

Underground Fuel Storage Tank Removal Project

Invitation for Bid

Town of Longmeadow, Massachusetts

March 2018

Tighe&Bond

UNDERGROUND FUEL STORAGE TANK REMOVAL PROJECT

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LEGAL NOTICE:

INVITATION FOR BID (IFB)

UNDERGROUND FUEL STORAGE TANK REMOVAL

The Town of Longmeadow, MA, is soliciting written response quotes through a sealed bid process for the Underground Fuel Storage Tank Removal project. Bid documents are available from the Town of Longmeadow, Purchasing Department, Attn: Chad Thompson- Procurement Manager, 735 Longmeadow Street, Suite 101, Longmeadow, MA 01106, P: 413-565-4185, cthompson@longmeadow.org . Purchasing Department office hours are between 8:00 a.m. and 4:30 p.m., Monday through Thursday, and 8:00 a.m. to 12:00 p.m. on Fridays. Bid documents can also be accessed online through the Purchasing Department page of the town website www.longmeadow.org by selecting 'Bid & RFP' links. Bidders are encouraged to register with the Purchasing Department, those that do not register will be responsible for monitoring the bid listing service for updates and posted addenda. Failure to acknowledge the receipt of addenda may result in a bid rejection.

An Optional Pre-Bid Conference will be held beginning at 11:00 a.m. on Wednesday, March 28, 2018 at the Longmeadow DPW, 31 Pondsides Road, Longmeadow, MA 01106.

Sealed bids should be delivered to the Longmeadow Purchasing Department and will be accepted until the bid deadline of Thursday, April 12, 2018 at 1:30 p.m. Sealed bids should be labeled 'IFB: Underground Fuel Storage Tank Removal' on the outer envelope along with the bidder's company name, address and contact information. Late bids will be rejected. Immediately following the bid deadline, bids will be publicly opened in the auditorium. No bid deposit is required with the submission of bids as the project estimate is \$40,000. Wages are subject to Massachusetts minimum wage rates as per M.G.L. C.149, Section 26 to 27H, inclusive. A 50% Payment Bond will be required of the successful bidder upon contract award. No bid may be withdrawn within thirty (30) days after the date of the opening of bids.

All bids received will be evaluated and awarded in accordance with the provisions established under Massachusetts General Law Chapter 30,39M, inclusive or as amended. 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.

INVITATION FOR BID (IFB)
UNDERGROUND FUEL STORAGE TANK REMOVAL
TOWN OF LONGMEADOW, MASSACHUSETTS

The Town of Longmeadow is soliciting written response quotes through a sealed bid process for the Underground Fuel Storage Tank Removal project. Bids are requested from qualified and experienced Contractors for the demolition of underground fuel storage tanks and a fleet fueling station located at the Longmeadow Department of Public Works, 31 Pondsides Road in Longmeadow, Massachusetts.

The work consists removal and disposal of two 6,000-gallon fuel storage tanks, one 3,000-gallon fuel storage tank, fleet fueling station, ancillary piping, electrical, and fuel monitoring system. Work will also consist of backfill, compaction, and restoration of the asphalt surface within the area of work shown on the project Drawing. The work shall be coordinated with the Longmeadow Department of Public Works and their Engineering Consultant, Tighe & Bond, Inc.

See Section 2, Scope and Services and Appendix A of this Invitation for Bid (IFB) for a detailed description of the solicitation requirements.

The Town of Longmeadow has issued this RFP in accordance with Massachusetts General Law Chapter 30, 39M – Public Works Construction Contracts. The anticipated value of this contract is approximately \$40,000.

1. GENERAL INFORMATION AND BID SUBMISSION REQUIREMENTS

Time and date of Receipt of Bids and Basis of Award

Sealed bids should be delivered to the Longmeadow Purchasing Department and will be accepted until the bid deadline of Thursday, April 12, 2018 at 1:30 p.m. Sealed bids should be labeled ‘IFB: Underground Fuel Storage Tank Removal’ on the outer envelope along with the bidder’s company name, address and contact information. Late bids will be rejected. Immediately following the bid deadline, bids will be publicly opened in the auditorium. No bid deposit is required with the submission of bids as the project estimate is \$40,000.

Bid responses will be evaluated in accordance with the criteria stated in this IFB. The contract award shall be awarded to the low bidder that is determined to be responsive and responsible. An award will be made, if at all, within 30 calendar days of the receipt of bids. The Town will select the responsive and responsible bidder submitting the bid with materials and services meeting the specification requirements that has the lowest bid price.

Optional Pre-Bid Conference

An Optional Pre-Bid Conference will be held beginning at 11:00 a.m. on Wednesday, March 28, 2018 at the Longmeadow DPW, 31 Pondsides Road, Longmeadow, MA 01106. Bidders will have the opportunity to inspect the site and ask questions during the conference.

Questions

All questions concerning the IFB shall be directed to the Town of Longmeadow Purchasing Department, Attention: Chad Thompson, Procurement Manager. All questions shall be submitted to cthompson@longmeadow.org . Once responses are obtained from Longmeadow DPW representatives and Tighe & Bond Engineer, Gary Roberts, a response will be provided. Addenda will be issued by the Longmeadow Purchasing Department to those on the bid list if addendum is required. All issued addenda will be posted on the Town of Longmeadow bid listing service which can be accessed through the Purchasing Department page of www.longmeadow.org , select 'Bid & RFP' links. The deadline for submitting questions is five (5) calendar days before the bid deadline. Questions received after the bid deadline will not be answered.

Town's Right to Cancel and Reject Bids

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

Bid Signatures

Bids must be signed in ink, as follows:

- (1) if the Contractor is an individual, by her/him personally;
- (2) if the Contractor is a partnership, by the name of the partnership, followed by the signature of each general partner;
- (3) if the Contractor is a corporation, by the authorized officer, whose signature must be attested to by the Clerk/Secretary of the corporation and the corporate seal affixed.

Costs Associated with the IFB Process

The Town is not responsible for any costs incurred by the submitting Contractors throughout the IFB submittal process.

2. SCOPE OF SERVICES

Background/Summary of Procurement

The Town of Longmeadow currently has one gasoline and two diesel underground storage tanks (USTs) and a fleet fueling station located at their Department of Public Works (DPW) facility. The tanks were reportedly installed in 1996.

Under the Scope of this Contract, the Contractor will be required to remove and dispose of the three fuel storage tanks and associated equipment and restore the site in accordance with the requirements of this RFP, the Massachusetts Contingency Plan (MCP), 310 CMR 40.00, 310 CMR 80.00 Underground Storage Tank Systems, and 520 CMR 14.00 Excavation Trench Safety.

In the event that contaminated soil is discovered, excavation, transportation, and disposal of contaminated soil shall be performed in accordance with requirements described in Appendix A.

The Contractor Scope of Services should, at a minimum, include the following:

1. Submittals shall be provided within 7 calendar days of the Notice to Proceed. Materials proposed shall satisfy the specifications and performance requirements contained in Appendix A.

2. All supplies and staff necessary to complete the work as described in this RFP.

Contractor Equipment and Services Procurement

The Town intends to select and make an Agreement with a qualified and experienced Contractor to provide the services described above. An Agreement will be awarded, if at all, to the responsive and responsible Contractor, whose bid is determined to be the most advantageous.

AGREEMENT REQUIREMENTS

The successful Contractor will enter into an Agreement with the Town to provide the services necessary to complete the work under this IFB and to maintain accompanying product warranties.

The Contractor shall, to the maximum extent permitted by law, indemnify and save harmless the Tighe & Bond, Inc and 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

It is anticipated that the Contract between the Town and the Contractor will be executed in April 2018 and is to have a Substantial Completion date within 60 calendar days.

The successful Contractor shall provide all material submittals for review and approval by the Town's representative prior to completing the work. Reference the sample contract terms and conditions provided with this document.

3. PRICING

The Contractor shall provide lump sum prices and unit bid prices in the space provided in the Bid Submission Form included in Section 7 of the IFB for all Work detailed. In the event of a discrepancy the unit price written in words will be used in recalculating the bid totals.

The Contractor shall acknowledge receipt and acceptance of addenda in Section 7, if any.

4. CONTRACT INSURANCE

The requirements for insurance to be provided by the Successful Bidder are stated in the "Insurance" document provided in Appendix B.

The required insurance certificates will become part of the Agreement.

5. PAYMENT BOND

In accordance with the requirements of Massachusetts General Law, Chapter 30, a Payment Bond of 50% of the total contract value is required for contracts exceeding \$25,000. The Contractor shall provide a Payment Bond using the form provided in Appendix C.

6. MASSACHUSETTS WAGE RATES

Minimum wage rates as determined by the Commissioner of Department of Workforce Development under the provisions of the Massachusetts General Laws, Chapter 149, Section 26 to 27D, as amended, apply to this project. The Wage Rate Determination is included in Appendix D.

7. BID SUBMISSION FORM

The Contractor shall provide lump sum and unit bid prices to furnish the complete scope of services including equipment and labor as described within the IFB. By signing below, the Contractor represents that the work to be provided shall meet or exceed the minimum requirements contained in this IFB.

The following lump sum price items shall be full compensation for furnishing all labor, materials, tools, equipment, and services necessary. The following unit price items shall be paid based on actual measured quantities:

BID SUBMISSION FORMS

<u>ITEM NUMBER</u>	<u>ITEM NAME AND LUMP SUM PRICE / UNIT BID PRICES</u> <u>WRITTEN IN WORDS AND FIGURES</u>	<u>ESTIMATED QUANTITY</u>	<u>TOTAL AMOUNT OF ITEM (IN FIGURES)</u>
1	Removal and disposal of the three USTs, fleet fueling management system, dispensers, sumps, ancillary piping, fuel management system, concrete pads, and electrical wiring (conduit to remain in place), to include transportation and disposal of residual fuels and cleaning fluids, the price of: _____ (\$ _____)	x 1 L.S.	\$ _____
2	Site restoration, including backfill, compaction, and asphalt repair up to 1,400 square feet, the price of: _____ (\$ _____)	x 1 L.S.	\$ _____
3	Excavation, transportation, and disposal of petroleum impacted soils to include processing of MassDEP required soil management forms, per ton, the price of: _____ (\$ _____)	x 100 tons	\$ _____
4	Clean backfill, including compaction, per ton, the price of: _____ (\$ _____)	x 100 tons	\$ _____
5	Asphalt repair, in excess of the quantity provided in Bid Item #2, per square foot, the price of: _____ (\$ _____)	x 100 S.F.	\$ _____

BID PRICE (sum of Items 1, 2, 3, 4 and 5, above)

_____ (in words)

(\$ _____) (in figures)

The following addendum are acknowledged _____.

The Bid is submitted by:

Date _____

(Print Name of Firm Submitting a General Bid)

(Signature of Authorized Representative)

(Print Name of Person Signing Bid and Title)

Social Security Number or
Federal Identification Number:

(Business Address)

(City, State and Zip Code)

Phone #: _____

Fax #: _____

Email: _____

NON-COLLUSIVE BIDDING CERTIFICATION

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

Bidder certifies that this Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation.

SIGNATURE: _____

NAME: _____

DATE: _____

AGREEMENT TERMS AND CONDITIONS

This Agreement, made this ____ day of April in the year two thousand and eighteen (the Effective Date) between the Town of Longmeadow, acting by and through its Town Manager and/or Select Board, hereinafter, hereinafter called OWNER and _____ with an address of _____ hereinafter called CONTRACTOR.

OWNER and CONTRACTOR, in consideration of the mutual covenants hereinafter set forth, agree as follows:

WORK

1.1 CONTRACTOR shall complete all Work as specified or indicated in the Contract Documents.

ENGINEER

1.2 The Project has been designed by Town of Longmeadow Engineering Department, and consulting engineer of Tighe & Bond who is hereinafter called ENGINEER. ENGINEER will act as OWNER'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.

CONTRACT TIMES

1.3 Dates for Substantial Completion and Final Completion

A. All work shall be completed within sixty (60) calendar days following the Notice to Proceed date which will be the Substantial Completion date.

1.4 Liquidated Damages

B. CONTRACTOR and OWNER recognize that time is of the essence of this Agreement and that OWNER will suffer financial loss if the Work is not completed within the times specified in paragraph 3.1. The parties also recognize the delays, expense, and difficulties involved in proving in a legal or arbitration proceeding the actual loss suffered by OWNER if the Work is not completed on time. Accordingly, instead of requiring any such proof, OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as a penalty), CONTRACTOR shall pay OWNER \$100 for each day that expires after the 'Substantial Completion' date(s) specified in paragraph 1.3.

1.2 Contract Term Extension

A. The contract may be extended beyond the Substantial Completion date at the sole discretion of the Town for a term not to exceed one year from the Effective Date of this contract.

CONTRACT PRICE

1.5 OWNER shall pay CONTRACTOR for completion of the Work in accordance with the Contract Documents **based on actual 'Unit Price'** for units utilized in the supply and services provided under this contract. The amount in current funds equal to the prices stated in CONTRACTOR'S Bid, attached hereto as an exhibit.

1.6 The total construction bid based on Unit Price is \$____.00, the Bid Total. The total amount will be adjusted by measurement of actual installed quantities in strict conformity with the provisions contained herein. The contract shall not exceed the Bid Total without authorization from the Town of Longmeadow by way of completed contract amendment. **PROGRESS PAYMENTS**

1.7 OWNER shall make progress payments on account of the Contract Price on the basis of processed Applications for Payment monthly during construction.

1.8 OWNER shall retain from progress payments 5 percent of the value of Work completed.

AFFIRMATIVE ACTION

- 1.9 The CONTRACTOR shall not discriminate against or exclude any person from participation herein on the grounds of race, religion, color, sex, age, or national origin; and that it shall take affirmative actions to ensure that applicants are employed, and that employers are treated during their employment, without regard to race, religion, color, sex, age, handicapped status, or national origin.
- 1.10 The CONTRACTOR shall not participate in or cooperate with an international boycott, as defined in Section 999 (b)(3) and (4) of the Internal Revenue Code 1986, as amended, or engage in conduct declared to be unlawful by Section 2 of Chapter 151E of the Massachusetts General Laws.

CONTRACTOR'S REPRESENTATIONS

- 1.11 CONTRACTOR makes the following representations:
- B. CONTRACTOR has examined and carefully studied the Contract Documents and the other related data identified in the Bidding Documents.
 - C. 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.
 - D. 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.
 - A. 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.
 - B. 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.
 - C. CONTRACTOR 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 Contract Documents.
 - D. 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.
 - E. CONTRACTOR has given OWNER written notice of all conflicts, errors, ambiguities, or discrepancies that CONTRACTOR has discovered in the Contract Documents, and the written resolution thereof by OWNER is acceptable to CONTRACTOR.
 - F. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

CONTRACT DOCUMENTS

- 1.12 Contents
- E. The Contract Documents consist of the following:
 - 1. This Agreement
 - 2. 50% Payment Bond in the amount of \$ _____ (if contract is greater than \$25,000);

3. General Conditions, Special Provisions, Scope of Work and Specifications outlined in the Invitation for Bid Document: Invitation for Bid, Underground Fuel Storage Tank Removal, Town of Longmeadow, Massachusetts dated March 22, 2018; and Addendum No. ____ (if any)
 4. Drawings supplied with the IFB
 5. Exhibits to this Agreement (enumerated as follows):
 - a. CONTRACTOR's Bid;
 - b. Documentation submitted by CONTRACTOR prior to Notice of Award;
 6. The following which may be delivered or issued on or after the Effective Date of the Agreement and are not attached hereto:
 - a. Notice to Proceed;
 - b. Written Amendments;
 - c. Work Change Directives;
 - d. Change Order(s).
- B. The documents listed in paragraph 8.1.A are attached to this Agreement (except as expressly noted otherwise above).
- C. There are no Contract Documents other than those listed above in this Article 8.
- D. The Contract Documents may only be amended, modified, or supplemented as provided in paragraph 3.05 of the General Conditions.

MISCELLANEOUS

1.13 Terms

- F. Terms used in this Agreement will have the meanings indicated in the General Conditions.

1.14 Assignment of Contract

- G. No assignment by a party hereto of any rights under or interests in the Contract will be binding on another party hereto without the written consent of the party sought to be bound; and, specifically but without limitation, moneys that may become due and moneys that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

1.15 Successors and Assigns

- H. OWNER and CONTRACTOR each binds itself, its partners, successors, assigns, and legal representatives to the other party hereto, its partners, successors, assigns, and legal representatives in respect to all covenants, agreements, and obligations contained in the Contract Documents.

1.16 Severability

- I. Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon OWNER and CONTRACTOR, who agree that the Contract Documents shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

1.17 The Contractor shall comply with applicable OSHA, State and municipal regulations and requirements for services and facilities in the performance of all requirements of this contract. OSHA safety requirements shall be adhered to for all personnel performing construction, reconstruction, alteration, remodeling or repair of any building or public works project.

For Change Orders work performed by the CONTRACTOR on this project, payment shall be based on Unit of Measure pricing as documented in the CONTRACTOR'S bid submission form, where items are not addressed on the bid submission form the mark-up shall be 15 percent. Also, the CONTRACTOR's markup for Change Order work by CONTRACTOR's sub-contractor(s) shall be limited to 15 percent.

APPENDIX A

**LONGMEADOW DEPARTMENT OF PUBLIC WORKS
UNDERGROUND FUEL STORAGE TANK REMOVAL PROJECT**

SPECIFICATIONS

Section 02110	CONTAMINATED SOIL EXCAVATION
Section 02115	UNDERGROUND STORAGE TANK AND PIPING REMOVAL
Section 02120	TRANSPORTATION AND DISPOSAL OF CONTAMINATED SOIL
Section 02315	EXCAVATION, BACKFILL, COMPACTION, AND DEWATERING
Section 02740	HOT MIX ASPHALT (HMA) PAVEMENT

SECTION 02110

CONTAMINATED SOIL EXCAVATION

PART 1 GENERAL

1.1 SUMMARY

- A. The provisions of this Section will be implemented in the event that contaminated soils requiring excavation and offsite disposal are encountered during the removal of one or more of the underground storage tanks.
- B. The Owner must provide consent before any contaminated soils are excavated or stockpiled onsite.
 - 1. Soils may be temporarily excavated and stockpiled to allow for the removal of the underground storage tanks.
- C. Section Includes
 - 1. Excavation, handling, stockpiling, and temporary storage of Contaminated Soil
 - 2. Movement and placement of Contaminated Soil into a temporary controlled stockpile area
 - 3. Decontamination of tools, equipment, and vehicles and the collection, management and disposal of resulting liquids and/or solids
 - 4. Other work involving the handling of contaminated materials which may be required including but not limited to miscellaneous facility component removal, removal of obstructions, excavation support systems, and any incidental work related thereto
- D. Related Sections
 - 1. Section 02115 – Underground Storage Tank Removal
 - 2. Section 02120 – Transportation and Disposal of Contaminated Soil
 - 3. Section 02315 – Excavation, Backfill, Compaction and Dewatering

1.2 REFERENCES

- A. 29 CFR 1926 – Occupational Safety and Health Standards
- B. 40 CFR Part 261 – Identification and Listing of Hazardous Waste
- C. 40 CFR Part 268 – Land Disposal Restrictions
- D. 310 CMR 30.000 – Massachusetts Hazardous Waste Regulations
- E. 310 CMR 40.0000 – Massachusetts Contingency Plan
- F. 520 CMR 14.00 – Excavation and Trench Safety
- G. MADEP Policy, WSC-94-400, “Interim Remediation Waste Policy for Petroleum Contaminated Soil”

- H. MADEP Policy, WSC-402-96, “Commonwealth of Massachusetts Underground Storage Tank Closure Assessment Manual”

1.3 DEFINITIONS

- A. Natural Soil: Soil in which all substances naturally occurring therein are present in concentrations not exceeding the concentrations of such substance occurring naturally in the environment and in which soil no other substance is analytically detectable.
- B. Contaminated Soil: Soils or fills determined by analytical results to contain oil and/or hazardous material at concentrations equal to or greater than a release notification threshold established by 310 CMR 40.0300 and 40.1600.
- C. Special Handling: Methods used to excavate, collect, grade, load, move, transport, stockpile, dispose, or otherwise manage a contaminated material or Contaminated Soil are such that (1) the spillage, loss, co-mingling, or uncontrolled deposition of such material is minimized, (2) personal exposure to contaminants present in such a material are minimized, (3) the adverse impacts to the community and the surrounding environment from contaminants present in such material are minimized, (4) all applicable regulatory requirements applicable to such activity are satisfied.

1.4 QUALITY ASSURANCE

- A. All contaminated material excavated or otherwise collected, consolidated and managed during the course of the work will require Special Handling in accordance with these specifications, Contractor Health and Safety Plan, and all applicable permits, approvals, authorizations, and Regulations.
- B. Perform the handling of contaminated materials with equipment and techniques in accordance with the performance requirements defined in this specification.

PART 2 PRODUCTS – NOT USED

PART 3 EXECUTION

3.1 GENERAL

- A. Provide all employees and subcontractor(s) with personal protective equipment and protective clothing consistent OSHA requirements.
- B. Perform all contaminated material handling operations in accordance with standard engineering practices applicable to such activity, according to State and Federal environmental, health and safety regulations. Utilize methods which consider the health and safety of all Contractor and subcontractor personnel, support personnel, Engineer and his representatives, and the surrounding environment.
- C. All site health and safety controls shall be fully established and in operation prior to beginning any contaminated material handling activity. Site controls shall include but not be limited to work zones properly barricaded, decontamination facilities, air monitoring, and all support equipment and supplies including personal protective equipment.
- D. Minimize the spread of contaminated materials during handling. Transport vehicles used to move Contaminated Soil at the Project Site shall be free from leaks. Trucks

or other conveyances deemed unacceptable for use by Engineer shall not be used for the movement of contaminated materials.

- E. Keep work areas, including but not limited to, areas adjacent to excavations, roadways leading to and from excavation areas, driveways, parking areas, and public roadways free of contaminated materials. If such materials are deposited, spilled, or spread, such material shall be removed promptly, and properly disposed of to the satisfaction of Engineer no later than the end of each working day or as requested by Engineer.
- F. Owner is the generator and will sign all manifests and bills of lading. Except for materials required to be transported under manifest, transport all Contaminated Soil material under bills of lading (prepared by Engineer) regardless of the chemical quality of the soils.

3.2 EXCAVATION OF CONTAMINATED MATERIALS

- A. Perform excavation in accordance with the requirements of Section 02315, Excavation, Backfill, Compaction and Dewatering, and this section.
- B. Excavate contaminated soil to the vertical and horizontal limits identified by the Engineer.
- C. Engineer will continually evaluate field conditions to determine if additional excavation is required to achieve remedial objectives. This evaluation may require Engineer to work in close proximity to Contractor's excavation equipment, and may require frequent pauses in the work. Contractor shall work in a cooperative manner at all times during these operations to ensure the safety of Engineer, and to allow for thorough field evaluations to be conducted.
 - 1. When contaminated material excavation is undertaken, Engineer will make the final determination as to the limits of excavation required to achieve remediation objectives. Such limits shall be based upon actual conditions encountered at the time of excavation.
- D. Minimize the spread and loss of contaminated materials during excavation activities.
 - 1. Following excavation, transport contaminated materials directly to the temporary controlled stockpile area for stockpiling. Excavated contaminated materials shall not be placed directly on the ground.
- E. Employ methods necessary to isolate contaminated materials from non-contaminated soils to the degree practicable.
- F. Segregate construction debris from excavated contaminated materials at the point of excavation, prior to the movement of contaminated materials from excavation areas. Engineer may evaluate debris during excavation to determine if such material can be designated uncontaminated general demolition material.
- G. Open excavations represent a substantial hazard. Contractor shall implement measures as appropriate to secure open excavations while awaiting Engineer's confirmation test results from soils (refer to Item 3.5) or any other period when excavations remain open.

- H. Implement measures to divert surface water around excavation sites to prevent water from directly entering into open excavations.

3.3 BACKFILL

- A. Backfill excavations in accordance with Section 02315, Excavation, Backfill & Compaction and Dewatering.
- B. Backfill excavations as soon as possible after Engineer has indicated that test results confirm remediation objectives have been achieved and backfilling may proceed.

3.4 UNFORESEEN CONTAMINATED MATERIALS

- A. In the event that unforeseen contaminated materials are encountered during the course of the work, permit the Engineer sufficient time to devise an appropriate course of action based upon the conditions present.
 - 1. Until such appropriate course of action is devised, Contractor shall secure the work area in question such that it does not pose a health and safety risk.
 - 2. Engineer will provide Contractor with performance requirements for the collection, consolidation, removal or excavation of unforeseen contaminated material. Contractor shall then undertake contaminated material remediation with equipment and techniques established by Contractor in accordance with said scope of work and performance requirements.
- B. Contaminated material remediation shall be performed in accordance with scope of work outlined in Item 3.4.A.2 and in accordance with this specification.

3.5 CONFIRMATION TESTING BY ENGINEER

- A. At such time the Engineer is satisfied that the limits of contaminated material have been reached, Engineer will perform appropriate confirmation sampling to confirm remediation objectives have been achieved and no additional contaminated material excavation or removal is required.
- B. Contractor is hereby notified that laboratory turnaround time for the analysis of confirmation samples may be up to two (2) working days beginning the day after the samples are collected. No claim for delay will be considered based upon Contractor failing to accommodate the laboratory turnaround time as defined herein.
- C. Engineer will inform Contractor if test results confirm remediation objectives have been achieved and backfilling may proceed.
- D. Should the results of Engineer's testing indicate additional contaminated material excavation or removal is required, Engineer will define those areas beyond the limits originally indicated where additional contaminated material excavation or removal shall be required.

3.6 STORAGE OF EXCAVATED MATERIALS

- A. Excavated contaminated material shall be temporarily stockpiled on-site. Stockpile contaminated soils in an area designated by the Engineer in such a manner to protect existing site surface, materials and structures from contamination, runoff and

erosion. Place the contaminated soil on a minimum of 6 mil polyethylene sheeting and at the end of each day the stockpiled soil shall be covered with 6 mil polyethylene sheeting and secure the covering to prevent the stockpile from becoming uncovered due to winds.

3.7 DUST CONTROL

- A. Implement fugitive dust suppression to prevent unacceptable levels of dust resulting from handling operations associated with contaminated materials. Dust suppression methods shall be subject to approval from Engineer. Supervise fugitive dust control measures and monitor airborne particulate matter as required.

END OF SECTION

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SECTION 02115

UNDERGROUND STORAGE TANK AND PIPING REMOVAL

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes

1. Removal, cleaning, and disposal of a underground petroleum storage tanks and conveyance facilities including tanks, piping, associated equipment and appurtenances.

