.31	\$7.85	\$14.22	\$0.00	\$54.38
LABORER: CEMENT FINISHER TENDER <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	06/03/2019	\$31.75	\$7.85	\$14.22	\$0.00	\$53.82
For apprentice rates see "Apprentice- LABORER"	12/02/2019	\$32.56	\$7.85	\$14.22	\$0.00	\$54.63
LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	06/01/2019	\$31.60	\$7.85	\$14.22	\$0.00	\$53.67
For apprentice rates see "Apprentice- LABORER"	12/01/2019	\$32.41	\$7.85	\$14.22	\$0.00	\$54.48
LABORER: MASON TENDER <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	06/03/2019	\$32.50	\$7.85	\$14.22	\$0.00	\$54.57
For apprentice rates see "Apprentice- LABORER"	12/02/2019	\$33.31	\$7.85	\$14.22	\$0.00	\$55.38
LABORER: MASON TENDER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY &amp; HIGHWAY)</i>	06/01/2019	\$31.75	\$7.85	\$12.18	\$0.00	\$51.78
	12/01/2019	\$32.54	\$7.85	\$12.18	\$0.00	\$52.57
	06/01/2020	\$33.35	\$7.85	\$12.18	\$0.00	\$53.38
	12/01/2020	\$34.16	\$7.85	\$12.18	\$0.00	\$54.19
	06/01/2021	\$35.00	\$7.85	\$12.18	\$0.00	\$55.03
	12/01/2021	\$35.83	\$7.85	\$12.18	\$0.00	\$55.86
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
LABORER: MULTI-TRADE TENDER <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	06/03/2019	\$31.50	\$7.85	\$14.22	\$0.00	\$53.57
For apprentice rates see "Apprentice- LABORER"	12/02/2019	\$32.31	\$7.85	\$14.22	\$0.00	\$54.38
LABORER: TREE REMOVER <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	06/03/2019	\$31.50	\$7.85	\$14.22	\$0.00	\$53.57
	12/02/2019	\$32.31	\$7.85	\$14.22	\$0.00	\$54.38
This classification applies to all tree work associated with the removal of standing trees, and trimming and removal of branches and limbs when the work is not done for a utility company for the purpose of operation, maintenance or repair of utility company equipment. For apprentice rates see "Apprentice- LABORER"						
LASER BEAM OPERATOR <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	06/03/2019	\$31.75	\$7.85	\$14.22	\$0.00	\$53.82
For apprentice rates see "Apprentice- LABORER"	12/02/2019	\$32.56	\$7.85	\$14.22	\$0.00	\$54.63
LASER BEAM OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY &amp; HIGHWAY)</i>	06/01/2019	\$31.75	\$7.85	\$12.18	\$0.00	\$51.78
	12/01/2019	\$32.54	\$7.85	\$12.18	\$0.00	\$52.57
	06/01/2020	\$33.35	\$7.85	\$12.18	\$0.00	\$53.38
	12/01/2020	\$34.16	\$7.85	\$12.18	\$0.00	\$54.19
	06/01/2021	\$35.00	\$7.85	\$12.18	\$0.00	\$55.03
	12/01/2021	\$35.83	\$7.85	\$12.18	\$0.00	\$55.86
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
MARBLE & TILE FINISHERS <i>BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE &amp; TILE</i>	08/01/2019	\$35.17	\$10.75	\$18.87	\$0.00	\$64.79
	02/01/2020	\$35.67	\$10.75	\$18.87	\$0.00	\$65.29
	08/01/2020	\$36.67	\$10.75	\$18.99	\$0.00	\$66.41
	02/01/2021	\$37.17	\$10.75	\$18.99	\$0.00	\$66.91
	08/01/2021	\$38.17	\$10.75	\$19.12	\$0.00	\$68.04
	02/01/2022	\$38.62	\$10.75	\$19.12	\$0.00	\$68.49

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

**Effective Date - 08/01/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$17.59	\$10.75	\$18.87	\$0.00	\$47.21
2	60	\$21.10	\$10.75	\$18.87	\$0.00	\$50.72
3	70	\$24.62	\$10.75	\$18.87	\$0.00	\$54.24
4	80	\$28.14	\$10.75	\$18.87	\$0.00	\$57.76
5	90	\$31.65	\$10.75	\$18.87	\$0.00	\$61.27

**Effective Date - 02/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$17.84	\$10.75	\$18.87	\$0.00	\$47.46
2	60	\$21.40	\$10.75	\$18.87	\$0.00	\$51.02
3	70	\$24.97	\$10.75	\$18.87	\$0.00	\$54.59
4	80	\$28.54	\$10.75	\$18.87	\$0.00	\$58.16
5	90	\$32.10	\$10.75	\$18.87	\$0.00	\$61.72

**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)	06/01/2019	\$35.05	\$11.69	\$14.08	\$0.00	\$60.82
OPERATING ENGINEERS LOCAL 98	12/01/2019	\$35.40	\$11.94	\$14.35	\$0.00	\$61.69

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

MECHANIC/WELDER/BOOM TRUCK	06/01/2019	\$34.52	\$11.69	\$14.08	\$0.00	\$60.29
OPERATING ENGINEERS LOCAL 98	12/01/2019	\$34.87	\$11.94	\$14.35	\$0.00	\$61.16

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

MILLWRIGHT (Zone 3)	04/01/2019	\$37.11	\$9.90	\$18.50	\$0.00	\$65.51
MILLWRIGHTS LOCAL 1121 - Zone 3						

**Apprentice - MILLWRIGHT - Local 1121 Zone 3**

**Effective Date - 04/01/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$20.41	\$9.90	\$5.31	\$0.00	\$35.62
2	65	\$24.12	\$9.90	\$15.13	\$0.00	\$49.15
3	75	\$27.83	\$9.90	\$16.10	\$0.00	\$53.83
4	85	\$31.54	\$9.90	\$17.06	\$0.00	\$58.50

**Notes:**

Steps are 2,000 hours

**Apprentice to Journeyworker Ratio:1:5**

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
MORTAR MIXER	06/03/2019	\$31.75	\$7.85	\$14.22	\$0.00	\$53.82
LABORERS - ZONE 3 (BUILDING & SITE)	12/02/2019	\$32.56	\$7.85	\$14.22	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						
OILER	06/01/2019	\$30.21	\$11.69	\$14.08	\$0.00	\$55.98
OPERATING ENGINEERS LOCAL 98	12/01/2019	\$30.56	\$11.94	\$14.35	\$0.00	\$56.85
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
OTHER POWER DRIVEN EQUIPMENT - CLASS VI	06/01/2019	\$28.23	\$11.69	\$14.08	\$0.00	\$54.00
OPERATING ENGINEERS LOCAL 98	12/01/2019	\$28.58	\$11.94	\$14.35	\$0.00	\$54.87
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PAINTER (BRIDGES/TANKS)	07/01/2019	\$50.66	\$8.20	\$21.45	\$0.00	\$80.31
PAINTERS LOCAL 35 - ZONE 3	01/01/2020	\$50.96	\$8.20	\$22.10	\$0.00	\$81.26
	07/01/2020	\$52.06	\$8.20	\$22.10	\$0.00	\$82.36
	01/01/2021	\$53.16	\$8.20	\$22.10	\$0.00	\$83.46

**Apprentice - PAINTER Local 35 - BRIDGES/TANKS**

**Effective Date - 07/01/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.33	\$8.20	\$0.00	\$0.00	\$33.53
2	55	\$27.86	\$8.20	\$5.78	\$0.00	\$41.84
3	60	\$30.40	\$8.20	\$6.30	\$0.00	\$44.90
4	65	\$32.93	\$8.20	\$6.83	\$0.00	\$47.96
5	70	\$35.46	\$8.20	\$18.30	\$0.00	\$61.96
6	75	\$38.00	\$8.20	\$18.83	\$0.00	\$65.03
7	80	\$40.53	\$8.20	\$19.35	\$0.00	\$68.08
8	90	\$45.59	\$8.20	\$20.40	\$0.00	\$74.19

**Effective Date - 01/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.48	\$8.20	\$0.00	\$0.00	\$33.68
2	55	\$28.03	\$8.20	\$5.94	\$0.00	\$42.17
3	60	\$30.58	\$8.20	\$6.48	\$0.00	\$45.26
4	65	\$33.12	\$8.20	\$7.02	\$0.00	\$48.34
5	70	\$35.67	\$8.20	\$18.51	\$0.00	\$62.38
6	75	\$38.22	\$8.20	\$19.05	\$0.00	\$65.47
7	80	\$40.77	\$8.20	\$19.59	\$0.00	\$68.56
8	90	\$45.86	\$8.20	\$20.67	\$0.00	\$74.73

**Notes:**

Steps are 750 hrs.

