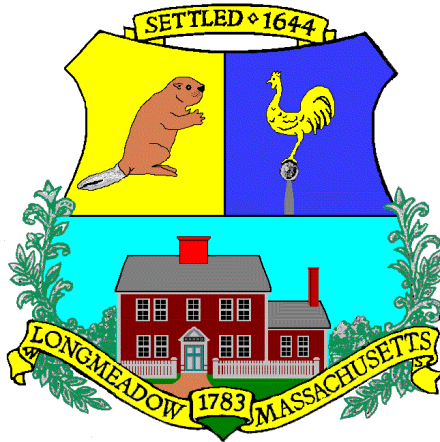


INVITATION FOR BID

ROADWAY RESURFACING FY20



TOWN OF LONGMEADOW
MASSACHUSETTS

July 4, 2019

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LEGAL NOTICE/ ADVERTISEMENT FOR BID:

**INVITATION FOR BID (IFB)
ROAD RESURFACING FY20**

The Town of Longmeadow invites sealed bids for road resurfacing and related work. Sealed bids should be delivered to the following address: Town of Longmeadow, Purchasing Department, Attn: Chad Thompson-Procurement Manager, 735 Longmeadow Street, Suite 101, Longmeadow, MA 01106. Sealed bids will be accepted until the bid deadline of **1:00PM on Thursday, July 18, 2019**. Late bids will be rejected. Bids received will be publicly opened and read aloud after the bid deadline, meet at the Purchasing Department where you will be led to the conference room for the bid opening. Sealed bids must have outer envelope marked: 'IFB: Road Resurfacing, FY20', followed with contact information of the bidder.

The road resurfacing work consists of improvements to roadways including but not limited to, the milling and disposal of bituminous concrete pavement; modification to drainage structures, installation of new catchbasin frames and covers, placement of hot mix asphalt, and removal and installation of new bituminous concrete berm, and removal and installation of new granite curbing, and removal and installation of sidewalk ramps.

All bids for this contract are subject to the provisions of Massachusetts General Laws Chapter 30, Section 39M as amended.

Bid documents may be examined and/or obtained at the Longmeadow Purchasing Department between the hours of 8:00 a.m. and 4:30 p.m., Monday through Thursday, and Friday 8:00 a.m. to noon, excluding legal holiday. Contact information: Phone: 413-565-4185, cthompson@longmeadow.org. Bid documents may also be accessed online through the Purchasing Department page of the Town website www.longmeadow.org by selecting 'Government' from the header, then select 'Purchasing' department, then select 'Bids & RFPs', then 'Bid & RFP Finder' to access bid documents by title. Bidders are encouraged to register with the Purchasing Department, those that do not register with the Purchasing Department will be responsible for monitoring the website for updates and addenda. Failure to acknowledge the receipt of addenda may result in a bid rejection.

All bidders shall furnish with their bid a guaranty in the form of a bid bond, certified check, treasurer's check, or cashier's check issued by a responsible bank or trust company, in the amount of 5% of the total amount of the bid made payable to the Town of Longmeadow, Massachusetts.

A fifty percent (50%) Payment Bond will be required of the successful bidder. No bid may be withdrawn within sixty (60) days after the date of the opening of bids.

This project is being funded in part by MassDOT Chapter 90 funds. MassDOT vendor pre-qualification is required. Minimum wage rates as determined by the Commissioner of Department of Workforce Development under the provision of the Massachusetts General Laws, Chapter 149, Sections 26 to 27H, as amended, apply to this project. It is the responsibility of the contractor, before bid opening, to request if necessary, any additional information on minimum wage rates for those trades people who may be employed for the proposed work under this contract.

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

END OF SECTION

SECTION A
GENERAL CONDITIONS

SECTION A

GENERAL CONDITIONS

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SECTION A

GENERAL CONDITIONS

DEFINITION OF TERMS

Article 1. Definition of Terms

Wherever in these Specifications or other Contractual Documents the following terms, or pronouns in place of them, are used, the intent and meaning shall be interpreted as follows:

<u>Addendum</u>	An addition to or alteration of the Plans and/or Specifications generally issued for clarification purposes prior to the opening of Proposals.
<u>Advertisement</u>	The notice published in newspapers and trade bulletins announcing the time and place for the opening of bids for work to be done.
<u>A.A.S.H.T.O.</u>	The American Association of State Highway and Transportation Officials.
<u>Alteration</u>	Change in the form or character of any of the work done or to be done.
<u>A.S.T.M.</u>	The American Society for Testing and Materials.
<u>Bidder</u>	Any individual, firm or corporation submitting a Proposal for the work contemplated, acting directly or through a duly authorized representative.
<u>Contract</u>	A written agreement executed by the parties thereto for the construction, reconstruction, alteration, remodeling, repair, demolition, improvement or development of any building, structure, addition, facility, system, or pipeline.
<u>Contractor</u>	A party to the Contract, acting directly or through an authorized lawful agent or employee.
<u>Engineer</u>	The Town of Longmeadow or his/her designee acting as an authorized representative, such representative acting within the scope of the particular duties entrusted to him/her.
<u>Extra Work</u>	Work or materials not called for in the Plans and Specifications and which is deemed necessary and authorized by the Engineer.
<u>Layout</u>	See Right of Way.
<u>Location</u>	See Right of Way.
<u>Lump Sum Contract</u>	One in which the Proposal is a fixed price; inclusion of alternates requested by the Owner for variations in the scope of the work does not modify or rescind this definition.
<u>Material</u>	Any article, assembly, system, or any component part thereof.
<u>Owner</u>	The Contracting or the Awarding Authority.
<u>Plans</u>	The Contract Drawings, detail sheets, or exact reproductions thereof, which show the location, character, dimension. And details of the work including any alterations thereof permissible under the Contract and authorized by duly approved written orders.
<u>Proposal</u>	The written offer of the Bidder submitted in approved form to perform the work contemplated under the Contract.
<u>Project</u>	The purpose for which bids have been called and work contracted for.
<u>Right of Way</u>	That area which has been laid out or acquired for the purpose of this project.
<u>Special Provisions</u>	The special directions, provisions and requirements prepared to cover Contract

requirements or work not satisfactorily provided for by these General Conditions. These Special Provisions shall be included within the general term "Specifications" and shall be made a part of the Contract with the express purpose that they shall prevail over all other Specifications.

Specifications

The directions, provisions and requirements, designated as Specifications, together with all written agreements made or to be made pertaining to the method and manner of performing the work, or the quantities and qualities of materials to be furnished under the Contract. The Specifications shall include the Instructions/Advertisement for Bidders, General Conditions, Special Provisions, State Mandatory Forms, Bond Descriptions, Bid and Contract Forms, Maps and Details, and Addenda.

Subcontractor

(a) For contracts awarded pursuant to sections 44A to 44L of Chapter 149, a person who files a sub-bid and receives a contract as a result of filing sub-bid or who is approved by the Owner in writing as a person performing labor or both performing labor and furnishing labor pursuant to a Contract with the General Contractor.

(b) A person approved by the Awarding Authority in writing as a person performing labor or both performing labor and furnishing labor pursuant to a Contract with the General Contractor.

(c) For contracts with the Commonwealth of Massachusetts not awarded as provided in rules 44A to 44L, inclusive, of Chapter 149, a person contracting with the General Contractor to supply materials used or employed in a public works project for a price in excess of five thousand dollars.

Unit Price Contract

One in which the Proposal is based on unit bid prices and estimated quantities; payment is based on field measurement of actual quantities completed or constructed.

The Words

"As directed", "as permitted", "as required", or words of like effect shall mean that the direction, permission or requirement of the Engineer is intended; and similarly the words "approved", "acceptable", "satisfactory", or words of like import shall mean approved by or acceptable or satisfactory to the Engineer, unless otherwise provided herein. The words "necessary", "suitable", "equal", or words of like import shall mean necessary, suitable or equal in the opinion of the Engineer.