B. Related Sections

1. Section 02110 – Contaminated Soil Excavation
2. Section 02120 – Transportation and Disposal of Contaminated Soil
3. Section 02315 – Excavation, Backfill, Compaction and Dewatering

1.2 REFERENCES

- A. 29 CFR 1926 – Occupational Safety and Health Standards
- B. 310 CMR 40.00 – Massachusetts Contingency Plan (MCP)
- C. 310 CMR 80.00 – Underground Storage Tank Systems
- D. 502 CMR 14.00 – Excavation and Trench Safety
- E. 527 CMR 1.00 – Massachusetts Comprehensive Fire Safety Code
- F. American Petroleum Institute (API) Recommended Practice 1604, “Closure of Underground Petroleum Storage Tanks”
- G. National Fire Protection Association (NFPA) 326 – Standard for the Safeguarding of Tanks and Containers for Entry, Cleaning or Repair,” latest revision.

1.3 DEFINITIONS

- A. Underground Storage Tank (UST): Any one, or combination of, tanks (including underground conveyance piping related thereto) that is, or was, used to contain an accumulation of petroleum or other regulated substances, and volume of which (including the volume of underground pipes connected thereto) is 10 percent or more beneath the surface of the ground.

1.4 SUBMITTALS

- A. No fewer than ten working days prior to performing the Work of this Section, submit:
 1. Tank Removal Work Plan as specified herein.
 2. Copies of all local, State, or Federal permits and licenses obtained as required herein.

3. Written confirmation that local authorities have been notified of planned tank removal activities in accordance with local requirements.

1.5 TANK SUMMARY

- A. Underground storage tanks at the Site are located in areas designated on the Drawings. The summary of underground storage tanks at the Site which are to be removed under this Section is as follows:

Capacity (gallons)	Quantity	Contents	Construction
6,000	1	Diesel	Double-walled fiberglass
6,000	1	Gasoline	Double-walled fiberglass
3,000	1	Diesel	Double-walled fiberglass

- B. The approximate location of the tanks are shown on the Drawings.
- C. In the event that additional, previously unidentified underground petroleum storage tanks are encountered during the course of the Work, Owner will advise Contractor if such tanks are to be removed. Should Owner require removal of such tanks, the Work shall be considered a change in scope and performed in accordance with this Section.

1.6 REGULATORY REQUIREMENTS

- A. Perform all tank removal, cleaning and disposal work in accordance with local, State, and Federal regulations and the requirements of any permits or authorizations.
- B. An application for permit shall be obtained from the local Fire Department at least 72 hours prior to commencing any UST removal activities.

PART 2 PRODUCTS – NOT USED

PART 3 EXECUTION

3.1 GENERAL

- A. Perform operations in a manner which considers the health, safety and protection of all Contractor and Subcontractor personnel, support personnel, Owner and his representatives, and the surrounding environment.
- B. The Work of this Section shall be performed only by trained personnel who understand the associated hazards. Such personnel shall be sufficiently qualified, trained, or educated to safely carry out the necessary operations.
- C. Verify all existing conditions affecting the Work.
- D. Prior to initiating tank removal activities, disconnect all electrical switches supplying electrical current to equipment that may be connected to the tank to be removed.
- E. Remove residual petroleum product, sludge and other free liquids from the tank prior to removal of the tank from the ground.

3.2 TANK REMOVAL WORK PLAN

- A. Develop, implement, maintain, and supervise as part of the Work, a comprehensive Tank Removal Work Plan for tank removal, cleaning, and related operations. The plan shall include, but not be limited to, methods, means and sequence of operations for excavation, removal, cleaning, and ultimate disposal of the tank. The Tank Removal Work Plan shall be based on the requirements of 310 CMR 80.00, NFPA 326, and API 1604, Contractor experience, requirements of this Section, and applicable permits, approvals, authorizations, laws, and regulations.
- B. At a minimum, the Tank Removal Work Plan shall include:
 - 1. Overall approach to tank removal.
 - 2. Pre-removal investigation activities
 - 3. Methods to be employed for product, sludge, vapor, and pumpable liquid removal; purging and inerting; and storage/disposal methods
 - 4. Proposed location(s) of any tank staging area(s) to be utilized for the temporary storage and cleaning of tank
 - 5. Tank opening and tank cleaning procedures applicable to in-place cleaning, if applicable, and cleaning at tank staging areas
 - 6. Identification of waste and tank transporters and means of transportation
 - 7. Safe entry procedures (only if tank entry will be performed)
 - 8. Spill prevention procedures
 - 9. Spill contingency procedures
 - 10. Decontamination procedures and safety measures
- C. The Work of this Section shall not be performed until the Tank Removal Work Plan is reviewed by Owner, Engineer and/or representatives, and authorization is given to proceed.

3.3 PREPARATION

- A. Determine nature and quantity of tank residuals to facilitate disposal of same. If necessary, sample residual product, pumpable liquids, and sludge. If the data is not adequate, perform additional sampling and analysis to the extent required by the approved off-site treatment/disposal facility. Satisfy all regulatory requirements related to management of tank residuals.
- B. Before excavating, drain product piping back to the tank, remove residual liquids trapped in the product lines, and remove all product from the tank.
- C. Disposal
 - 1. Collect, contain and dispose of all un-salvageable tank products and sludge off the Site in accordance with Section 02120, Transportation and Disposal of Contaminated Materials.

- D. All equipment used in draining and ventilating the tanks shall be properly grounded to prevent electrostatic discharge hazards.

3.4 PURGING AND INERTING

- A. Gasoline tanks shall be purged or inerted before being transported offsite as specified in this Section.
 - 1. Tank to be crushed onsite prior to transportation for off-site disposal shall be purged or inerted before being crushed.
- B. After tank and piping contents have been removed, but prior to excavation beyond top of tank, disconnect all piping (except the piping which may be needed to purge or inert the tank). Flammable and toxic vapors shall be purged from the tank or the tank made inert in accordance with NFPA 326 and API 1604, with the exception that filling with water shall not be used. At a minimum, the tank atmosphere shall be continuously monitored for combustible vapors if the tank is purged, or continuously monitored for oxygen if the tank is inerted.
- C. If inerting the tank, the Contractor shall use 1.5 pounds of dry ice for every 100 gallons of tank capacity.

3.5 EXCAVATION

- A. Obtain excavation / trench permit from the Town of Longmeadow.
- B. Control excavation areas in accordance the requirements of 520 CMR 14.00 and 29 CFR 1910.
- C. Excavate exploratory trenches as necessary to determine the tank location, orientation, limits and the location of ancillary equipment.
- D. Excavate around the perimeter of the tank so as to limit the amount of potentially contaminated soil that could be mixed with previously uncontaminated soil. If tank is to be cleaned in-place, excavate and remove soil only as required to gain access to the tank and safely perform cleaning operations.
- E. Excavate as necessary to remove tank, piping, and ancillary equipment. Install sheeting, bracing, or shoring if required.
- F. Implement measures as appropriate to secure open excavations during any period when tank excavations remain open. Backfill the excavations as soon as possible after tank and contaminated soil removals have been completed and confirmation samples have been taken.
- G. Implement measures as appropriate to divert surface water or runoff around excavations to prevent water from directly entering into open excavations.

3.6 REMOVAL OF PIPING, ANCILLARY EQUIPMENT, AND TANKS

- A. Disconnect all piping and ancillary equipment from the tanks. Remove all piping associated with tanks to maximum extent possible. Cap all tank ancillary equipment and piping connections, except those connections necessary to inert the tanks within the excavation zone. The piping exterior and ancillary equipment shall be cleaned to remove all soil and inspected for signs of corrosion and leakage. Contaminated soil and/or groundwater is not

expected. However, if contaminated materials are encountered during tank and piping excavation, (i.e., stained soil, free product), Owner will advise Contractor if such materials are to be removed.

- B. Remove tanks from the excavation and clean the exterior to remove loose soil. Inspect for signs of corrosion, structural damage, or leakage. Take photos to document tank condition. All materials coming into contact with the tanks, or in the vicinity of the excavation such as shovels, slings and tools shall be of the non-sparking type. After removal from the excavation, place tank in approved tanks staging area on a level surface and secure with wood blocks or other devices to prevent movement. Tanks may also be loaded directly onto trucks/trailers for transportation to an approved disposal yard, or into a roll-off type dumpster to be crushed.
- C. Remove all associated pumps, piping, concrete pads, deadmen and associated equipment. It is anticipated that non-contaminated tank-related materials such as concrete debris, tank pad or deadmen will not require management as Contaminated Materials.
- D. After the tanks and associated equipment has been removed from the ground, Engineer will examine and test adjacent and underlying soils for any evidence of contaminated soil. Should the Engineer's examination or testing identify soils as contaminated soil, Owner may require removal of contaminated soil or groundwater. Perform contaminated soil excavation in accordance with Section 02110 – Contaminated Soil Excavation.
- E. Take no fewer than 8 photographs of this Work.

3.7 TANK CLEANING

- A. All tank cleaning/decontamination will be conducted at the Site in designated tank staging area(s), as approved by Owner. No tanks will be permitted to leave the Site until such Work has been completed.
- B. Tank cleaning may be conducted with tank in-place, or at a tank staging area, and shall be in accordance with approved Tank Removal Work Plan. Tanks shall be cleaned and free of liquids and combustible or flammable vapors before being crushed.
- C. Prior to cleaning the tank interior, monitor tank atmosphere for combustible vapors. If required, purge or inert in accordance with this Section.
- D. Clean exterior of tank, piping, and associated equipment, as required, using non-sparking tools, to eliminate soil deposition on roadways during transportation to temporary storage area and to simplify tank cutting.
- E. Clean tank interior in accordance with NFPA 326 using water rinse, steam cleaning, cleaning agents, or other approved method until all residual product, loose scale, and sludge is removed, and contamination, in the form of a sheen is no longer visible in the effluent stream. The interior surfaces of piping shall also be cleaned, to the extent possible, using the same method used for cleaning the tank. Minimize contaminated water generated from interior cleaning operations (of both piping and tank) to the extent practicable. Collect, consolidate, and otherwise contain for disposal all rinse water or other residuals resulting from cleaning operations in accordance with Section 02120 – Transportation and Disposal of Contaminated Materials.

- F. Perform tank cleaning to eliminate, to the greatest extent possible, the need for personnel to enter the tank. Perform cleaning using specially designed tank cleaning equipment which allows the tank to be cleaned prior to cutting into sections without requiring personnel to enter the tank or, if less specialized equipment is used, to partially dissect the tank to minimize confined space entry hazards.
- G. Plug or cap all accessible openings after the tank has been cleaned and freed of vapors. Leave a minimum 1/8-inch diameter vent hole in one fitting. Position tank fittings and the vent on top during storage and transportation to an approved disposal facility.

3.8 DISPOSAL REQUIREMENTS

- A. After the tank, piping, and ancillary equipment have been cleaned, transport the tank off-site for disposal or crush or cut the tank into pieces of manageable size for transport off of the Site.
- B. Transport all tank-related materials and any ancillary equipment for off-site disposal in accordance with applicable regulations.

3.9 CONFIRMATION TESTING BY THE ENGINEER

- A. Following tank removal, if Engineer does not require contaminated soil excavation, or following the work of contaminated soil excavation if required by Engineer, Engineer will collect confirmation samples from the tank area in accordance with The Massachusetts Department of Environmental Protection requirements.
 - 1. Laboratory turnaround time for testing of such confirmation samples may be up to two (2) working days from date of collection. Accommodate the laboratory turnaround time as defined herein.
- B. Should the results of Engineer's testing indicate additional contaminated soil excavation is required, Engineer will define those areas beyond the original excavation limits where additional contaminated soil excavation is required. Contaminated soil excavation shall be performed in accordance with Section 02110 – Contaminated Soil Excavation.

END OF SECTION

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SECTION 02120

TRANSPORTATION AND DISPOSAL OF CONTAMINATED SOIL

PART 1 GENERAL

1.1 SUMMARY

- A. The provisions of this Section will be implemented in the event that contaminated soils requiring excavation and offsite disposal are encountered during the removal of one or more of the underground storage tanks.
- B. The Owner shall provide consent before any contaminated soils are loaded or transported offsite.
- C. Section Includes
 - 1. Transportation and disposal of Contaminated Soil or materials collected, consolidated, excavated, and generated during performance of the Work.
 - 2. Coordination, loading, transportation and disposal of contaminated materials.
- D. Related Sections
 - 1. Section 02110, Contaminated Soil Excavation
 - 2. Section 02115 – Underground Storage Tank Removal
 - 3. Section 02315 – Excavation, Backfill, Compaction and Dewatering

1.2 REFERENCES

- A. 29 CFR 1926 – Occupational Safety and Health Standards
- B. 40 CFR Part 268 – Land Disposal Restrictions
- C. 310 CMR 30.000 – Massachusetts Hazardous Waste Regulations
- D. 310 CMR 40.0000 – Massachusetts Contingency Plan

1.3 DEFINITIONS

- A. Disposal: The discharge, deposit, injection, dumping, spilling, leaking, incineration or placing of any contaminated material or otherwise hazardous substance into or on any land or water so that such hazardous waste or any constituent thereof may enter the environment or be emitted into the air or discharged into any waters, including ground waters.
- B. Generator: Any person, by site, whose act or process produces hazardous waste, or whose act first causes an oil or hazardous material to become subject to regulation.
- C. Regulated Waste: Non-Resource Conservation and Recovery Act (RCRA) hazardous wastes such as oils, petroleum products or residuals, chemical liquids, chemical gases or vapors, non-Toxic Substances Control Act (TSCA) polychlorinated biphenyls (PCBs), waste chemical solids, including soils, and other contaminated material wastes not defined as RCRA Hazardous, TSCA-regulated, or Special Waste.

- D. Manifest: An approved form used as a shipping document to identify the quantity, composition, and the origin, routing, and destination of regulated or hazardous waste from the site of generation to the point of disposal, treatment, storage, or use.
- E. Shipping Paper: An invoice, bill of lading, or other shipping document serving a similar purpose; other than a hazardous waste manifest used to document the conveyance of materials between different locations, including regulated wastes when applicable.
- F. Treatment: Any method, technique or process, including neutralization, incineration, stabilization or solidification, designed to change the physical, chemical or biological character or composition of any hazardous waste so as to neutralize such waste or so as to render such waste less hazardous, non-hazardous, safer to transport, amenable to storage, or reduced in volume, except such method or technique as may be included as an integral part of a manufacturing process at the point of generation.
- G. Non-RCRA Out-of-State Lined Landfill: This type of landfill shall be state approved or permitted to accept soil that is defined as a hazardous material in 310 CMR 30.00, but is not classified as either a RCRA characteristic waste or RCRA listed waste as defined in 40 CFR Part 261; soil containing PCBs below 50 ppm; and all other soil not permitted or unsuitable for in-state disposal or recycling.
- H. Out-of-State Recycling Facility: This type of facility shall be state approved or permitted to accept soil that is defined as a hazardous material in 310 CMR 30.00, but is not classified as either a RCRA characteristic waste or RCRA listed waste as defined in 40 CFR Part 261; soil containing PCBs below the facility's permitted level; and all other soil not permitted or unsuitable for in-state disposal or recycling.
- I. In-State Recycling Facility: This type of facility shall be approved by the Commonwealth of Massachusetts to accept soil that is classified as petroleum contaminated soil, that would be classified as a hazardous material in 310 CMR 30.00 if not managed under M.G.L. c.21 E and 310 CMR 40.00; and is not classified as a RCRA characteristic waste or RCRA listed waste as defined in 40 CFR Part 261.
- J. In-State Landfill Facility (Reuse as Cover Material): This type of facility shall be approved by the Commonwealth of Massachusetts to accept soil that is classified as petroleum contaminated soil, that would be classified as a hazardous material in 310 CMR 30.00 if not managed under M.G.L. c.21 E and 310 CMR 40.00; and is not classified as a RCRA characteristic waste or RCRA listed waste as defined in 40 CFR Part 261.

1.4 SUBMITTALS

- A. Submit all pertinent information relating to the transport and disposal of materials specified herein prior to transport and disposal. The information submitted be in one package and shall include the following, as a minimum:
 - 1. Information for proposed treatment/disposal facility or facilities including the following:
 - a. General Information

- 1) Facility Name
 - 2) Facility Address
 - 3) Name of Contact Person
 - 4) Title of Contact Person
 - 5) Telephone Number of Contact Person
 - 6) Permit Number
- b. The facility shall specify the volume of material that can be accepted from the Project on a weekly and a total basis.
 - c. The facility shall provide written confirmation that they are permitted to accept and will accept the classified contaminated materials the general quality and quantity described by these specifications.
 - d. The facility shall provide a listing of all current and valid permits, licenses, letters of approval, and other authorizations to operate that they hold, pertaining to the receipt and treatment/disposal of the contaminated materials described by these specifications.
2. Massachusetts Department of Transportation Transporter Identification Number and expiration date.
 3. Name and address of all hazardous material transporters to be used to transport materials including proof of permit, license, or authorization to transport hazardous material in all affected states.
- B. Upon receipt of final approval from treatment/disposal facility to accept contaminated materials, submit copy of said approval.
- C. Within ten (10) working days after the off-site transportation of contaminated materials, submit copies of all paperwork related to transportation of contaminated materials. Such paperwork may include, but not be limited to receipts, weight tickets, and disposal certificates.
1. Provide certified tare and gross weight slips for each load received at the designated treatment/disposal facility which shall be attached to copy of related manifest or bill of lading.
- D. Prior to receiving progress payment, submit documentation certifying that all materials were transported to, accepted, and disposed of, at the selected treatment/disposal facility. The documentation shall include the following, as a minimum.
1. Documentation for each load from the site to the disposal facility, including all manifests and any other applicable transfer documentation.
 2. All documentation for each load shall be tracked by the original manifest or bill of lading document number assigned at the project site at time of signature by authorized Engineer.

1.5 REGULATORY REQUIREMENTS

- A. Obtain all Federal, State and local permits, approvals, or authorizations required for the transport and disposal of contaminated materials. Adhere to all requirements of such permits, approvals, or authorizations.

PART 2 PRODUCTS – NOT USED

PART 3 EXECUTION

3.1 GENERAL

- A. Engineer will be responsible for collecting samples and analysis of contaminated soil.
- B. Contaminated materials to be disposed of include, but are not limited to contaminated soil, rock, miscellaneous contaminated debris, petroleum fuels, petroleum residuals, concrete, and other materials from remediation, demolition and decontamination operations.
- C. All contaminated materials excavated, consolidated, or otherwise managed during the course of the work will require special handling in accordance with these specifications and all applicable permits, approvals, authorizations, and regulations.
- D. Dispose of contaminated materials at facilities approved by Owner or Engineer.
- E. All Contractor personnel shall wear personal protective equipment and protective clothing consistent with the levels of protection for this Work as indicated in the Site Health and Safety Plan.
- F. Contractor shall select treatment/disposal facilities to receive contaminated materials from the Project which are established, fully operational, and in full compliance with all applicable Federal, State, and local regulations.
- G. Remove all contaminated materials from the project site and legally dispose of materials.

3.2 CHARACTERIZATION FOR DISPOSAL – CONTAMINATED SOIL

- A. Contaminated soil characterization sampling will be conducted by the Engineer.
- B. The Engineer will collect soil samples. Such samples may be collected from within Excavation Areas, or following deposition of Contaminated Soil in the Temporary Controlled Stockpile Area.

3.3 DISPOSAL COORDINATION AND TRANSPORT

- A. Contractor is solely responsible for coordinating treatment/disposal facility approval, scheduling, loading, transport, and ultimate disposal of contaminated materials at treatment/disposal facility. No claim for delay will be considered based upon Contractor's facility failing to meet Contractor's production schedule. No payments will be made for rejected loads.

3.4 MANIFESTS AND SHIPPING PAPERS

- A. Owner is designated as the "Generator" and will sign all Manifests and Shipping Papers. Manifests and Shipping Papers shall be prepared by Contractor twenty-four (24) hours in advance of shipment of contaminated materials. Authorized Owner's

representative will sign as “Generator” as each load of contaminated material leaves the Project Site. Contractor shall forward appropriate original copies of Manifests or Bills of Lading to Engineer on the same day the contaminated materials leave the Project Site.

3.5 TRANSPORT OF CONTAMINATED MATERIAL

- A. Transport contaminated materials off-site after all treatment/disposal facility documentation has been completed and the material accepted by said facility.
- B. Transport contaminated materials from the site to treatment/disposal facility in accordance with all United States Department of Transportation (DOT), USEPA, Massachusetts regulations and other regulations of all affected states.
- C. The Hauler(s) shall be licensed in all states affected by transport.
- D. Provide to Engineer copies of all weight slips, both tare and gross, for every load weighed and disposed of at the accepted disposal facility. The slips shall be tracked by the original manifest document number that was assigned by Engineer at the site. Owner will only make progress payments upon receipt of these weight slips.
- E. Minimize the potential for development of free liquid during transport. Do not load wet soils for transport. If free liquid does develop during transport, Contractor shall be responsible for proper collection and disposal of same.
- F. Soil located in the Temporary Stockpile Area shall be removed from the Project Site in accordance with the requirements of this section.

END OF SECTION

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SECTION 02315

EXCAVATION, BACKFILL, COMPACTION AND DEWATERING

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes
 - 1. Excavation, backfill, compaction, and dewatering of underground storage tank excavations
- B. Related Sections
 - 1. Section 02740 – Hot Mix Asphalt (HMA) Pavement

1.2 REFERENCES

- A. 29 CFR Part 1926 Subpart P – OSHA Excavation Regulations 1926.650 through 1926.652 including Appendices A through F
- B. 520 CMR 14.00 – Excavation and Trench Safety
- C. ASTM D1557-07 – Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³ (2,700 kN-m/m³))
- D. ASTM D1556-07 – Standard Test Method for Density and Unit Weight of Soil in Place by the Sand-Cone Method
- E. ASTM D2487-06e1 – Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System)
- F. ASTM D6938-08a – Standard Test Method for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)

1.3 DEFINITIONS

- A. Benching - A method of protecting employees from cave-ins by excavating the sides of an excavation to form one or a series of horizontal levels or steps, usually with vertical or near-vertical surfaces between levels.
- B. Excavation - Any man-made cut, cavity, trench, or depression in an earth surface, formed by earth removal.
- C. Protective System - A method of protecting employees from cave-ins, from material that could fall or roll from an excavation face or into an excavation, or from the collapse of adjacent structures. Protective systems include earth retention systems, sloping and benching systems, shield systems, and other systems that provide the necessary protection.
- D. Registered Professional Engineer - A person who is registered as a professional engineer in the state where the work is to be performed. However, a professional engineer, registered in any state is deemed to be a "registered professional engineer" within the meaning of this standard when approving designs for "manufactured protective systems" or "tabulated data" to be used in interstate commerce.

- E. Sloping - A method of protecting employees from cave-ins by excavating to form sides of an excavation that are inclined away from the excavation so as to prevent cave-ins. The angle of incline required to prevent a cave-in varies with differences in such factors as the soil type, environmental conditions of exposure, and application of surcharge loads.
- F. Trench - A narrow excavation (in relation to its length) made below the surface of the ground, of at least three feet in depth. In general, the depth is greater than the width, but the width of a trench (measured at the bottom) is not greater than 15 feet (4.6 m).

1.4 QUALITY ASSURANCE

- A. All Excavation shall comply with the requirements of OSHA excavation safety standards (29 CFR Part 1926 Subpart P), 520 CMR 14.00, and other State and local requirements. Where conflict between OSHA and State regulations exists, the more stringent requirements shall apply.

1.5 PROJECT CONDITIONS

- A. Notify Dig Safe and obtain Dig Safe identification numbers.
- B. Notify utility owners in reasonable advance of the work and request the utility owner to stake out on the ground surface the underground facilities and structures. Notify the Engineer in writing of any refusal or failure to stake out such underground utilities after reasonable notice.

PART 2 PRODUCTS

2.1 SOIL MATERIALS

- A. Fill material is subject to the approval of the Engineer and may be either material removed from excavations or borrow from off site. Fill material, whether from the excavations or from borrow, shall be of such nature that after it has been placed and properly compacted, it will make a dense, stable fill.
- B. Satisfactory fill materials shall include materials classified by ASTM D 2487 as GW, GP, GM, GP-GM, GW-GM, GC, GP-GC, SW, and SP
- C. Satisfactory fill materials shall not contain trash, refuse, vegetation, masses of roots, individual roots more than 18 inches long or more than 1/2 inch in diameter, or stones over 6 inches in diameter. Unless otherwise stated in the RFP, organic matter shall not exceed minor quantities and shall be well distributed.
- D. Satisfactory fill materials shall not contain frozen materials nor shall backfill be placed on frozen material.
- E. Excavated surface and/or pavement materials such as gravel or trap rock that are salvaged may be used as a sub-grade material, if processed to the required gradation and compacted to the required degree of compaction. In no case shall salvaged materials be substituted for the required gravel base.

PART 3 EXECUTION

3.1 PREPARATION

- A. Public Safety and Convenience

1. Adhere to the requirements of 520 CMR 14.00 for all excavation work.
2. Take precautions for preventing injuries to persons or damage to property in or about the Work.
3. Provide safe access for the Owner and Engineer at site during construction.
4. Do not obstruct site drainage, natural watercourses or other provisions made for drainage.

3.2 CONSTRUCTION

A. Excavation

1. Perform excavation to the lines and grades indicated on the Drawings. Backfill unauthorized over-excavation in accordance with the provisions of this Section.
2. Excavate with equipment selected to minimize damage to existing utilities or other facilities. Hand excavate as necessary to locate utilities or avoid damage.
3. Sawcut the existing pavement in the vicinity of the excavation prior to the start of excavation in paved areas, so as to prevent damage to the paving outside the requirements of construction.
4. During excavation, material satisfactory for backfill shall be stockpiled in an orderly manner at a distance from the sides of the excavation equal to at least one half the depth of the excavation, but in no case closer than 2 feet.
 - a. Excavated material not required or not suitable for backfill shall be removed from the site.
 - b. Perform grading to prevent surface water from flowing into the excavation.
 - c. Pile excavated material in a manner that will endanger neither the safety of personnel in the excavation nor the Work itself. Avoid obstructing sidewalks and driveways.
 - d. Hydrants under pressure, valve pit covers, valve boxes, manholes, curb stop boxes, fire and police call boxes, or other utility controls shall be left unobstructed and accessible until the Work is completed.
5. Grade or create berms or swales to direct surface water from excavations to appropriate structures designed to accommodate storm water. If no structures exist, direct water to areas that minimize impacts to adjacent structures and properties.
6. If satisfactory materials are not encountered at the design subgrade level, excavate unsatisfactory materials to the depth directed by the Engineer and properly dispose of the material. Backfill the resulting extra depth of excavation with satisfactory fill materials and compact in accordance with the provisions of this Section.