**Apprentice to Journeyworker Ratio:1:1**

PAINTER (SIGN, PICTORIAL & DISPLAY)	06/01/2013	\$25.81	\$7.07	\$7.05	\$0.00	\$39.93
PAINTERS LOCAL 35 - ZONE 3						



**Apprentice - PAINTER SIGN - Local 35 Zone 3****Effective Date - 06/01/2013**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$12.91	\$7.07	\$0.00	\$0.00	\$19.98
2	55	\$14.20	\$7.07	\$2.45	\$0.00	\$23.72
3	60	\$15.49	\$7.07	\$2.45	\$0.00	\$25.01
4	65	\$16.78	\$7.07	\$2.45	\$0.00	\$26.30
5	70	\$18.07	\$7.07	\$7.05	\$0.00	\$32.19
6	75	\$19.36	\$7.07	\$7.05	\$0.00	\$33.48
7	80	\$20.65	\$7.07	\$7.05	\$0.00	\$34.77
8	85	\$21.94	\$7.07	\$7.05	\$0.00	\$36.06
9	90	\$23.23	\$7.07	\$7.05	\$0.00	\$37.35

**Notes:**

Steps are 4 mos.

**Apprentice to Journeyworker Ratio:1:1**

PAINTER (SPRAY OR SANDBLAST, NEW) \*

\* If 30% or more of surfaces to be painted are new construction,  
NEW paint rate shall be used. *PAINTERS LOCAL 35 - ZONE 3*

07/01/2019	\$34.03	\$8.20	\$17.55	\$0.00	\$59.78
01/01/2020	\$34.33	\$8.20	\$18.20	\$0.00	\$60.73
07/01/2020	\$35.43	\$8.20	\$18.20	\$0.00	\$61.83
01/01/2021	\$36.53	\$8.20	\$18.20	\$0.00	\$62.93

**Classification**

**Effective Date    Base Wage    Health    Pension    Supplemental  
Unemployment    Total Rate**

**Apprentice - PAINTER Local 35 Zone 3 - Spray/Sandblast - New**

**Effective Date - 07/01/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$17.02	\$8.20	\$0.00	\$0.00	\$25.22
2	55	\$18.72	\$8.20	\$3.63	\$0.00	\$30.55
3	60	\$20.42	\$8.20	\$3.96	\$0.00	\$32.58
4	65	\$22.12	\$8.20	\$4.29	\$0.00	\$34.61
5	70	\$23.82	\$8.20	\$15.57	\$0.00	\$47.59
6	75	\$25.52	\$8.20	\$15.90	\$0.00	\$49.62
7	80	\$27.22	\$8.20	\$16.23	\$0.00	\$51.65
8	90	\$30.63	\$8.20	\$16.89	\$0.00	\$55.72

**Effective Date - 01/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$17.17	\$8.20	\$0.00	\$0.00	\$25.37
2	55	\$18.88	\$8.20	\$3.80	\$0.00	\$30.88
3	60	\$20.60	\$8.20	\$4.14	\$0.00	\$32.94
4	65	\$22.31	\$8.20	\$4.49	\$0.00	\$35.00
5	70	\$24.03	\$8.20	\$15.78	\$0.00	\$48.01
6	75	\$25.75	\$8.20	\$16.13	\$0.00	\$50.08
7	80	\$27.46	\$8.20	\$16.47	\$0.00	\$52.13
8	90	\$30.90	\$8.20	\$17.16	\$0.00	\$56.26

**Notes:**

Steps are 750 hrs.

**Apprentice to Journeyworker Ratio:1:1**

PAINTER (SPRAY OR SANDBLAST, REPAINT)	07/01/2019	\$31.35	\$8.20	\$17.55	\$0.00	\$57.10
PAINTERS LOCAL 35 - ZONE 3	01/01/2020	\$31.65	\$8.20	\$18.20	\$0.00	\$58.05
	07/01/2020	\$32.75	\$8.20	\$18.20	\$0.00	\$59.15
	01/01/2021	\$33.85	\$8.20	\$18.20	\$0.00	\$60.25

**Classification**

**Effective Date    Base Wage    Health    Pension    Supplemental  
Unemployment    Total Rate**

**Apprentice - PAINTER Local 35 Zone 3 - Spray/Sandblast - Repaint**
**Effective Date - 07/01/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$15.68	\$8.20	\$0.00	\$0.00	\$23.88
2	55	\$17.24	\$8.20	\$3.63	\$0.00	\$29.07
3	60	\$18.81	\$8.20	\$3.96	\$0.00	\$30.97
4	65	\$20.38	\$8.20	\$4.29	\$0.00	\$32.87
5	70	\$21.95	\$8.20	\$15.57	\$0.00	\$45.72
6	75	\$23.51	\$8.20	\$15.90	\$0.00	\$47.61
7	80	\$25.08	\$8.20	\$16.23	\$0.00	\$49.51
8	90	\$28.22	\$8.20	\$16.89	\$0.00	\$53.31

**Effective Date - 01/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$15.83	\$8.20	\$0.00	\$0.00	\$24.03
2	55	\$17.41	\$8.20	\$3.80	\$0.00	\$29.41
3	60	\$18.99	\$8.20	\$4.14	\$0.00	\$31.33
4	65	\$20.57	\$8.20	\$4.49	\$0.00	\$33.26
5	70	\$22.16	\$8.20	\$15.78	\$0.00	\$46.14
6	75	\$23.74	\$8.20	\$16.13	\$0.00	\$48.07
7	80	\$25.32	\$8.20	\$16.47	\$0.00	\$49.99
8	90	\$28.49	\$8.20	\$17.16	\$0.00	\$53.85

**Notes:**

Steps are 750 hrs.

**Apprentice to Journeyworker Ratio:1:1**

PAINTER / TAPER (BRUSH, NEW) \*

 \* If 30% or more of surfaces to be painted are new construction,  
NEW paint rate shall be used. *PAINTERS LOCAL 35 - ZONE 3*

07/01/2019	\$32.63	\$8.20	\$17.55	\$0.00	\$58.38
01/01/2020	\$32.93	\$8.20	\$18.20	\$0.00	\$59.33
07/01/2020	\$34.03	\$8.20	\$18.20	\$0.00	\$60.43
01/01/2021	\$35.13	\$8.20	\$18.20	\$0.00	\$61.53

**Apprentice - PAINTER - Local 35 Zone 3 - BRUSH NEW****Effective Date - 07/01/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$16.32	\$8.20	\$0.00	\$0.00	\$24.52
2	55	\$17.95	\$8.20	\$3.63	\$0.00	\$29.78
3	60	\$19.58	\$8.20	\$3.96	\$0.00	\$31.74
4	65	\$21.21	\$8.20	\$4.29	\$0.00	\$33.70
5	70	\$22.84	\$8.20	\$15.57	\$0.00	\$46.61
6	75	\$24.47	\$8.20	\$15.90	\$0.00	\$48.57
7	80	\$26.10	\$8.20	\$16.23	\$0.00	\$50.53
8	90	\$29.37	\$8.20	\$16.89	\$0.00	\$54.46

**Effective Date - 01/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$16.47	\$8.20	\$0.00	\$0.00	\$24.67
2	55	\$18.11	\$8.20	\$3.80	\$0.00	\$30.11
3	60	\$19.76	\$8.20	\$4.14	\$0.00	\$32.10
4	65	\$21.40	\$8.20	\$4.49	\$0.00	\$34.09
5	70	\$23.05	\$8.20	\$15.78	\$0.00	\$47.03
6	75	\$24.70	\$8.20	\$16.13	\$0.00	\$49.03
7	80	\$26.34	\$8.20	\$16.47	\$0.00	\$51.01
8	90	\$29.64	\$8.20	\$17.16	\$0.00	\$55.00

**Notes:**

Steps are 750 hrs.