The words "approval of the Owner" or "approval by the Owner" shall mean approval either by vote of or in writing by the duly authorized officials.

Written Notice

Shall be deemed to have been duly served if delivered in person to the individual, or to a member of the firm or to an officer of the Corporation for whom it is intended, or if delivered at or sent by certified mail - return receipt requested - to the last business address known to whomever who gives the notice.

PROPOSAL REQUIREMENTS AND CONDITIONS

Article 2. Contents of Proposal Forms

One set of Proposal Forms consisting of the documents listed below will be furnished by the Owner to each general bidder upon request at the office of the Longmeadow Procurement Manager. These proposal forms will be available without cost or charge except for a deposit for return of same in good condition.

The Specifications; including the Instructions/Advertisement for Bidders, General Conditions, Special Provisions, State Mandatory Forms, Bond Descriptions, Bid and Contract Forms, Maps and Details, and Addenda.

Article 3. Interpretation of Basic Estimates of Quantities for Unit Price Contracts

A. All bids will be compared on the basis of the Engineer's estimate of quantities of work to be done, as shown in the Proposal. These quantities are approximate only, being given as a basis for the comparison of bids. The Owner does not expressly or by implication agree that the actual amount of work will correspond therewith, but reserves the right to increase or decrease the amount of any class, item, or portion of the work as may be deemed necessary or expedient by the Owner.

Bidders are required to submit their estimate upon the following express conditions, which shall apply to and become part of every bid received. An increase or decrease in the quantity for any item or group of items shall not be regarded as cause for an increase or decrease in the prices, nor in the time allowed for the completion of the work, except as provided in the Contract. An increase or decrease in the quantity of work to be done shall not warrant any claim for loss, damage, or anticipated profit.

B. The work has been divided into classes and items in order to enable the bidder to bid on the different portions of the work in accordance with his/her estimate of their cost, so that in the event of an increase or decrease in the quantities of any particular class of work the actual quantities of any particular class of work the actual quantities executed may be paid for at the price bid for that particular class of work.

C. It is the intent of these specifications to provide valuable input for future hot mix asphalt (HMA) production and testing for the Town of Longmeadow. The Town will monitor the HMA according to these Special Provisions. All requirements of the Special Provisions will apply except that measurement and payment will be made in accordance with the MassDOT "Standard Specifications for Highways and Bridges".

D. Article 4. Examination of the Location

Statements as to the condition under which the work is to be performed, including plans, surveys, measurements, dimensions, calculations, estimates, borings, etc., are made solely to furnish a basis for comparison of bids, and the Owner does not guarantee that they are even approximately correct. This material represents the best factual information available to the Owner and is made available without the assumption of responsibility for its accuracy. The Contractor must satisfy him/herself by his/her own investigation and research regarding all conditions affecting the work to be done and labor and material needed, and make his/her bid in sole reliance thereon. The Contractor should carefully examine any materials furnished by the Owner, the location of the work, the difficulties to be encountered in doing the work, and all other factors relating to the project.

No allowance will be made, and no responsibility will be assumed, by the Owner for any failure of the Contractor to estimate correctly any difficulty attending the execution of the work.

In regard to subsurface soil conditions, the provisions of Chapter 30, Section 39M of the Mass. General Laws (recited hereinafter) will prevail in every Contract subject to Section 39M of Chapter 30 or Section 44A of Chapter 149.

"If, during the progress of the work, the Contractor or the awarding authority discovers that the actual subsurface or latent physical conditions encountered at the site differ substantially or materially from those shown on the plans or indicated in the contract documents, either the Contractor or the contracting authority may request an equitable adjustment in the contract price of the contract applying to work affected by the differing site conditions. A request for such adjustment shall be in writing and shall be delivered by the party making such claim to the other party as soon as possible after such conditions are discovered. Upon receipt of such a claim from a Contractor, or upon its own initiative, the contracting authority shall make an investigation of such physical conditions, and, if they differ substantially or materially from those shown on the plans or indicated in the contract documents or from those ordinarily encountered and generally recognized as inherent in work of the character provided for in the plans and contract documents and are of such a nature as to cause an increase or decrease in the cost of performance of the work or a change in the construction methods required for the performance of the work which results in an increase or decrease in the cost of the work, the contracting authority shall make an equitable adjustment in the contract price and the contract shall be modified in writing accordingly."

Article 5. Preparation of Proposals

A. Proposal Prices for Unit Price Contract

Each general bid shall be submitted upon a form furnished by the Owner. All words and figures shall be in ink. In case of discrepancy between the unit prices and the extended totals, the unit prices shall govern.

The bidder shall specify a unit price; in both words and figures, for each and every item for which a quantity is given, and shall also show the products of the respective unit prices and quantities, written in figures in the column provided for that purpose, and the total amount of the Proposal obtained by adding the amounts of the several items. In case of discrepancy between the unit prices and the extended totals, the unit prices shall govern. No bid will be accepted which does not contain a unit price for every item shown on the Proposal Form. No conditional bids will be accepted.

B. General

When an item in the Proposal contains a choice to be made by the bidder, the bidder shall indicate his/her choice in accordance with the Specifications for that particular item. Thereafter no further choice will be permitted without permission from the Owner.

The price for any item, bid and/or contracted for, unless otherwise noted or specified shall include full compensation for all materials, equipment, tools, labor and incidental work, necessary to complete the item to the satisfaction of the Engineer. The prices shall, without exception, include all royalties and costs arising from patents, trademarks, and copyrights in any way involved in the work.

C. Signatures

All Proposals shall be signed correctly with ink in the proper places provided, as follows: If the Proposal is made by an individual, his/her name and post office address shall be given. If the Proposal is made by a firm, partnership or corporation, it shall be signed by a person having such legal authority from the said firm, partnership or corporation and the person so signing the Proposal shall give his/her own name and title (if any) in addition to the name and address of the firm, partnership or corporation. If the Proposal is made by a firm or partnership, the names and addresses of the individual members shall be given. If the Proposal is made by a corporation, the name of the State under the laws of which the corporation was chartered and the names, titles and business addresses of the President, Treasurer and Manager and a certificate of vote granting authority to make such Proposal shall be given. If the Proposal is made by a foreign corporation, it must comply with the provisions of Chapter 181 of the Massachusetts General Laws and any amendments thereto. The Non-Collusion bid form must be completed and signed with the bid submission. Failure to supply a complete Non-Collusion form with the bid submission will result in a bid rejection.

Article 6. Delivery of Proposals

Each Proposal shall be submitted to the Owner in a sealed envelope. On the outside of the envelope shall be written the bidder's name and address and the words "IFB-Road Resurfacing". If forwarded by mail, the sealed envelope containing the Proposal, and marked as directed above, must be enclosed in another envelope addressed to the Owner. The recommended method of mailing shall be "Certified Mail - Return Receipt Requested".

Proposals shall be delivered as instructed in the Legal Notice / Advertisement for Bid. Proposals received by the Owner at the designated place after the time designated in the Advertisement for Bidders, or Proposals received at other than the designated place, will be returned to the bidder unopened. It is the bidder's responsibility to see that his/her Proposal is at the designated place at the designated time.

Article 7. Proposal Guaranty Required

In order to ensure the faithful fulfillment of its terms, each Proposal shall be accompanied by cash, certified check, bank check or lawful money or a bond from an approved surety in an amount of five percent (5%) as specified in the Bond Descriptions. Said check will be returned to the bidder unless retained by the Owner under the conditions hereinafter stipulated. Bids received that do not contain the mandatory bid deposit will be rejected.

Article 8. Public Opening of Proposals

Proposals will be publicly opened and read aloud at the time and place indicated in the legal notice or date as amended in an addendum (if any). Bidders should check the purchasing department page of the town website (www.longmeadow.org) for the link to active bids and any updates or addenda. Bidders or their authorized agents are invited to be present.