B. Backfill and Compaction

1. Unless otherwise specified or indicated on the Drawings, use satisfactory material removed during excavation for backfilling trenches. The Engineer may require stockpiling, drying, blending and reuse of materials from sources on the Project.
2. Spread and compact the material promptly after it has been deposited. When, in the Engineer's judgment, equipment is inadequate to spread and compact the material properly, reduce the rate of placing of the fill or employ additional equipment.
3. Backfilling and compaction methods shall attain 95% of maximum dry density at optimum moisture content as determined in accordance with ASTM D1557.
4. Do not place stone or rock fragment larger than six inches in greatest dimension in the backfill.
5. Maximum loose lift height for backfilling existing or borrow material shall be 12-inches, unless satisfactory compaction is demonstrated otherwise to the Engineer through field-testing. In no case shall loose lift height for backfilling exceed 3-feet.
6. Where excavation is made through permanent pavements, curbs, paved driveways, or paved sidewalks, or where such structures are undercut by the excavation, place the entire backfill to sub-grade with granular materials and compact in 6-inch layers. Use approved mechanical tampers for the full depth of the trench. If required, sprinkle the backfill material with water before tamping so as to improve compaction. Any trenches improperly backfilled, or where settlement occurs, shall be reopened to the depth required to correct the problem, and shall then be refilled and properly compacted with the surface restored to required grade at no additional expense.

C. Dewatering

1. Obtain the following construction dewatering permits, as required:
 - a. US EPA Dewatering General Permit
2. Provide, operate and maintain adequate pumping, diversion and drainage facilities in accordance with the approved dewatering plan to maintain the excavated area sufficiently dry from groundwater and/or surface runoff so as not to adversely affect construction procedures nor cause excessive disturbance of underlying natural ground. Locate dewatering system components so that they do not interfere with construction under this or other contracts.
3. Conduct operations so as to prevent at all times the accumulation of water, ice and snow in excavations or in the vicinity of excavated areas so as to prevent water from interfering with the progress or quality of the work.
4. Take actions necessary to ensure that dewatering discharges comply with permits applicable to the Project. Dispose of water from the trenches and excavations in such a manner as to avoid public nuisance, injury to public health

or the environment, damage to public or private property, or damage to the work completed or in progress.

5. Repair any damage resulting from the failure of the dewatering operations and any damage resulting from the failure to maintain all the areas of work in a suitable dry condition.
6. Take precautions to protect new work from flooding during storms or from other causes. Control the grading in the areas surrounding all excavations so that the surface of the ground will be properly sloped to prevent water from running into the excavated area. Where required, provide temporary ditches for drainage. Upon completion of the work, all areas shall be restored to original condition.
7. Brace or otherwise protect pipelines and structures not stable against uplift during construction.
8. Do not excavate until the dewatering system is operational and the excavation may proceed without disturbance to the final subgrade.
9. Unless otherwise specified, continue dewatering uninterrupted until the structures, pipes, and appurtenances to be installed have been completed such that they will not float or be otherwise damaged by an increase in groundwater elevation.
10. Temporarily lower the groundwater level at least two feet below excavations to limit potential "boils," loss of fines, or softening of the ground. If any of these conditions are observed, submit a modified dewatering plan to the Engineer within 48 hours. Implement the approved modified plan and repair any damage incurred.
11. When subgrades are soft, weak, or unstable due to improper dewatering techniques, remove and replace the materials at no cost to the Owner.
12. Notify the Engineer immediately if any settlement or movement is detected of survey points adjacent to excavations being dewatered. If settlement is deemed by the Engineer to be related to the dewatering, submit a modified dewatering plan to the Engineer within 24 hours. Implement the approved modified plan and repair any damage incurred to the adjacent structure at no cost to the Owner.
13. Dewatering discharge:
 - a. Install sand and gravel, or crushed stone, filters in conjunction with sumps, well points, and/or deep wells to prevent the migration of fines from the existing soil during the dewatering operation.
 - b. Do not discharge water into any sanitary sewer system.
 - c. Provide separately controllable pumping lines.
 - d. The Engineer reserves the right to sample discharge water at any time.

PART 4 PROTECTION**A. Protection of Existing Structures**

1. All existing foundations, conduits, wall, pipes, wires, poles, fences, property line markers and other items which the Engineer decides must be preserved in place without being temporarily or permanently relocated, shall be carefully supported and protected from damage by the Contractor. Should such items be damaged, they shall be restored by the Contractor to at least as good condition as that in which they were found immediately before the Work began.

B. Accommodation of Traffic

1. Streets and drives shall not be unnecessarily obstructed.

C. Erosion and Sedimentation Control

1. Take all necessary steps to prevent soil erosion.
2. Plan the sequence of construction so that only the smallest practical area of land is exposed at any one time during construction.

END OF SECTION

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SECTION 02740

HOT MIX ASPHALT (HMA) PAVEMENT

1.1 SUMMARY

- A. Section Includes
 - 1. Permanent HMA Driveway Repair
- B. For the purposes of this Section, Hot Mix Asphalt (HMA) and bituminous concrete have the same meaning.
- C. Related Requirements
 - 1. Section 02315 - Excavation, Backfill, Compaction and Dewatering

1.2 REFERENCES

- A. AASHTO Standard Specifications for Transportation Materials and Methods of Sampling and Testing, 1990 Edition, as amended
- B. AASHTO M 320
- C. ASTM D2041 - Standard Test Method for Theoretical Maximum Specific Gravity and Density of Bituminous Paving Mixtures
- D. Commonwealth of Massachusetts Department of Public Works "Standard Specifications for Highways and Bridges," 1988 Edition as amended
- E. TAI - (The Asphalt Institute) - MS-3 Asphalt Plant Manual
- F. TAI - (The Asphalt Institute) - MS-8 Asphalt Paving Manual

1.3 SUBMITTALS

- A. Job mix formula for each mix specified under this Section.
- B. Certificate indicating the mixes specified meet or exceed the requirements specified herein.

1.4 QUALITY ASSURANCE

- A. Perform Work in accordance with TAI Manual MS-8., Commonwealth of Massachusetts Department of Public Works "Standard Specifications for Highways and Bridges," 1988 Edition as amended.
- B. Mixing Plant: Conform to TAI Manual MS-8., Commonwealth of Massachusetts Department of Public Works "Standard Specifications for Highways and Bridges," 1988 Edition as amended.
- C. Obtain materials from same source throughout.

PART 2 PRODUCTS

2.1 MATERIALS

- A. General
 - 1. Bituminous materials shall conform to the requirements of these Specifications.

2. Bitumen delivered to a project or to a mix plant must be accompanied by a proper certificate signed by the producer's authorized representative. Shipments of material not accompanied by a certificate will not be accepted for use in the Work.
- B. Hot Mix Asphalt Paving shall be Class I, Type I-1, as specified in Sections 460 and M3.11.0 of the above referenced Massachusetts Department of Public Works "Standard Specifications for Highways and Bridges," 1988 edition, as amended.
- C. Hot Mix Asphalt
1. Hot Mix Asphalt materials shall meet the requirements of M3.11.0 of the above referenced Massachusetts Department of Public Works "Standard Specifications for Highways and Bridges," 1988 edition, as amended.
 2. Only Performance Graded Asphalt Binder grades PG 64-28 or PG 52-34 will be used as modifiers and shall meet the requirements of AASHTO M 320.

PART 3 EXECUTION

3.1 PAVING – GENERAL

- A. Maintain pavement under this Contract during the guarantee period of one year and promptly (within 3 days of notice given by the Engineer) refill and repave areas which have settled or are otherwise unsatisfactory for traffic.
- B. All pavement thicknesses referred to herein are compacted thicknesses. Place sufficient mix to ensure that the specified thickness of pavement results.
- C. Regardless of temperature, no permanent mix conforming to the requirements of these specifications shall be placed after October 31 or before May 1 of any year.
- D. When the air temperature falls below 50°F, extra precautions shall be taken in drying the aggregates, controlling the temperatures of the materials and placing and compacting the mixtures.
- E. Existing drainage patterns shall not be altered by the new pavement construction unless otherwise shown on the Drawings.
- F. Furnish and spread calcium chloride on disturbed surfaces to control dust conditions when necessary, or upon direction of the Engineer.
- G. In no case will pavement be placed until the gravel base is dry and compacted to at least 92.0% maximum density at optimum moisture content.
- H. All pavement edges that have been damaged shall be sawcut again if necessary to re-establish a straight clean line between the existing pavement and trench patch.
- I. Tack Coats
1. The edges of the existing pavement where the joints are to be formed shall be thoroughly coated with tack coat to ensure adhesion between the two pavements.
 2. The contact surfaces of curbs, castings, and other structures shall be painted with a tack coat prior to placement of paving.
- J. Top course mixes shall provide for 4% air voids in the finished product. The initial in-place voids shall not exceed 7.5%. Final in-place voids shall not be below 2.5%.

Additional asphalt content shall not be added for the sole purpose of reducing the in-place voids. If the in-place voids are too high or the paving is expected to occur during cold weather, more compactive effort will be required to adjust the void content rather than increasing the asphalt content.

- K. Breakdown rolling shall not occur before the HMA has cooled to a temperature of 320 degrees Fahrenheit, and shall be completed before the HMA mat has cooled to a temperature of 275 degrees Fahrenheit. Intermediate rolling shall be completed prior to the HMA mat attaining a temperature of 200 degrees Fahrenheit. Finish rolling shall be completed prior to the HMA mat attaining a temperature of 150 degrees Fahrenheit. Roller and paver speeds shall be agreed upon with the Engineer prior to placing HMA to ensure mix temperature requirements will be met.
- L. Thermal segregation of the HMA shall be limited to a maximum of 20 degrees Fahrenheit.
- M. Cascading HMA material on the top of the finished mat with rakes or shovels will not be permitted. Coarse Aggregate dislodged as a result of unavoidable hand work shall be removed from the surface prior to rolling.
- N. Place and compact HMA materials by steel-wheeled rollers of sufficient weight to compact the HMA to 92.5% of the calculated **Theoretical Maximum Density (TMD)** in accordance with ASTM D2041.
- O. Along curbs, structures and all other places not accessible with a roller, the paving mixture shall be thoroughly compacted with tampers. Such tampers shall not weigh less than 25 pounds and shall have a tamping face no more than 50 square inches in size. The surface of the mixture after compaction shall be smooth and true to the established line and grade.
- P. No vehicular traffic shall be permitted on the newly completed pavement until adequate stability has been attained and the material has cooled to below 140 degrees Fahrenheit or sufficiently to prevent distortion or loss of fines. HMA delivery trucks (loaded or empty) shall not be permitted on the newly completed pavement until the asphalt has cooled to below 90 degrees Fahrenheit. If the climatic or other conditions warrant, the period of time before opening to traffic may be extended at the discretion of the Engineer.
- Q. Following all paving, the area along the edge of all pavement shall be backed up with gravel, or loam and seed as required, so that it is flush with the adjacent paving. Whenever possible, the final surface of the backup material shall slope away from the surface edge for drainage runoff.
- R. Following all paving, clean all catch basins and remove and dispose of all debris.

END OF SECTION

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SECTION 16091

MINOR ELECTRICAL DEMOLITION

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes
 - 1. Electrical demolition

PART 2 PRODUCTS

2.1 MATERIALS AND EQUIPMENT

- A. Materials and equipment for patching and extending work: as specified in individual Sections.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that abandoned wiring and equipment serve only abandoned facilities.
- B. Demolition Drawings are based on the "Gas Tank Plan" Drawing provided by the Town of Longmeadow. Report discrepancies to the Engineer before disturbing existing installation.
- C. Beginning of demolition means installer accepts existing conditions.

3.2 PREPARATION

- A. Disconnect electrical systems in walls, floors, and ceilings scheduled for removal.
- B. Existing Electrical Service: Only disable systems scheduled for demolition. Obtain permission from Owner at least 24 hours before partially or completely disabling system. Make temporary connections to maintain service in areas adjacent to work area, if necessary. Verify permission to disable with the Owner immediately before the work.

3.3 DEMOLITION AND EXTENSION OF EXISTING ELECTRICAL WORK

- A. Demolish existing electrical work under provisions of this Section.
- B. Remove abandoned wiring to source of supply.
- C. Remove exposed abandoned conduit, including abandoned conduit above floors and accessible ceiling finishes. Cut conduit flush with walls and floors, and patch surfaces.
- D. Disconnect abandoned equipment and remove devices. Remove abandoned outlets if conduit servicing them is abandoned and removed. Provide blank cover for abandoned outlets that are not removed.
- E. Disconnect and remove electrical devices and equipment serving utilization equipment that has been removed.

- F. Repair adjacent construction and finishes damaged during demolition work.
- G. Maintain access to existing electrical installations that remain active. Modify installation or provide access panel as appropriate.
- H. Extend existing installations using materials and methods compatible with existing electrical installations, or as specified.

3.4 CLEANING AND REPAIR

- A. Clean and repair existing materials and equipment which remain or are to be reused.
- B. Panelboards: Clean exposed surfaces and check tightness of electrical connections. Replace damaged circuit breakers, breakers servicing demolished equipment shall remain and be designated as “spare.” Provide typed circuit directory showing revised circuiting arrangements.

END OF SECTION

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APPENDIX B

**LONGMEADOW DEPARTMENT OF PUBLIC WORKS
UNDERGROUND FUEL STORAGE TANK REMOVAL PROJECT**

DRAWINGS

GENERAL NOTES:

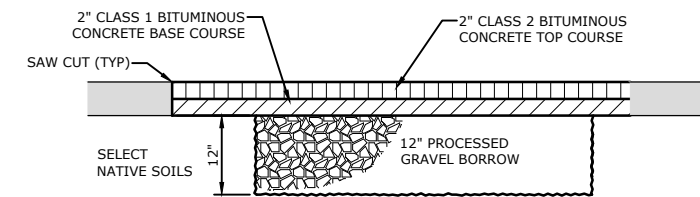
1. DRAWINGS ARE BASED ON "GAS TANK PLAN" DRAWING BY THE TOWN OF LONGMEADOW ENGINEERING DEPARTMENT, DATED APRIL 15, 1995. THE CONTRACTOR SHALL DETERMINE THE ACTUAL LOCATION OF UTILITIES BY TEST PIT OR OTHER METHOD WHERE REQUIRED.
2. PER MASSACHUSETTS LAW, CALL 1-888-DIG-SAFE (1-888-344-7233). THE DIG-SAFE SERVICE WILL FIELD LOCATE AND MARK PUBLIC UNDERGROUND UTILITIES IN THE FIELD.
3. ALL EXCAVATIONS SHALL COMPLY WITH THE LATEST OSHA STANDARDS. COMPLY WITH REQUIREMENTS OF OSHA EXCAVATION STANDARDS INCLUDING, BUT NOT LIMITED TO THE PROVISION FOR A COMPETENT PERSON ON SITE.
4. EXCAVATE SUCH THAT UNDERGROUND UTILITIES OR STRUCTURES TO REMAIN ARE NOT DAMAGED AND RETAIN PROPER FUNCTION IN THE AREAS UNDER CONSTRUCTION. ALL PIPES AND STRUCTURES WITHIN THE LIMITS OF THIS CONTRACT SHALL BE LEFT IN A CLEAN AND OPERABLE CONDITION AT THE COMPLETION OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE SUSTAINED TO ANY EXISTING UTILITIES AND SHALL MAKE ANY NECESSARY REPAIRS REQUIRED BY THE OWNER OR RESPECTIVE UTILITY COMPANY.
5. PROPERLY DISPOSE OF ANY LIQUIDS, EQUIPMENT, AND MATERIALS REMOVED OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE STATE AND FEDERAL ENVIRONMENTAL REGULATIONS.
6. PROTECT ALL EXCAVATIONS WITH TEMPORARY FENCING AND BARRICADES. COMPLY WITH LOCAL TRENCH PERMITS AND 520 CMR 14.00.
7. BEFORE EXCAVATION IS STARTED, CUT THE BITUMINOUS OR CEMENTITIOUS SURFACE VERTICALLY AT THE LIMITS FOR REMOVAL USING AN APPROVED HAND OR POWER OPERATED TOOL, SO AS TO ALLOW FOR EXCAVATION WITHOUT DISTURBING THE ADJACENT SURFACE ON EITHER SIDE OF THE EXCAVATION.
8. THE CONSTRUCTION SITE MUST BE ACCESSIBLE TO EMERGENCY VEHICLES AT ALL TIMES.

DEMOLITION NOTES:

1. REMOVE TWO 6,000-GALLON AND ONE 3,000-GALLON UNDERGROUND STORAGE TANKS AND PIPING, DISPENSERS, SUMPS, FUEL MANAGEMENT, ISLAND TERMINAL, FUELING ISLAND, DRIVE MAT, AND ASSOCIATED EQUIPMENT.
2. TIGHE & BOND WILL PROVIDE LICENSED SITE PROFESSIONAL SERVICES FOR THE UST REMOVAL ACTIVITIES.
3. THE TANKS SHALL BE EMPTIED OF ALL FLAMMABLE AND COMBUSTIBLE FLUIDS AND RINSED WITH A MINIMUM OF 50-GALLONS OF CLEAN WATER TO REMOVE RESIDUAL MATERIALS. RINSE WATER SHALL BE REMOVED AND DISPOSED OF FOLLOWING STATE AND FEDERAL DISPOSAL REQUIREMENTS FOR REGULATED WASTES.
4. PRIOR TO BEING REMOVED FROM THE EXCAVATION, THE GASOLINE TANK SHALL BE INERTED USING A MINIMUM OF 1.5 POUNDS OF DRY ICE PER 100-GALLONS OF TANK CAPACITY (9 POUNDS TOTAL).
5. THE FIBERGLASS TANKS MAY BE CRUSHED ONSITE PRIOR TO TRANSPORTATION FOR OFF-SITE DISPOSAL. THE ENGINEER SHALL VERIFY THAT THE TANKS ARE CLEAN AND DRY BEFORE ANY TANK IS CRUSHED ONSITE.
6. CONTRACTOR SHALL ASSUME THAT TRANSPORTATION AND DISPOSAL OF 450 GALLONS OF RESIDUAL FUEL AND SLUDGE WILL BE REQUIRED, EXCLUDING CLEANING FLUIDS.
7. CONTRACTOR SHALL ASSUME THAT THE UST EXCAVATION WILL NOT BE BACK-FILLED UNTIL LABORATORY RESULTS INDICATE THAT SOIL EXCAVATION AND REMOVAL DUE TO A RELEASE OF FUEL FROM THE TANK IS NOT REQUIRED. FOR THE PURPOSES OF SCHEDULING, ASSUME THAT SOIL SAMPLES WILL BE SUBMITTED FOR ANALYSIS THE DAY FOLLOWING THE REMOVAL OF EACH TANK WITH A REQUESTED TURN-AROUND TIME OF TWO BUSINESS DAYS.
8. THE OWNER RESERVES THE RIGHT TO ALLOW BACKFILLING OF THE EXCAVATIONS BEFORE THE LABORATORY RESULTS ARE RECEIVED.
9. CONDUIT LOCATED WITHIN THE BUILDING'S CONCRETE FOUNDATION AND FLOOR MAY BE ABANDONED IN PLACE. CONDUIT TO ABANDONED IN PLACE SHALL BE EMPTIED, CLEANED, CUT FLUSH WITH THE SURFACE OF THE CONCRETE AND FILLED WITH NON-SHRINK GROUT.
10. WHERE EXISTING CONDUIT THROUGH WALLS AND FLOORS ARE REMOVED, THE OPENINGS SHALL BE FILLED WITH NON-SHRINK GROUT.

LEGEND:

- ← 1 PHOTOGRAPH LOCATION
- ▨ ITEM TO BE DEMOLISHED OR REMOVED



PAVEMENT REPAIR

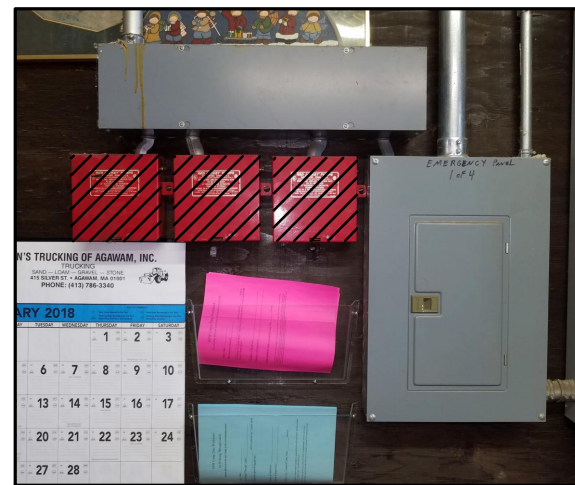
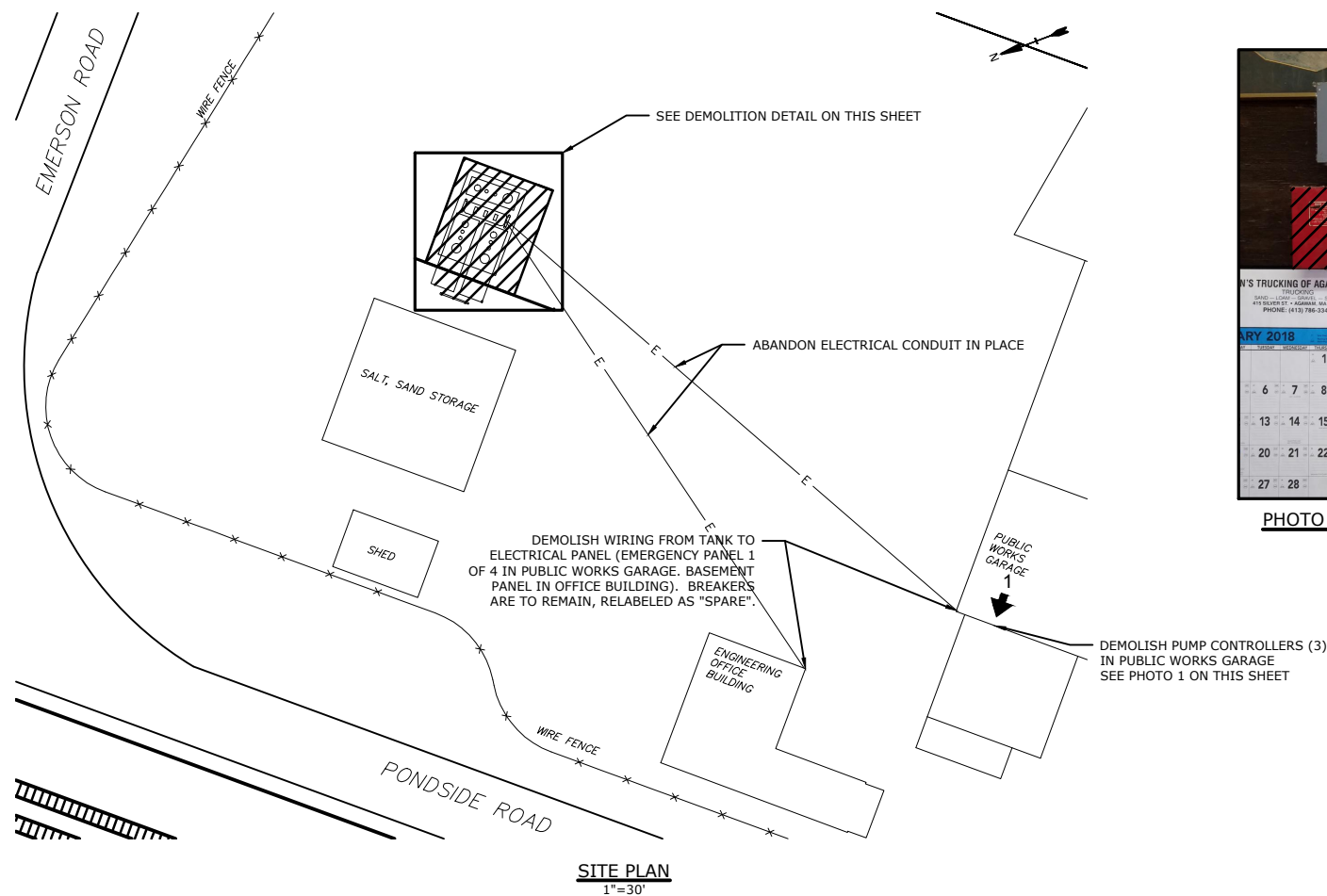


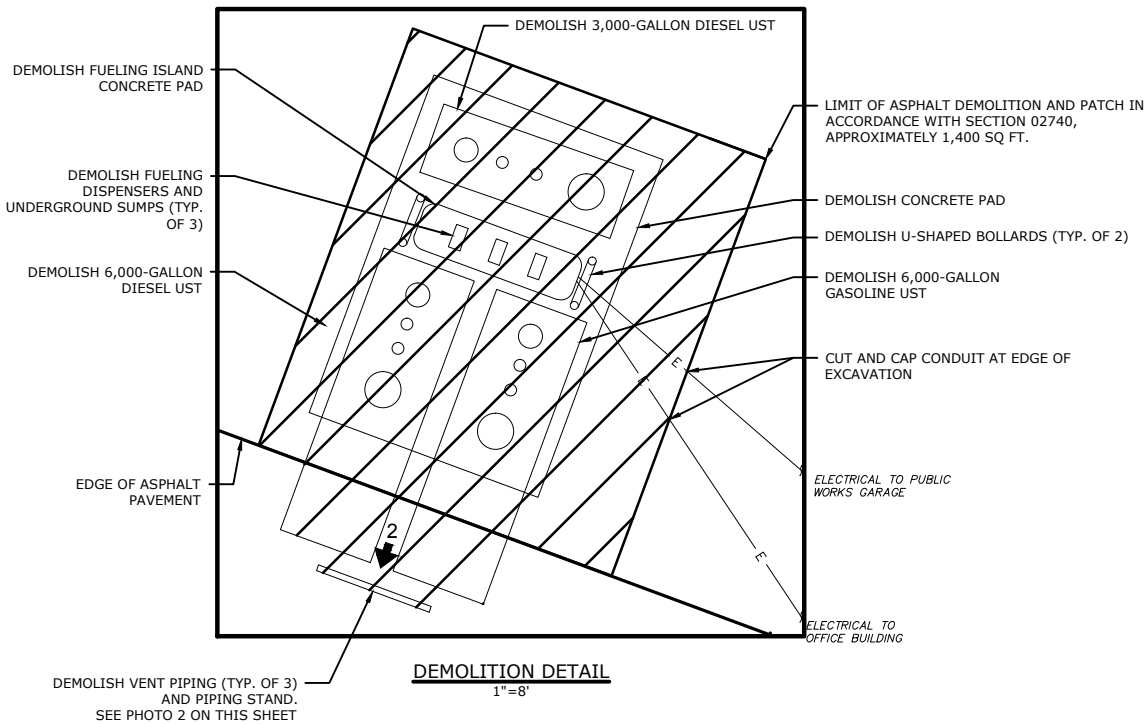
PHOTO 1: PUMP CONTROLLERS AND ELECTRICAL PANEL 1 OF 4 IN PUBLIC WORKS GARAGE



PHOTO 2: VENT PIPING AND PIPING STAND



SITE PLAN
1"=30'



DEMOLITION DETAIL
1"=8'

Underground Fuel Storage Tank Removal Project

Department of Public Works

Longmeadow, Massachusetts

MARK	DATE	DESCRIPTION
PROJECT NO:	L0759	
DATE:	02/21/2018	
FILE:	L0759 Longmeadow.dwg	
DRAWN BY:	ALP	
CHECKED:	GMR	
APPROVED BY:	EGB	

DEMOLITION PLAN

SCALE: AS SHOWN

SHEET 1 OF 1

APPENDIX C

**LONGMEADOW DEPARTMENT OF PUBLIC WORKS
UNDERGROUND FUEL STORAGE TANK REMOVAL PROJECT**

INSURANCE REQUIREMENTS

ARTICLE 1 – INSURANCE

1.01 *Certificates of Insurance*

Contractor shall deliver to the Town, with copies to each identified additional insured certificates of insurance (and other evidence of insurance requested by the Town or any other additional insured) which Contractor is required to purchase and maintain.