**Apprentice to Journeyworker Ratio:1:1**

PAINTER / TAPER (BRUSH, REPAINT)

PAINTERS LOCAL 35 - ZONE 3

07/01/2019	\$29.95	\$8.20	\$17.55	\$0.00	\$55.70
01/01/2020	\$30.25	\$8.20	\$18.20	\$0.00	\$56.65
07/01/2020	\$31.35	\$8.20	\$18.20	\$0.00	\$57.75
01/01/2021	\$32.45	\$8.20	\$18.20	\$0.00	\$58.85

**Classification**

**Effective Date   Base Wage   Health   Pension   Supplemental Unemployment   Total Rate**

**Apprentice - PAINTER Local 35 Zone 3 - BRUSH REPAINT**
**Effective Date - 07/01/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$14.98	\$8.20	\$0.00	\$0.00	\$23.18
2	55	\$16.47	\$8.20	\$3.63	\$0.00	\$28.30
3	60	\$17.97	\$8.20	\$3.96	\$0.00	\$30.13
4	65	\$19.47	\$8.20	\$4.29	\$0.00	\$31.96
5	70	\$20.97	\$8.20	\$15.57	\$0.00	\$44.74
6	75	\$22.46	\$8.20	\$15.90	\$0.00	\$46.56
7	80	\$23.96	\$8.20	\$16.23	\$0.00	\$48.39
8	90	\$26.96	\$8.20	\$16.89	\$0.00	\$52.05

**Effective Date - 01/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$15.13	\$8.20	\$0.00	\$0.00	\$23.33
2	55	\$16.64	\$8.20	\$3.80	\$0.00	\$28.64
3	60	\$18.15	\$8.20	\$4.14	\$0.00	\$30.49
4	65	\$19.66	\$8.20	\$4.49	\$0.00	\$32.35
5	70	\$21.18	\$8.20	\$15.78	\$0.00	\$45.16
6	75	\$22.69	\$8.20	\$16.13	\$0.00	\$47.02
7	80	\$24.20	\$8.20	\$16.47	\$0.00	\$48.87
8	90	\$27.23	\$8.20	\$17.16	\$0.00	\$52.59

**Notes:**

Steps are 750 hrs.

**Apprentice to Journeyworker Ratio:1:1**

PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY)	06/01/2019	\$31.50	\$7.85	\$12.18	\$0.00	\$51.53
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	12/01/2019	\$32.29	\$7.85	\$12.18	\$0.00	\$52.32
	06/01/2020	\$33.10	\$7.85	\$12.18	\$0.00	\$53.13
	12/01/2020	\$33.91	\$7.85	\$12.18	\$0.00	\$53.94
	06/01/2021	\$34.75	\$7.85	\$12.18	\$0.00	\$54.78
	12/01/2021	\$35.58	\$7.85	\$12.18	\$0.00	\$55.61
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
PANEL & PICKUP TRUCKS DRIVER	08/01/2019	\$34.08	\$12.41	\$12.70	\$0.00	\$59.19
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	12/01/2019	\$34.08	\$12.41	\$13.72	\$0.00	\$60.21
	06/01/2020	\$34.98	\$12.41	\$13.72	\$0.00	\$61.11
	08/01/2020	\$34.98	\$12.91	\$13.72	\$0.00	\$61.61
	12/01/2020	\$34.98	\$12.91	\$14.82	\$0.00	\$62.71
	06/01/2021	\$35.78	\$12.91	\$14.82	\$0.00	\$63.51
	08/01/2021	\$35.78	\$13.41	\$14.82	\$0.00	\$64.01
	12/01/2021	\$35.78	\$13.41	\$16.01	\$0.00	\$65.20
PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK)	08/01/2019	\$43.79	\$9.90	\$21.15	\$0.00	\$74.84
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 <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2019	\$43.79	\$9.90	\$21.15	\$0.00	\$74.84
<b>Apprentice - PILE DRIVER - Local 56 Zone 3</b>						
<b>Effective Date - 08/01/2019</b>						
Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<div> <b>Notes:</b> Apprentice wages shall be no less than the following Steps;  (Same as set in Zone 1)  1\$54.34/2\$58.99/3\$63.65/4\$65.98/5\$68.31/6\$68.31/7\$72.96/8\$72.96 </div>						
<b>Apprentice to Journeyworker Ratio:1:5</b>						
PIPELAYER <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	06/03/2019	\$31.75	\$7.85	\$14.22	\$0.00	\$53.82
	12/02/2019	\$32.56	\$7.85	\$14.22	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						
PIPELAYER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY &amp; HIGHWAY)</i>	06/01/2019	\$31.75	\$7.85	\$12.18	\$0.00	\$51.78
	12/01/2019	\$32.54	\$7.85	\$12.18	\$0.00	\$52.57
	06/01/2020	\$33.35	\$7.85	\$12.18	\$0.00	\$53.38
	12/01/2020	\$34.16	\$7.85	\$12.18	\$0.00	\$54.19
	06/01/2021	\$35.00	\$7.85	\$12.18	\$0.00	\$55.03
	12/01/2021	\$35.83	\$7.85	\$12.18	\$0.00	\$55.86
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
PLUMBER & PIPEFITTER <i>PLUMBERS &amp; PIPEFITTERS LOCAL 104</i>	09/17/2019	\$41.21	\$8.75	\$16.35	\$0.00	\$66.31
	03/17/2020	\$42.21	\$8.75	\$16.35	\$0.00	\$67.31
	09/17/2020	\$43.21	\$8.75	\$16.35	\$0.00	\$68.31
	03/17/2021	\$44.21	\$8.75	\$16.35	\$0.00	\$69.31
	09/17/2021	\$45.21	\$8.75	\$16.35	\$0.00	\$70.31
	03/17/2022	\$46.46	\$8.75	\$16.35	\$0.00	\$71.56
	09/17/2022	\$47.46	\$8.75	\$16.35	\$0.00	\$72.56
	03/17/2023	\$48.71	\$8.75	\$16.35	\$0.00	\$73.81
	09/17/2023	\$49.71	\$8.75	\$16.35	\$0.00	\$74.81
	03/17/2024	\$50.96	\$8.75	\$16.35	\$0.00	\$76.06

**Apprentice - PLUMBER/PIPEFITTER - Local 104****Effective Date - 09/17/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$18.54	\$8.75	\$9.60	\$0.00	\$36.89
2	50	\$20.61	\$8.75	\$9.60	\$0.00	\$38.96
3	55	\$22.67	\$8.75	\$9.60	\$0.00	\$41.02
4	60	\$24.73	\$8.75	\$9.60	\$0.00	\$43.08
5	65	\$26.79	\$8.75	\$9.60	\$0.00	\$45.14
6	70	\$28.85	\$8.75	\$9.60	\$0.00	\$47.20
7	75	\$30.91	\$8.75	\$9.60	\$0.00	\$49.26
8	80	\$32.97	\$8.75	\$9.60	\$0.00	\$51.32
9	80	\$32.97	\$8.75	\$16.35	\$0.00	\$58.07
10	80	\$32.97	\$8.75	\$16.35	\$0.00	\$58.07

**Effective Date - 03/17/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$18.99	\$8.75	\$9.60	\$0.00	\$37.34
2	50	\$21.11	\$8.75	\$9.60	\$0.00	\$39.46
3	55	\$23.22	\$8.75	\$9.60	\$0.00	\$41.57
4	60	\$25.33	\$8.75	\$9.60	\$0.00	\$43.68
5	65	\$27.44	\$8.75	\$9.60	\$0.00	\$45.79
6	70	\$29.55	\$8.75	\$9.60	\$0.00	\$47.90
7	75	\$31.66	\$8.75	\$9.60	\$0.00	\$50.01
8	80	\$33.77	\$8.75	\$9.60	\$0.00	\$52.12
9	80	\$33.77	\$8.75	\$16.35	\$0.00	\$58.87
10	80	\$33.77	\$8.75	\$16.35	\$0.00	\$58.87

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

PNEUMATIC CONTROLS (TEMP.)	09/17/2019	\$41.21	\$8.75	\$16.35	\$0.00	\$66.31
PLUMBERS & PIPEFITTERS LOCAL 104	03/17/2020	\$42.21	\$8.75	\$16.35	\$0.00	\$67.31
	09/17/2020	\$43.21	\$8.75	\$16.35	\$0.00	\$68.31
	03/17/2021	\$44.21	\$8.75	\$16.35	\$0.00	\$69.31
	09/17/2021	\$45.21	\$8.75	\$16.35	\$0.00	\$70.31
	03/17/2022	\$46.46	\$8.75	\$16.35	\$0.00	\$71.56
	09/17/2022	\$47.46	\$8.75	\$16.35	\$0.00	\$72.56
	03/17/2023	\$48.71	\$8.75	\$16.35	\$0.00	\$73.81
	09/17/2023	\$49.71	\$8.75	\$16.35	\$0.00	\$74.81
	03/17/2024	\$50.96	\$8.75	\$16.35	\$0.00	\$76.06