Article 9. Rejection of Proposals

Proposals which fail to meet the requirements of Articles 5, 6, and 7, or which are incomplete, conditional, or obscure, or which contain additions not called for, erasures, alterations, or irregularities of any kind, or in which errors occur, or which contain abnormally high or abnormally low bid prices for any class or item of work, may be rejected as informal. The Owner may waive any informalities in or reject any or all bids and may accept any bid the Owner deems to be in his/her best interests or in the best interests of the group represented by the Owner.

More than one Proposal from the same bidder, whether or not the same or different names appear on the signature page, will not be considered. Reasonable proof for believing that any bidder is so interested in more than one Proposal for the work contemplated will cause the rejection of all Proposals made by him/her directly or indirectly. Any or all Proposals will be rejected if there is reason for believing that collusion exists among the bidders.

Bidders whose Proposals have been rejected because of evidence of collusion as specified in Article 9 will not be considered in future Proposals for the same work, and such bidders may be disqualified from bidding on future work.

Article 10. Withdrawal of Proposals

Any bid may be withdrawn prior to the scheduled time for opening as shown in the Special Provisions or authorized postponements thereof. After the bid opening no bidder may withdraw his/her Proposal within sixty (60) days.

Article 11. Competency of Bidders

No Contract will be awarded except to responsible bidders capable of performing the class of work contemplated. Before the award of the Contract, any bidder may be required to show that s/he has the necessary facilities; experience, ability and financial resources to perform the work in a satisfactory manner and within the time stipulated. If the Contract contains special work of a complicated nature or if it contains items for materials or

work the character of which will depend upon the Contractor's skill or experience, s/he will be required to show proof that s/he has a satisfactory record of similar work performed or materials furnished under other Contracts. Bidders may be required to furnish the Owner with formal sworn statements as to their experience and their financial status.

Article 12. Material Guaranty

Before any Contract is awarded, the Bidder may be required to furnish without expense to the Owner, a complete statement of the origin, composition and manufacture of any or all materials proposed to be used in the construction of the work, together with samples, which samples may be subjected to the tests required by the Owner to determine their quality and fitness for the work.

Article 13. Addenda and Interpretations

No interpretation of the meaning of the Specifications or other Contract Documents will be made to any bidder orally. Every request for such interpretation should be made in writing addressed to Town of Longmeadow, Purchasing Department, Attn: Chad Thompson-Procurement Manager, 735 Longmeadow Street, Suite 101, Longmeadow, MA 01106. Fax: 413-565-4370, Email: cthompson@longmeadow.org. To be given consideration, the request must be received by the bid deadline time no later than 120 hours (5 days) prior to the date fixed for the opening of bids. Any and all such interpretations and any supplemental instructions will be in the form of written addenda to the Specifications which, if issued, will be mailed, fax or email.

All addenda will be posted online through the Town website before the bid deadline. To access IFB documents, forms and updates including issued addenda go to the Purchasing Department page of the Town website (www.longmeadow.org) and select 'Bid & RFP' links to access documents.

Acknowledge the receipt of issued addenda, if any, on the bid submission form. Failure of any bidder to receive any such addenda or interpretation shall not relieve any bidder from any obligation under his/her bid as submitted. All addenda so issued shall become part of the Contract Documents. Failure to acknowledge the receipt of addenda may result in a bid rejection.

AWARD AND EXECUTION OF THE CONTRACT

Article 14. Consideration of Bids

The Owner reserves the right to reject any or all Proposals, to waive any and all technicalities and informalities as described under Article 9, to advertise for new Proposals, or proceed to do the work otherwise, as it may deem best for its own interest.

Article 15. Award of Contract

Unit price Contracts will be compared on the basis of the totals of the sums obtained by multiplying the Engineer's estimate of quantities by the unit price stated on the Bid Submission Forms for each respective item.

The Contract will be awarded to the lowest responsible and eligible bidder on the basis of the Bid Total. Special attention is directed to the provision of General Laws Chapter 149, Section 44A defining the term 'lowest responsible and eligible bidder'. The successful bidder will be notified in writing, by mail, or otherwise, that his/her bid has been accepted and that s/he has been awarded the Contract.

If there is any discrepancy or issue with interpretation of bid pricing, the written words of the unit pricing shall prevail in determining and correcting the bid unit price and any recalculation of multiplication or addition thereafter.

Article 16. Return of Proposal Guaranty

All Proposal Guaranties of general bidders, except those under consideration by the Awarding Authority, will be returned within 5 days -- Saturdays, Sundays and legal holidays excluded -- after the opening of bids. Other Proposal Guaranties will be returned upon the execution and delivery of the general Contract.

Article 17. Contract Bond Required

Prior to the execution of the Contract, the Contractor will be required to furnish a surety bond in the amount specified in the Bond Descriptions as security for faithful payment of all persons performing labor on the project

under this Contract and furnishing materials and/or equipment in connection with this Contract.

The bond must be in the usual and approved form and must also contain the following: "the principal shall pay for all labor performed or furnished and for all materials used or employed, and shall pay all persons who contract with the principal for labor and materials as provided in the General Laws of Massachusetts, Section 29 of Chapter 149, then this obligation to be void, otherwise to remain in full force and effect."

Attorneys in fact who sign Contract Bonds must file with each bond a certified copy of their power of attorney to sign said bonds. The surety is to be a bonding company or security satisfactory to the Owner. Any bond must be with a bonding company having a place of business in the Commonwealth of Massachusetts.

Article 18. Execution of Contract

The Contractor to whom the Contract is awarded will be required to appear at the office of the Longmeadow Procurement Manager with the surety offered by him/her and to execute the Contract within five days -- Saturdays, Sundays and legal holidays excluded -- after presentation thereof by the awarding authorities, and execute a Contract in accordance with the terms of his/her bid. The Contract shall be in writing on the forms provided.

Article 19. Failure to Execute Contract

Should the successful bidder fail to execute the Contract and/or to furnish the Contract Bond and Insurance as herein specified within the five-day time limit specified herein before, the Owner may at its option determine that the bidder has refused to execute a Contract with the Owner. The Owner may then offer the Contract to the next lowest responsible bidder if the Owner deems it to be advisable.

If any general bidder fails to execute a Contract within five days -- Saturdays, Sundays and legal holidays excluded -- then the bidder's Proposal Guaranty shall be forfeited as liquidated damages and the Contract may be offered to the next lowest responsible bidder.

SCOPE OF WORK

Article 20. Intent of Specifications

It is the intent that the Specifications shall prescribe a complete work or improvement; and when the work is completed, the Contractor shall leave the job site in a neat and finished condition.

The Contractor shall do all the work and furnish all the materials, tools and appliances, except as otherwise specified, necessary or proper for performing and completing the work required by the Contract, in the manner and within the time specified, and in accordance with the Specifications for the work, at the prices agreed upon.

All the work, labor and materials to be done and furnished under the Contract shall be done and furnished strictly pursuant to, and in conformity with, the Specifications for the work, which said Specifications shall form part of the Contract, and also in accordance with the directions of the Engineer as given from time to time during the progress of the work under the terms of the Contract.

The Town will monitor the HMA according to these Special Provisions. All requirements of the Special Provisions will apply except that measurement and payment will be made in accordance with the MHD "Standard Specifications for Highways and Bridges".

Article 21. Special Conditions

Construction items or conditions anticipated for any proposed work, and not covered by these "General Conditions", will be described and specified in "Special Provisions". Said Special Provisions shall be considered a part of the Contract. In case of conflict between the said Special Provisions and General Conditions, the Special Provisions shall govern.

Article 22. Alteration of Work

Should it be found desirable by the Engineer to make alterations in the form or character of any of the work done, or to be done, the Engineer may order such alterations to be made, defining them in writing, and the alterations shall be made accordingly. Provided that in case such alterations increase the cost of the work, the Contractor shall be remunerated at prices based on prices allowed on the same character of work under

Specifications, and in case the alterations shall diminish the cost of the work, no allowance will be made for anticipated profits.