1.02 *Contractor's Liability Insurance*

Contractor shall purchase and maintain such liability and other insurance as is appropriate for the Work being performed and as will provide protection from claims set forth below which may arise out of or result from Contractor's performance of the Work and Contractor's other obligations under the Contract Documents, whether it is to be performed by Contractor, any Subcontractor or Supplier, or by anyone directly or indirectly employed by any of them to perform any of the Work, or by anyone for whose acts any of them may be liable:

1. claims under workers' compensation, disability benefits, and other similar employee benefit acts;
2. claims for damages because of bodily injury, occupational sickness or disease, or death of Contractor's employees;
3. claims for damages because of bodily injury, sickness or disease, or death of any person other than Contractor's employees;
4. claims for damages insured by reasonably available personal injury liability coverage which are sustained:
 - a. by any person as a result of an offense directly or indirectly related to the employment of such person by Contractor, or
 - b. by any other person for any other reason;
5. claims for damages, other than to the Work itself, because of injury to or destruction of tangible property wherever located, including loss of use resulting therefrom; and
6. claims for damages because of bodily injury or death of any person or property damage arising out of the ownership, maintenance or use of any motor vehicle.

The policies of insurance required by this Paragraph shall:

7. with respect to insurance required by Paragraphs 1.04.A.3 through 1.04.A.6 inclusive, include as additional insureds (subject to any customary exclusion regarding professional liability) the Town and Engineer, and any other individuals or entities identified in Article 1, all of whom shall be listed as additional insureds, and include coverage for the respective officers, directors, partners, employees, agents, consultants and subcontractors of each and any of all such additional insureds, and the insurance afforded to these additional insureds shall provide primary coverage for all claims covered thereby;

8. include at least the specific coverages and be written for not less than the limits of liability provided in Article 1 or required by Laws or Regulations, whichever is greater;
9. include products and completed operations insurance maintained for 3 years following completion of the project;
10. include contractual liability insurance covering Contractor's indemnity obligations under Paragraphs 1.01 and 1.02;
11. contain a provision or endorsement that the coverage afforded will not be canceled, materially changed or renewal refused until at least 30 days prior written notice has been given to the Town and Contractor and to each other additional insured identified in the Article 1 to whom a certificate of insurance has been issued (and the certificates of insurance furnished by the Contractor pursuant to Paragraph 1.03 will so provide);
12. remain in effect at least until final payment and at all times thereafter when Contractor may be correcting, removing, or replacing defective Work; and
13. with respect to completed operations insurance, and any insurance coverage written on a claims-made basis, remain in effect for three years after final payment.
 - a. Contractor shall furnish the Town and each other additional insured identified in Article 1, to whom a certificate of insurance has been issued, evidence satisfactory to the Town and any such additional insured of continuation of such insurance at final payment and one year thereafter.

The limits of liability for insurance required shall provide coverage for not less than the following amounts or greater where required by Laws and Regulations:

14. Worker's Compensation and Employer's Liability as required by law.
15. Contractor's General Liability under Paragraphs 1.04.A.3 through A.6 of Article 1 which shall include completed operations and product liability coverages and eliminate the exclusion with respect to property under the care, custody, and control of the Contractor:
 - a. Annual Aggregate \$1,000,000.00
 - b. Each Occurrence (Bodily Injury and Property Damage) \$1,000,000.00
 - c. Excess or Umbrella Liability, which may be used to satisfy the limits of liability required for the insurance to be purchased and maintained in accordance with paragraph 1.04
 - 1) General Aggregate \$2,000,000.00
 - 2) Each Occurrence \$2,000,000.00

16. Comprehensive Automobile Liability under paragraph 1.04.A.6 of the Article 1 including all scheduled, hired and non-owned vehicles:

- a. Bodily Injury:
Each Accident \$1,000,000.00
- b. Property Damage:
Each Accident \$1,000,000.00

Insurance coverage for the Contractor's Comprehensive General and Excess Liability policies shall be written by one and the same insurance company to avoid the expense of duplicate and/or overlapping coverage and to facilitate and expedite the settlement of claims.

17. The Contractor and any Lower-Tier Subcontractors shall provide waivers of subrogation against the Town and Engineer, their officers, affiliates, employees, agents, and subcontractors with respect to the insurance provided as required in (1) (2) and (3) above.

The following shall be included as certificate holders and identified on the certificate as additional insureds for (2) and (3) noted above:

Tighe & Bond, Inc.
53 Southampton Rd.
Westfield, MA 01085

Town of Longmeadow
Purchasing Department
735 Longmeadow Street, Suite 101
Longmeadow, MA 01106

1.03 *Property Insurance*

Unless otherwise provided in Article 1, Contractor shall purchase and maintain property insurance upon the Work at the Site in the amount of the full replacement cost thereof (Contractor shall be responsible for any deductible or self-insured retention.). This insurance shall:

1. include the interests of the Town, Contractor, Subcontractors, and Engineer, and any other individuals or entities identified in Article 1, and the officers, directors, partners, employees, agents, consultants and subcontractors of any of them, each of whom is deemed to have an insurable interest and shall be listed as an insured or additional insured;
2. include expenses incurred in the repair or replacement of any insured property (including but not limited to fees and charges of engineers and architects);
3. cover materials and equipment stored at another location other than the Site that was agreed to in writing by the Town prior to being incorporated in the Work, provided that such

materials and equipment have been included in an Application for Payment recommended by Engineer;

4. extend to cover damage or loss to insured for materials and supplies while in transit;
5. provide primary coverage for all losses and damages caused by the perils or causes of loss covered; and
6. be maintained in effect until final payment is made unless otherwise agreed to in writing by the Town, Contractor, and Engineer with 30 days written notice to each other additional insured to whom a certificate of insurance has been issued.

The purchaser of any required property insurance shall pay for costs not covered because of the application of a policy deductible.

All the policies of insurance (and the certificates or other evidence thereof) required to be purchased and maintained in accordance with Paragraph 1.05 will contain a provision or endorsement that the coverage afforded will not be canceled or materially changed or renewal refused until at least 30 days prior written notice has been given to the Town and Contractor and to each other additional insured to whom a certificate of insurance has been issued.

The Town shall not be responsible for purchasing and maintaining any property insurance specified in this Paragraph 1.03 to protect the interests of Contractor, Subcontractors, or others in the Work to the extent of any deductible amounts that are identified in Article 1. The risk of loss within such identified deductible amount will be borne by Contractor, Subcontractors, or others suffering any such loss, and if any of them wishes property insurance coverage within the limits of such amounts, each may purchase and maintain it at the purchaser's own expense.

1.04 *Acceptance of Insurance; Option to Replace*

If either Town or Contractor has any objection to the coverage afforded by or other provisions of the insurance required to be purchased and maintained by the other party in accordance with Appendix B on the basis of non-conformance with the Contract Documents, the objecting party shall so notify the other party in writing within 10 days after receipt of the certificates. The Town and Contractor shall each provide to the other such additional information in respect of insurance provided as the other may reasonably request. If either party does not purchase or maintain all of the insurance required of such party by the Contract Documents, such party shall notify the other party in writing of such failure to purchase prior to the start of the Work, or of such failure to maintain prior to any change in the required coverage. Without prejudice to any other right or remedy, the other party may elect to obtain equivalent insurance to protect such other party's interests at the expense of the party who was required to provide such coverage, and a Change Order shall be issued to adjust the Contract Price accordingly.

END OF SECTION

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APPENDIX D

**LONGMEADOW DEPARTMENT OF PUBLIC WORKS
UNDERGROUND FUEL STORAGE TANK REMOVAL PROJECT**

PAYMENT BOND

PAYMENT BOND

CONTRACTOR *(name and address)*:

SURETY *(name and address of principal place of business)*:

OWNER *(name and address)*:

CONSTRUCTION CONTRACT

Effective Date of the Agreement:

Amount:

Description *(name and location)*:

BOND

Bond Number:

Date *(not earlier than the Effective Date of the Agreement of the Construction Contract)*:

Amount:

Modifications to this Bond Form: None See Paragraph 18

Surety and Contractor, intending to be legally bound hereby, subject to the terms set forth below, do each cause this Payment Bond to be duly executed by an authorized officer, agent, or representative.

CONTRACTOR AS PRINCIPAL

SURETY

_____ *(seal)*

Contractor's Name and Corporate Seal

_____ *(seal)*

Surety's Name and Corporate Seal

By: _____

Signature

By: _____

Signature *(attach power of attorney)*

Print Name

Print Name

Title

Title

Attest: _____

Signature

Attest: _____

Signature

Title

Title

Notes: (1) Provide supplemental execution by any additional parties, such as joint venturers. (2) Any singular reference to Contractor, Surety, Owner, or other party shall be considered plural where applicable.

1. The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to the Owner to pay for labor, materials, and equipment furnished for use in the performance of the Construction Contract, which is incorporated herein by reference, subject to the following terms.
2. If the Contractor promptly makes payment of all sums due to Claimants, and defends, indemnifies, and holds harmless the Owner from claims, demands, liens, or suits by any person or entity seeking payment for labor, materials, or equipment furnished for use in the performance of the Construction Contract, then the Surety and the Contractor shall have no obligation under this Bond.
3. If there is no Owner Default under the Construction Contract, the Surety's obligation to the Owner under this Bond shall arise after the Owner has promptly notified the Contractor and the Surety (at the address described in Paragraph 13) of claims, demands, liens, or suits against the Owner or the Owner's property by any person or entity seeking payment for labor, materials, or equipment furnished for use in the performance of the Construction Contract, and tendered defense of such claims, demands, liens, or suits to the Contractor and the Surety.
4. When the Owner has satisfied the conditions in Paragraph 3, the Surety shall promptly and at the Surety's expense defend, indemnify, and hold harmless the Owner against a duly tendered claim, demand, lien, or suit.
5. The Surety's obligations to a Claimant under this Bond shall arise after the following:
 - 5.1 Claimants who do not have a direct contract with the Contractor,
 - 5.1.1 have furnished a written notice of non-payment to the Contractor, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were, or equipment was, furnished or supplied or for whom the labor was done or performed, within ninety (90) days after having last performed labor or last furnished materials or equipment included in the Claim; and
 - 5.1.2 have sent a Claim to the Surety (at the address described in Paragraph 13).
 - 5.2 Claimants who are employed by or have a direct contract with the Contractor have sent a Claim to the Surety (at the address described in Paragraph 13).
6. If a notice of non-payment required by Paragraph 5.1.1 is given by the Owner to the Contractor, that is sufficient to satisfy a Claimant's obligation to furnish a written notice of non-payment under Paragraph 5.1.1.
7. When a Claimant has satisfied the conditions of Paragraph 5.1 or 5.2, whichever is applicable, the Surety shall promptly and at the Surety's expense take the following actions:
 - 7.1 Send an answer to the Claimant, with a copy to the Owner, within sixty (60) days after receipt of the Claim, stating the amounts that are undisputed and the basis for challenging any amounts that are disputed; and
 - 7.2 Pay or arrange for payment of any undisputed amounts.
 - 7.3 The Surety's failure to discharge its obligations under Paragraph 7.1 or 7.2 shall not be deemed to constitute a waiver of defenses the Surety or Contractor may have or acquire as to a Claim, except as to undisputed amounts for which the Surety and Claimant have reached agreement. If, however, the Surety fails to discharge its obligations under Paragraph 7.1 or 7.2, the Surety shall indemnify the Claimant for the reasonable attorney's fees the Claimant incurs thereafter to recover any sums found to be due and owing to the Claimant.
8. The Surety's total obligation shall not exceed the amount of this Bond, plus the amount of reasonable attorney's fees provided under Paragraph 7.3, and the amount of this Bond shall be credited for any payments made in good faith by the Surety.
9. Amounts owed by the Owner to the Contractor under the Construction Contract shall be used for the performance of the Construction Contract and to satisfy claims, if any, under any construction performance bond. By the Contractor furnishing and the Owner accepting this Bond, they agree that all funds earned by the Contractor in the performance of the Construction Contract are dedicated to satisfy obligations of the Contractor and Surety under this Bond, subject to the Owner's priority to use the funds for the completion of the work.
10. The Surety shall not be liable to the Owner, Claimants, or others for obligations of the Contractor that are unrelated to the Construction Contract. The Owner shall not be liable for the payment of any costs or expenses of any Claimant under this Bond, and shall have under this Bond no obligation to make payments to or give notice on behalf of Claimants, or otherwise have any obligations to Claimants under this Bond.
11. The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related subcontracts, purchase orders, and other obligations.

12. No suit or action shall be commenced by a Claimant under this Bond other than in a court of competent jurisdiction in the state in which the project that is the subject of the Construction Contract is located or after the expiration of one year from the date (1) on which the Claimant sent a Claim to the Surety pursuant to Paragraph 5.1.2 or 5.2, or (2) on which the last labor or service was performed by anyone or the last materials or equipment were furnished by anyone under the Construction Contract, whichever of (1) or (2) first occurs. If the provisions of this paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.
13. Notice and Claims to the Surety, the Owner, or the Contractor shall be mailed or delivered to the address shown on the page on which their signature appears. Actual receipt of notice or Claims, however accomplished, shall be sufficient compliance as of the date received.
14. When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.
15. Upon requests by any person or entity appearing to be a potential beneficiary of this Bond, the Contractor and Owner shall promptly furnish a copy of this Bond or shall permit a copy to be made.
16. **Definitions**
 - 16.1 **Claim:** A written statement by the Claimant including at a minimum:
 1. The name of the Claimant;
 2. The name of the person for whom the labor was done, or materials or equipment furnished;
 3. A copy of the agreement or purchase order pursuant to which labor, materials, or equipment was furnished for use in the performance of the Construction Contract;
 4. A brief description of the labor, materials, or equipment furnished;
 5. The date on which the Claimant last performed labor or last furnished materials or equipment for use in the performance of the Construction Contract;
 6. The total amount earned by the Claimant for labor, materials, or equipment furnished as of the date of the Claim;
 7. The total amount of previous payments received by the Claimant; and
 - 16.2 **Claimant:** An individual or entity having a direct contract with the Contractor or with a subcontractor of the Contractor to furnish labor, materials, or equipment for use in the performance of the Construction Contract. The term Claimant also includes any individual or entity that has rightfully asserted a claim under an applicable mechanic's lien or similar statute against the real property upon which the Project is located. The intent of this Bond shall be to include without limitation in the terms of "labor, materials, or equipment" that part of the water, gas, power, light, heat, oil, gasoline, telephone service, or rental equipment used in the Construction Contract, architectural and engineering services required for performance of the work of the Contractor and the Contractor's subcontractors, and all other items for which a mechanic's lien may be asserted in the jurisdiction where the labor, materials, or equipment were furnished.
 - 16.3 **Construction Contract:** The agreement between the Owner and Contractor identified on the cover page, including all Contract Documents and all changes made to the agreement and the Contract Documents.
 - 16.4 **Owner Default:** Failure of the Owner, which has not been remedied or waived, to pay the Contractor as required under the Construction Contract or to perform and complete or comply with the other material terms of the Construction Contract.
 - 16.5 **Contract Documents:** All the documents that comprise the agreement between the Owner and Contractor.
17. If this Bond is issued for an agreement between a contractor and subcontractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.
18. Modifications to this Bond are as follows:
8. The total amount due and unpaid to the Claimant for labor, materials, or equipment furnished as of the date of the Claim.

APPENDIX E

**LONGMEADOW DEPARTMENT OF PUBLIC WORKS
UNDERGROUND FUEL STORAGE TANK REMOVAL PROJECT**

MASSACHUSETTS WAGE RATES



**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**

CHARLES D. BAKER
Governor

ROSALIN ACOSTA
Secretary

KARYN E. POLITO
Lt. Governor

WILLIAM D MCKINNEY
Director

Awarding Authority: Town of Longmeadow
Contract Number: **City/Town:** LONGMEADOW
Description of Work: Removal & disposal of underground fuel storage tanks, piping, electrical including fuel stations and fuel monitoring system.
Job Location: 31 Ponside Rd, Longmeadow, MA

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
Construction						
(2 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.15	\$10.91	\$10.89	\$0.00	\$53.95
(3 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.22	\$10.91	\$10.89	\$0.00	\$54.02
(4 & 5 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.34	\$10.91	\$10.89	\$0.00	\$54.14
ADS/SUBMERSIBLE PILOT <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2017	\$92.97	\$9.90	\$21.15	\$0.00	\$124.02
	08/01/2018	\$97.80	\$9.90	\$21.15	\$0.00	\$128.85
	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 & SITE)</i>	12/04/2017	\$31.25	\$7.70	\$13.01	\$0.00	\$51.96
	06/04/2018	\$32.03	\$7.70	\$13.01	\$0.00	\$52.74
	12/03/2018	\$32.80	\$7.70	\$13.01	\$0.00	\$53.51
	06/03/2019	\$33.61	\$7.70	\$13.01	\$0.00	\$54.32
	12/02/2019	\$34.42	\$7.70	\$13.01	\$0.00	\$55.13
For apprentice rates see "Apprentice- LABORER"						
AIR TRACK OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY & HIGHWAY)</i>	12/01/2017	\$31.25	\$7.70	\$11.01	\$0.00	\$49.96
	06/01/2018	\$32.02	\$7.70	\$11.01	\$0.00	\$50.73
	12/01/2018	\$32.78	\$7.70	\$11.01	\$0.00	\$51.49
	06/01/2019	\$33.57	\$7.70	\$11.01	\$0.00	\$52.28
	12/01/2019	\$34.36	\$7.70	\$11.01	\$0.00	\$53.07
	06/01/2020	\$35.17	\$7.70	\$11.01	\$0.00	\$53.88
	12/01/2020	\$35.98	\$7.70	\$11.01	\$0.00	\$54.69
	06/01/2021	\$36.82	\$7.70	\$11.01	\$0.00	\$55.53
	12/01/2021	\$37.65	\$7.70	\$11.01	\$0.00	\$56.36
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
ASBESTOS WORKER (PIPES & TANKS) <i>HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)</i>	12/01/2017	\$32.31	\$11.50	\$6.60	\$0.00	\$50.41
	06/01/2018	\$33.21	\$11.50	\$6.60	\$0.00	\$51.31
	12/01/2018	\$34.11	\$11.50	\$6.60	\$0.00	\$52.21
	06/01/2019	\$35.01	\$11.50	\$6.60	\$0.00	\$53.11
	12/01/2019	\$35.91	\$11.50	\$6.60	\$0.00	\$54.01
	06/01/2020	\$36.81	\$11.50	\$6.60	\$0.00	\$54.91
	12/01/2020	\$37.71	\$11.50	\$6.60	\$0.00	\$55.81
ASPHALT RAKER <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	12/04/2017	\$30.75	\$7.70	\$13.01	\$0.00	\$51.46
	06/04/2018	\$31.53	\$7.70	\$13.01	\$0.00	\$52.24
	12/03/2018	\$32.30	\$7.70	\$13.01	\$0.00	\$53.01
	06/03/2019	\$33.11	\$7.70	\$13.01	\$0.00	\$53.82
	12/02/2019	\$33.92	\$7.70	\$13.01	\$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 & HIGHWAY)</i>	12/01/2017	\$30.75	\$7.70	\$11.01	\$0.00	\$49.46
	06/01/2018	\$31.52	\$7.70	\$11.01	\$0.00	\$50.23
	12/01/2018	\$32.28	\$7.70	\$11.01	\$0.00	\$50.99
	06/01/2019	\$33.07	\$7.70	\$11.01	\$0.00	\$51.78
	12/01/2019	\$33.86	\$7.70	\$11.01	\$0.00	\$52.57
	06/01/2020	\$34.67	\$7.70	\$11.01	\$0.00	\$53.38
	12/01/2020	\$35.48	\$7.70	\$11.01	\$0.00	\$54.19
	06/01/2021	\$36.32	\$7.70	\$11.01	\$0.00	\$55.03
	12/01/2021	\$37.15	\$7.70	\$11.01	\$0.00	\$55.86
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
AUTOMATIC GRADER-EXCAVATOR (RECLAIMER) <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$34.18	\$10.99	\$13.12	\$0.00	\$58.29
	06/01/2018	\$34.79	\$10.99	\$13.39	\$0.00	\$59.17
	12/01/2018	\$35.39	\$10.99	\$13.66	\$0.00	\$60.04
	06/01/2019	\$35.90	\$10.99	\$13.93	\$0.00	\$60.82
	12/01/2019	\$36.50	\$10.99	\$14.20	\$0.00	\$61.69
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BACKHOE/FRONT-END LOADER OPERATOR <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$34.18	\$10.99	\$13.12	\$0.00	\$58.29
	06/01/2018	\$34.79	\$10.99	\$13.39	\$0.00	\$59.17
	12/01/2018	\$35.39	\$10.99	\$13.66	\$0.00	\$60.04
	06/01/2019	\$35.90	\$10.99	\$13.93	\$0.00	\$60.82
	12/01/2019	\$36.50	\$10.99	\$14.20	\$0.00	\$61.69
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BARCO-TYPE JUMPING TAMPER <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	12/04/2017	\$30.75	\$7.70	\$13.01	\$0.00	\$51.46
	06/04/2018	\$31.53	\$7.70	\$13.01	\$0.00	\$52.24
	12/03/2018	\$32.30	\$7.70	\$13.01	\$0.00	\$53.01
	06/03/2019	\$33.11	\$7.70	\$13.01	\$0.00	\$53.82
	12/02/2019	\$33.92	\$7.70	\$13.01	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						
BATCH/CEMENT PLANT - ON SITE <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$33.65	\$10.99	\$13.12	\$0.00	\$57.76
	06/01/2018	\$34.26	\$10.99	\$13.39	\$0.00	\$58.64
	12/01/2018	\$34.86	\$10.99	\$13.66	\$0.00	\$59.51
	06/01/2019	\$35.37	\$10.99	\$13.93	\$0.00	\$60.29
	12/01/2019	\$35.97	\$10.99	\$14.20	\$0.00	\$61.16
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BLOCK PAVER, RAMMER / CURB SETTER <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	12/04/2017	\$31.25	\$7.70	\$13.01	\$0.00	\$51.96
	06/04/2018	\$32.03	\$7.70	\$13.01	\$0.00	\$52.74
	12/03/2018	\$32.80	\$7.70	\$13.01	\$0.00	\$53.51
	06/03/2019	\$33.61	\$7.70	\$13.01	\$0.00	\$54.32
	12/02/2019	\$34.42	\$7.70	\$13.01	\$0.00	\$55.13
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY & HIGHWAY)</i>	12/01/2017	\$31.25	\$7.70	\$11.01	\$0.00	\$49.96
	06/01/2018	\$32.02	\$7.70	\$11.01	\$0.00	\$50.73
	12/01/2018	\$32.78	\$7.70	\$11.01	\$0.00	\$51.49
	06/01/2019	\$33.57	\$7.70	\$11.01	\$0.00	\$52.28
	12/01/2019	\$34.36	\$7.70	\$11.01	\$0.00	\$53.07
	06/01/2020	\$35.17	\$7.70	\$11.01	\$0.00	\$53.88
	12/01/2020	\$35.98	\$7.70	\$11.01	\$0.00	\$54.69
	06/01/2021	\$36.82	\$7.70	\$11.01	\$0.00	\$55.53
	12/01/2021	\$37.65	\$7.70	\$11.01	\$0.00	\$56.36

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

BOILER MAKER <i>BOILERMAKERS LOCAL 29</i>	01/01/2017	\$42.92	\$6.97	\$16.21	\$0.00	\$66.10
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Apprentice - BOILERMAKER - Local 29

Effective Date - 01/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	65	\$27.90	\$6.97	\$10.54	\$0.00	\$45.41
2	65	\$27.90	\$6.97	\$10.54	\$0.00	\$45.41
3	70	\$30.04	\$6.97	\$11.35	\$0.00	\$48.36
4	75	\$32.19	\$6.97	\$12.16	\$0.00	\$51.32
5	80	\$34.34	\$6.97	\$12.97	\$0.00	\$54.28
6	85	\$36.48	\$6.97	\$13.78	\$0.00	\$57.23
7	90	\$38.63	\$6.97	\$14.59	\$0.00	\$60.19
8	95	\$40.77	\$6.97	\$15.40	\$0.00	\$63.14

Notes:

Apprentice to Journeyworker Ratio:1:5

BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING) <i>BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)</i>	03/01/2018	\$40.56	\$10.75	\$18.14	\$0.00	\$69.45
	08/01/2018	\$41.91	\$10.75	\$18.27	\$0.00	\$70.93
	02/01/2019	\$42.46	\$10.75	\$18.27	\$0.00	\$71.48
	08/01/2019	\$43.81	\$10.75	\$18.41	\$0.00	\$72.97
	02/01/2020	\$44.36	\$10.75	\$18.41	\$0.00	\$73.52
	08/01/2020	\$45.71	\$10.75	\$18.56	\$0.00	\$75.02
	02/01/2021	\$46.26	\$10.75	\$18.56	\$0.00	\$75.57
	08/01/2021	\$47.66	\$10.75	\$18.72	\$0.00	\$77.13
	02/01/2022	\$48.19	\$10.75	\$18.72	\$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 - 03/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.28	\$10.75	\$18.14	\$0.00	\$49.17
2	60	\$24.34	\$10.75	\$18.14	\$0.00	\$53.23
3	70	\$28.39	\$10.75	\$18.14	\$0.00	\$57.28
4	80	\$32.45	\$10.75	\$18.14	\$0.00	\$61.34
5	90	\$36.50	\$10.75	\$18.14	\$0.00	\$65.39