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

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY)	06/01/2019	\$31.75	\$7.85	\$12.18	\$0.00	\$51.78
<i>LABORERS - ZONE 3 (HEAVY &amp; HIGHWAY)</i>	12/01/2019	\$32.54	\$7.85	\$12.18	\$0.00	\$52.57
	06/01/2020	\$33.35	\$7.85	\$12.18	\$0.00	\$53.38
	12/01/2020	\$34.16	\$7.85	\$12.18	\$0.00	\$54.19
	06/01/2021	\$35.00	\$7.85	\$12.18	\$0.00	\$55.03
	12/01/2021	\$35.83	\$7.85	\$12.18	\$0.00	\$55.86
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
POWDERMAN & BLASTER	06/03/2019	\$32.50	\$7.85	\$14.22	\$0.00	\$54.57
<i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	12/02/2019	\$33.31	\$7.85	\$14.22	\$0.00	\$55.38
For apprentice rates see "Apprentice- LABORER"						
POWDERMAN & BLASTER (HEAVY & HIGHWAY)	06/01/2019	\$32.50	\$7.85	\$12.18	\$0.00	\$52.53
<i>LABORERS - ZONE 3 (HEAVY &amp; HIGHWAY)</i>	12/01/2019	\$33.29	\$7.85	\$12.18	\$0.00	\$53.32
	06/01/2020	\$34.10	\$7.85	\$12.18	\$0.00	\$54.13
	12/01/2020	\$34.91	\$7.85	\$12.18	\$0.00	\$54.94
	06/01/2021	\$35.75	\$7.85	\$12.18	\$0.00	\$55.78
	12/01/2021	\$36.58	\$7.85	\$12.18	\$0.00	\$56.61
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
PUMP OPERATOR (CONCRETE)	06/01/2019	\$35.05	\$11.69	\$14.08	\$0.00	\$60.82
<i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2019	\$35.40	\$11.94	\$14.35	\$0.00	\$61.69
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (DEWATERING, OTHER)	06/01/2019	\$34.52	\$11.69	\$14.08	\$0.00	\$60.29
<i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2019	\$34.87	\$11.94	\$14.35	\$0.00	\$61.16
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
READY-MIX CONCRETE DRIVER	05/01/2016	\$20.54	\$10.57	\$8.39	\$0.00	\$39.50
<i>TEAMSTERS 404 - Construction Service (Northampton)</i>						
RIDE-ON MOTORIZED BUGGY OPERATOR	06/03/2019	\$31.75	\$7.85	\$14.22	\$0.00	\$53.82
<i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	12/02/2019	\$32.56	\$7.85	\$14.22	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						
ROLLER OPERATOR	06/01/2019	\$33.91	\$11.69	\$14.08	\$0.00	\$59.68
<i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2019	\$34.26	\$11.94	\$14.35	\$0.00	\$60.55
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
ROOFER (Coal tar pitch)	07/16/2019	\$32.66	\$10.05	\$16.20	\$0.00	\$58.91
<i>ROOFERS LOCAL 248</i>						
For apprentice rates see "Apprentice- ROOFER"						
ROOFER (Inc.Roofers Waterproofing &Roofers Damproofg)	07/16/2019	\$32.16	\$10.05	\$15.70	\$0.00	\$57.91
<i>ROOFERS LOCAL 248</i>						



**Classification**
**Effective Date**
**Base Wage**
**Health**
**Pension**
**Supplemental  
Unemployment**
**Total Rate**
**Apprentice - ROOFER - Local 248**
**Effective Date - 07/16/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$19.30	\$10.05	\$0.00	\$0.00	\$29.35
2	65	\$20.90	\$10.05	\$15.70	\$0.00	\$46.65
3	70	\$22.51	\$10.05	\$15.70	\$0.00	\$48.26
4	75	\$24.12	\$10.05	\$15.70	\$0.00	\$49.87
5	80	\$25.73	\$10.05	\$15.70	\$0.00	\$51.48
6	85	\$27.34	\$10.05	\$15.70	\$0.00	\$53.09
7	90	\$28.94	\$10.05	\$15.70	\$0.00	\$54.69
8	95	\$30.55	\$10.05	\$15.70	\$0.00	\$56.30

**Notes:**

Steps are 750 hrs.Roofer(Tear Off)1:1; Same as above

**Apprentice to Journeyworker Ratio:1:3**

ROOFER SLATE / TILE / PRECAST CONCRETE ROOFERS LOCAL 248	07/16/2019	\$32.66	\$10.05	\$16.20	\$0.00	\$58.91
For apprentice rates see "Apprentice- ROOFER"						
SCRAPER OPERATING ENGINEERS LOCAL 98	06/01/2019	\$34.52	\$11.69	\$14.08	\$0.00	\$60.29
	12/01/2019	\$34.87	\$11.94	\$14.35	\$0.00	\$61.16
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
SELF-POWERED ROLLERS AND COMPACTORS (TAMPERS) OPERATING ENGINEERS LOCAL 98	06/01/2019	\$33.91	\$11.69	\$14.08	\$0.00	\$59.68
	12/01/2019	\$34.26	\$11.94	\$14.35	\$0.00	\$60.55
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
SELF-PROPELLED POWER BROOM OPERATING ENGINEERS LOCAL 98	06/01/2019	\$31.29	\$11.69	\$14.08	\$0.00	\$57.06
	12/01/2019	\$31.64	\$11.94	\$14.35	\$0.00	\$57.93
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
SHEETMETAL WORKER SHEETMETAL WORKERS LOCAL 63	07/01/2019	\$35.74	\$10.64	\$16.22	\$1.77	\$64.37
	01/01/2020	\$36.99	\$10.64	\$16.22	\$1.77	\$65.62

**Classification**

**Effective Date   Base Wage   Health   Pension   Supplemental Unemployment   Total Rate**

**Apprentice - SHEET METAL WORKER - Local 63**

**Effective Date - 07/01/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$16.08	\$6.21	\$4.67	\$0.00	\$26.96
2	50	\$17.87	\$6.55	\$5.19	\$0.00	\$29.61
3	55	\$19.66	\$6.88	\$9.33	\$1.08	\$36.95
4	60	\$21.44	\$7.22	\$9.33	\$1.14	\$39.13
5	65	\$23.23	\$7.55	\$9.33	\$1.20	\$41.31
6	70	\$25.02	\$7.88	\$9.33	\$1.27	\$43.50
7	75	\$26.81	\$8.22	\$9.33	\$1.33	\$45.69
8	80	\$28.59	\$9.30	\$15.18	\$1.59	\$54.66
9	85	\$30.38	\$9.64	\$15.18	\$1.66	\$56.86
10	90	\$32.17	\$9.98	\$15.18	\$1.72	\$59.05

**Effective Date - 01/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$16.65	\$6.21	\$4.67	\$0.00	\$27.53
2	50	\$18.50	\$6.55	\$5.19	\$0.00	\$30.24
3	55	\$20.34	\$6.88	\$9.33	\$1.08	\$37.63
4	60	\$22.19	\$7.22	\$9.33	\$1.14	\$39.88
5	65	\$24.04	\$7.55	\$9.33	\$1.20	\$42.12
6	70	\$25.89	\$7.88	\$9.33	\$1.27	\$44.37
7	75	\$27.74	\$8.22	\$9.33	\$1.33	\$46.62
8	80	\$29.59	\$9.30	\$15.18	\$1.59	\$55.66
9	85	\$31.44	\$9.64	\$15.18	\$1.66	\$57.92
10	90	\$33.29	\$9.98	\$15.18	\$1.72	\$60.17

**Notes:**

**Apprentice to Journeyworker Ratio:1:3**

SPECIALIZED EARTH MOVING EQUIP < 35 TONS	08/01/2019	\$34.54	\$12.41	\$12.70	\$0.00	\$59.65
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	12/01/2019	\$34.54	\$12.41	\$13.72	\$0.00	\$60.67
	06/01/2020	\$35.44	\$12.41	\$13.72	\$0.00	\$61.57
	08/01/2020	\$35.44	\$12.91	\$13.72	\$0.00	\$62.07
	12/01/2020	\$35.44	\$12.91	\$14.82	\$0.00	\$63.17
	06/01/2021	\$36.24	\$12.91	\$14.82	\$0.00	\$63.97
	08/01/2021	\$36.24	\$13.41	\$14.82	\$0.00	\$64.47
	12/01/2021	\$36.24	\$13.41	\$16.01	\$0.00	\$65.66

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>	08/01/2019	\$34.83	\$12.41	\$12.70	\$0.00	\$59.94
	12/01/2019	\$34.83	\$12.41	\$13.72	\$0.00	\$60.96
	06/01/2020	\$35.73	\$12.41	\$13.72	\$0.00	\$61.86
	08/01/2020	\$35.73	\$12.91	\$13.72	\$0.00	\$62.36
	12/01/2020	\$35.73	\$12.91	\$14.82	\$0.00	\$63.46
	06/01/2021	\$36.53	\$12.91	\$14.82	\$0.00	\$64.26
	08/01/2021	\$36.53	\$13.41	\$14.82	\$0.00	\$64.76
	12/01/2021	\$36.53	\$13.41	\$16.01	\$0.00	\$65.95
SPRINKLER FITTER <i>SPRINKLER FITTERS LOCAL 669</i>	01/01/2019	\$41.51	\$10.02	\$13.08	\$0.00	\$64.61