In case of any alteration, change or addition to the work as originally contemplated, and if said alteration, change or addition justified an increase in the cost of the work, the Owner reserves the right to decide the method that will be used to determine said additional costs (See Article 72).

In case of any alterations, so much of the Contract as is not necessarily affected by such alterations shall remain in force upon the parties thereto, and such alterations shall be made under the terms of and as part of the Contract, and the security for the performance of the Contract shall not be invalidated, but shall be held to secure in like manner the performance of the alterations made under the Contract and of any extra work done under provisions of Article 23.

The Contractor shall perform the work as increased or decreased within the qualifying limits named and subject to the provisions outlined above, but no allowance shall be made for any change in anticipated profits. Adjustments shall be considered waived unless specific complaint is made in writing by the Contractor previous to the construction of such alteration or change and within three calendar days following notice from the owner of such alteration or change.

Article 23. Extra Work

The Contractor shall do any work not herein otherwise provided when and as ordered in writing by the Engineer. If the Contractor claims that any instructions from the Engineer involve extra cost or an extension of time, s/he shall so notify the Engineer in writing within three (3) calendar days after the receipt of the Engineer's instructions and in any event before proceeding to execute the extra work. No claim from the Contractor will be considered valid unless made in accordance with the terms of this Article.

Such notice by the Contractor and the keeping of costs by the Engineers shall not in any way be construed as proving the validity of the claim. Payment for extra work will be made in accordance with the provisions of Article 72.

The Owner may, at any time by a written order, and without notice to the surety or sureties, require the performance of such changes in the work as it may find necessary or desirable.

Article 24. Maintenance of Detours

When required by the Owner, a project shall be closed to travel during construction. Suitable detours shall be provided and maintained as directed or as specified in Articles 49 and 50 of the General Conditions. Payment for this work is to be included by the Contractor in his/her price for the work. No special payment will be provided unless otherwise stated in the Specifications.

Article 25. Removal and Disposal of Structures and Obstructions

Existing structures such as bridges, culverts, dikes, walls, pipes, guardrail, fences, street railway ties and rails, found within the project limits or right-of-way, which are to be replaced or rendered useless by new construction, shall be removed by the Contractor at his/her own expense unless otherwise provided in the Specifications. When their location is such as not to interfere with the work, the removal shall not be done until the new structures replacing them are ready for traffic or until the Engineer shall permit.

All material in existing structures requiring removal shall remain the property of the Owner. The material shall be removed without damage, in sections which will permit easy handling and disposal, to locations within the limits of the project, and convenient for their subsequent removal by the Owner, or as directed by the Engineer. All discarded material, rubbish or debris shall be removed from the work and disposed of as directed. No foreign material or debris shall be permitted to remain or move in a waterway.

Article 26. Rights in the Use of Materials Found on the Work

The Contractor with the approval of the Engineer, may use suitable ledge, gravel, sand, loam, clay, or other material from within the location lines of the project under construction. If such use necessitates securing additional material for forming embankments, the Contractor shall at his/her own expense, furnish an amount of borrow of a satisfactory quality, equal to the amount of material taken, as measured in excavation. The Contractor shall not excavate or remove any material which is not within the excavation as indicated by the slope stakes and grade lines, without written approval. No excavated material suitable for use shall be wasted, unless as directed.

Unless otherwise provided the material from any existing structure may be used temporarily by the Contractor during construction. Such material shall not be cut, bent, broken or otherwise damaged.

Nothing in the Contract shall be construed as vesting in the Contractor any right or property in the materials used after they have been attached or affixed to the work or the soil; but all such material shall, upon being so attached or affixed, become the property of the Owner.

Article 27. Final Cleaning Up

Upon completion of the work and before acceptance and final payment, the Contractor shall remove, at his/her own expense, from the project location and from adjoining property, all temporary structures and all surplus material and rubbish which may have accumulated during the prosecution of the work, and shall leave the work broom clean and in a neat and orderly condition.

No equipment or materials shall be left on the right-of-way or project limits without the written permission of the Engineer.

Unless otherwise provided, the Contractor shall be responsible for the work for a period of ONE YEAR after date of Acceptance. Neither the making of partial payments nor the making of the final payment shall relieve the Contractor of responsibility for faulty materials or workmanship and, unless otherwise specified, s/he shall remedy any defects and pay for any damage resulting from faulty materials or workmanship which shall appear within a period of ONE YEAR from the date of Acceptance (See Articles 73, 74 and 75, hereof).

CONTROL OF WORK

Article 28. Authority of the Engineer

The Engineer, or his/her authorized designee, shall decide all questions which may arise as to the quantity, quality, acceptability, fitness and rate of progress of the several kinds of work to be performed and materials to be furnished under the Contract, and shall decide all questions which may arise as to the interpretation of any part of the Contract, especially the Specifications which are a part thereof, as to the fulfillment of this Contract on the part of the Contractor, and the determination and decision of the Engineer shall be final and conclusive; and such determination and decision, in case any question shall arise, shall be a condition precedent to the right of the Contractor to receive any money hereunder.

The Engineer assumes no liability whatsoever for the obligations entered into by the Owner, or by the Engineer on behalf of the Owner, and the Contractor must look solely to the Owner for payment of any claims.

Article 29. Specifications

All work shall be performed in strict conformity with the approved Specifications for the project. The Owner is responsible for the adequacy of the design and sufficiency of the Specifications. The Owner, through the Engineer, or the Engineer acting as the Owner's representative, will furnish with reasonable promptness, additional instructions necessary for the proper execution of the work. These additional instructions may be either additional specifications or descriptions as necessary. These additional instructions will become a part of the complete Contract Document.

Article 30. Conformity with Specifications and Allowable Deviations

The finished work shall conform in all respects to the information detailed in the Specifications. Where conditions make it necessary or desirable for major deviation from the Specifications, such changes shall be made as specified in Article 22 and 23, upon authorization in writing by the Owner.

Article 31. Coordination of Specifications and Plans

The Instructions/Advertisement for Bidders, General Conditions, Special Provisions, State Mandatory Forms, Bond Descriptions, Bid and Contract Forms, Maps and Details, and Addenda, and all supplementary documents, are essential parts of the Contract, and a requirement occurring in one is as binding as though occurring in all. The Contract Documents are complementary and what is called for by any one shall be as binding as if called for by all. In case of disagreement, the Special Provisions shall have precedence over the General Conditions.

Article 32. Cooperation by Contractor

The Contractor will be given the reasonably necessary number of copies of approved Addenda and Specifications. S/he shall have one copy of all such information and a copy of the Specifications on the work and available for reference at all times during the prosecution of the work.

The Contractor shall have at all times a competent and reliable superintendent or foreman on the work, authorized to receive orders and to act for him/her. Whenever the Contractor is not present on any part of the work when it may be desired to give directions, orders will be given by the Engineer and they shall be received and executed by the foreman or superintendent who is in charge of the particular work in reference to which the orders are given.

The superintendent shall not be changed during the progress of the work without the consent of the Engineer unless s/he shall prove to be unsatisfactory to the Contractor, and on this account or otherwise shall cease to be in the Contractor's employment.

The Contractor shall provide all reasonable facilities to enable the Engineer to inspect the workmanship and materials entering into the work. S/he shall cooperate in the matter of setting and preserving stakes, bench marks, etc., for controlling the work.

The Contractor shall so carry on his/her work under the direction of the Engineer that public service corporations, or municipal departments may enter on the work to make changes in their structures or to place new structures and connections therewith without interference, and the Contractor shall have no claim for or on account of any delay which may be due to or result from said work of public service corporations or municipal departments.

Article 33. Adjacent Contracts and Operations

Interference with the normal operation of adjacent facilities or equipment of the Owner shall be avoided wherever possible. Upon request by the Contractor, the Engineer will determine in advance whether such interference with existing facilities is unavoidable and will establish the necessary procedures involved. Except in an emergency involving the protection of life or property, the Contractor shall not operate any of the Owner's equipment, control devices, or similar items, except in the presence of and at the direction of a responsible representative of the Owner and the Engineer.