Effective Date - 08/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.96	\$10.75	\$18.27	\$0.00	\$49.98
2	60	\$25.15	\$10.75	\$18.27	\$0.00	\$54.17
3	70	\$29.34	\$10.75	\$18.27	\$0.00	\$58.36
4	80	\$33.53	\$10.75	\$18.27	\$0.00	\$62.55
5	90	\$37.72	\$10.75	\$18.27	\$0.00	\$66.74

Notes:

Apprentice to Journeyworker Ratio:1:5

BULLDOZER/POWER SHOVEL/TREE SHREDDER	12/01/2017	\$34.18	\$10.99	\$13.12	\$0.00	\$58.29
ENGINEERS LOCAL 98	06/01/2018	\$34.79	\$10.99	\$13.39	\$0.00	\$59.17
	12/01/2018	\$35.39	\$10.99	\$13.66	\$0.00	\$60.04
	06/01/2019	\$35.90	\$10.99	\$13.93	\$0.00	\$60.82
	12/01/2019	\$36.50	\$10.99	\$14.20	\$0.00	\$61.69

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

CAISSON & UNDERPINNING BOTTOM MAN	12/01/2017	\$38.60	\$7.70	\$14.95	\$0.00	\$61.25
LABORERS - FOUNDATION AND MARINE	06/01/2018	\$39.55	\$7.70	\$14.95	\$0.00	\$62.20
	12/01/2018	\$40.50	\$7.70	\$14.95	\$0.00	\$63.15
	06/01/2019	\$41.50	\$7.70	\$14.95	\$0.00	\$64.15
	12/01/2019	\$42.50	\$7.70	\$14.95	\$0.00	\$65.15
	06/01/2020	\$43.49	\$7.70	\$14.95	\$0.00	\$66.14
	12/01/2020	\$44.47	\$7.70	\$14.95	\$0.00	\$67.12
	06/01/2021	\$45.49	\$7.70	\$14.95	\$0.00	\$68.14
	12/01/2021	\$46.50	\$7.70	\$14.95	\$0.00	\$69.15

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
CAISSON & UNDERPINNING LABORER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2017	\$37.45	\$7.70	\$14.95	\$0.00	\$60.10
	06/01/2018	\$38.40	\$7.70	\$14.95	\$0.00	\$61.05
	12/01/2018	\$39.35	\$7.70	\$14.95	\$0.00	\$62.00
	06/01/2019	\$40.35	\$7.70	\$14.95	\$0.00	\$63.00
	12/01/2019	\$41.35	\$7.70	\$14.95	\$0.00	\$64.00
	06/01/2020	\$42.34	\$7.70	\$14.95	\$0.00	\$64.99
	12/01/2020	\$43.32	\$7.70	\$14.95	\$0.00	\$65.97
	06/01/2021	\$44.34	\$7.70	\$14.95	\$0.00	\$66.99
	12/01/2021	\$45.35	\$7.70	\$14.95	\$0.00	\$68.00
For apprentice rates see "Apprentice- LABORER"						
CAISSON & UNDERPINNING TOP MAN <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2017	\$37.45	\$7.70	\$14.95	\$0.00	\$60.10
	06/01/2018	\$38.40	\$7.70	\$14.95	\$0.00	\$61.05
	12/01/2018	\$39.35	\$7.70	\$14.95	\$0.00	\$62.00
	06/01/2019	\$40.35	\$7.70	\$14.95	\$0.00	\$63.00
	12/01/2019	\$41.35	\$7.70	\$14.95	\$0.00	\$64.00
	06/01/2020	\$42.34	\$7.70	\$14.95	\$0.00	\$64.99
	12/01/2020	\$43.32	\$7.70	\$14.95	\$0.00	\$65.97
	06/01/2021	\$44.34	\$7.70	\$14.95	\$0.00	\$66.99
	12/01/2021	\$45.35	\$7.70	\$14.95	\$0.00	\$68.00
For apprentice rates see "Apprentice- LABORER"						
CARBIDE CORE DRILL OPERATOR <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	12/04/2017	\$30.75	\$7.70	\$13.01	\$0.00	\$51.46
	06/04/2018	\$31.53	\$7.70	\$13.01	\$0.00	\$52.24
	12/03/2018	\$32.30	\$7.70	\$13.01	\$0.00	\$53.01
	06/03/2019	\$33.11	\$7.70	\$13.01	\$0.00	\$53.82
	12/02/2019	\$33.92	\$7.70	\$13.01	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						
CARPENTER <i>CARPENTERS LOCAL 108 - HAMPDEN HAMPSHIRE FRANKLIN</i>	03/05/2018	\$36.56	\$8.26	\$15.00	\$0.00	\$59.82
	09/05/2018	\$37.60	\$8.26	\$15.00	\$0.00	\$60.86
	03/04/2019	\$38.64	\$8.26	\$15.00	\$0.00	\$61.90

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - CARPENTER - Local 108 Hampden Hampshire Franklin

Effective Date - 03/05/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$18.28	\$8.26	\$1.22	\$0.00	\$27.76
2	60	\$21.94	\$8.26	\$1.22	\$0.00	\$31.42
3	70	\$25.59	\$8.26	\$11.34	\$0.00	\$45.19
4	75	\$27.42	\$8.26	\$11.34	\$0.00	\$47.02
5	80	\$29.25	\$8.26	\$12.56	\$0.00	\$50.07
6	80	\$29.25	\$8.26	\$12.56	\$0.00	\$50.07
7	90	\$32.90	\$8.26	\$13.78	\$0.00	\$54.94
8	90	\$32.90	\$8.26	\$13.78	\$0.00	\$54.94

Effective Date - 09/05/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$18.80	\$8.26	\$1.22	\$0.00	\$28.28
2	60	\$22.56	\$8.26	\$1.22	\$0.00	\$32.04
3	70	\$26.32	\$8.26	\$11.34	\$0.00	\$45.92
4	75	\$28.20	\$8.26	\$11.34	\$0.00	\$47.80
5	80	\$30.08	\$8.26	\$12.56	\$0.00	\$50.90
6	80	\$30.08	\$8.26	\$12.56	\$0.00	\$50.90
7	90	\$33.84	\$8.26	\$13.78	\$0.00	\$55.88
8	90	\$33.84	\$8.26	\$13.78	\$0.00	\$55.88

Notes:

% Indentured After 10/1/17; 45/45/55/55/70/70/80/80
 Step 1&2 \$25.93/ 3&4 \$30.77/ 5&6 \$46.41/ 7&8 \$51.29

Apprentice to Journeyworker Ratio:1:5

CARPENTER WOOD FRAME	10/01/2017	\$21.95	\$7.07	\$7.86	\$0.00	\$36.88
CARPENTERS LOCAL 108 - HAMPDEN HAMPSHIRE FRANKLIN	04/01/2018	\$22.33	\$7.07	\$7.86	\$0.00	\$37.26
	10/01/2018	\$22.71	\$7.07	\$7.86	\$0.00	\$37.64
	04/01/2019	\$23.10	\$7.07	\$7.86	\$0.00	\$38.03
	10/01/2019	\$23.49	\$7.07	\$7.86	\$0.00	\$38.42

As of 9/1/09 Carpentry work on wood-frame WEATHERIZATION projects shall be paid the WOOD FRAME CARPENTER rate.

Apprentice - CARPENTER (Wood Frame) - 108 Hampden Hampshire

Effective Date - 10/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$13.17	\$7.07	\$0.00	\$0.00	\$20.24
2	60	\$13.17	\$7.07	\$0.00	\$0.00	\$20.24
3	65	\$14.27	\$7.07	\$7.86	\$0.00	\$29.20
4	70	\$15.37	\$7.07	\$7.86	\$0.00	\$30.30
5	75	\$16.46	\$7.07	\$7.86	\$0.00	\$31.39
6	80	\$17.56	\$7.07	\$7.86	\$0.00	\$32.49
7	85	\$18.66	\$7.07	\$7.86	\$0.00	\$33.59
8	90	\$19.76	\$7.07	\$7.86	\$0.00	\$34.69

Effective Date - 04/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$13.40	\$7.07	\$0.00	\$0.00	\$20.47
2	60	\$13.40	\$7.07	\$0.00	\$0.00	\$20.47
3	65	\$14.51	\$7.07	\$7.86	\$0.00	\$29.44
4	70	\$15.63	\$7.07	\$7.86	\$0.00	\$30.56
5	75	\$16.75	\$7.07	\$7.86	\$0.00	\$31.68
6	80	\$17.86	\$7.07	\$7.86	\$0.00	\$32.79
7	85	\$18.98	\$7.07	\$7.86	\$0.00	\$33.91
8	90	\$20.10	\$7.07	\$7.86	\$0.00	\$35.03

Notes:

% Indentured After 10/1/17; 45/45/55/55/70/70/80/80
 Step 1&2 \$16.95/ 3&4 \$23.89/ 5&6 \$30.30/ 7&8 \$32.49

Apprentice to Journeyworker Ratio:1:5

CEMENT MASONRY/PLASTERING BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)	01/01/2018	\$39.11	\$12.30	\$17.64	\$0.30	\$69.35
	07/01/2018	\$40.57	\$12.30	\$17.64	\$0.30	\$70.81
	01/01/2019	\$41.15	\$12.30	\$17.64	\$0.30	\$71.39
	07/01/2019	\$42.62	\$12.30	\$17.64	\$0.30	\$72.86
	01/01/2020	\$43.19	\$12.30	\$17.64	\$0.30	\$73.43

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - CEMENT MASONRY/PLASTERING - Springfield/Pittsfield

Effective Date - 01/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.56	\$12.30	\$15.41	\$0.00	\$47.27
2	60	\$23.47	\$12.30	\$17.64	\$0.30	\$53.71
3	65	\$25.42	\$12.30	\$17.64	\$0.30	\$55.66
4	70	\$27.38	\$12.30	\$17.64	\$0.30	\$57.62
5	75	\$29.33	\$12.30	\$17.64	\$0.30	\$59.57
6	80	\$31.29	\$12.30	\$17.64	\$0.30	\$61.53
7	90	\$35.20	\$12.30	\$17.64	\$0.30	\$65.44

Effective Date - 07/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.29	\$12.30	\$15.41	\$0.00	\$48.00
2	60	\$24.34	\$12.30	\$17.64	\$0.30	\$54.58
3	65	\$26.37	\$12.30	\$17.64	\$0.30	\$56.61
4	70	\$28.40	\$12.30	\$17.64	\$0.30	\$58.64
5	75	\$30.43	\$12.30	\$17.64	\$0.30	\$60.67
6	80	\$32.46	\$12.30	\$17.64	\$0.30	\$62.70
7	90	\$36.51	\$12.30	\$17.64	\$0.30	\$66.75

Notes:

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

Apprentice to Journeyworker Ratio:1:3

CHAIN SAW OPERATOR <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	12/04/2017	\$30.75	\$7.70	\$13.01	\$0.00	\$51.46
	06/04/2018	\$31.53	\$7.70	\$13.01	\$0.00	\$52.24
	12/03/2018	\$32.30	\$7.70	\$13.01	\$0.00	\$53.01
	06/03/2019	\$33.11	\$7.70	\$13.01	\$0.00	\$53.82
	12/02/2019	\$33.92	\$7.70	\$13.01	\$0.00	\$54.63

For apprentice rates see "Apprentice- LABORER"

COMPRESSOR OPERATOR <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$33.65	\$10.99	\$13.12	\$0.00	\$57.76
	06/01/2018	\$34.26	\$10.99	\$13.39	\$0.00	\$58.64
	12/01/2018	\$34.86	\$10.99	\$13.66	\$0.00	\$59.51
	06/01/2019	\$35.37	\$10.99	\$13.93	\$0.00	\$60.29
	12/01/2019	\$35.97	\$10.99	\$14.20	\$0.00	\$61.16

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

CRANE OPERATOR <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$37.68	\$10.99	\$13.12	\$0.00	\$61.79
	06/01/2018	\$38.29	\$10.99	\$13.39	\$0.00	\$62.67
	12/01/2018	\$38.89	\$10.99	\$13.66	\$0.00	\$63.54
	06/01/2019	\$39.40	\$10.99	\$13.93	\$0.00	\$64.32
	12/01/2019	\$40.00	\$10.99	\$14.20	\$0.00	\$65.19

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

DELEADER (BRIDGE) <i>PAINTERS LOCAL 35 - ZONE 3</i>	01/01/2017	\$51.41	\$7.85	\$16.10	\$0.00	\$75.36
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Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER Local 35 - BRIDGES/TANKS

Effective Date - 01/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.71	\$7.85	\$0.00	\$0.00	\$33.56
2	55	\$28.28	\$7.85	\$3.66	\$0.00	\$39.79
3	60	\$30.85	\$7.85	\$3.99	\$0.00	\$42.69
4	65	\$33.42	\$7.85	\$4.32	\$0.00	\$45.59
5	70	\$35.99	\$7.85	\$14.11	\$0.00	\$57.95
6	75	\$38.56	\$7.85	\$14.44	\$0.00	\$60.85
7	80	\$41.13	\$7.85	\$14.77	\$0.00	\$63.75
8	90	\$46.27	\$7.85	\$15.44	\$0.00	\$69.56

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

DEMO: ADZEMAN <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	12/01/2017	\$37.65	\$7.70	\$14.75	\$0.00	\$60.10
	06/01/2018	\$38.60	\$7.70	\$14.75	\$0.00	\$61.05
	12/01/2018	\$39.55	\$7.70	\$14.75	\$0.00	\$62.00
	06/01/2019	\$40.55	\$7.70	\$14.75	\$0.00	\$63.00
	12/01/2019	\$41.55	\$7.70	\$14.75	\$0.00	\$64.00

For apprentice rates see "Apprentice- LABORER"

DEMO: BACKHOE/LOADER/HAMMER OPERATOR <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	12/01/2017	\$38.65	\$7.70	\$14.75	\$0.00	\$61.10
	06/01/2018	\$39.60	\$7.70	\$14.75	\$0.00	\$62.05
	12/01/2018	\$40.55	\$7.70	\$14.75	\$0.00	\$63.00
	06/01/2019	\$41.55	\$7.70	\$14.75	\$0.00	\$64.00
	12/01/2019	\$42.55	\$7.70	\$14.75	\$0.00	\$65.00

For apprentice rates see "Apprentice- LABORER"

DEMO: BURNERS <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	12/01/2017	\$38.40	\$7.70	\$14.75	\$0.00	\$60.85
	06/01/2018	\$39.35	\$7.70	\$14.75	\$0.00	\$61.80
	12/01/2018	\$40.30	\$7.70	\$14.75	\$0.00	\$62.75
	06/01/2019	\$41.30	\$7.70	\$14.75	\$0.00	\$63.75
	12/01/2019	\$42.30	\$7.70	\$14.75	\$0.00	\$64.75

For apprentice rates see "Apprentice- LABORER"

DEMO: CONCRETE CUTTER/SAWYER <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	12/01/2017	\$38.65	\$7.70	\$14.75	\$0.00	\$61.10
	06/01/2018	\$39.60	\$7.70	\$14.75	\$0.00	\$62.05
	12/01/2018	\$40.55	\$7.70	\$14.75	\$0.00	\$63.00
	06/01/2019	\$41.55	\$7.70	\$14.75	\$0.00	\$64.00
	12/01/2019	\$42.55	\$7.70	\$14.75	\$0.00	\$65.00

For apprentice rates see "Apprentice- LABORER"

DEMO: JACKHAMMER OPERATOR <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	12/01/2017	\$38.40	\$7.70	\$14.75	\$0.00	\$60.85
	06/01/2018	\$39.35	\$7.70	\$14.75	\$0.00	\$61.80
	12/01/2018	\$40.30	\$7.70	\$14.75	\$0.00	\$62.75
	06/01/2019	\$41.30	\$7.70	\$14.75	\$0.00	\$63.75
	12/01/2019	\$42.30	\$7.70	\$14.75	\$0.00	\$64.75

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- LABORER"						
DEMO: WRECKING LABORER <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	12/01/2017	\$37.65	\$7.70	\$14.75	\$0.00	\$60.10
	06/01/2018	\$38.60	\$7.70	\$14.75	\$0.00	\$61.05
	12/01/2018	\$39.55	\$7.70	\$14.75	\$0.00	\$62.00
	06/01/2019	\$40.55	\$7.70	\$14.75	\$0.00	\$63.00
	12/01/2019	\$41.55	\$7.70	\$14.75	\$0.00	\$64.00
For apprentice rates see "Apprentice- LABORER"						
DIVER <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2017	\$61.98	\$9.90	\$21.15	\$0.00	\$93.03
	08/01/2018	\$65.20	\$9.90	\$21.15	\$0.00	\$96.25
	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>	08/01/2017	\$44.27	\$9.90	\$21.15	\$0.00	\$75.32
	08/01/2018	\$46.57	\$9.90	\$21.15	\$0.00	\$77.62
	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>	08/01/2017	\$66.41	\$9.90	\$21.15	\$0.00	\$97.46
	08/01/2018	\$69.86	\$9.90	\$21.15	\$0.00	\$100.91
	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>	08/01/2017	\$92.97	\$9.90	\$21.15	\$0.00	\$124.02
	08/01/2018	\$97.80	\$9.90	\$21.15	\$0.00	\$128.85
	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>	12/31/2017	\$40.51	\$10.00	\$11.42	\$0.00	\$61.93
	07/01/2018	\$41.21	\$10.25	\$11.74	\$0.00	\$63.20
	12/30/2018	\$41.91	\$10.50	\$12.06	\$0.00	\$64.47
	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

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - ELECTRICIAN - Local 7

Effective Date - 12/31/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$16.20	\$5.40	\$0.49	\$0.00	\$22.09
2	45	\$18.23	\$5.40	\$0.55	\$0.00	\$24.18
3	50	\$20.26	\$10.00	\$6.91	\$0.00	\$37.17
4	55	\$22.28	\$10.00	\$6.97	\$0.00	\$39.25
5	65	\$26.33	\$10.00	\$8.09	\$0.00	\$44.42
6	70	\$28.36	\$10.00	\$9.15	\$0.00	\$47.51

Effective Date - 07/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$16.48	\$5.55	\$0.49	\$0.00	\$22.52
2	45	\$18.54	\$5.55	\$0.56	\$0.00	\$24.65
3	50	\$20.61	\$10.25	\$6.92	\$0.00	\$37.78
4	55	\$22.67	\$10.25	\$6.98	\$0.00	\$39.90
5	65	\$26.79	\$10.25	\$8.10	\$0.00	\$45.14
6	70	\$28.85	\$10.25	\$9.17	\$0.00	\$48.27

Notes:

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

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

ELEVATOR CONSTRUCTOR	01/01/2017	\$49.90	\$15.28	\$15.71	\$0.00	\$80.89
<i>ELEVATOR CONSTRUCTORS LOCAL 41</i>						

Apprentice - ELEVATOR CONSTRUCTOR - Local 41

Effective Date - 01/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.95	\$15.28	\$15.71	\$0.00	\$55.94
2	55	\$27.45	\$15.28	\$15.71	\$0.00	\$58.44
3	65	\$32.44	\$15.28	\$15.71	\$0.00	\$63.43
4	70	\$34.93	\$15.28	\$15.71	\$0.00	\$65.92
5	80	\$39.92	\$15.28	\$15.71	\$0.00	\$70.91

Notes:

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

Apprentice to Journeyworker Ratio:1:1

ELEVATOR CONSTRUCTOR HELPER	01/01/2017	\$34.93	\$15.28	\$15.71	\$0.00	\$65.92
<i>ELEVATOR CONSTRUCTORS LOCAL 41</i>						

For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY & HIGHWAY)</i>	12/01/2017	\$30.75	\$7.70	\$11.01	\$0.00	\$49.46
	06/01/2018	\$31.52	\$7.70	\$11.01	\$0.00	\$50.23
	12/01/2018	\$32.28	\$7.70	\$11.01	\$0.00	\$50.99
	06/01/2019	\$33.07	\$7.70	\$11.01	\$0.00	\$51.78
	12/01/2019	\$33.86	\$7.70	\$11.01	\$0.00	\$52.57
	06/01/2020	\$34.67	\$7.70	\$11.01	\$0.00	\$53.38
	12/01/2020	\$35.48	\$7.70	\$11.01	\$0.00	\$54.19
	06/01/2021	\$36.32	\$7.70	\$11.01	\$0.00	\$55.03
	12/01/2021	\$37.15	\$7.70	\$11.01	\$0.00	\$55.86
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
FIELD ENG.INST/ROD-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/1999	\$18.84	\$4.80	\$4.10	\$0.00	\$27.74
FIELD ENG.PARTY CHIEF:BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/1999	\$21.33	\$4.80	\$4.10	\$0.00	\$30.23
FIELD ENG.SURVEY CHIEF-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/1999	\$22.33	\$4.80	\$4.10	\$0.00	\$31.23
FIRE ALARM INSTALLER <i>ELECTRICIANS LOCAL 7</i>	12/31/2017	\$40.51	\$10.00	\$11.42	\$0.00	\$61.93
	07/01/2018	\$41.21	\$10.25	\$11.74	\$0.00	\$63.20
	12/30/2018	\$41.91	\$10.50	\$12.06	\$0.00	\$64.47
	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"						
FIRE ALARM REPAIR / MAINTENANCE / COMMISSIONING <i>ELECTRICIANS LOCAL 7</i>	12/31/2017	\$40.51	\$10.00	\$11.42	\$0.00	\$61.93
	07/01/2018	\$41.21	\$10.25	\$11.74	\$0.00	\$63.20
	12/30/2018	\$41.91	\$10.50	\$12.06	\$0.00	\$64.47
	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- TELECOMMUNICATIONS TECHNICIAN"						
FIREMAN <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$33.65	\$10.99	\$13.12	\$0.00	\$57.76
	06/01/2018	\$34.26	\$10.99	\$13.39	\$0.00	\$58.64
	12/01/2018	\$34.86	\$10.99	\$13.66	\$0.00	\$59.51
	06/01/2019	\$35.37	\$10.99	\$13.93	\$0.00	\$60.29
	12/01/2019	\$35.97	\$10.99	\$14.20	\$0.00	\$61.16

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - OPERATING ENGINEERS - Local 98 Class 3

Effective Date - 12/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$20.19	\$10.99	\$13.12	\$0.00	\$44.30
2	70	\$23.56	\$10.99	\$13.12	\$0.00	\$47.67
3	80	\$26.92	\$10.99	\$13.12	\$0.00	\$51.03
4	90	\$30.29	\$10.99	\$13.12	\$0.00	\$54.40

Effective Date - 06/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$20.56	\$10.99	\$13.39	\$0.00	\$44.94
2	70	\$23.98	\$10.99	\$13.39	\$0.00	\$48.36
3	80	\$27.41	\$10.99	\$13.39	\$0.00	\$51.79
4	90	\$30.83	\$10.99	\$13.39	\$0.00	\$55.21

Notes:

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

Apprentice to Journeyworker Ratio:1:6

FLAGGER & SIGNALER (HEAVY & HIGHWAY)	12/01/2017	\$21.50	\$7.70	\$11.01	\$0.00	\$40.21
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	06/01/2018	\$21.50	\$7.70	\$11.01	\$0.00	\$40.21
	12/01/2018	\$22.50	\$7.70	\$11.01	\$0.00	\$41.21
	06/01/2019	\$22.50	\$7.70	\$11.01	\$0.00	\$41.21
	12/01/2019	\$23.50	\$7.70	\$11.01	\$0.00	\$42.21
	06/01/2020	\$23.50	\$7.70	\$11.01	\$0.00	\$42.21
	12/01/2020	\$24.50	\$7.70	\$11.01	\$0.00	\$43.21
	06/01/2021	\$24.50	\$7.70	\$11.01	\$0.00	\$43.21
	12/01/2021	\$24.50	\$7.70	\$11.01	\$0.00	\$43.21

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

FLOORCOVERER	03/01/2016	\$32.60	\$8.55	\$14.42	\$0.00	\$55.57
FLOORCOVERERS LOCAL 2168 ZONE III						

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - FLOORCOVERER - Local 2168 Zone III

Effective Date - 03/01/2016

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$16.30	\$8.55	\$1.20	\$0.00	\$26.05
2	55	\$17.93	\$8.55	\$1.20	\$0.00	\$27.68
3	60	\$19.56	\$8.55	\$10.82	\$0.00	\$38.93
4	65	\$21.19	\$8.55	\$10.82	\$0.00	\$40.56
5	70	\$22.82	\$8.55	\$12.02	\$0.00	\$43.39
6	75	\$24.45	\$8.55	\$12.02	\$0.00	\$45.02
7	80	\$26.08	\$8.55	\$13.22	\$0.00	\$47.85
8	85	\$27.71	\$8.55	\$13.22	\$0.00	\$49.48

Notes: Steps are 750 hrs.
 % After 09/1/17; 45/45/55/55/70/70/80/80 (1500hr Steps)
 Step 1&2 \$24.42/ 3&4 \$28.84/ 5&6 \$43.39/ 7&8 \$47.85

Apprentice to Journeyworker Ratio:1:1

FORK LIFT <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$33.87	\$10.99	\$13.12	\$0.00	\$57.98
	06/01/2018	\$34.48	\$10.99	\$13.39	\$0.00	\$58.86
	12/01/2018	\$35.08	\$10.99	\$13.66	\$0.00	\$59.73
	06/01/2019	\$35.59	\$10.99	\$13.93	\$0.00	\$60.51
	12/01/2019	\$36.19	\$10.99	\$14.20	\$0.00	\$61.38

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

GENERATORS/LIGHTING PLANTS <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$30.42	\$10.99	\$13.12	\$0.00	\$54.53
	06/01/2018	\$31.03	\$10.99	\$13.39	\$0.00	\$55.41
	12/01/2018	\$31.63	\$10.99	\$13.66	\$0.00	\$56.28
	06/01/2019	\$32.14	\$10.99	\$13.93	\$0.00	\$57.06
	12/01/2019	\$32.74	\$10.99	\$14.20	\$0.00	\$57.93

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS) <i>GLAZIERS LOCAL 1333</i>	06/01/2017	\$36.28	\$10.25	\$8.95	\$0.00	\$55.48
	06/01/2018	\$37.18	\$10.40	\$9.35	\$0.00	\$56.93
	06/01/2019	\$38.18	\$10.60	\$9.90	\$0.00	\$58.68
	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 - 06/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$18.14	\$10.25	\$1.45	\$0.00	\$29.84
2	56	\$20.41	\$10.25	\$1.45	\$0.00	\$32.11
3	63	\$22.68	\$10.25	\$1.95	\$0.00	\$34.88
4	69	\$24.94	\$10.25	\$1.95	\$0.00	\$37.14
5	75	\$27.21	\$10.25	\$2.45	\$0.00	\$39.91
6	81	\$29.48	\$10.25	\$2.45	\$0.00	\$42.18
7	88	\$31.75	\$10.25	\$8.95	\$0.00	\$50.95
8	94	\$34.01	\$10.25	\$8.95	\$0.00	\$53.21