**Apprentice - SPRINKLER FITTER - Local 669**

**Effective Date - 01/01/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$18.68	\$7.75	\$0.00	\$0.00	\$26.43
2	50	\$20.76	\$7.75	\$0.00	\$0.00	\$28.51
3	55	\$22.83	\$10.02	\$7.25	\$0.00	\$40.10
4	60	\$24.91	\$10.02	\$7.25	\$0.00	\$42.18
5	65	\$26.98	\$10.02	\$7.50	\$0.00	\$44.50
6	70	\$29.06	\$10.02	\$7.50	\$0.00	\$46.58
7	75	\$31.13	\$10.02	\$7.50	\$0.00	\$48.65
8	80	\$33.21	\$10.02	\$7.50	\$0.00	\$50.73
9	85	\$35.28	\$10.02	\$7.50	\$0.00	\$52.80
10	90	\$37.36	\$10.02	\$7.50	\$0.00	\$54.88

**Notes:**

**Apprentice to Journeyworker Ratio:1:1**

TELECOMMUNICATION TECHNICIAN <i>ELECTRICIANS LOCAL 7</i>	06/30/2019	\$42.66	\$10.75	\$12.33	\$0.00	\$65.74
	12/29/2019	\$43.41	\$11.00	\$12.60	\$0.00	\$67.01

**Apprentice - TELECOMMUNICATION TECHNICIAN - Local 7****Effective Date - 06/30/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$17.06	\$5.85	\$0.51	\$0.00	\$23.42
2	45	\$19.20	\$5.85	\$0.58	\$0.00	\$25.63
3	50	\$21.33	\$10.75	\$6.94	\$0.00	\$39.02
4	55	\$23.46	\$10.75	\$7.00	\$0.00	\$41.21
5	65	\$27.73	\$10.75	\$8.13	\$0.00	\$46.61
6	70	\$29.86	\$10.75	\$9.20	\$0.00	\$49.81

**Notes:**

Steps are 800 hours

**Apprentice to Journeyworker Ratio:1:1****TERRAZZO FINISHERS***BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE*

08/01/2019	\$53.34	\$10.75	\$21.30	\$0.00	\$85.39
02/01/2020	\$53.98	\$10.75	\$21.30	\$0.00	\$86.03
08/01/2020	\$55.33	\$10.75	\$21.45	\$0.00	\$87.53
02/01/2021	\$55.97	\$10.75	\$21.45	\$0.00	\$88.17
08/01/2021	\$57.37	\$10.75	\$21.61	\$0.00	\$89.73
02/01/2022	\$57.96	\$10.75	\$21.61	\$0.00	\$90.32

**Apprentice - TERRAZZO FINISHER-Local 3 Marble/Tile (Spr/Ptt)****Effective Date - 08/01/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.67	\$10.75	\$21.30	\$0.00	\$58.72
2	60	\$32.00	\$10.75	\$21.30	\$0.00	\$64.05
3	70	\$37.34	\$10.75	\$21.30	\$0.00	\$69.39
4	80	\$42.67	\$10.75	\$21.30	\$0.00	\$74.72
5	90	\$48.01	\$10.75	\$21.30	\$0.00	\$80.06

**Effective Date - 02/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.99	\$10.75	\$21.30	\$0.00	\$59.04
2	60	\$32.39	\$10.75	\$21.30	\$0.00	\$64.44
3	70	\$37.79	\$10.75	\$21.30	\$0.00	\$69.84
4	80	\$43.18	\$10.75	\$21.30	\$0.00	\$75.23
5	90	\$48.58	\$10.75	\$21.30	\$0.00	\$80.63

**Notes:****Apprentice to Journeyworker Ratio:1:5**

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TERRAZZO MECHANIC	08/01/2019	\$54.42	\$10.75	\$21.30	\$0.00	\$86.47
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	02/01/2020	\$55.05	\$10.75	\$21.30	\$0.00	\$87.10
	08/01/2020	\$56.40	\$10.75	\$21.45	\$0.00	\$88.60
	02/01/2021	\$57.04	\$10.75	\$21.45	\$0.00	\$89.24
	08/01/2021	\$58.44	\$10.75	\$21.61	\$0.00	\$90.80
	02/01/2022	\$59.01	\$10.75	\$21.61	\$0.00	\$91.37

**Apprentice - TERRAZZO MECH - Local 3 Marble/Tile (Spr/Pitt)**

**Effective Date - 08/01/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$27.21	\$10.75	\$21.30	\$0.00	\$59.26
2	60	\$32.65	\$10.75	\$21.30	\$0.00	\$64.70
3	70	\$38.09	\$10.75	\$21.30	\$0.00	\$70.14
4	80	\$43.54	\$10.75	\$21.30	\$0.00	\$75.59
5	90	\$48.98	\$10.75	\$21.30	\$0.00	\$81.03

**Effective Date - 02/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$27.53	\$10.75	\$21.30	\$0.00	\$59.58
2	60	\$33.03	\$10.75	\$21.30	\$0.00	\$65.08
3	70	\$38.54	\$10.75	\$21.30	\$0.00	\$70.59
4	80	\$44.04	\$10.75	\$21.30	\$0.00	\$76.09
5	90	\$49.55	\$10.75	\$21.30	\$0.00	\$81.60

**Notes:**

**Apprentice to Journeyworker Ratio:1:5**

TEST BORING DRILLER	06/01/2019	\$40.50	\$7.85	\$16.05	\$0.00	\$64.40
LABORERS - FOUNDATION AND MARINE	12/01/2019	\$41.50	\$7.85	\$16.05	\$0.00	\$65.40
	06/01/2020	\$42.49	\$7.85	\$16.05	\$0.00	\$66.39
	12/01/2020	\$43.47	\$7.85	\$16.05	\$0.00	\$67.37
	06/01/2021	\$44.49	\$7.85	\$16.05	\$0.00	\$68.39
	12/01/2021	\$45.50	\$7.85	\$16.05	\$0.00	\$69.40

For apprentice rates see "Apprentice- LABORER"

TEST BORING DRILLER HELPER	06/01/2019	\$39.22	\$7.85	\$16.05	\$0.00	\$63.12
LABORERS - FOUNDATION AND MARINE	12/01/2019	\$40.22	\$7.85	\$16.05	\$0.00	\$64.12
	06/01/2020	\$41.21	\$7.85	\$16.05	\$0.00	\$65.11
	12/01/2020	\$42.19	\$7.85	\$16.05	\$0.00	\$66.09
	06/01/2021	\$43.21	\$7.85	\$16.05	\$0.00	\$67.11
	12/01/2021	\$44.22	\$7.85	\$16.05	\$0.00	\$68.12