The Owner reserves the right to carry on work adjacent to the work under this Contract by either letting other Contracts or by use of the Owner's forces. The Contractor shall afford other Contractors and the Owner's forces reasonable opportunity for the carrying out of their work and shall properly coordinate his/her work with theirs. Wherever work being done by the Owner's forces or by other Contractors is adjacent to work covered by this Contract, the respective rights of the various interests involved shall be established by the Engineer so as to secure the rapid completion of the various portions of the work in a most harmonious fashion

If any part of the Contractor's work under this Contract depends for proper execution or results upon the work of any other Contractor or upon the Owner's forces, the Contractor shall inspect and properly report to the Engineer any defects in such work that render it unsuitable for proper execution and results. This Contractor's failure to so inspect and report shall constitute an acceptance of the other work as fit and proper or the reception of his/her work, except as to defects which may develop in the other work after the execution of this Contractor's work.

Article 34. Construction Surveys

The Owner will furnish to the Contractor the necessary benchmarks and base lines for locating the principal component parts of the work contemplated under this Contract. Based on this information, the Contractor shall lay out the work, marking and identifying all necessary points for construction as may be required. The Contractor shall furnish free of charge, all protective stakes and temporary structures as may be necessary for marking and maintaining points and lines given by the Engineer for the building of the work, and shall give the Engineer such facilities and materials for establishing said lines and points as s/he may require. The Engineer's stakes, benchmarks, and base lines shall be carefully preserved. If the Engineer's stakes and points are lost through the neglect of the Contractor and must be re-established, they will be re-established at the Contractor's expense.

Article 35. Authority and Duties of Engineer's Assistants

The Engineer may appoint such assistants and representatives as he desires and they shall be authorized to inspect work and materials, to give directions pertaining to the work or to the safety and convenience of the public, to approve or reject materials, to make measurements of quantities and to perform such other duties as may be designated by the Engineer.

In case of any dispute arising between the Contractor and the Engineer's assistants, as to materials furnished or the manner or performing the work, the Engineer's assistants shall have the authority to reject the materials or to suspend the work until the question at issue can be referred to and decided by the Engineer.

Engineer's assistants are not authorized to revoke, alter, enlarge, relax or release any requirements of these Specifications nor to issue instructions contrary to the Specifications. They shall in no case act as foreman or perform other duties for the Contractor.

Article 36. Inspection of Work and Materials

The Engineer's agents and employees of the Owner may for any purpose enter upon the work and premises used by the Contractor and the Contractor shall provide safe and proper facilities therefore.

The inspection or non-inspection of the work shall not relieve the Contractor of any of his/her obligations to fulfill the terms of the Contract as herein prescribed by the Specifications.

The Contractor shall furnish the Engineer or his/her authorized representative with every reasonable facility and assistance for ascertaining whether or not the work as performed is in accordance with the requirements and intent of the Specifications. If so directed, the Contractor shall, at any time, before the acceptance of the work, remove or uncover any portions of the finished work necessary for inspection. After the inspection, the Contractor shall restore said portions of the work to the condition required by the Specifications.

The Contractor shall furnish written information to the Engineer stating the original sources of supply and dates of manufacture of all materials manufactured away from the actual site of the work. In order to ensure a proper time sequence for required inspection and approval, this information shall be furnished at least two (2) weeks (or otherwise directed by the Engineer) in advance of the incorporation in the work of any such materials.

Failure to reject any defective work or materials shall not in any way prevent later rejection when such defect is discovered, or obligate the Owner to make final acceptance.

Article 37. Removal of Defective or Unauthorized Work

All defective work shall be removed, repaired or made good, notwithstanding that such work has previously been inspected and approved or estimated for payment. If the work or any part thereof shall be found defective at any time before the final acceptance of the whole work, the Contractor shall at his/her own expense make good such defect in a satisfactory manner. If the defective or unauthorized work to be corrected was originally done by the Contractor, then s/he shall promptly correct his/her own work in accordance with the Contract and without expense to the Owner. If the defective or unauthorized work was carried out by a sub-contractor, then the sub-

contractor shall carry out the replacement or corrective work as directed by the Contractor and the Engineer.

Any work done beyond the lines and grades as given, except as herein provided, or any extra work done without authority, shall be considered as unauthorized and at the expense of the Contractor. Such work will not be measured nor compensation allowed therefore. Work so done may be ordered removed at the Contractor's expense.

Upon failure of the Contractor to remove and satisfactorily dispose of any or all defective or unauthorized work, and to remedy the same after being so notified, the Engineer may cause such defective work to be remedied, removed and replaced, and such unauthorized work to be removed; and to deduct the costs therefor from any monies due to become due the Contractor.

Article 38. Final Inspection Report

Upon presentation of the Contractor's certification that the work has been substantially completed, the Engineer, as the authorized representative of the Awarding Authority, shall carry out a final inspection of the work and shall either certify to the Owner that the work required under the Contract has been substantially completed, or that the work has not been substantially completed. In the latter event, the Engineer, as the duly authorized representative of the Awarding Authority, shall prepare and submit to the Contractor an itemized list of incomplete or unsatisfactory work items required by the Contract which will be sufficient to demonstrate that the work has not been substantially completed.

Substantial completion shall be as defined in Chapter 30, Section 39G 6f the MGL as most recently amended by Chapter 460 of the Acts of 1978 or as amended thereafter.

Final completion, as required for meeting the requirements of the Contract for completion within the specified time, shall occur when, in the opinion of the Engineer, all work required under the Contract has been completed including all items of work on punch lists issued by the Engineer.

CONTROL OF MATERIALS

Article 39. Source of Supply and Quality

The source of supply of each material shall be approved by the Engineer before delivery is started.

The Contractor shall furnish all materials required for the work specified in the Contract, and said materials shall meet the requirements of the Specifications for the kind of work involving their use.

Only new and first quality materials, conforming to the requirements of these Specifications and approved by the Engineer, shall be used in the work. If, after trial, it is found that sources of supply which have been approved do not furnish a uniform product, or if the product from any source proves unacceptable at any time, the Contractor shall furnish approved material from other approved sources.

The Contractor may be required to furnish sworn certificates as to quality and quantity of materials before said materials are incorporated in the work.

Article 40. Samples and Tests

Tests of materials will be made by the Owner or under its direction, unless noted in the Specifications. The Contractor shall furnish such facilities as the Engineer may require for collecting and forwarding samples, and shall not make use of, or incorporate in the work, any material represented by the samples until the required tests have been made and the material accepted. The Contractor, in all cases, shall furnish the required samples without charge. Where tests are required of materials already incorporated in the work, the Contractor shall furnish samples, cut from the completed work at a time and as directed by the Engineer. The area affected by the removal shall be replaced and refinished and the Contractor will receive no special compensation for any of the aforesaid work.

Article 41. Delivery and Storage of Materials

Materials and equipment shall be progressively delivered at the site so there will be neither delay in the progress of the work nor an accumulation of material that is not to be used within a reasonable time.

Materials shall be stored at the expense of the Contractor so as to ensure the preservation of their quality and fitness for the work. When considered necessary by the Engineer, they shall be placed on wooden platforms or

other hard clean surfaces, and not on the ground. Motors and mechanical equipment shall be placed in secure, dry and heated storage when directed by the Engineer. Stored materials shall be so located as to facilitate prompt inspection.

Article 42. Defective Materials

Materials not conforming to these Specifications shall be rejected, and removed from the work by the Contractor as directed. No rejected material, the defects of which have been subsequently corrected, shall be used except with the permission of the Engineer. Should the Contractor fail to remove defective material within the time indicated in writing, the Engineer shall have the authority to remove and replace the defective material, and the cost of such removal and replacement will be deducted from any monies due or to become due the Contractor.