Effective Date - 06/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$18.59	\$10.40	\$1.60	\$0.00	\$30.59
2	56	\$20.91	\$10.40	\$1.60	\$0.00	\$32.91
3	63	\$23.24	\$10.40	\$2.10	\$0.00	\$35.74
4	69	\$25.56	\$10.40	\$2.10	\$0.00	\$38.06
5	75	\$27.89	\$10.40	\$2.60	\$0.00	\$40.89
6	81	\$30.21	\$10.40	\$2.60	\$0.00	\$43.21
7	88	\$32.53	\$10.40	\$9.35	\$0.00	\$52.28
8	94	\$34.86	\$10.40	\$9.35	\$0.00	\$54.61

Notes:

Apprentice to Journeyworker Ratio:1:3

GRADER/TRENCHING MACHINE/DERRICK <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$34.18	\$10.99	\$13.12	\$0.00	\$58.29
	06/01/2018	\$34.79	\$10.99	\$13.39	\$0.00	\$59.17
	12/01/2018	\$35.39	\$10.99	\$13.66	\$0.00	\$60.04
	06/01/2019	\$35.90	\$10.99	\$13.93	\$0.00	\$60.82
	12/01/2019	\$36.50	\$10.99	\$14.20	\$0.00	\$61.69

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

HVAC (DUCTWORK) <i>SHEETMETAL WORKERS LOCAL 63</i>	01/01/2018	\$32.99	\$10.64	\$16.22	\$1.77	\$61.62
	07/01/2018	\$33.74	\$10.64	\$16.22	\$1.77	\$62.37
	01/01/2019	\$34.74	\$10.64	\$16.22	\$1.77	\$63.37
	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>	12/31/2017	\$40.51	\$10.00	\$11.42	\$0.00	\$61.93
	07/01/2018	\$41.21	\$10.25	\$11.74	\$0.00	\$63.20
	12/30/2018	\$41.91	\$10.50	\$12.06	\$0.00	\$64.47
	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"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
HVAC (TESTING AND BALANCING - AIR) <i>SHEETMETAL WORKERS LOCAL 63</i>	01/01/2018	\$32.99	\$10.64	\$16.22	\$1.77	\$61.62
	07/01/2018	\$33.74	\$10.64	\$16.22	\$1.77	\$62.37
	01/01/2019	\$34.74	\$10.64	\$16.22	\$1.77	\$63.37
	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 (TESTING AND BALANCING -WATER) <i>PLUMBERS & PIPEFITTERS LOCAL 104</i>	09/17/2017	\$39.26	\$8.50	\$15.30	\$0.00	\$63.06
	03/17/2018	\$39.51	\$8.50	\$15.80	\$0.00	\$63.81
	09/17/2018	\$40.26	\$8.50	\$15.80	\$0.00	\$64.56
	03/17/2019	\$41.01	\$8.50	\$15.80	\$0.00	\$65.31
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
HVAC MECHANIC <i>PLUMBERS & PIPEFITTERS LOCAL 104</i>	09/17/2017	\$39.26	\$8.50	\$15.30	\$0.00	\$63.06
	03/17/2018	\$39.51	\$8.50	\$15.80	\$0.00	\$63.81
	09/17/2018	\$40.26	\$8.50	\$15.80	\$0.00	\$64.56
	03/17/2019	\$41.01	\$8.50	\$15.80	\$0.00	\$65.31
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
HYDRAULIC DRILLS (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY & HIGHWAY)</i>	12/01/2017	\$31.25	\$7.70	\$11.01	\$0.00	\$49.96
	06/01/2018	\$32.02	\$7.70	\$11.01	\$0.00	\$50.73
	12/01/2018	\$32.78	\$7.70	\$11.01	\$0.00	\$51.49
	06/01/2019	\$33.57	\$7.70	\$11.01	\$0.00	\$52.28
	12/01/2019	\$34.36	\$7.70	\$11.01	\$0.00	\$53.07
	06/01/2020	\$35.17	\$7.70	\$11.01	\$0.00	\$53.88
	12/01/2020	\$35.98	\$7.70	\$11.01	\$0.00	\$54.69
	06/01/2021	\$36.82	\$7.70	\$11.01	\$0.00	\$55.53
12/01/2021	\$37.65	\$7.70	\$11.01	\$0.00	\$56.36	
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
INSULATOR (PIPES & TANKS) <i>HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)</i>	09/01/2017	\$37.67	\$11.75	\$14.20	\$0.00	\$63.62
	09/01/2018	\$39.47	\$11.75	\$14.20	\$0.00	\$65.42
	09/01/2019	\$41.47	\$11.75	\$14.20	\$0.00	\$67.42

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

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

Effective Date - 09/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$18.84	\$11.75	\$10.45	\$0.00	\$41.04
2	60	\$22.60	\$11.75	\$11.20	\$0.00	\$45.55
3	70	\$26.37	\$11.75	\$11.95	\$0.00	\$50.07
4	80	\$30.14	\$11.75	\$12.70	\$0.00	\$54.59

Effective Date - 09/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.74	\$11.75	\$10.45	\$0.00	\$41.94
2	60	\$23.68	\$11.75	\$11.20	\$0.00	\$46.63
3	70	\$27.63	\$11.75	\$11.95	\$0.00	\$51.33
4	80	\$31.58	\$11.75	\$12.70	\$0.00	\$56.03

Notes:

Steps are 1 year

Apprentice to Journeyworker Ratio:1:4

IRONWORKER/WELDER <i>IRONWORKERS LOCAL 7 (SPRINGFIELD AREA)</i>	03/16/2017	\$32.39	\$7.80	\$19.60	\$0.00	\$59.79
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Apprentice - IRONWORKER - Local 7 Springfield

Effective Date - 03/16/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$19.43	\$7.80	\$19.60	\$0.00	\$46.83
2	70	\$22.67	\$7.80	\$19.60	\$0.00	\$50.07
3	75	\$24.29	\$7.80	\$19.60	\$0.00	\$51.69
4	80	\$25.91	\$7.80	\$19.60	\$0.00	\$53.31
5	85	\$27.53	\$7.80	\$19.60	\$0.00	\$54.93
6	90	\$29.15	\$7.80	\$19.60	\$0.00	\$56.55

Notes:

Structural 1:6; Ornamental 1:4

Apprentice to Journeyworker Ratio:

JACKHAMMER & PAVING BREAKER OPERATOR <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	12/04/2017	\$30.75	\$7.70	\$13.01	\$0.00	\$51.46
	06/04/2018	\$31.53	\$7.70	\$13.01	\$0.00	\$52.24
	12/03/2018	\$32.30	\$7.70	\$13.01	\$0.00	\$53.01
	06/03/2019	\$33.11	\$7.70	\$13.01	\$0.00	\$53.82
	12/02/2019	\$33.92	\$7.70	\$13.01	\$0.00	\$54.63

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LABORER	12/04/2017	\$30.50	\$7.70	\$13.01	\$0.00	\$51.21
LABORERS - ZONE 3 (BUILDING & SITE)	06/04/2018	\$31.28	\$7.70	\$13.01	\$0.00	\$51.99
	12/03/2018	\$32.05	\$7.70	\$13.01	\$0.00	\$52.76
	06/03/2019	\$32.86	\$7.70	\$13.01	\$0.00	\$53.57
	12/02/2019	\$33.67	\$7.70	\$13.01	\$0.00	\$54.38

Apprentice - LABORER - Zone 3 Building & Site

Effective Date - 12/04/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$18.30	\$7.70	\$13.01	\$0.00	\$39.01
2	70	\$21.35	\$7.70	\$13.01	\$0.00	\$42.06
3	80	\$24.40	\$7.70	\$13.01	\$0.00	\$45.11
4	90	\$27.45	\$7.70	\$13.01	\$0.00	\$48.16

Effective Date - 06/04/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$18.77	\$7.70	\$13.01	\$0.00	\$39.48
2	70	\$21.90	\$7.70	\$13.01	\$0.00	\$42.61
3	80	\$25.02	\$7.70	\$13.01	\$0.00	\$45.73
4	90	\$28.15	\$7.70	\$13.01	\$0.00	\$48.86

Notes:

Apprentice to Journeyworker Ratio:1:5

LABORER (HEAVY & HIGHWAY)	12/01/2017	\$30.50	\$7.70	\$11.01	\$0.00	\$49.21
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	06/01/2018	\$31.27	\$7.70	\$11.01	\$0.00	\$49.98
	12/01/2018	\$32.03	\$7.70	\$11.01	\$0.00	\$50.74
	06/01/2019	\$32.82	\$7.70	\$11.01	\$0.00	\$51.53
	12/01/2019	\$33.61	\$7.70	\$11.01	\$0.00	\$52.32
	06/01/2020	\$34.42	\$7.70	\$11.01	\$0.00	\$53.13
	12/01/2020	\$35.23	\$7.70	\$11.01	\$0.00	\$53.94
	06/01/2021	\$36.07	\$7.70	\$11.01	\$0.00	\$54.78
	12/01/2021	\$36.90	\$7.70	\$11.01	\$0.00	\$55.61

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - LABORER (Heavy & Highway) - Zone 3

Effective Date - 12/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$18.30	\$7.70	\$11.01	\$0.00	\$37.01
2	70	\$21.35	\$7.70	\$11.01	\$0.00	\$40.06
3	80	\$24.40	\$7.70	\$11.01	\$0.00	\$43.11
4	90	\$27.45	\$7.70	\$11.01	\$0.00	\$46.16

Effective Date - 06/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$18.76	\$7.70	\$11.01	\$0.00	\$37.47
2	70	\$21.89	\$7.70	\$11.01	\$0.00	\$40.60
3	80	\$25.02	\$7.70	\$11.01	\$0.00	\$43.73
4	90	\$28.14	\$7.70	\$11.01	\$0.00	\$46.85

Notes:

Apprentice to Journeyworker Ratio:1:5

LABORER: CARPENTER TENDER <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	12/04/2017	\$30.50	\$7.70	\$13.01	\$0.00	\$51.21
	06/04/2018	\$31.28	\$7.70	\$13.01	\$0.00	\$51.99
	12/03/2018	\$32.05	\$7.70	\$13.01	\$0.00	\$52.76
	06/03/2019	\$32.86	\$7.70	\$13.01	\$0.00	\$53.57
	12/02/2019	\$33.67	\$7.70	\$13.01	\$0.00	\$54.38

For apprentice rates see "Apprentice- LABORER"

LABORER: CEMENT FINISHER TENDER <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	12/04/2017	\$30.75	\$7.70	\$13.01	\$0.00	\$51.46
	06/04/2018	\$31.53	\$7.70	\$13.01	\$0.00	\$52.24
	12/03/2018	\$32.30	\$7.70	\$13.01	\$0.00	\$53.01
	06/03/2019	\$33.11	\$7.70	\$13.01	\$0.00	\$53.82
	12/02/2019	\$33.92	\$7.70	\$13.01	\$0.00	\$54.63

For apprentice rates see "Apprentice- LABORER"

LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	12/01/2017	\$30.60	\$7.70	\$13.01	\$0.00	\$51.31
	06/01/2018	\$31.38	\$7.70	\$13.01	\$0.00	\$52.09
	12/01/2018	\$32.15	\$7.70	\$13.01	\$0.00	\$52.86
	06/01/2019	\$32.96	\$7.70	\$13.01	\$0.00	\$53.67
	12/01/2019	\$33.77	\$7.70	\$13.01	\$0.00	\$54.48

For apprentice rates see "Apprentice- LABORER"

LABORER: MASON TENDER <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	12/04/2017	\$31.50	\$7.70	\$13.01	\$0.00	\$52.21
	06/04/2018	\$32.28	\$7.70	\$13.01	\$0.00	\$52.99
	12/03/2018	\$33.05	\$7.70	\$13.01	\$0.00	\$53.76
	06/03/2019	\$33.86	\$7.70	\$13.01	\$0.00	\$54.57
	12/02/2019	\$34.67	\$7.70	\$13.01	\$0.00	\$55.38

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LABORER: MASON TENDER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY & HIGHWAY)</i>	12/01/2017	\$30.75	\$7.70	\$11.01	\$0.00	\$49.46
	06/01/2018	\$31.52	\$7.70	\$11.01	\$0.00	\$50.23
	12/01/2018	\$32.28	\$7.70	\$11.01	\$0.00	\$50.99
	06/01/2019	\$33.07	\$7.70	\$11.01	\$0.00	\$51.78
	12/01/2019	\$33.86	\$7.70	\$11.01	\$0.00	\$52.57
	06/01/2020	\$34.67	\$7.70	\$11.01	\$0.00	\$53.38
	12/01/2020	\$35.48	\$7.70	\$11.01	\$0.00	\$54.19
	06/01/2021	\$36.32	\$7.70	\$11.01	\$0.00	\$55.03
	12/01/2021	\$37.15	\$7.70	\$11.01	\$0.00	\$55.86
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
LABORER: MULTI-TRADE TENDER <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	12/04/2017	\$30.50	\$7.70	\$13.01	\$0.00	\$51.21
	06/04/2018	\$31.28	\$7.70	\$13.01	\$0.00	\$51.99
	12/03/2018	\$32.05	\$7.70	\$13.01	\$0.00	\$52.76
	06/03/2019	\$32.86	\$7.70	\$13.01	\$0.00	\$53.57
	12/02/2019	\$33.67	\$7.70	\$13.01	\$0.00	\$54.38
For apprentice rates see "Apprentice- LABORER"						
LABORER: TREE REMOVER <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	12/04/2017	\$30.50	\$7.70	\$13.01	\$0.00	\$51.21
	06/04/2018	\$31.28	\$7.70	\$13.01	\$0.00	\$51.99
	12/03/2018	\$32.05	\$7.70	\$13.01	\$0.00	\$52.76
	06/03/2019	\$32.86	\$7.70	\$13.01	\$0.00	\$53.57
	12/02/2019	\$33.67	\$7.70	\$13.01	\$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 & SITE)</i>	12/04/2017	\$30.75	\$7.70	\$13.01	\$0.00	\$51.46
	06/04/2018	\$31.53	\$7.70	\$13.01	\$0.00	\$52.24
	12/03/2018	\$32.30	\$7.70	\$13.01	\$0.00	\$53.01
	06/03/2019	\$33.11	\$7.70	\$13.01	\$0.00	\$53.82
	12/02/2019	\$33.92	\$7.70	\$13.01	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						
LASER BEAM OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY & HIGHWAY)</i>	12/01/2017	\$30.75	\$7.70	\$11.01	\$0.00	\$49.46
	06/01/2018	\$31.52	\$7.70	\$11.01	\$0.00	\$50.23
	12/01/2018	\$32.28	\$7.70	\$11.01	\$0.00	\$50.99
	06/01/2019	\$33.07	\$7.70	\$11.01	\$0.00	\$51.78
	12/01/2019	\$33.86	\$7.70	\$11.01	\$0.00	\$52.57
	06/01/2020	\$34.67	\$7.70	\$11.01	\$0.00	\$53.38
	12/01/2020	\$35.48	\$7.70	\$11.01	\$0.00	\$54.19
	06/01/2021	\$36.32	\$7.70	\$11.01	\$0.00	\$55.03
	12/01/2021	\$37.15	\$7.70	\$11.01	\$0.00	\$55.86
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
MARBLE & TILE FINISHERS <i>BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE</i>	03/01/2018	\$33.67	\$10.75	\$17.65	\$0.00	\$62.07
	08/01/2018	\$34.67	\$10.75	\$17.76	\$0.00	\$63.18
	02/01/2019	\$35.17	\$10.75	\$17.76	\$0.00	\$63.68
	08/01/2019	\$36.17	\$10.75	\$17.87	\$0.00	\$64.79
	02/01/2020	\$36.67	\$10.75	\$17.87	\$0.00	\$65.29
	08/01/2020	\$37.67	\$10.75	\$17.99	\$0.00	\$66.41
	02/01/2021	\$38.17	\$10.75	\$17.99	\$0.00	\$66.91
	08/01/2021	\$39.17	\$10.75	\$18.12	\$0.00	\$68.04
	02/01/2022	\$39.62	\$10.75	\$18.12	\$0.00	\$68.49

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

Effective Date - 03/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$16.84	\$10.75	\$17.65	\$0.00	\$45.24
2	60	\$20.20	\$10.75	\$17.65	\$0.00	\$48.60
3	70	\$23.57	\$10.75	\$17.65	\$0.00	\$51.97
4	80	\$26.94	\$10.75	\$17.65	\$0.00	\$55.34
5	90	\$30.30	\$10.75	\$17.65	\$0.00	\$58.70

Notes:

Apprentice to Journeyworker Ratio:1:5

MARBLE MASONS, TILELAYERS & TERRAZZO MECH <i>BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE</i>	02/01/2018	\$52.10	\$10.75	\$20.03	\$0.00	\$82.88
	08/01/2018	\$53.45	\$10.75	\$20.16	\$0.00	\$84.36
	02/01/2019	\$54.07	\$10.75	\$20.16	\$0.00	\$84.98
	08/01/2019	\$55.42	\$10.75	\$20.30	\$0.00	\$86.47
	02/01/2020	\$56.05	\$10.75	\$20.30	\$0.00	\$87.10
	08/01/2020	\$57.40	\$10.75	\$20.45	\$0.00	\$88.60
	02/01/2021	\$58.04	\$10.75	\$20.45	\$0.00	\$89.24
	08/01/2021	\$59.44	\$10.75	\$20.61	\$0.00	\$90.80
	02/01/2022	\$60.01	\$10.75	\$20.61	\$0.00	\$91.37

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

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

Effective Date - 02/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.05	\$10.75	\$20.03	\$0.00	\$56.83
2	60	\$31.26	\$10.75	\$20.03	\$0.00	\$62.04
3	70	\$36.47	\$10.75	\$20.03	\$0.00	\$67.25
4	80	\$41.68	\$10.75	\$20.03	\$0.00	\$72.46
5	90	\$46.89	\$10.75	\$20.03	\$0.00	\$77.67

Effective Date - 08/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.73	\$10.75	\$20.16	\$0.00	\$57.64
2	60	\$32.07	\$10.75	\$20.16	\$0.00	\$62.98
3	70	\$37.42	\$10.75	\$20.16	\$0.00	\$68.33
4	80	\$42.76	\$10.75	\$20.16	\$0.00	\$73.67
5	90	\$48.11	\$10.75	\$20.16	\$0.00	\$79.02

Notes:

Apprentice to Journeyworker Ratio:1:5

MECH. SWEEPER OPERATOR (ON CONST. SITES) <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$34.18	\$10.99	\$13.12	\$0.00	\$58.29
	06/01/2018	\$34.79	\$10.99	\$13.39	\$0.00	\$59.17
	12/01/2018	\$35.39	\$10.99	\$13.66	\$0.00	\$60.04
	06/01/2019	\$35.90	\$10.99	\$13.93	\$0.00	\$60.82
	12/01/2019	\$36.50	\$10.99	\$14.20	\$0.00	\$61.69

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

MECHANIC/WELDER/BOOM TRUCK <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$33.65	\$10.99	\$13.12	\$0.00	\$57.76
	06/01/2018	\$34.26	\$10.99	\$13.39	\$0.00	\$58.64
	12/01/2018	\$34.86	\$10.99	\$13.66	\$0.00	\$59.51
	06/01/2019	\$35.37	\$10.99	\$13.93	\$0.00	\$60.29
	12/01/2019	\$35.97	\$10.99	\$14.20	\$0.00	\$61.16

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

MILLWRIGHT (Zone 3) <i>MILLWRIGHTS LOCAL 1121 - Zone 3</i>	10/01/2017	\$34.64	\$9.90	\$18.50	\$0.00	\$63.04
	04/01/2018	\$35.46	\$9.90	\$18.50	\$0.00	\$63.86
	10/01/2018	\$36.29	\$9.90	\$18.50	\$0.00	\$64.69
	04/01/2019	\$37.11	\$9.90	\$18.50	\$0.00	\$65.51

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - MILLWRIGHT - Local 1121 Zone 3

Effective Date - 10/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$19.05	\$9.90	\$5.31	\$0.00	\$34.26
2	65	\$22.52	\$9.90	\$15.13	\$0.00	\$47.55
3	75	\$25.98	\$9.90	\$16.10	\$0.00	\$51.98
4	85	\$29.44	\$9.90	\$17.06	\$0.00	\$56.40

Effective Date - 04/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$19.50	\$9.90	\$5.31	\$0.00	\$34.71
2	65	\$23.05	\$9.90	\$15.13	\$0.00	\$48.08
3	75	\$26.60	\$9.90	\$16.10	\$0.00	\$52.60
4	85	\$30.14	\$9.90	\$17.06	\$0.00	\$57.10

Notes:

Steps are 2,000 hours

Apprentice to Journeyworker Ratio:1:5

MORTAR MIXER	12/04/2017	\$30.75	\$7.70	\$13.01	\$0.00	\$51.46
<i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	06/04/2018	\$31.53	\$7.70	\$13.01	\$0.00	\$52.24
	12/03/2018	\$32.30	\$7.70	\$13.01	\$0.00	\$53.01
	06/03/2019	\$33.11	\$7.70	\$13.01	\$0.00	\$53.82
	12/02/2019	\$33.92	\$7.70	\$13.01	\$0.00	\$54.63

For apprentice rates see "Apprentice- LABORER"

OILER	12/01/2017	\$29.34	\$10.99	\$13.12	\$0.00	\$53.45
<i>OPERATING ENGINEERS LOCAL 98</i>	06/01/2018	\$29.95	\$10.99	\$13.39	\$0.00	\$54.33
	12/01/2018	\$30.55	\$10.99	\$13.66	\$0.00	\$55.20
	06/01/2019	\$31.06	\$10.99	\$13.93	\$0.00	\$55.98
	12/01/2019	\$31.66	\$10.99	\$14.20	\$0.00	\$56.85

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

OTHER POWER DRIVEN EQUIPMENT - CLASS VI	12/01/2017	\$27.36	\$10.99	\$13.12	\$0.00	\$51.47
<i>OPERATING ENGINEERS LOCAL 98</i>	06/01/2018	\$27.97	\$10.99	\$13.39	\$0.00	\$52.35
	12/01/2018	\$28.57	\$10.99	\$13.66	\$0.00	\$53.22
	06/01/2019	\$29.08	\$10.99	\$13.93	\$0.00	\$54.00
	12/01/2019	\$29.68	\$10.99	\$14.20	\$0.00	\$54.87

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

PAINTER (BRIDGES/TANKS)	01/01/2017	\$51.41	\$7.85	\$16.10	\$0.00	\$75.36
<i>PAINTERS LOCAL 35 - ZONE 3</i>						

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER Local 35 - BRIDGES/TANKS

Effective Date - 01/01/2017

Table with 7 columns: Step, percent, Apprentice Base Wage, Health, Pension, Supplemental Unemployment, Total Rate. Rows 1-8 showing wage progression from \$25.71 to \$46.27.

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER (SPRAY OR SANDBLAST, NEW) * 01/01/2017 \$34.68 \$7.85 \$12.30 \$0.00 \$54.83

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

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

Effective Date - 01/01/2017

Table with 7 columns: Step, percent, Apprentice Base Wage, Health, Pension, Supplemental Unemployment, Total Rate. Rows 1-8 showing wage progression from \$17.34 to \$31.21.