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TEST BORING LABORER <i>LABORERS - FOUNDATION AND MARINE</i>	06/01/2019	\$39.10	\$7.85	\$16.05	\$0.00	\$63.00
	12/01/2019	\$40.10	\$7.85	\$16.05	\$0.00	\$64.00
	06/01/2020	\$41.09	\$7.85	\$16.05	\$0.00	\$64.99
	12/01/2020	\$42.07	\$7.85	\$16.05	\$0.00	\$65.97
	06/01/2021	\$43.09	\$7.85	\$16.05	\$0.00	\$66.99
	12/01/2021	\$44.10	\$7.85	\$16.05	\$0.00	\$68.00
For apprentice rates see "Apprentice- LABORER"						
TRACTORS <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/2019	\$33.91	\$11.69	\$14.08	\$0.00	\$59.68
	12/01/2019	\$34.26	\$11.94	\$14.35	\$0.00	\$60.55
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
TRAILERS FOR EARTH MOVING EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	08/01/2019	\$35.12	\$12.41	\$12.70	\$0.00	\$60.23
	12/01/2019	\$35.12	\$12.41	\$13.72	\$0.00	\$61.25
	06/01/2020	\$36.02	\$12.41	\$13.72	\$0.00	\$62.15
	08/01/2020	\$36.02	\$12.91	\$13.72	\$0.00	\$62.65
	12/01/2020	\$36.02	\$12.91	\$14.82	\$0.00	\$63.75
	06/01/2021	\$36.82	\$12.91	\$14.82	\$0.00	\$64.55
	08/01/2021	\$36.82	\$13.41	\$14.82	\$0.00	\$65.05
	12/01/2021	\$36.82	\$13.41	\$16.01	\$0.00	\$66.24
TUNNEL WORK - COMPRESSED AIR <i>LABORERS (COMPRESSED AIR)</i>	06/01/2019	\$51.38	\$7.85	\$16.45	\$0.00	\$75.68
	12/01/2019	\$52.38	\$7.85	\$16.45	\$0.00	\$76.68
	06/01/2020	\$53.37	\$7.85	\$16.45	\$0.00	\$77.67
	12/01/2020	\$54.35	\$7.85	\$16.45	\$0.00	\$78.65
	06/01/2021	\$55.37	\$7.85	\$16.45	\$0.00	\$79.67
	12/01/2021	\$56.38	\$7.85	\$16.45	\$0.00	\$80.68
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE) <i>LABORERS (COMPRESSED AIR)</i>	06/01/2019	\$53.38	\$7.85	\$16.45	\$0.00	\$77.68
	12/01/2019	\$54.38	\$7.85	\$16.45	\$0.00	\$78.68
	06/01/2020	\$55.37	\$7.85	\$16.45	\$0.00	\$79.67
	12/01/2020	\$56.35	\$7.85	\$16.45	\$0.00	\$80.65
	06/01/2021	\$57.37	\$7.85	\$16.45	\$0.00	\$81.67
	12/01/2021	\$58.38	\$7.85	\$16.45	\$0.00	\$82.68
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - FREE AIR <i>LABORERS (FREE AIR TUNNEL)</i>	06/01/2019	\$43.45	\$7.85	\$16.45	\$0.00	\$67.75
	12/01/2019	\$44.45	\$7.85	\$16.45	\$0.00	\$68.75
	06/01/2020	\$45.44	\$7.85	\$16.45	\$0.00	\$69.74
	12/01/2020	\$46.42	\$7.85	\$16.45	\$0.00	\$70.72
	06/01/2021	\$47.44	\$7.85	\$16.45	\$0.00	\$71.74
	12/01/2021	\$48.45	\$7.85	\$16.45	\$0.00	\$72.75
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - FREE AIR (HAZ. WASTE) <i>LABORERS (FREE AIR TUNNEL)</i>	06/01/2019	\$45.45	\$7.85	\$16.45	\$0.00	\$69.75
	12/01/2019	\$46.45	\$7.85	\$16.45	\$0.00	\$70.75
	06/01/2020	\$47.44	\$7.85	\$16.45	\$0.00	\$71.74
	12/01/2020	\$48.42	\$7.85	\$16.45	\$0.00	\$72.72
	06/01/2021	\$49.44	\$7.85	\$16.45	\$0.00	\$73.74
	12/01/2021	\$50.45	\$7.85	\$16.45	\$0.00	\$74.75
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
VAC-HAUL <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	08/01/2019	\$34.54	\$12.41	\$12.70	\$0.00	\$59.65
	12/01/2019	\$34.54	\$12.41	\$13.72	\$0.00	\$60.67
	06/01/2020	\$35.44	\$12.41	\$13.72	\$0.00	\$61.57
	08/01/2020	\$35.44	\$12.91	\$13.72	\$0.00	\$62.07
	12/01/2020	\$35.44	\$12.91	\$14.82	\$0.00	\$63.17
	06/01/2021	\$36.24	\$12.91	\$14.82	\$0.00	\$63.97
	08/01/2021	\$36.24	\$13.41	\$14.82	\$0.00	\$64.47
	12/01/2021	\$36.24	\$13.41	\$16.01	\$0.00	\$65.66
WAGON DRILL OPERATOR <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	06/03/2019	\$31.75	\$7.85	\$14.22	\$0.00	\$53.82
	12/02/2019	\$32.56	\$7.85	\$14.22	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						
WAGON DRILL OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY &amp; HIGHWAY)</i>	06/01/2019	\$31.75	\$7.85	\$12.18	\$0.00	\$51.78
	12/01/2019	\$32.54	\$7.85	\$12.18	\$0.00	\$52.57
	06/01/2020	\$33.35	\$7.85	\$12.18	\$0.00	\$53.38
	12/01/2020	\$34.16	\$7.85	\$12.18	\$0.00	\$54.19
	06/01/2021	\$35.00	\$7.85	\$12.18	\$0.00	\$55.03
	12/01/2021	\$35.83	\$7.85	\$12.18	\$0.00	\$55.86
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
WATER METER INSTALLER <i>PLUMBERS &amp; PIPEFITTERS LOCAL 104</i>	09/17/2019	\$41.21	\$8.75	\$16.35	\$0.00	\$66.31
	03/17/2020	\$42.21	\$8.75	\$16.35	\$0.00	\$67.31
	09/17/2020	\$43.21	\$8.75	\$16.35	\$0.00	\$68.31
	03/17/2021	\$44.21	\$8.75	\$16.35	\$0.00	\$69.31
	09/17/2021	\$45.21	\$8.75	\$16.35	\$0.00	\$70.31
	03/17/2022	\$46.46	\$8.75	\$16.35	\$0.00	\$71.56
	09/17/2022	\$47.46	\$8.75	\$16.35	\$0.00	\$72.56
	03/17/2023	\$48.71	\$8.75	\$16.35	\$0.00	\$73.81
	09/17/2023	\$49.71	\$8.75	\$16.35	\$0.00	\$74.81
	03/17/2024	\$50.96	\$8.75	\$16.35	\$0.00	\$76.06
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"						

Additional Apprentice Information:

Minimum wage rates for apprentices employed on public works projects are listed above as a percentage of the pre-determined hourly wage rate established by the Commissioner under the provisions of the M.G.L. c. 149, ss. 26-27D. Apprentice ratios are established by the Division of Apprenticeship Training pursuant to M.G.L. c. 23, ss. 11E-11L.

All apprentices must be registered with the Division of Apprenticeship Training in accordance with M.G.L. c. 23, ss. 11E-11L.

All steps are six months (1000 hours.)

Ratios are expressed in allowable number of apprentices to journeymen or fraction thereof, unless otherwise specified.

\*\* Multiple ratios are listed in the comment field.

\*\*\* APP to JM; 1:1, 2:2, 2:3, 3:4, 4:4, 4:5, 4:6, 5:7, 6:7, 6:8, 6:9, 7:10, 8:10, 8:11, 8:12, 9:13, 10:13, 10:14, etc.

\*\*\*\* APP to JM; 1:1, 1:2, 2:3, 2:4, 3:5, 4:6, 4:7, 5:8, 6:9, 6:10, 7:11, 8:12, 8:13, 9:14, 10:15, 10:16, etc.

**ATTACHMENT B**

**SAMPLE CONTRACT TERMS AND CONDITIONS**



The following provisions shall constitute an Agreement between the Town of Longmeadow, acting by and through its Town Manager and/or Select Board, hereinafter referred to as "Town", and CONTRACTOR with an address of ADDRESS hereinafter referred to as "Contractor", effective as of the XX day of November, 2019. In consideration of the mutual covenants contained herein, the parties agree as follows:

**ARTICLE 1: SCOPE OF WORK:**

The Contractor shall perform all work in accordance with the specifications contained in Attachment A - Scope of Services: Invitation for Bid: Town of Longmeadow, IFB: Russell Field Erosion Project dated October 31, 2019; and Addenda No. (if any).

**ARTICLE 2: TIME OF PERFORMANCE:**

The contractor shall complete all work and services required on or before March 14, 2020, the Substantial Completion date. The Contractor shall be liable for liquidated damages in the amount of \$100.00 per calendar day for non-completed work after the date of Substantial Completion.

**ARTICLE 3: COMPENSATION:**

The Town shall pay the Contractor for the performance of the work outlined in Article 1 above, based on unit pricing which based on bid quantities is \$ TBD. Compensation shall be in accordance with the provisions of the specifications, or as set forth in an attachment hereto in Attachment B, the price proposal. Total compensation may vary based on any pre-approved change in the unit quantities.

**ARTICLE 4: CONTRACT DOCUMENTS:**

The following documents form the Contract and all are as fully a part of the Contract as if attached to this Agreement herein:

1. This Agreement.
2. Amendments, or other changes mutually agreed upon between the parties.
3. All attachments to the Agreement.
4. 50% Payment Bond, in the amount of \$

In the event of conflicting provisions, those provisions most favorable to the Town shall govern.

**ARTICLE 5: CONTRACT TERMINATION:**

The Town may suspend or terminate this agreement by providing the Contractor with ten (10) days written notice for the reasons outlined as follows:

1. Failure of the Contractor, for any reason, to fulfill in a timely and proper manner its obligations under this Agreement
2. Violation of any of the provisions of this Agreement by the Contractor.
3. A determination by the Town that the Contractor has engaged in fraud, waste, mismanagement, misuse of funds, or criminal activity with any funds provided by this Agreement.

**ARTICLE 6: INDEMNIFICATION:**

The Contractor shall, to the maximum extent permitted by law, indemnify and save harmless the Town of Longmeadow, its officers, agents and employees from and against any and all damages, liabilities, actions, suits, proceedings, claims, demands, losses, costs and expenses (including reasonable attorneys' fees) that may arise out of or in connection with the work and/or service being performed or to be performed by the Contractor, its employees, agents, or subcontractors. The existence of insurance shall in no way limit the scope of this indemnification. The Contractor further agrees to reimburse the Town of Longmeadow for damage to its property caused by the contractor, its employees, agents, subcontractors, or materials. Contractor shall be solely responsible

for all local taxes or contributions imposed or required under the Social Security, Workers Compensation, and income tax laws.