The Contractor shall carefully inspect all materials and work furnished or provided by the Owner. Any defects observed by the Contractor shall be reported to the Engineer in writing. The Contractor's failure to so inspect and promptly report any defects shall constitute an acceptance of the materials and/or work furnished as being fit and proper for installation by the Contractor or for the reception of this Contractor's work. Thereafter, any defect observed shall be made good by the Contractor except that if the defect is in materials furnished by the Owner and is not related to the Contractor's actions, then the Owner will furnish new materials at no cost to the Contractor.

LEGAL RELATIONS AND CONTRACTOR'S RESPONSIBILITY

Article 43. Laws to be Observed

The Contractor shall keep him/herself fully informed of all existing and future Federal and State Laws, Municipal Ordinances and Federal, State and local Regulations, in any manner affecting those engaged or employed in the work, or the materials used in the work, or in any way affecting the conduct of the work, and of all such orders and decrees of bodies or tribunals having any jurisdiction or authority over the same. If any discrepancy or inconsistency is discovered in the Contract for this work in relation to any such law, ordinance, regulation, order or decree, s/he shall forthwith report the same to the Engineer in writing. S/he shall, at all times him/herself observe and comply with all such existing and future laws, ordinances, regulations, orders and decrees.

The Contractor's attention is directed to the fact that all applicable Federal, State and Municipal laws, rules and regulations of all authorities having jurisdiction affecting the project are deemed to be included herein, the same as though herein written in full. The Contractor's attention is directed to the Occupational Safety and Health Act 29 CFR Part 1926 and all amendments thereto which Act is commonly referred to as OSHA.

Article 44. Insurance Requirements

Compensation Insurance for Workmen and Traffic Officers

- A. The Contractor shall, before commencing performance of the Contract, provide by insurance for the payment of compensation and the furnishing of other benefits under Chapter 152 of the General Laws, to all persons to be employed under the Contract, and s/he shall continue such insurance in full force and effect during the term of the Contract.
- B. The Contractor shall take out and maintain at his/her own expense, insurance against damage arising from injury to uniformed police, referred to in Article 56, while they are engaged in the performance of their duties. The coverage and provisions of such insurance shall be similar to those required to ensure employees of the Contractor under the Workmen's Compensation Act, and shall be in addition thereto.

Contractor's Public Liability and Property Damage Liability Insurance

- A. The Contractor shall furnish evidence to the Owner that with respect to the operations s/he performs, s/he carries Contractor's Public Liability insurance providing for a limit of not less than a monetary value specified in the Supplementary Conditions for all damages arising out of bodily injuries or death in any accident, and Contractor's Property Damage Liability Insurance providing for a limit of not less than a monetary value specified in the Supplementary Conditions for all damages arising out of injury to or destruction of property, subject to that limit per accident a total (or aggregate) limit of a monetary value specified in the Supplementary Conditions for all damages arising out of injury to or destruction of property during the policy period.

- B. If any part of the work is sublet, similar insurance shall be provided by or in behalf of the Subcontractors to cover their operations.
- C. Such property damage and public liability insurance as are provided under this Contract must cover all the various types and items of work that are to be undertaken. For the purpose of this Contract, the insurance shall be considered to be in full effect from the date of signing of the Contract to the date of the last day of the guarantee period.
- D. To the fullest extent permitted by Laws and Regulations Contractor shall indemnify, defend and save harmless Owner and Engineer and their consultants, agents and employees from and against all claims, damages, losses and expenses, direct, indirect or consequential (including but not limited to fees and charges of engineers, architects, attorneys and other professionals and court and arbitration costs) arising out of or resulting from the performance of the Work, provided that any such claim, damage, loss or expense (A) is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of any property (other than the Work itself) including the loss of use resulting therefrom and (B) is caused in whole or in part by any act, error, omission of Contractor, any Subcontractor, any person or organization directly or indirectly employed by any of them to perform or furnish any of the work or anyone for whose acts any of them may be liable, regardless of whether or not it is caused in part by a party indemnified hereunder or arises by or is imposed by Law and Regulations regardless of the negligence of any such party.
- E. If, through acts of neglect on the part of Contractor, any other Contractor or any Subcontractor shall suffer loss or damage on the Work, Contractor shall settle with such other Contractor or Subcontractor by agreement or arbitration if such other Contractor or Subcontractor will so settle. If such other Contractor or Subcontractor shall assert any claim against Owner on account of any such damage alleged to have been sustained, Owner shall notify Contractor, who shall indemnify, defend, and save harmless Owner against any such claim.
- F. If any and all claims against Owner or Engineer or any of their consultants, agents or employees by any employee of Contractor, any Subcontractor, any person or organization directly or indirectly employed by any of them to perform or furnish any of the Work or anyone for whose acts any of them may be liable, the indemnification obligation under the foregoing paragraphs shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for Contractor or any such Subcontractor or other person or organization under workers' or workmen's compensation acts, disability benefit acts or other employee benefit acts, but in all events the Contractor shall indemnify, defend and hold harmless the Owner and Engineer for all such claims.
- G. The obligations of Contractor under the foregoing paragraph shall not extend to the liability of Engineer, Engineer's consultants, agents or employees arising solely out of the preparation or approval of maps, drawings, opinions, reports, surveys, Change Orders, designs or specifications.

General.

- A. Each insurance policy and each certificate of insurance shall include the name of the Awarding Authority and contain the stipulation that no cancellation of such insurance, whether by the insurer or by the insured, shall be valid unless written notice thereof is given by the party proposing cancellation to the other party and to the officer or agent who awarded the Contract at least fifteen days prior to the intended effective date thereof, which date shall be expressed in said notice. Notice of cancellation sent by the party proposing cancellation, by registered mail, postage prepaid, with a return receipt of the addressee requested, shall be sufficient notice. An affidavit of any officer, agent or employee of the insurer or of the insured, as the case may be, duly authorized for the purpose, that s/he has so sent such notice addressed as aforesaid shall be prima facie evidence on the sending thereof as aforesaid. This section shall apply to the legal representatives, trustee in bankruptcy, receiver, assignee, trustee and the successor in interest of any such Contractor.
- B. Satisfactory proof of insurance coverage shall be given to the Owner. Four copies of the insurance certificate shall be furnished prior to the signing of the Contract. A complete policy will be furnished to the Engineer before the beginning of construction operation.
- C. Failure to provide and continue in force all insurance required under the Contract during the life of this Contract shall be deemed a breach of the Contract and shall operate as an immediate termination thereof.
- D. The aforesaid insurance shall be taken out and maintained at Contractor's expense.

Article 45. Massachusetts Department of Labor and Industries Minimum Wage Rates

For all Contracts subject to the provisions of Section 39M of Chapter 30 and/or Sections 44A to 44L of Chapter 149 of the Massachusetts General Laws, the Contractor shall comply with the Provisions of Section 26 to 27H, inclusive, of Chapter 149 of the General Laws of Massachusetts, as amended.

Article 46. Permits, Licenses and Approvals

The Contractor shall procure at his/her own expense all permits, licenses and approvals, pay all charges and fees and give all notices necessary and due in connection with the lawful prosecution of the work. This shall apply equally regardless of whether the permits and licenses are of a temporary nature necessary for the execution of the work or whether they are for permanent structures or permanent changes in existing facilities.

The Contractor shall give all notices and comply with all laws, ordinances, rules and regulations having an effect on the work as drawn and specified by the Engineer.

Article 47. Patented Devices, Materials and Processes

Whenever the Contractor desires to use any design, device, material or process covered by letters patent or copyright, the right for such use shall be secured by suitable legal agreement with the patentee or Owner, and a copy of this agreement shall be filed with the Owner.