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER (SPRAY OR SANDBLAST, REPAINT) 01/01/2017 \$32.00 \$7.85 \$12.30 \$0.00 \$52.15

PAINTERS LOCAL 35 - ZONE 3

Classification**Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate****Apprentice - PAINTER Local 35 Zone 3 - Spray/Sandblast - Repaint****Effective Date - 01/01/2017**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$16.00	\$7.85	\$0.00	\$0.00	\$23.85
2	55	\$17.60	\$7.85	\$1.57	\$0.00	\$27.02
3	60	\$19.20	\$7.85	\$1.71	\$0.00	\$28.76
4	65	\$20.80	\$7.85	\$1.85	\$0.00	\$30.50
5	70	\$22.40	\$7.85	\$11.45	\$0.00	\$41.70
6	75	\$24.00	\$7.85	\$11.59	\$0.00	\$43.44
7	80	\$25.60	\$7.85	\$11.73	\$0.00	\$45.18
8	90	\$28.80	\$7.85	\$12.02	\$0.00	\$48.67

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER / TAPER (BRUSH, NEW) *	01/01/2017	\$33.28	\$7.85	\$12.30	\$0.00	\$53.43
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* If 30% or more of surfaces to be painted are new construction,
NEW paint rate shall be used. PAINTERS LOCAL 35 - ZONE 3

Apprentice - PAINTER - Local 35 Zone 3 - BRUSH NEW**Effective Date - 01/01/2017**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$16.64	\$7.85	\$0.00	\$0.00	\$24.49
2	55	\$18.30	\$7.85	\$1.57	\$0.00	\$27.72
3	60	\$19.97	\$7.85	\$1.71	\$0.00	\$29.53
4	65	\$21.63	\$7.85	\$1.85	\$0.00	\$31.33
5	70	\$23.30	\$7.85	\$11.45	\$0.00	\$42.60
6	75	\$24.96	\$7.85	\$11.59	\$0.00	\$44.40
7	80	\$26.62	\$7.85	\$11.73	\$0.00	\$46.20
8	90	\$29.95	\$7.85	\$12.02	\$0.00	\$49.82

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER / TAPER (BRUSH, REPAINT)	01/01/2017	\$30.60	\$7.85	\$12.30	\$0.00	\$50.75
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PAINTERS LOCAL 35 - ZONE 3

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER Local 35 Zone 3 - BRUSH REPAINT

Effective Date - 01/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$15.30	\$7.85	\$0.00	\$0.00	\$23.15
2	55	\$16.83	\$7.85	\$1.57	\$0.00	\$26.25
3	60	\$18.36	\$7.85	\$1.71	\$0.00	\$27.92
4	65	\$19.89	\$7.85	\$1.85	\$0.00	\$29.59
5	70	\$21.42	\$7.85	\$11.45	\$0.00	\$40.72
6	75	\$22.95	\$7.85	\$11.59	\$0.00	\$42.39
7	80	\$24.48	\$7.85	\$11.73	\$0.00	\$44.06
8	90	\$27.54	\$7.85	\$12.02	\$0.00	\$47.41

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY) LABORERS - ZONE 3 (HEAVY & HIGHWAY)	12/01/2017	\$30.50	\$7.70	\$11.01	\$0.00	\$49.21
	06/01/2018	\$31.27	\$7.70	\$11.01	\$0.00	\$49.98
	12/01/2018	\$32.03	\$7.70	\$11.01	\$0.00	\$50.74
	06/01/2019	\$32.82	\$7.70	\$11.01	\$0.00	\$51.53
	12/01/2019	\$33.61	\$7.70	\$11.01	\$0.00	\$52.32
	06/01/2020	\$34.42	\$7.70	\$11.01	\$0.00	\$53.13
	12/01/2020	\$35.23	\$7.70	\$11.01	\$0.00	\$53.94
	06/01/2021	\$36.07	\$7.70	\$11.01	\$0.00	\$54.78
	12/01/2021	\$36.90	\$7.70	\$11.01	\$0.00	\$55.61

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

PANEL & PICKUP TRUCKS DRIVER TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	12/01/2012	\$30.28	\$9.07	\$8.00	\$0.00	\$47.35
PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK) PILE DRIVER LOCAL 56 (ZONE 3)	08/01/2017	\$39.42	\$9.90	\$21.15	\$0.00	\$70.47
	08/01/2018	\$41.57	\$9.90	\$21.15	\$0.00	\$72.62
	08/01/2019	\$43.79	\$9.90	\$21.15	\$0.00	\$74.84

For apprentice rates see "Apprentice- PILE DRIVER"

PILE DRIVER PILE DRIVER LOCAL 56 (ZONE 3)	08/01/2017	\$39.42	\$9.90	\$21.15	\$0.00	\$70.47
	08/01/2018	\$41.57	\$9.90	\$21.15	\$0.00	\$72.62
	08/01/2019	\$43.79	\$9.90	\$21.15	\$0.00	\$74.84

Apprentice - PILE DRIVER - Local 56 Zone 3

Effective Date - 08/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Notes: Apprentice wages shall be no less than the following Steps;
(Same as set in Zone 1)

1\$53.19/2\$57.61/3\$62.04/4\$64.25/5\$66.47/6\$66.47/7\$70.89/8\$70.89

Apprentice to Journeyworker Ratio:1:5

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PIPELAYER <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	12/04/2017	\$30.75	\$7.70	\$13.01	\$0.00	\$51.46
	06/04/2018	\$31.53	\$7.70	\$13.01	\$0.00	\$52.24
	12/03/2018	\$32.30	\$7.70	\$13.01	\$0.00	\$53.01
	06/03/2019	\$33.11	\$7.70	\$13.01	\$0.00	\$53.82
	12/02/2019	\$33.92	\$7.70	\$13.01	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						
PIPELAYER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY & HIGHWAY)</i>	12/01/2017	\$30.75	\$7.70	\$11.01	\$0.00	\$49.46
	06/01/2018	\$31.52	\$7.70	\$11.01	\$0.00	\$50.23
	12/01/2018	\$32.28	\$7.70	\$11.01	\$0.00	\$50.99
	06/01/2019	\$33.07	\$7.70	\$11.01	\$0.00	\$51.78
	12/01/2019	\$33.86	\$7.70	\$11.01	\$0.00	\$52.57
	06/01/2020	\$34.67	\$7.70	\$11.01	\$0.00	\$53.38
	12/01/2020	\$35.48	\$7.70	\$11.01	\$0.00	\$54.19
	06/01/2021	\$36.32	\$7.70	\$11.01	\$0.00	\$55.03
	12/01/2021	\$37.15	\$7.70	\$11.01	\$0.00	\$55.86
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
PLUMBER & PIPEFITTER <i>PLUMBERS & PIPEFITTERS LOCAL 104</i>	09/17/2017	\$39.26	\$8.50	\$15.30	\$0.00	\$63.06
	03/17/2018	\$39.51	\$8.50	\$15.80	\$0.00	\$63.81
	09/17/2018	\$40.26	\$8.50	\$15.80	\$0.00	\$64.56
	03/17/2019	\$41.01	\$8.50	\$15.80	\$0.00	\$65.31

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PLUMBER/PIPEFITTER - Local 104

Effective Date - 09/17/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$17.67	\$8.50	\$9.05	\$0.00	\$35.22
2	50	\$19.63	\$8.50	\$9.05	\$0.00	\$37.18
3	55	\$21.59	\$8.50	\$9.05	\$0.00	\$39.14
4	60	\$23.56	\$8.50	\$9.05	\$0.00	\$41.11
5	65	\$25.52	\$8.50	\$9.05	\$0.00	\$43.07
6	70	\$27.48	\$8.50	\$9.05	\$0.00	\$45.03
7	75	\$29.45	\$8.50	\$9.05	\$0.00	\$47.00
8	80	\$31.41	\$8.50	\$9.05	\$0.00	\$48.96
9	80	\$31.41	\$8.50	\$15.30	\$0.00	\$55.21
10	80	\$31.41	\$8.50	\$15.30	\$0.00	\$55.21

Effective Date - 03/17/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$17.78	\$8.50	\$9.30	\$0.00	\$35.58
2	50	\$19.76	\$8.50	\$9.30	\$0.00	\$37.56
3	55	\$21.73	\$8.50	\$9.30	\$0.00	\$39.53
4	60	\$23.71	\$8.50	\$9.30	\$0.00	\$41.51
5	65	\$25.68	\$8.50	\$9.30	\$0.00	\$43.48
6	70	\$27.66	\$8.50	\$9.30	\$0.00	\$45.46
7	75	\$29.63	\$8.50	\$9.30	\$0.00	\$47.43
8	80	\$31.61	\$8.50	\$9.30	\$0.00	\$49.41
9	80	\$31.61	\$8.50	\$15.80	\$0.00	\$55.91
10	80	\$31.61	\$8.50	\$15.80	\$0.00	\$55.91

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

Apprentice to Journeyworker Ratio:**

PNEUMATIC CONTROLS (TEMP.) PLUMBERS & PIPEFITTERS LOCAL 104	09/17/2017	\$39.26	\$8.50	\$15.30	\$0.00	\$63.06
	03/17/2018	\$39.51	\$8.50	\$15.80	\$0.00	\$63.81
	09/17/2018	\$40.26	\$8.50	\$15.80	\$0.00	\$64.56
	03/17/2019	\$41.01	\$8.50	\$15.80	\$0.00	\$65.31

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

PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY) LABORERS - ZONE 3 (HEAVY & HIGHWAY)	12/01/2017	\$30.75	\$7.70	\$11.01	\$0.00	\$49.46
	06/01/2018	\$31.52	\$7.70	\$11.01	\$0.00	\$50.23
	12/01/2018	\$32.28	\$7.70	\$11.01	\$0.00	\$50.99
	06/01/2019	\$33.07	\$7.70	\$11.01	\$0.00	\$51.78
	12/01/2019	\$33.86	\$7.70	\$11.01	\$0.00	\$52.57
	06/01/2020	\$34.67	\$7.70	\$11.01	\$0.00	\$53.38
	12/01/2020	\$35.48	\$7.70	\$11.01	\$0.00	\$54.19
	06/01/2021	\$36.32	\$7.70	\$11.01	\$0.00	\$55.03
	12/01/2021	\$37.15	\$7.70	\$11.01	\$0.00	\$55.86

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
POWDERMAN & BLASTER <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	12/04/2017	\$31.50	\$7.70	\$13.01	\$0.00	\$52.21
	06/04/2018	\$32.28	\$7.70	\$13.01	\$0.00	\$52.99
	12/03/2018	\$33.05	\$7.70	\$13.01	\$0.00	\$53.76
	06/03/2019	\$33.86	\$7.70	\$13.01	\$0.00	\$54.57
	12/02/2019	\$34.67	\$7.70	\$13.01	\$0.00	\$55.38
For apprentice rates see "Apprentice- LABORER"						
POWDERMAN & BLASTER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY & HIGHWAY)</i>	12/01/2017	\$31.50	\$7.70	\$11.01	\$0.00	\$50.21
	06/01/2018	\$32.27	\$7.70	\$11.01	\$0.00	\$50.98
	12/01/2018	\$33.03	\$7.70	\$11.01	\$0.00	\$51.74
	06/01/2019	\$33.82	\$7.70	\$11.01	\$0.00	\$52.53
	12/01/2019	\$34.61	\$7.70	\$11.01	\$0.00	\$53.32
	06/01/2020	\$35.42	\$7.70	\$11.01	\$0.00	\$54.13
	12/01/2020	\$36.23	\$7.70	\$11.01	\$0.00	\$54.94
	06/01/2021	\$37.07	\$7.70	\$11.01	\$0.00	\$55.78
	12/01/2021	\$37.90	\$7.70	\$11.01	\$0.00	\$56.61
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
PUMP OPERATOR (CONCRETE) <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$34.18	\$10.99	\$13.12	\$0.00	\$58.29
	06/01/2018	\$34.79	\$10.99	\$13.39	\$0.00	\$59.17
	12/01/2018	\$35.39	\$10.99	\$13.66	\$0.00	\$60.04
	06/01/2019	\$35.90	\$10.99	\$13.93	\$0.00	\$60.82
	12/01/2019	\$36.50	\$10.99	\$14.20	\$0.00	\$61.69
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (DEWATERING, OTHER) <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$33.65	\$10.99	\$13.12	\$0.00	\$57.76
	06/01/2018	\$34.26	\$10.99	\$13.39	\$0.00	\$58.64
	12/01/2018	\$34.86	\$10.99	\$13.66	\$0.00	\$59.51
	06/01/2019	\$35.37	\$10.99	\$13.93	\$0.00	\$60.29
	12/01/2019	\$35.97	\$10.99	\$14.20	\$0.00	\$61.16
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
READY-MIX CONCRETE DRIVER <i>TEAMSTERS LOCAL 404</i>	05/01/2016	\$21.01	\$10.23	\$9.40	\$0.00	\$40.64
For apprentice rates see "Apprentice- LABORER"						
RIDE-ON MOTORIZED BUGGY OPERATOR <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	12/04/2017	\$30.75	\$7.70	\$13.01	\$0.00	\$51.46
	06/04/2018	\$31.53	\$7.70	\$13.01	\$0.00	\$52.24
	12/03/2018	\$32.30	\$7.70	\$13.01	\$0.00	\$53.01
	06/03/2019	\$33.11	\$7.70	\$13.01	\$0.00	\$53.82
	12/02/2019	\$33.92	\$7.70	\$13.01	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						
ROLLER OPERATOR <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$33.04	\$10.99	\$13.12	\$0.00	\$57.15
	06/01/2018	\$33.65	\$10.99	\$13.39	\$0.00	\$58.03
	12/01/2018	\$34.25	\$10.99	\$13.66	\$0.00	\$58.90
	06/01/2019	\$34.76	\$10.99	\$13.93	\$0.00	\$59.68
	12/01/2019	\$35.36	\$10.99	\$14.20	\$0.00	\$60.55
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
ROOFER (Coal tar pitch) <i>ROOFERS LOCAL 248</i>	07/16/2017	\$32.25	\$10.00	\$13.91	\$0.00	\$56.16
	07/16/2018	\$33.65	\$10.00	\$14.01	\$0.00	\$57.66
	07/16/2019	\$35.30	\$10.00	\$14.11	\$0.00	\$59.41
For apprentice rates see "Apprentice- ROOFER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
ROOFER (Inc.Roofing Waterproofing &Roofing Damproofg) <i>ROOFERS LOCAL 248</i>	07/16/2017	\$31.75	\$10.00	\$13.41	\$0.00	\$55.16
	07/16/2018	\$33.15	\$10.00	\$13.51	\$0.00	\$56.66
	07/16/2019	\$34.80	\$10.00	\$13.61	\$0.00	\$58.41

Apprentice - ROOFER - Local 248

Effective Date - 07/16/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$19.05	\$10.00	\$0.00	\$0.00	\$29.05
2	65	\$20.64	\$10.00	\$13.41	\$0.00	\$44.05
3	70	\$22.23	\$10.00	\$13.41	\$0.00	\$45.64
4	75	\$23.81	\$10.00	\$13.41	\$0.00	\$47.22
5	80	\$25.40	\$10.00	\$13.41	\$0.00	\$48.81
6	85	\$26.99	\$10.00	\$13.41	\$0.00	\$50.40
7	90	\$28.58	\$10.00	\$13.41	\$0.00	\$51.99
8	95	\$30.16	\$10.00	\$13.41	\$0.00	\$53.57

Effective Date - 07/16/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$19.89	\$10.00	\$0.00	\$0.00	\$29.89
2	65	\$21.55	\$10.00	\$13.51	\$0.00	\$45.06
3	70	\$23.21	\$10.00	\$13.51	\$0.00	\$46.72
4	75	\$24.86	\$10.00	\$13.51	\$0.00	\$48.37
5	80	\$26.52	\$10.00	\$13.51	\$0.00	\$50.03
6	85	\$28.18	\$10.00	\$13.51	\$0.00	\$51.69
7	90	\$29.84	\$10.00	\$13.51	\$0.00	\$53.35
8	95	\$31.49	\$10.00	\$13.51	\$0.00	\$55.00

Notes:

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

Apprentice to Journeyworker Ratio:1:3

ROOFER SLATE / TILE / PRECAST CONCRETE <i>ROOFERS LOCAL 248</i>	07/16/2017	\$32.25	\$10.00	\$13.91	\$0.00	\$56.16
	07/16/2018	\$33.65	\$10.00	\$14.01	\$0.00	\$57.66
	07/16/2019	\$35.30	\$10.00	\$14.11	\$0.00	\$59.41

For apprentice rates see "Apprentice- ROOFER"

SCRAPER <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$33.65	\$10.99	\$13.12	\$0.00	\$57.76
	06/01/2018	\$34.26	\$10.99	\$13.39	\$0.00	\$58.64
	12/01/2018	\$34.86	\$10.99	\$13.66	\$0.00	\$59.51
	06/01/2019	\$35.37	\$10.99	\$13.93	\$0.00	\$60.29
	12/01/2019	\$35.97	\$10.99	\$14.20	\$0.00	\$61.16

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

SELF-POWERED ROLLERS AND COMPACTORS (TAMPERS) <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$33.04	\$10.99	\$13.12	\$0.00	\$57.15
	06/01/2018	\$33.65	\$10.99	\$13.39	\$0.00	\$58.03
	12/01/2018	\$34.25	\$10.99	\$13.66	\$0.00	\$58.90
	06/01/2019	\$34.76	\$10.99	\$13.93	\$0.00	\$59.68
	12/01/2019	\$35.36	\$10.99	\$14.20	\$0.00	\$60.55

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
SELF-PROPELLED POWER BROOM <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$30.42	\$10.99	\$13.12	\$0.00	\$54.53
	06/01/2018	\$31.03	\$10.99	\$13.39	\$0.00	\$55.41
	12/01/2018	\$31.63	\$10.99	\$13.66	\$0.00	\$56.28
	06/01/2019	\$32.14	\$10.99	\$13.93	\$0.00	\$57.06
	12/01/2019	\$32.74	\$10.99	\$14.20	\$0.00	\$57.93

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
SHEETMETAL WORKER <i>SHEETMETAL WORKERS LOCAL 63</i>	01/01/2018	\$32.99	\$10.64	\$16.22	\$1.77	\$61.62
	07/01/2018	\$33.74	\$10.64	\$16.22	\$1.77	\$62.37
	01/01/2019	\$34.74	\$10.64	\$16.22	\$1.77	\$63.37
	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

Apprentice - SHEET METAL WORKER - Local 63

Effective Date - 01/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$14.85	\$6.21	\$4.67	\$0.00	\$25.73
2	50	\$16.50	\$6.55	\$5.19	\$0.00	\$28.24
3	55	\$18.14	\$6.88	\$9.33	\$1.03	\$35.38
4	60	\$19.79	\$7.22	\$9.33	\$1.09	\$37.43
5	65	\$21.44	\$7.55	\$9.33	\$1.15	\$39.47
6	70	\$23.09	\$7.88	\$9.33	\$1.21	\$41.51
7	75	\$24.74	\$8.22	\$9.33	\$1.27	\$43.56
8	80	\$26.39	\$9.30	\$15.18	\$1.53	\$52.40
9	85	\$28.04	\$9.64	\$15.18	\$1.59	\$54.45
10	90	\$29.69	\$9.98	\$15.18	\$1.65	\$56.50

Effective Date - 07/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$15.18	\$6.21	\$4.67	\$0.00	\$26.06
2	50	\$16.87	\$6.55	\$5.19	\$0.00	\$28.61
3	55	\$18.56	\$6.88	\$9.33	\$1.04	\$35.81
4	60	\$20.24	\$7.22	\$9.33	\$1.10	\$37.89
5	65	\$21.93	\$7.55	\$9.33	\$1.16	\$39.97
6	70	\$23.62	\$7.88	\$9.33	\$1.22	\$42.05
7	75	\$25.31	\$8.22	\$9.33	\$1.29	\$44.15
8	80	\$26.99	\$9.30	\$15.18	\$1.54	\$53.01
9	85	\$28.68	\$9.64	\$15.18	\$1.61	\$55.11
10	90	\$30.37	\$9.98	\$15.18	\$1.67	\$57.20

Notes:

Apprentice to Journeyworker Ratio:1:3

SIGN ERECTOR <i>PAINTERS LOCAL 35 - ZONE 3</i>	06/01/2013	\$25.81	\$7.07	\$7.05	\$0.00	\$39.93
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Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - SIGN ERECTOR - 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

SPECIALIZED EARTH MOVING EQUIP < 35 TONS <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.44	\$10.91	\$10.89	\$0.00	\$54.24
SPECIALIZED EARTH MOVING EQUIP > 35 TONS <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.73	\$10.91	\$10.89	\$0.00	\$54.53
SPRINKLER FITTER <i>SPRINKLER FITTERS LOCAL 669</i>	01/01/2018	\$40.26	\$9.67	\$12.63	\$0.00	\$62.56
	04/01/2018	\$41.51	\$9.67	\$12.88	\$0.00	\$64.06
	01/01/2019	\$41.51	\$10.02	\$13.08	\$0.00	\$64.61

Apprentice - SPRINKLER FITTER - Local 669

Effective Date - 01/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$18.12	\$7.75	\$0.00	\$0.00	\$25.87
2	50	\$20.13	\$7.75	\$0.00	\$0.00	\$27.88
3	55	\$22.14	\$9.67	\$6.80	\$0.00	\$38.61
4	60	\$24.16	\$9.67	\$6.80	\$0.00	\$40.63
5	65	\$26.17	\$9.67	\$7.05	\$0.00	\$42.89
6	70	\$28.18	\$9.67	\$7.05	\$0.00	\$44.90
7	75	\$30.20	\$9.67	\$7.05	\$0.00	\$46.92
8	80	\$32.21	\$9.67	\$7.05	\$0.00	\$48.93
9	85	\$34.22	\$9.67	\$7.05	\$0.00	\$50.94
10	90	\$36.23	\$9.67	\$7.05	\$0.00	\$52.95

Effective Date - 04/01/2018

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	\$9.67	\$7.05	\$0.00	\$39.55
4	60	\$24.91	\$9.67	\$7.05	\$0.00	\$41.63
5	65	\$26.98	\$9.67	\$7.30	\$0.00	\$43.95
6	70	\$29.06	\$9.67	\$7.30	\$0.00	\$46.03
7	75	\$31.13	\$9.67	\$7.30	\$0.00	\$48.10
8	80	\$33.21	\$9.67	\$7.30	\$0.00	\$50.18
9	85	\$35.28	\$9.67	\$7.30	\$0.00	\$52.25
10	90	\$37.36	\$9.67	\$7.30	\$0.00	\$54.33

Notes:

Apprentice to Journeyworker Ratio:1:1

TELECOMMUNICATION TECHNICIAN	12/31/2017	\$40.51	\$10.00	\$11.42	\$0.00	\$61.93
ELECTRICIANS LOCAL 7	07/01/2018	\$41.21	\$10.25	\$11.74	\$0.00	\$63.20
	12/30/2018	\$41.91	\$10.50	\$12.06	\$0.00	\$64.47
	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

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - TELECOMMUNICATION TECHNICIAN - Local 7

Effective Date - 12/31/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$16.20	\$5.40	\$0.49	\$0.00	\$22.09
2	45	\$18.23	\$5.40	\$0.55	\$0.00	\$24.18
3	50	\$20.26	\$10.00	\$6.91	\$0.00	\$37.17
4	55	\$22.28	\$10.00	\$6.97	\$0.00	\$39.25
5	65	\$26.33	\$10.00	\$8.09	\$0.00	\$44.42
6	70	\$28.36	\$10.00	\$9.15	\$0.00	\$47.51

Effective Date - 07/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$16.48	\$5.55	\$0.49	\$0.00	\$22.52
2	45	\$18.54	\$5.55	\$0.56	\$0.00	\$24.65
3	50	\$20.61	\$10.25	\$6.92	\$0.00	\$37.78
4	55	\$22.67	\$10.25	\$6.98	\$0.00	\$39.90
5	65	\$26.79	\$10.25	\$8.10	\$0.00	\$45.14
6	70	\$28.85	\$10.25	\$9.17	\$0.00	\$48.27

Notes:

Steps are 800 hours

Apprentice to Journeyworker Ratio:1:1

TERRAZZO FINISHERS	02/01/2018	\$51.00	\$10.75	\$20.03	\$0.00	\$81.78
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	08/01/2018	\$52.35	\$10.75	\$20.16	\$0.00	\$83.26
	02/01/2019	\$52.99	\$10.75	\$20.16	\$0.00	\$83.90
	08/01/2019	\$54.34	\$10.75	\$20.30	\$0.00	\$85.39
	02/01/2020	\$54.98	\$10.75	\$20.30	\$0.00	\$86.03
	08/01/2020	\$56.33	\$10.75	\$20.45	\$0.00	\$87.53
	02/01/2021	\$56.97	\$10.75	\$20.45	\$0.00	\$88.17
	08/01/2021	\$58.37	\$10.75	\$20.61	\$0.00	\$89.73
	02/01/2022	\$58.96	\$10.75	\$20.61	\$0.00	\$90.32

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - TERRAZZO FINISHER-Local 3 Marble/Tile (Spr/Ptt)

Effective Date - 02/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.50	\$10.75	\$20.03	\$0.00	\$56.28
2	60	\$30.60	\$10.75	\$20.03	\$0.00	\$61.38
3	70	\$35.70	\$10.75	\$20.03	\$0.00	\$66.48
4	80	\$40.80	\$10.75	\$20.03	\$0.00	\$71.58
5	90	\$45.90	\$10.75	\$20.03	\$0.00	\$76.68

Effective Date - 08/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.18	\$10.75	\$20.16	\$0.00	\$57.09
2	60	\$31.41	\$10.75	\$20.16	\$0.00	\$62.32
3	70	\$36.65	\$10.75	\$20.16	\$0.00	\$67.56
4	80	\$41.88	\$10.75	\$20.16	\$0.00	\$72.79
5	90	\$47.12	\$10.75	\$20.16	\$0.00	\$78.03

Notes:

Apprentice to Journeyworker Ratio:1:5

TEST BORING DRILLER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2017	\$38.85	\$7.70	\$14.95	\$0.00	\$61.50
	06/01/2018	\$39.80	\$7.70	\$14.95	\$0.00	\$62.45
	12/01/2018	\$40.75	\$7.70	\$14.95	\$0.00	\$63.40
	06/01/2019	\$41.75	\$7.70	\$14.95	\$0.00	\$64.40
	12/01/2019	\$42.75	\$7.70	\$14.95	\$0.00	\$65.40
	06/01/2020	\$43.74	\$7.70	\$14.95	\$0.00	\$66.39
	12/01/2020	\$44.72	\$7.70	\$14.95	\$0.00	\$67.37
	06/01/2021	\$45.74	\$7.70	\$14.95	\$0.00	\$68.39
	12/01/2021	\$46.75	\$7.70	\$14.95	\$0.00	\$69.40

For apprentice rates see "Apprentice- LABORER"