**ARTICLE 7: AVAILABILITY OF FUNDS:**

The compensation provided by this Agreement is subject to the availability and appropriation of funds. The contractor shall be obligated to provide services hereunder, only to the extent that said funds are available.

**ARTICLE 8: APPLICABLE LAW:**

The Contractor agrees to comply with all applicable local, state and federal laws, regulations and orders relating to the completion of this Agreement. This Agreement shall be governed by and construed in accordance with the law of the Commonwealth of Massachusetts.

**ARTICLE 9: ASSIGNMENT:**

The Contractor shall not make any assignment of this Agreement without the prior written approval of the Town.

**ARTICLE 10: AMENDMENTS:**

All amendments or any changes to the provisions specified in this Contract can only occur when mutually agreed upon by the Town and Contractor. Further, such amendments or changes shall be in writing and signed by officials with authority to bind the Town. Additionally, all amendments and changes shall be approved by the Town Accountant prior to execution by the awarding authority. No amendment or change to the contract provisions shall be made until after the written execution of the amendment or change to the Contract by both parties.

**ARTICLE 11: INSURANCE:**

The Contractor shall be responsible to the Town or any third party for any property damage or bodily injury caused by it, any of its subcontractors, employees or agents in the performance of, or as a result of, the work under this Agreement. The Contractor and any subcontractors used hereby certify that they are insured for workers' compensation, property damage, personal and product liability. The Contractor and any subcontractor it uses shall purchase, furnish copies of, and maintain in full force and effect insurance policies in the amounts here indicated.

**General Liability**

Bodily Injury Liability:	\$1,000,000 per occurrence
Property Damage Liability	\$1,000,000 per occurrence
(or combined single limit)	\$1,000,000 per occurrence

**Automobile Liability**

Bodily Injury Liability:	\$1,000,000 per occurrence
Property Damage Liability	\$1,000,000 per occurrence
(or combined single limit)	\$1,000,000 per occurrence

**Workers' Compensation Insurance**

Coverage for all employees in accordance with Massachusetts General Laws. Prior to commencement of any work under this Agreement, the Contractor shall provide the Town with Certificates of Insurance which include the Town as an additional named insured and which include a thirty-day notice of cancellation to the Town.

**ARTICLE 12: PREVAILING 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 27H, 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.

### **ARTICLE 13: SAFETY AND PROTECTION**

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. The contractor shall at all times safely guard and protect their 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 the completion of the work.

The Contractor shall comply with all applicable OSHA, State and municipal regulations and requirements for services and facilities in the performance of all requirements of this contract. OSHA safety requirements and training certification shall be adhered to for all personnel working on Town property.

### **ARTICLE 14: ENGINEER / ARCHITECT**

The Project has a designated engineer: Yes   X   or; No       . If yes, the designated engineer consultant is [Design Professionals](#), who is hereinafter called ENGINEER. ENGINEER will act as the Town's representative, assuming all duties and responsibilities, rights and authority assigned to ENGINEER in the Contract Documents in connection with the completion of the Work in accordance with the Contract Documents.

### **ARTICLE 15: PROGRESS PAYMENTS**

Applications for Payment shall be processed in accordance with the General Conditions and in accordance with Massachusetts General Law. The Town shall make progress payments on account of the Contract Price on the basis of processed Applications for Payment monthly during construction. All progress payments will be measured by the schedule of values as specified in the General Conditions. The Town shall retain from progress payments five (5) percent of the value of work completed.

### **ARTICLE 16: CONTRACTOR'S REPRESENTATIONS**

CONTRACTOR makes the following representations:

- A. CONTRACTOR has examined and carefully studied the Contract Documents and the other related data identified in the Bidding Documents.
- B. CONTRACTOR has visited the site and become familiar with and is satisfied as to the general, local, and site conditions that may affect cost, progress, and performance of the Work.
- C. CONTRACTOR is familiar with and is satisfied as to all federal, state, and local Laws and Regulations that may affect cost, progress, and performance of the Work.
- D. CONTRACTOR has obtained and carefully studied (or assumes responsibility for having done so) all additional or supplementary examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface, and underground facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by CONTRACTOR, including applying the specific means, methods, techniques, sequences, and procedures of construction, if any, expressly required by the Contract Documents to be employed by CONTRACTOR, and safety precautions and programs incident thereto.

- E. CONTRACTOR does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract Documents.
- F. CONTRACTOR is aware of the general nature of Work to be performed by Town and others at the Site that relates to the Work as indicated in the Contract Documents.
- G. CONTRACTOR has correlated the information known to CONTRACTOR, information and observations obtained from visits to the Site, reports and drawings identified in the Contract Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Contract Documents.
- H. CONTRACTOR has given Town written notice of all conflicts, errors, ambiguities, or discrepancies that CONTRACTOR has discovered in the Contract Documents, and the written resolution thereof by Town is acceptable to CONTRACTOR.
- I. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

## **ATTACHMENT C:**

### **PLANS**

Design Professionals Construction Plans:

Russell Field Erosion Project Bliss Road, Longmeadow,  
Massachusetts, Plan set of two (2) pages:

C-SP1, Site Plan, and  
C-D1, NOTES, LEGEND, & DETAILS

**BID SUBMISSION FORM**

**INVITATION FOR BID  
RUSSELL FIELD EROSION PROJECT  
TOWN OF LONGMEADOW, MASSACHUSETTS**

**BIDDER'S NAME:**\_\_\_\_\_

**THIS BID IS SUBMITTED TO:**

Town of Longmeadow  
Purchasing Department  
Attn: Chad Thompson, Procurement Manager  
735 Longmeadow Street, Suite 101  
Longmeadow, MA 01106

The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with OWNER in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

Bidder accepts all of the terms and conditions of the Advertisement for Bids and Instructions to Bidders, including without limitation, those dealing with the disposition of Bid security. The Bid will remain subject to acceptance for 30 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of OWNER.

In submitting this Bid, Bidder represents, as set forth in the Agreement, that:

Bidder has examined and carefully studied the Bidding Documents, the other related data identified in the Bidding Documents and the Addenda.

Bidder has visited the Site and become familiar with and is satisfied as to the general, local and Site conditions that may affect cost, progress, and performance of the Work.

Bidder is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress and performance of the Work including Prevailing Wage.

Bidder has obtained and carefully studied (or assumes responsibility for having done so) all additional or supplementary examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface and Underground Utilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents to be employed by Bidder, and safety precautions and programs incident thereto.

Bidder is aware of the general nature of work to be performed by OWNER and others at the Site that relates to the Work as indicated in the Bidding Documents.

**BID SUBMISSION FORM**

**INVITATION FOR BID  
RUSSELL FIELD EROSION PROJECT  
TOWN OF LONGMEADOW, MASSACHUSETTS**

**BIDDER'S NAME:** \_\_\_\_\_

Bidder has correlated the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents.

Bidder has given OWNER written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by OWNER is acceptable to Bidder.

The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the Work for which this Bid is submitted.

Bidder will complete the Work in accordance with the Contract Documents for the following price(s) which is inclusive of the furnishing all plant, labor at Prevailing Wage Rates, equipment, and materials necessary to perform all Scope of Work and Specifications.

**BID ACKNOWLEDGEMENT**

The undersigned certifies that the contract documents, specifications and drawings have been carefully examined, and that the site of the work has been personally inspected. The undersigned declares that the amount and nature of the work to be done is understood, and that at no time will a misunderstanding of the contract documents be pleaded.

The undersigned proposes to furnish all labor, materials, and equipment required and incidental and pay all bonds, taxes, and permits required for the carrying out of the work for the **Russell Field Erosion Project** for the contract price as specified below and outlined herein and subject to the additions and deductions heretofore provided for in the specifications.

**Schedule:**

**Substantial Completion to be obtained by March 14, 2020**

**BASE BID TOTAL:**

The proposed contract sum for the contract is \$ \_\_\_\_\_, **TOTAL**  
(numerical)

\_\_\_\_\_**Dollars, TOTAL**  
(Dollars written in Words)

Written Words shall prevail in interpretation in the event of a discrepancy.

**ADDENDUM:**

The bidder acknowledges the receipt of the following bid addendum: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

**INVITATION FOR BID  
RUSSELL FIELD EROSION PROJECT  
TOWN OF LONGMEADOW, MASSACHUSETTS**

**BIDDER'S NAME:** \_\_\_\_\_

1.1 Bidder certifies under penalties of perjury that this Bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used herein the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity.