The Contractor shall save and hold the Owner harmless from all loss, cost, damage or expense that it may be put to be reason of any alleged infringements of any patent, or patents, covering the manufacture, installation or use of any part of the apparatus or equipment, or any machinery or mechanism or part of thing installed or used, or installed for the purpose of use in the work hereinafter contemplated. The Contractor does further agree that the Owner shall not be disturbed in the use or operation or installation of work or equipment herein contemplated by litigation based upon such alleged infringements, and the Contractor does hereby further agree that at his/her own expense s/he will defend any and all suits or proceedings for infringement, or otherwise, that may be brought or instituted by any party, persons, companies, or corporations against the said Owner for alleged infringement or infringements of any patent or patents. Notice of such action or of any action under infringement proceedings shall be served on the Contractor at his/her address in writing by registered mail by the Owner.

Said Contractor shall then be required, through counsel; to assume the defense of and to defend same at his/her own expense.

Article 48. Sanitary Facilities, Weather Protection and Heat

The Contractor shall provide and maintain in a neat and sanitary condition such accommodations for the use of his/her employees as may be necessary to comply with the requirements of health officials, local and state requirements for weather protection and heat, and of other authorities having jurisdiction.

Article 49. Public Safety and Convenience

The Contractor shall be responsible for the maintenance of traffic over, through and around the work included in his/her Contract with the maximum of safety and practicable convenience to such traffic during the life of the Contract, and whether or not work thereon has been suspended temporarily. S/he shall take all precautions for preventing injuries to persons or damage to property in or about the work. If the Contractor constructs temporary bridges or provides temporary crossings of streams, his/her responsibility for accidents shall include the roadway approaches as well as the structures of such crossings.

The work shall be carried on in such a manner as to provide safe passage at all times for public travel and with least obstruction to traffic. The convenience of the general public and of residents along and adjacent to the project shall be provided for in an adequate and satisfactory manner. The Contractor shall provide and maintain at his/her own expense (except as otherwise provided herein) in a safe and passable condition, such temporary bypasses and temporary bridges as may be necessary to accommodate traffic on and around the construction; and s/he shall provide and maintain, in a safe condition, temporary approaches to and crossings of intersecting highways.

Roads shall be closed to travel only as directed by the Engineer. Where the new construction coincides with the present traveled way, the Contractor shall so carry on his/her work that travel will not be obstructed. The Contractor shall at all times so conduct the work that the abutters shall have reasonable access to their property as directed by the Engineer. When it is necessary to leave materials and equipment upon the highway they shall

be placed so as to cause the least possible interference to pedestrians and other travel.

Approval of local fire department authorities shall be obtained prior to closing any private or public road to travel.

When the work in any way affects the operation, management, maintenance, business or traffic, on any railroad, such work shall be carried on in a manner satisfactory to the said railroad. The Contractor shall use all possible vigilance in order to effectually guard against all accidents or damages on the railroad due to his/her work, and the Contractor shall at all times during the progress of the work so manage and execute the same as to cause the least possible interference with the operation, management, business or traffic of the railroad.

In the event that the Contractor fails to comply with the provisions of this Article, then the Owner shall proceed to make such required improvements, detours, by-passes, etc., as s/he believes necessary. The Owner shall, at his/her own discretion, either proceed with said work immediately or after a suitable time limit specified in a notice to the Contractor. The cost of said work will be borne by the Contractor.

Article 50. Barricades, Warning Signs and Lights

The Contractor shall at his/her own expense provide, place and erect all necessary barricades and warning signs and furnish and keep lighted all lights necessary to protect the work, traffic, pedestrians and animals. S/he shall also furnish at his/her own expense a sufficient number of watchmen at all times to protect the work.

Highways closed to traffic shall be protected by suitable barricades and warning signs, and the Contractor shall provide and maintain adequate lights and illumination therefore. S/he shall be held responsible for all damage due to any failure of signs and barricades to protect the work properly from traffic, pedestrians, animals or other cases.

In the event that the Contractor fails to comply with the provisions of the Article, then the Owner shall proceed to make such required improvements detours, bypasses, etc., as s/he believes necessary. The Owner shall, at his/her own discretion, either proceed with said work immediately or after a suitable time limit specified in a notice to the Contractor. The cost of said work will be borne by the Contractor.

Article 51. Protection and Restoration of Property

The Contractor shall, at his/her own expense, preserve and protect from injury all property either public or private along and adjacent to the project, and s/he shall be responsible for and repair at his/her own expense any and all damage and injury thereto. S/he shall exercise special care during his/her operations to avoid injury to underground structures such as water or gas mains, pipes, conduits, manholes, catch basins, etc.

The Contractor shall cooperate with representatives of public service companies in order to avoid damage to their structures by furnishing and/or erecting suitable supports, props, shoring or other means of protection.

The Contractor shall comply with the provisions of Chapter 82, Section 40 of the Massachusetts General Laws and shall notify public utility companies in writing at least 48 hours before excavating in a public way. For the purpose of this Contract, this requirement for advance notice in writing shall apply to all utilities, both public and private, and shall apply to all locations at which construction is to be carried out.

Fire hydrants adjacent to the work at all times shall be readily accessible to fire apparatus and no material or other obstructions shall be placed within a radius of ten (10) feet of a fire hydrant.

The Contractor shall confine his/her movements and operations to the limits of the location; the area outside the scope of work shall not be disturbed.

Land monuments and property markers shall be carefully protected. If the Engineer deems it necessary to remove the same, the Contractor shall do so only after a Land Surveyor, registered in the Commonwealth of Massachusetts, has witnessed or otherwise referenced their location. When so directed by the Engineer, the Contractor shall authorize his/her designated registered Land Surveyor to return said monuments and property markers to their exact location.

The Contractor shall not injure or remove trees or shrubs without prior written approval of the Engineer. Trees and shrubs temporarily removed shall be replaced. If any such tree or shrub fails to survive transplanting, it shall be replaced by a tree or shrub of same species and similar size.

Article 52. Responsibility for Claims

The Contractor shall assume complete responsibility for the work and take all precautions for preventing injuries to persons and property in or about the work. All injury or damage of whatever nature resulting from the work, or resulting to persons, property or the work during its progress, from any cause whatsoever, shall be the responsibility of and borne by the Contractor. S/he shall bear all losses resulting on account of the amount or character of the work, or on account of the weather elements or on account of other causes.

Damage to materials furnished by the Owner or damage to the Owner's property, either now existing or constructed under this Contract, and all loss or deterioration occurring prior to the final acceptance of the work, and resulting from the Contractor's operations, shall be replaced by the Contractor at no expense to the Owner.

The Contractor shall indemnify the Owner and the Consulting Engineer in accordance with provisions of last four paragraphs of Article 44, Section 2. Contractor's Public Liability and Property Damage Liability Insurance of these General Conditions.

Article 53. Contractor's Responsibility for the Work

Until its final acceptance by the Owner, the Contractor shall assume full charge and care of the work and s/he shall take every necessary precaution against injury or damage to the work by action of the elements, or from any cause whatsoever, whether arising from the execution or non-execution of the Contract. The Contractor shall bear all losses resulting to him/her on account of the amount or the character of the work, or because the nature of the land in or on which the work is done is different from what was estimated or expected, or on account of the weather elements, or other causes.

The Contractor shall rebuild, repair, restore and make good at his/her own expense, all injuries or damages to any portion of the work occasioned by any of the above causes before the completion and acceptance of the work by the Owner. Issuance of partial payment on any part of the work done shall not be construed as final acceptance of any work completed up to that time.

The Contractor shall reimburse the Owner for all expenses, losses, or damages, as determined by the Engineer, incurred by or in consequence of any defect, act, omission, neglect, or mistake of the Contractor, his/her employees, or Subcontractors.

The Contractor will be held responsible for any and all claims for damage to underground structures such as water or gas mains, pipes, conduits manholes or catch basins, due to his/her operations or to the operations of any of his/her employees or Subcontractors.