TEST BORING DRILLER HELPER <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2017	\$37.57	\$7.70	\$14.95	\$0.00	\$60.22
	06/01/2018	\$38.52	\$7.70	\$14.95	\$0.00	\$61.17
	12/01/2018	\$39.47	\$7.70	\$14.95	\$0.00	\$62.12
	06/01/2019	\$40.47	\$7.70	\$14.95	\$0.00	\$63.12
	12/01/2019	\$41.47	\$7.70	\$14.95	\$0.00	\$64.12
	06/01/2020	\$42.46	\$7.70	\$14.95	\$0.00	\$65.11
	12/01/2020	\$43.44	\$7.70	\$14.95	\$0.00	\$66.09
	06/01/2021	\$44.46	\$7.70	\$14.95	\$0.00	\$67.11
	12/01/2021	\$45.47	\$7.70	\$14.95	\$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>	12/01/2017	\$37.45	\$7.70	\$14.95	\$0.00	\$60.10
	06/01/2018	\$38.40	\$7.70	\$14.95	\$0.00	\$61.05
	12/01/2018	\$39.35	\$7.70	\$14.95	\$0.00	\$62.00
	06/01/2019	\$40.35	\$7.70	\$14.95	\$0.00	\$63.00
	12/01/2019	\$41.35	\$7.70	\$14.95	\$0.00	\$64.00
	06/01/2020	\$42.34	\$7.70	\$14.95	\$0.00	\$64.99
	12/01/2020	\$43.32	\$7.70	\$14.95	\$0.00	\$65.97
	06/01/2021	\$44.34	\$7.70	\$14.95	\$0.00	\$66.99
	12/01/2021	\$45.35	\$7.70	\$14.95	\$0.00	\$68.00
For apprentice rates see "Apprentice- LABORER"						
TRACTORS <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$33.04	\$10.99	\$13.12	\$0.00	\$57.15
	06/01/2018	\$33.65	\$10.99	\$13.39	\$0.00	\$58.03
	12/01/2018	\$34.25	\$10.99	\$13.66	\$0.00	\$58.90
	06/01/2019	\$34.76	\$10.99	\$13.93	\$0.00	\$59.68
	12/01/2019	\$35.36	\$10.99	\$14.20	\$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>	12/01/2016	\$33.02	\$10.91	\$10.89	\$0.00	\$54.82
TUNNEL WORK - COMPRESSED AIR <i>LABORERS (COMPRESSED AIR)</i>	12/01/2017	\$49.73	\$7.70	\$15.35	\$0.00	\$72.78
	06/01/2018	\$50.68	\$7.70	\$15.35	\$0.00	\$73.73
	12/01/2018	\$51.63	\$7.70	\$15.35	\$0.00	\$74.68
	06/01/2019	\$52.63	\$7.70	\$15.35	\$0.00	\$75.68
	12/01/2019	\$53.63	\$7.70	\$15.35	\$0.00	\$76.68
	06/01/2020	\$54.62	\$7.70	\$15.35	\$0.00	\$77.67
	12/01/2020	\$55.60	\$7.70	\$15.35	\$0.00	\$78.65
	06/01/2021	\$56.62	\$7.70	\$15.35	\$0.00	\$79.67
	12/01/2021	\$57.63	\$7.70	\$15.35	\$0.00	\$80.68
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE) <i>LABORERS (COMPRESSED AIR)</i>	12/01/2017	\$51.73	\$7.70	\$15.35	\$0.00	\$74.78
	06/01/2018	\$52.68	\$7.70	\$15.35	\$0.00	\$75.73
	12/01/2018	\$53.63	\$7.70	\$15.35	\$0.00	\$76.68
	06/01/2019	\$54.63	\$7.70	\$15.35	\$0.00	\$77.68
	12/01/2019	\$55.63	\$7.70	\$15.35	\$0.00	\$78.68
	06/01/2020	\$56.62	\$7.70	\$15.35	\$0.00	\$79.67
	12/01/2020	\$57.60	\$7.70	\$15.35	\$0.00	\$80.65
	06/01/2021	\$58.62	\$7.70	\$15.35	\$0.00	\$81.67
	12/01/2021	\$59.63	\$7.70	\$15.35	\$0.00	\$82.68
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TUNNEL WORK - FREE AIR <i>LABORERS (FREE AIR TUNNEL)</i>	12/01/2017	\$41.80	\$7.70	\$15.35	\$0.00	\$64.85
	06/01/2018	\$42.75	\$7.70	\$15.35	\$0.00	\$65.80
	12/01/2018	\$43.70	\$7.70	\$15.35	\$0.00	\$66.75
	06/01/2019	\$44.70	\$7.70	\$15.35	\$0.00	\$67.75
	12/01/2019	\$45.70	\$7.70	\$15.35	\$0.00	\$68.75
	06/01/2020	\$46.69	\$7.70	\$15.35	\$0.00	\$69.74
	12/01/2020	\$47.67	\$7.70	\$15.35	\$0.00	\$70.72
	06/01/2021	\$48.69	\$7.70	\$15.35	\$0.00	\$71.74
	12/01/2021	\$49.70	\$7.70	\$15.35	\$0.00	\$72.75
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - FREE AIR (HAZ. WASTE) <i>LABORERS (FREE AIR TUNNEL)</i>	12/01/2017	\$43.80	\$7.70	\$15.35	\$0.00	\$66.85
	06/01/2018	\$44.75	\$7.70	\$15.35	\$0.00	\$67.80
	12/01/2018	\$45.70	\$7.70	\$15.35	\$0.00	\$68.75
	06/01/2019	\$46.70	\$7.70	\$15.35	\$0.00	\$69.75
	12/01/2019	\$47.70	\$7.70	\$15.35	\$0.00	\$70.75
	06/01/2020	\$48.69	\$7.70	\$15.35	\$0.00	\$71.74
	12/01/2020	\$49.67	\$7.70	\$15.35	\$0.00	\$72.72
	06/01/2021	\$50.69	\$7.70	\$15.35	\$0.00	\$73.74
	12/01/2021	\$51.70	\$7.70	\$15.35	\$0.00	\$74.75
For apprentice rates see "Apprentice- LABORER"						
VAC-HAUL <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.44	\$10.91	\$10.89	\$0.00	\$54.24
WAGON DRILL OPERATOR <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	12/04/2017	\$30.75	\$7.70	\$13.01	\$0.00	\$51.46
	06/04/2018	\$31.53	\$7.70	\$13.01	\$0.00	\$52.24
	12/03/2018	\$32.30	\$7.70	\$13.01	\$0.00	\$53.01
	06/03/2019	\$33.11	\$7.70	\$13.01	\$0.00	\$53.82
	12/02/2019	\$33.92	\$7.70	\$13.01	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						
WAGON DRILL OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY & HIGHWAY)</i>	12/01/2017	\$30.75	\$7.70	\$11.01	\$0.00	\$49.46
	06/01/2018	\$31.52	\$7.70	\$11.01	\$0.00	\$50.23
	12/01/2018	\$32.28	\$7.70	\$11.01	\$0.00	\$50.99
	06/01/2019	\$33.07	\$7.70	\$11.01	\$0.00	\$51.78
	12/01/2019	\$33.86	\$7.70	\$11.01	\$0.00	\$52.57
	06/01/2020	\$34.67	\$7.70	\$11.01	\$0.00	\$53.38
	12/01/2020	\$35.48	\$7.70	\$11.01	\$0.00	\$54.19
	06/01/2021	\$36.32	\$7.70	\$11.01	\$0.00	\$55.03
	12/01/2021	\$37.15	\$7.70	\$11.01	\$0.00	\$55.86
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
WATER METER INSTALLER <i>PLUMBERS & PIPEFITTERS LOCAL 104</i>	09/17/2017	\$39.26	\$8.50	\$15.30	\$0.00	\$63.06
	03/17/2018	\$39.51	\$8.50	\$15.80	\$0.00	\$63.81
	09/17/2018	\$40.26	\$8.50	\$15.80	\$0.00	\$64.56
	03/17/2019	\$41.01	\$8.50	\$15.80	\$0.00	\$65.31
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"						
Outside Electrical - West						
EQUIPMENT OPERATOR <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	09/03/2017	\$39.92	\$8.00	\$12.41	\$0.00	\$60.33
	09/02/2018	\$42.26	\$8.00	\$12.50	\$0.00	\$62.76
	09/01/2019	\$44.67	\$8.00	\$12.55	\$0.00	\$65.22

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- LINEMAN"						
GROUNDMAN <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	09/03/2017	\$25.83	\$8.00	\$5.33	\$0.00	\$39.16
	09/02/2018	\$28.17	\$8.00	\$5.41	\$0.00	\$41.58
	09/01/2019	\$30.58	\$8.00	\$5.48	\$0.00	\$44.06
For apprentice rates see "Apprentice- LINEMAN"						
GROUNDMAN / TRUCK DRIVER <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	09/03/2017	\$35.22	\$8.00	\$10.82	\$0.00	\$54.04
	09/02/2018	\$37.56	\$8.00	\$10.89	\$0.00	\$56.45
	09/01/2019	\$39.97	\$8.00	\$10.96	\$0.00	\$58.93
For apprentice rates see "Apprentice- LINEMAN"						
HEAVY EQUIPMENT OPERATOR <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	09/03/2017	\$42.26	\$8.00	\$13.08	\$0.00	\$63.34
	09/02/2018	\$44.60	\$8.00	\$13.15	\$0.00	\$65.75
	09/01/2019	\$47.01	\$8.00	\$13.22	\$0.00	\$68.23
For apprentice rates see "Apprentice- LINEMAN"						
JOURNEYMAN LINEMAN <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	09/03/2017	\$46.96	\$8.00	\$15.41	\$0.00	\$70.37
	09/02/2018	\$49.30	\$8.00	\$15.48	\$0.00	\$72.78
	09/01/2019	\$51.71	\$8.00	\$15.55	\$0.00	\$75.26

Apprentice - LINEMAN (Outside Electrical) - West Local 42

Effective Date - 09/03/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$28.18	\$8.00	\$3.35	\$0.00	\$39.53
2	65	\$30.52	\$8.00	\$3.42	\$0.00	\$41.94
3	70	\$32.87	\$8.00	\$3.49	\$0.00	\$44.36
4	75	\$35.22	\$8.00	\$5.06	\$0.00	\$48.28
5	80	\$37.57	\$8.00	\$5.13	\$0.00	\$50.70
6	85	\$39.92	\$8.00	\$5.20	\$0.00	\$53.12
7	90	\$42.26	\$8.00	\$7.28	\$0.00	\$57.54

Effective Date - 09/02/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$29.58	\$8.00	\$3.39	\$0.00	\$40.97
2	65	\$32.05	\$8.00	\$3.46	\$0.00	\$43.51
3	70	\$34.51	\$8.00	\$3.54	\$0.00	\$46.05
4	75	\$36.98	\$8.00	\$5.11	\$0.00	\$50.09
5	80	\$39.44	\$8.00	\$5.18	\$0.00	\$52.62
6	85	\$41.91	\$8.00	\$5.26	\$0.00	\$55.17
7	90	\$44.37	\$8.00	\$7.33	\$0.00	\$59.70

Notes:

Apprentice to Journeyworker Ratio:1:2

TELEDATA CABLE SPLICER <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	01/01/2016	\$28.98	\$4.25	\$3.12	\$0.00	\$36.35
TELEDATA LINEMAN/EQUIPMENT OPERATOR <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	01/01/2016	\$27.31	\$4.25	\$3.07	\$0.00	\$34.63

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TELEDATA WIREMAN/INSTALLER/TECHNICIAN <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	01/01/2016	\$27.31	\$4.25	\$3.07	\$0.00	\$34.63
TRACTOR-TRAILER DRIVER <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	09/03/2017	\$39.92	\$8.00	\$12.41	\$0.00	\$60.33
	09/02/2018	\$42.26	\$8.00	\$12.50	\$0.00	\$62.76
	09/01/2019	\$44.67	\$8.00	\$12.55	\$0.00	\$65.22
TREE TRIMMER <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	01/31/2016	\$18.51	\$3.55	\$0.00	\$0.00	\$22.06
This classification applies only to tree work done: (a) for a utility company, R.E.A. cooperative, or railroad or coal mining company, and (b) for the purpose of operating, maintaining, or repairing the utility company's equipment, and (c) by a person who is using hand or mechanical cutting methods and is not on the ground. This classification does not apply to wholesale tree removal.						
TREE TRIMMER GROUNDMAN <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	01/31/2016	\$16.32	\$3.55	\$0.00	\$0.00	\$19.87
This classification applies only to tree work done: (a) for a utility company, R.E.A. cooperative, or railroad or coal mining company, and (b) for the purpose of operating, maintaining, or repairing the utility company's equipment, and (c) by a person who is using hand or mechanical cutting methods and is on the ground. This classification does not apply to wholesale tree removal.						
Rental of Equipment - West						
(2 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.15	\$10.91	\$0.00	\$0.00	\$43.06
(3 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.22	\$10.91	\$0.00	\$0.00	\$43.13
(4 & 5 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.34	\$10.91	\$0.00	\$0.00	\$43.25
ADS/SUBMERSIBLE PILOT <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2017	\$92.97	\$9.90	\$0.00	\$0.00	\$102.87
	08/01/2018	\$97.80	\$9.90	\$0.00	\$0.00	\$107.70
	08/01/2019	\$102.78	\$9.90	\$0.00	\$0.00	\$112.68
For apprentice rates see "Apprentice- PILE DRIVER"						
BACKHOE/FRONT-END LOADER OPERATOR <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$34.18	\$10.99	\$0.00	\$0.00	\$45.17
	06/01/2018	\$34.79	\$10.99	\$0.00	\$0.00	\$45.78
	12/01/2018	\$35.39	\$10.99	\$0.00	\$0.00	\$46.38
	06/01/2019	\$35.90	\$10.99	\$0.00	\$0.00	\$46.89
	12/01/2019	\$36.50	\$10.99	\$0.00	\$0.00	\$47.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BATCH/CEMENT PLANT - ON SITE <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$33.65	\$10.99	\$0.00	\$0.00	\$44.64
	06/01/2018	\$34.26	\$10.99	\$0.00	\$0.00	\$45.25
	12/01/2018	\$34.86	\$10.99	\$0.00	\$0.00	\$45.85
	06/01/2019	\$35.37	\$10.99	\$0.00	\$0.00	\$46.36
	12/01/2019	\$35.97	\$10.99	\$0.00	\$0.00	\$46.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BULLDOZER/POWER SHOVEL/TREE SHREDDER /CLAM SHELL <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$34.18	\$10.99	\$0.00	\$0.00	\$45.17
	06/01/2018	\$34.79	\$10.99	\$0.00	\$0.00	\$45.78
	12/01/2018	\$35.39	\$10.99	\$0.00	\$0.00	\$46.38
	06/01/2019	\$35.90	\$10.99	\$0.00	\$0.00	\$46.89
	12/01/2019	\$36.50	\$10.99	\$0.00	\$0.00	\$47.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
COMPRESSOR OPERATOR <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$33.65	\$10.99	\$0.00	\$0.00	\$44.64
	06/01/2018	\$34.26	\$10.99	\$0.00	\$0.00	\$45.25
	12/01/2018	\$34.86	\$10.99	\$0.00	\$0.00	\$45.85
	06/01/2019	\$35.37	\$10.99	\$0.00	\$0.00	\$46.36
	12/01/2019	\$35.97	\$10.99	\$0.00	\$0.00	\$46.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
CRANE OPERATOR <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$37.68	\$10.99	\$0.00	\$0.00	\$48.67
	06/01/2018	\$38.29	\$10.99	\$0.00	\$0.00	\$49.28
	12/01/2018	\$38.89	\$10.99	\$0.00	\$0.00	\$49.88
	06/01/2019	\$39.40	\$10.99	\$0.00	\$0.00	\$50.39
	12/01/2019	\$40.00	\$10.99	\$0.00	\$0.00	\$50.99
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
DIVER <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2017	\$61.98	\$9.90	\$0.00	\$0.00	\$71.88
	08/01/2018	\$65.20	\$9.90	\$0.00	\$0.00	\$75.10
	08/01/2019	\$68.52	\$9.90	\$0.00	\$0.00	\$78.42
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2017	\$44.27	\$9.90	\$0.00	\$0.00	\$54.17
	08/01/2018	\$46.57	\$9.90	\$0.00	\$0.00	\$56.47
	08/01/2019	\$48.94	\$9.90	\$0.00	\$0.00	\$58.84
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2017	\$66.41	\$9.90	\$0.00	\$0.00	\$76.31
	08/01/2018	\$69.86	\$9.90	\$0.00	\$0.00	\$79.76
	08/01/2019	\$73.41	\$9.90	\$0.00	\$0.00	\$83.31
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER/SLURRY (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2017	\$92.97	\$9.90	\$0.00	\$0.00	\$102.87
	08/01/2018	\$97.80	\$9.90	\$0.00	\$0.00	\$107.70
	08/01/2019	\$102.78	\$9.90	\$0.00	\$0.00	\$112.68
For apprentice rates see "Apprentice- PILE DRIVER"						
FIREMAN <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$33.65	\$10.99	\$0.00	\$0.00	\$44.64
	06/01/2018	\$34.26	\$10.99	\$0.00	\$0.00	\$45.25
	12/01/2018	\$34.86	\$10.99	\$0.00	\$0.00	\$45.85
	06/01/2019	\$35.37	\$10.99	\$0.00	\$0.00	\$46.36
	12/01/2019	\$35.97	\$10.99	\$0.00	\$0.00	\$46.96

Apprentice - OPERATING ENGINEERS - Local 98 Class 3

Effective Date - 12/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$20.19	\$10.99	\$0.00	\$0.00	\$31.18
2	70	\$23.56	\$10.99	\$0.00	\$0.00	\$34.55
3	80	\$26.92	\$10.99	\$0.00	\$0.00	\$37.91
4	90	\$30.29	\$10.99	\$0.00	\$0.00	\$41.28

Effective Date - 06/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$20.56	\$10.99	\$0.00	\$0.00	\$31.55
2	70	\$23.98	\$10.99	\$0.00	\$0.00	\$34.97
3	80	\$27.41	\$10.99	\$0.00	\$0.00	\$38.40
4	90	\$30.83	\$10.99	\$0.00	\$0.00	\$41.82

Notes:

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

Apprentice to Journeyworker Ratio:1:6

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
FLAGGER & SIGNALER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY & HIGHWAY)</i>	12/01/2017	\$21.50	\$7.70	\$0.00	\$0.00	\$29.20
	06/01/2018	\$21.50	\$7.70	\$0.00	\$0.00	\$29.20
	12/01/2018	\$22.50	\$7.70	\$0.00	\$0.00	\$30.20
	06/01/2019	\$22.50	\$7.70	\$0.00	\$0.00	\$30.20
	12/01/2019	\$23.50	\$7.70	\$0.00	\$0.00	\$31.20
	06/01/2020	\$23.50	\$7.70	\$0.00	\$0.00	\$31.20
	12/01/2020	\$24.50	\$7.70	\$0.00	\$0.00	\$32.20
	06/01/2021	\$24.50	\$7.70	\$0.00	\$0.00	\$32.20
	12/01/2021	\$24.50	\$7.70	\$0.00	\$0.00	\$32.20
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
FORK LIFT/CHERRY PICKER <i>27F WEST OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$33.87	\$10.99	\$0.00	\$0.00	\$44.86
	06/01/2018	\$34.48	\$10.99	\$0.00	\$0.00	\$45.47
	12/01/2018	\$35.08	\$10.99	\$0.00	\$0.00	\$46.07
	06/01/2019	\$35.59	\$10.99	\$0.00	\$0.00	\$46.58
	12/01/2019	\$36.19	\$10.99	\$0.00	\$0.00	\$47.18
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
GENERATORS/LIGHTING PLANTS <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$30.42	\$10.99	\$0.00	\$0.00	\$41.41
	06/01/2018	\$31.03	\$10.99	\$0.00	\$0.00	\$42.02
	12/01/2018	\$31.63	\$10.99	\$0.00	\$0.00	\$42.62
	06/01/2019	\$32.14	\$10.99	\$0.00	\$0.00	\$43.13
	12/01/2019	\$32.74	\$10.99	\$0.00	\$0.00	\$43.73
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
GRADER/TRENCHING MACHINE/DERRICK <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$34.18	\$10.99	\$0.00	\$0.00	\$45.17
	06/01/2018	\$34.79	\$10.99	\$0.00	\$0.00	\$45.78
	12/01/2018	\$35.39	\$10.99	\$0.00	\$0.00	\$46.38
	06/01/2019	\$35.90	\$10.99	\$0.00	\$0.00	\$46.89
	12/01/2019	\$36.50	\$10.99	\$0.00	\$0.00	\$47.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
LABORER <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	12/04/2017	\$30.50	\$7.70	\$0.00	\$0.00	\$38.20
	06/04/2018	\$31.28	\$7.70	\$0.00	\$0.00	\$38.98
	12/03/2018	\$32.05	\$7.70	\$0.00	\$0.00	\$39.75
	06/03/2019	\$32.86	\$7.70	\$0.00	\$0.00	\$40.56
	12/02/2019	\$33.67	\$7.70	\$0.00	\$0.00	\$41.37

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - LABORER - Zone 3 Building & Site

Effective Date - 12/04/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$18.30	\$7.70	\$0.00	\$0.00	\$26.00
2	70	\$21.35	\$7.70	\$0.00	\$0.00	\$29.05
3	80	\$24.40	\$7.70	\$0.00	\$0.00	\$32.10
4	90	\$27.45	\$7.70	\$0.00	\$0.00	\$35.15

Effective Date - 06/04/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$18.77	\$7.70	\$0.00	\$0.00	\$26.47
2	70	\$21.90	\$7.70	\$0.00	\$0.00	\$29.60
3	80	\$25.02	\$7.70	\$0.00	\$0.00	\$32.72
4	90	\$28.15	\$7.70	\$0.00	\$0.00	\$35.85

Notes:

Apprentice to Journeyworker Ratio:1:5

LABORER (HEAVY & HIGHWAY)	12/01/2017	\$30.50	\$7.70	\$0.00	\$0.00	\$38.20
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	06/01/2018	\$31.27	\$7.70	\$0.00	\$0.00	\$38.97
	12/01/2018	\$32.03	\$7.70	\$0.00	\$0.00	\$39.73
	06/01/2019	\$32.82	\$7.70	\$0.00	\$0.00	\$40.52
	12/01/2019	\$33.61	\$7.70	\$0.00	\$0.00	\$41.31
	06/01/2020	\$34.42	\$7.70	\$0.00	\$0.00	\$42.12
	12/01/2020	\$35.23	\$7.70	\$0.00	\$0.00	\$42.93
	06/01/2021	\$36.07	\$7.70	\$0.00	\$0.00	\$43.77
	12/01/2021	\$36.90	\$7.70	\$0.00	\$0.00	\$44.60

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - LABORER (Heavy & Highway) - Zone 3

Effective Date - 12/01/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$18.30	\$7.70	\$0.00	\$0.00	\$26.00
2	70	\$21.35	\$7.70	\$0.00	\$0.00	\$29.05
3	80	\$24.40	\$7.70	\$0.00	\$0.00	\$32.10
4	90	\$27.45	\$7.70	\$0.00	\$0.00	\$35.15

Effective Date - 06/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$18.76	\$7.70	\$0.00	\$0.00	\$26.46
2	70	\$21.89	\$7.70	\$0.00	\$0.00	\$29.59
3	80	\$25.02	\$7.70	\$0.00	\$0.00	\$32.72
4	90	\$28.14	\$7.70	\$0.00	\$0.00	\$35.84

Notes:

Apprentice to Journeyworker Ratio:1:5

MECHANIC/WELDER/BOOM TRUCK OPERATING ENGINEERS LOCAL 98	12/01/2017	\$33.65	\$10.99	\$0.00	\$0.00	\$44.64
	06/01/2018	\$34.26	\$10.99	\$0.00	\$0.00	\$45.25
	12/01/2018	\$34.86	\$10.99	\$0.00	\$0.00	\$45.85
	06/01/2019	\$35.37	\$10.99	\$0.00	\$0.00	\$46.36
	12/01/2019	\$35.97	\$10.99	\$0.00	\$0.00	\$46.96

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

OILER OPERATING ENGINEERS LOCAL 98	12/01/2017	\$29.34	\$10.99	\$0.00	\$0.00	\$40.33
	06/01/2018	\$29.95	\$10.99	\$0.00	\$0.00	\$40.94
	12/01/2018	\$30.55	\$10.99	\$0.00	\$0.00	\$41.54
	06/01/2019	\$31.06	\$10.99	\$0.00	\$0.00	\$42.05
	12/01/2019	\$31.66	\$10.99	\$0.00	\$0.00	\$42.65

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

OTHER POWER DRIVEN EQUIPMENT - CLASS VI OPERATING ENGINEERS LOCAL 98	12/01/2017	\$27.36	\$10.99	\$0.00	\$0.00	\$38.35
	06/01/2018	\$27.97	\$10.99	\$0.00	\$0.00	\$38.96
	12/01/2018	\$28.57	\$10.99	\$0.00	\$0.00	\$39.56
	06/01/2019	\$29.08	\$10.99	\$0.00	\$0.00	\$40.07
	12/01/2019	\$29.68	\$10.99	\$0.00	\$0.00	\$40.67

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

PANEL & PICKUP TRUCKS DRIVER TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	12/01/2012	\$30.28	\$9.07	\$0.00	\$0.00	\$39.35
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PUMP OPERATOR (CONCRETE) OPERATING ENGINEERS LOCAL 98	12/01/2017	\$34.18	\$10.99	\$0.00	\$0.00	\$45.17
	06/01/2018	\$34.79	\$10.99	\$0.00	\$0.00	\$45.78
	12/01/2018	\$35.39	\$10.99	\$0.00	\$0.00	\$46.38
	06/01/2019	\$35.90	\$10.99	\$0.00	\$0.00	\$46.89
	12/01/2019	\$36.50	\$10.99	\$0.00	\$0.00	\$47.49

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PUMP OPERATOR (DEWATERING, OTHER) <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$33.65	\$10.99	\$0.00	\$0.00	\$44.64
	06/01/2018	\$34.26	\$10.99	\$0.00	\$0.00	\$45.25
	12/01/2018	\$34.86	\$10.99	\$0.00	\$0.00	\$45.85
	06/01/2019	\$35.37	\$10.99	\$0.00	\$0.00	\$46.36
	12/01/2019	\$35.97	\$10.99	\$0.00	\$0.00	\$46.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
ROLLER OPERATOR <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$33.04	\$10.99	\$0.00	\$0.00	\$44.03
	06/01/2018	\$33.65	\$10.99	\$0.00	\$0.00	\$44.64
	12/01/2018	\$34.25	\$10.99	\$0.00	\$0.00	\$45.24
	06/01/2019	\$34.76	\$10.99	\$0.00	\$0.00	\$45.75
	12/01/2019	\$35.36	\$10.99	\$0.00	\$0.00	\$46.35
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
SCRAPER <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$33.65	\$10.99	\$0.00	\$0.00	\$44.64
	06/01/2018	\$34.26	\$10.99	\$0.00	\$0.00	\$45.25
	12/01/2018	\$34.86	\$10.99	\$0.00	\$0.00	\$45.85
	06/01/2019	\$35.37	\$10.99	\$0.00	\$0.00	\$46.36
	12/01/2019	\$35.97	\$10.99	\$0.00	\$0.00	\$46.96
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
SELF-PROPELLED POWER BROOM <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$30.42	\$10.99	\$0.00	\$0.00	\$41.41
	06/01/2018	\$31.03	\$10.99	\$0.00	\$0.00	\$42.02
	12/01/2018	\$31.63	\$10.99	\$0.00	\$0.00	\$42.62
	06/01/2019	\$32.14	\$10.99	\$0.00	\$0.00	\$43.13
	12/01/2019	\$32.74	\$10.99	\$0.00	\$0.00	\$43.73
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
SPECIALIZED EARTH MOVING EQUIP < 35 TONS <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.44	\$10.91	\$0.00	\$0.00	\$43.35
SPECIALIZED EARTH MOVING EQUIP > 35 TONS <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.73	\$10.91	\$0.00	\$0.00	\$43.64
TRACTORS <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2017	\$33.04	\$10.99	\$0.00	\$0.00	\$44.03
	06/01/2018	\$33.65	\$10.99	\$0.00	\$0.00	\$44.64
	12/01/2018	\$34.25	\$10.99	\$0.00	\$0.00	\$45.24
	06/01/2019	\$34.76	\$10.99	\$0.00	\$0.00	\$45.75
	12/01/2019	\$35.36	\$10.99	\$0.00	\$0.00	\$46.35
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
TRAILERS FOR EARTH MOVING EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$33.02	\$10.91	\$0.00	\$0.00	\$43.93
TREE TRIMMER <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	01/31/2016	\$18.51	\$3.55	\$0.00	\$0.00	\$22.06
This classification applies only to tree work done: (a) for a utility company, R.E.A. cooperative, or railroad or coal mining company, and (b) for the purpose of operating, maintaining, or repairing the utility company's equipment, and (c) by a person who is using hand or mechanical cutting methods and is not on the ground. This classification does not apply to wholesale tree removal.						
TREE TRIMMER GROUNDMAN <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	01/31/2016	\$16.32	\$3.55	\$0.00	\$0.00	\$19.87
This classification applies only to tree work done: (a) for a utility company, R.E.A. cooperative, or railroad or coal mining company, and (b) for the purpose of operating, maintaining, or repairing the utility company's equipment, and (c) by a person who is using hand or mechanical cutting methods and is on the ground. This classification does not apply to wholesale tree removal.						
VAC-HAUL/CATCH BASIN CLEANING <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2016	\$32.44	\$10.91	\$0.00	\$0.00	\$43.35

Additional Apprentices 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. Apprentices 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.