2.1 Bidder further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the Commonwealth under the provisions of Section Twenty-Nine F of Chapter Twenty-Nine, or any other applicable debarment provisions of any other Chapter of the General Laws or any rule or regulation promulgated thereunder.

3.1 The following documents are attached to and made a conditions of this Bid:

4.1 Bid security in the amount of \_\_\_\_\_ dollars (\$\_\_\_\_\_), consisting of a bid bond or certified check, in the amount of five percent of the total amount of bid.

5.1 Certified copy of Resolution of Board of Directors (if Corporation)

Date \_\_\_\_\_

\_\_\_\_\_  
(Print Name of Firm Submitting a General Bid)

\_\_\_\_\_  
(Signature of Authorized Representative)

\_\_\_\_\_  
(Print Name of Person Signing Bid and Title)

\_\_\_\_\_  
(Business Address)

\_\_\_\_\_  
(City, State and Zip Code)

Phone #: \_\_\_\_\_

Fax #: \_\_\_\_\_

E-Mail: \_\_\_\_\_

\_\_\_\_\_  
Social Security or Federal ID



**INVITATION FOR BID  
RUSSELL FIELD EROSION PROJECT  
TOWN OF LONGMEADOW, MASSACHUSETTS**

**BIDDER'S NAME:** \_\_\_\_\_

The BIDDER shall complete the section that is comparative to the business type of the Bidder:

**An Individual**

By \_\_\_\_\_  
(Individual's Signature)

\_\_\_\_\_  
(Printed or Typed Name of Individual)

Doing Business as \_\_\_\_\_

License or Registration Number: \_\_\_\_\_

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

\_\_\_\_\_

\_\_\_\_\_

Phone #: \_\_\_\_\_

Fax #: \_\_\_\_\_

**A Partnership**

By \_\_\_\_\_  
(Firm's Name)

By \_\_\_\_\_  
(Partner's Signature)

\_\_\_\_\_  
(Printed or Typed Name and Title of Partner)

License or Registration Number: \_\_\_\_\_

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

\_\_\_\_\_

\_\_\_\_\_

Phone #: \_\_\_\_\_

Fax #: \_\_\_\_\_

**INVITATION FOR BID  
RUSSELL FIELD EROSION PROJECT  
TOWN OF LONGMEADOW, MASSACHUSETTS**

**BIDDER'S NAME:** \_\_\_\_\_

**A Corporation**

By \_\_\_\_\_  
(Corporation's Name)

\_\_\_\_\_  
(State of Incorporation)

By \_\_\_\_\_  
(Signature of Officer Authorized to Sign)

\_\_\_\_\_  
(Printed or Typed Name and Title of Officer Authorized to Sign)  
(CORPORATE SEAL)

Attest \_\_\_\_\_  
(Secretary)

License or Registration Number: \_\_\_\_\_

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

\_\_\_\_\_

\_\_\_\_\_

Phone #: \_\_\_\_\_

Fax #: \_\_\_\_\_

**A Joint Venture**

By \_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Printed or Typed Name)

\_\_\_\_\_  
(Address)

Phone #: \_\_\_\_\_

Fax #: \_\_\_\_\_

By \_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Printed or Typed Name)

\_\_\_\_\_  
(Address)

Phone #: \_\_\_\_\_

Fax #: \_\_\_\_\_

(Each joint venture must sign. The manner of signing for each individual, partnership and corporation that is a party to the joint venture should be in the manner indicated above.)

**INVITATION FOR BID  
RUSSELL FIELD EROSION PROJECT  
TOWN OF LONGMEADOW, MASSACHUSETTS**

**BIDDER'S NAME:** \_\_\_\_\_

**CERTIFICATE OF NON-COLLUSION**

The undersigned certifies under the penalties of perjury that this bid or proposal 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.

\_\_\_\_\_  
(Signature of person signing bid or proposal)

\_\_\_\_\_  
(Name of Business)

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

**CERTIFICATE OF TAX COMPLIANCE:**

Pursuant to M.G.L. c. 62C, §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.

\_\_\_\_\_  
*Social Security Number or  
Federal Identification Number*

\_\_\_\_\_  
*Signature of Individual or  
Corporate Name*

\_\_\_\_\_  
*Corporate Officer  
(if applicable)*

**INVITATION FOR BID  
RUSSELL FIELD EROSION PROJECT  
TOWN OF LONGMEADOW, MASSACHUSETTS**

**BIDDER'S NAME:** \_\_\_\_\_

**BIDDER'S QUALIFICATIONS AND REFERENCES FORM**

All questions must be answered, and the data given must be clear and comprehensive. Please type or print legibly. If necessary, add additional sheet for starred items. This information will be utilized by the Town for purposes of determining bidder responsiveness and responsibility with regard to the requirements and specifications of the Contract.

1. BIDDER/FIRM NAME: \_\_\_\_\_

2. WHEN ORGANIZED: \_\_\_\_\_

3. INCORPORATED?

\_\_\_\_\_ YES

\_\_\_\_\_ NO DATE AND STATE OF INCORPORATION: \_\_\_\_\_

4. IS YOUR BUSINESS REGISTERED WITH SOMWBA FOR THE FOLLOWING WOMEN AND/OR MINORITY CATEGORIES:

MBE? \_\_\_\_\_ YES \_\_\_\_\_ NO

WBE? \_\_\_\_\_ YES \_\_\_\_\_ NO

MWBE? \_\_\_\_\_ YES \_\_\_\_\_ NO

5. HAVE YOU EVER FAILED TO COMPLETE A CONTRACT AWARDED TO YOU?

\_\_\_\_\_ YES

\_\_\_\_\_ NO

IF YES, WHERE AND WHY?

\_\_\_\_\_  
\_\_\_\_\_

6. HAVE YOU EVER DEFAULTED ON A CONTRACT? \_\_\_\_\_ YES \_\_\_\_\_ NO

IF YES, PROVIDE DETAILS.

\_\_\_\_\_  
\_\_\_\_\_

7. LIST YOUR VEHICLES/EQUIPMENT AVAILABLE FOR THIS CONTRACT:

\_\_\_\_\_  
\_\_\_\_\_

**INVITATION FOR BID  
RUSSELL FIELD EROSION PROJECT  
TOWN OF LONGMEADOW, MASSACHUSETTS**

8. IN THE SPACES FOLLOWING, PROVIDE INFORMATION REGARDING CONTRACTS COMPLETED BY YOUR FIRM SIMILAR IN NATURE TO THE PROJECT BEING BID. THE TOWN RESERVES THE RIGHT TO CHECK REFERENCES FROM ANY LISTED OR KNOWN UNLISTED PROJECT OF THE CONTRACTOR IN CONSIDERATION OF EVALUATING IF A BIDDER IS RESPONSIVE AND ELIGIBLE. UNFAVORABLE REFERENCE CHECKS ARE GROUNDS FOR BID REJECTION AT THE SOLE DISCRETION OF THE TOWN.

PROJECT NAME: \_\_\_\_\_  
OWNER: \_\_\_\_\_  
CITY/STATE: \_\_\_\_\_  
DOLLAR AMOUNT: \$ \_\_\_\_\_ DATE COMPLETED: \_\_\_\_\_  
PUBLICLY BID? \_\_\_\_\_ YES \_\_\_\_\_ NO  
TYPE OF WORK?: \_\_\_\_\_  
CONTACT PERSON: \_\_\_\_\_ TELEPHONE #: (\_\_\_\_) \_\_\_\_\_  
CONTACT PERSON'S RELATION TO PROJECT?: \_\_\_\_\_  
(i.e., contract manager, purchasing agent, etc.)  
\_\_\_\_\_

PROJECT NAME: \_\_\_\_\_  
OWNER: \_\_\_\_\_  
CITY/STATE: \_\_\_\_\_  
DOLLAR AMOUNT: \$ \_\_\_\_\_ DATE COMPLETED: \_\_\_\_\_  
PUBLICLY BID? \_\_\_\_\_ YES \_\_\_\_\_ NO  
TYPE OF WORK?: \_\_\_\_\_  
CONTACT PERSON: \_\_\_\_\_ TELEPHONE #: (\_\_\_\_) \_\_\_\_\_  
CONTACT PERSON'S RELATION TO PROJECT?: \_\_\_\_\_  
(i.e., contract manager, purchasing agent, etc.)  
\_\_\_\_\_

9. The undersigned certifies that the information contained herein is complete and accurate and here by authorizes and requests any person, firm, or corporation to furnish any information requested by the Town in verification of the recitals comprising this statement of Bidder's qualifications and experience.

DATE: \_\_\_\_\_  
BIDDER: \_\_\_\_\_  
SIGNATURE: \_\_\_\_\_