Locations shown for existing underground pipes and utilities are approximate only, as determined from records, M-scope surveys and field observation. The Contractor shall have no claim if any utility or pipeline is not shown in correct location or is present but not mentioned in the Specifications. The Contractor shall be responsible for notifying utility owners in reasonable advance of his/her work and s/he shall request of the utility owner the staking out on the ground surface, of underground utilities and structures. The Contractor shall notify the Engineer of any refusal or failure to stake out utilities after reasonable notice, and the Engineer and the Contractor will jointly take reasonable action to determine the location of the utilities before the beginning of excavation.

Article 54 No Waiver of Legal Rights

Neither the inspection by the Owner nor any of its employees or agents, nor any order, measurement or certificate by the Engineer, nor any order by the Owner for the payment of money, nor any payment for, or acceptance of, the whole or any part of the work by the Engineer or Owner, nor any extension of time, nor any possession taken by the Owner or its employees, shall operate as a waiver of any provision of the Contract, or of any power herein reserved to the Owner or any right to damages herein provided. A waiver of any breach of the Contract is not a waiver of any other or subsequent breach. Any remedy provided in the Contract shall be taken and construed as cumulative, that is in addition to each and every other remedy, herein provided; and the Owner shall also be entitled as of right to a writ of injunction against any breach of any of the provisions of the Contract.

Article 55. Use of Explosives

When the use of explosives is necessary for the prosecution of the work, the Contractor shall observe the utmost care not to endanger life and property and whenever directed, the number and size of the charges shall be reduced. All explosives shall be stored in a secure manner and all such storage places shall be marked clearly

"DANGEROUS - EXPLOSIVES," and shall be in the care of competent watchmen at all times. The method of storage and handling explosives and highly inflammable materials shall conform with all the State laws and regulations, as well as any local requirements.

The Contractor must comply with all requirements of State and local laws, rules and regulations, Officers, Authorities and Boards in using explosives. All necessary permits must be obtained by the Contractor from the proper Offices, Departments and Boards prior to such use of explosives. The Contractor shall give prior written notification of each day's contemplated use of explosives to the local Fire Department and Police Department.

Prior to blasting, the Contractor shall serve reasonable notice thereof to the operation official or company, or companies, leasing or owning pipes, conduits, poles, wires, etc., in danger of being injured by the blasting in order that a representative of said Owner or lessees may be present at the site, and s/he shall take proper precaution to prevent such injury by the use of sufficient signage. No blasting shall be attempted until sufficient warning has been given to all persons in the vicinity of the work.

The cost of additional bond or insurance, if any, required by the Owner and/or his/her agents, or by other duly authorized officials, shall be borne by the Contractor. No extra compensation will be paid the Contractor for the additional risk involved in blasting, for the additional cost of the extreme precautions required for safe blasting or for the additional cost of bonds or insurance required.

Article 56. Traffic Officers and Flagmen

When in the opinion of the Owner, it is necessary that uniformed police be used to direct traffic, s/he may request the Contractor to obtain, in addition to the usual employees of the Contractor, a reasonable number of uniformed police, and the Contractor shall request the local Police Department to furnish such officers. These uniformed police shall at all times be subject to the direction and control of the Contractor.

Payment for police officers employed on the project as traffic officers shall be made pursuant to the provisions of Section 53C of Chapter 44 of the General Laws. This act requires that police officers when engaged on this project be municipal employees and that payment to them shall be made by the Owner's Treasurer. The cost of traffic officers will be borne by the Owner, unless otherwise specified in the Special Provisions or General Conditions.

When any work is being done by the Contractor which may obstruct the tracks of a railroad or in any way endanger the running of trains, a flagman or flagmen, designated by the Chief Engineer of the railroad, shall be on duty for the protection of the property and traffic of the railroad.

The expense for all flagging service which is required shall be assumed by the Contractor and included in the prices bid for the various items for work to be performed under this Contract.

Article 57. Temporary Use of Work

Any portion of the work which is in an acceptable condition for use may be opened for use as directed and such opening for use shall not be construed as an acceptance of the work, or part thereof, nor shall it act as a waiver of any of the provisions of these Specifications and the Contract. The Contractor shall make at his/her own expense any and all necessary repairs or renewals to the work due to said opening for use under instructions from the Engineer, as well as to defective materials and work, natural causes, to ordinary wear and tear or otherwise, preceding completion and acceptance of the work. Completed sections of the work shall be maintained by the Contractor in an acceptable manner, until the final acceptance of the Contract. S/he shall not permit use of any portion of the work unless so authorized by the Engineer.

PROSECUTION AND PROGRESS

Article 58. Subletting or Assignment of Contract

The Contractor shall give his/her personal attention constantly to the faithful prosecution of the work, shall keep the same under his/her personal control, and shall not assign by power of attorney or otherwise, or sublet the work or any part thereof without the previous written consent of the Owner and shall not, either legally or equitably, assign any of the monies payable under this agreement, or his/her claim thereto, unless by and with the like consent of the Owner. S/he shall be responsible for the acts, omissions, neglect and mistakes of his/her Subcontractors, if any, and of all persons directly or indirectly employed by him/her or them in connection with the work.

For Contracts subject to the provisions of Section 39M of Chapter 30 and Sections 44A to 44L of Chapter 149 of the Massachusetts General Laws, the Contractor shall comply with the provisions of Section 179A of Chapter 149 of the General Laws, relative to preference to citizens.

Article 59. Schedule of Operations

Before commencing work, the Contractor shall submit a schedule of operations for approval by the Engineer. The schedule shall show the methods and order of operations that the Contractor proposes to use. Said schedule shall establish separable portions of the work although other items of work may also be considered "separable portions" of the work. Time for completion of each separable portion shall become an essential part of the Contract and shall be enforceable pursuant to the provisions of Articles 60, 61, 62 and 64. The approval of the schedule by the Engineer shall not be construed as relieving the Contractor from any responsibility.

Article 60. Prosecution of Work

The Contractor shall commence work within seven (7) calendar days after the execution of the Contract, or within such other period as the Engineer shall authorize in writing (approved by the Owner), at such points as the Engineer may direct, and s/he shall thereafter prosecute the work at such points and in such order as the Engineer may from time to time prescribe.

Should the prosecution of the work for any reason be discontinued, the Contractor shall notify the Engineer at least twenty-four (24) hours in advance of resuming operations.

It is the purpose of the Owner to complete the work in the shortest time possible and consistent with approved construction. To this end, Contractors will be required to use improved methods and equipment for doing the work and various parts thereof. All equipment shall be complete and well designed, and the organization shall be efficient and effective.

If, at the sole discretion of the Engineer, it is necessary at any time, the Contractor shall, when directed, employ such forces and equipment for one or more additional shifts as will be required to ensure the proper completion of the work. The Contractor shall provide and maintain sufficient lights for the safety of his/her construction forces and to ensure the proper construction, inspection and prosecution of the work, any lights necessary to protect the work or the public. The Contractor shall not receive any compensation therefore in addition to the Contract price.

The Contractor shall work diligently and steadily on the project. When ordered in writing by the Engineer, the Contractor shall resume work and/or increase personnel and equipment to accelerate progress. Failure of the Contractor to comply with said order within five (5) calendar days of receipt of same shall be considered as abandonment of the Contract. The Contractor shall not receive any compensation therefore in addition to the Contract price.

If the work is abandoned by the Contractor, the Owner may, without further notice and without in any way affecting the terms of the Contract, make such arrangements as deemed necessary and proper to complete the work. The Owner may either direct the bonding company to complete the work, may order the completion of the work with his/her own forces, or may employ another Contractor to complete the work.

Article 61. Delay in Commencing Work

The Owner may delay the commencing of the work, or any part thereof, if the Owner shall deem it best for its interests to do so. The Contractor shall have no claim for damages on account of such delay, but shall be entitled to an equivalent extension of time in which to complete the whole or any portion of the work required under the Contract. The Contractor shall have no claim for damages on account of any delay on the part of the Owner in performing or furnishing any work or materials to be performed or furnished by the said Owner in connection with the execution of the work covered by the Contract.

Article 62. Limitations of Operations

The Contractor shall so limit his/her operations and carry on his/her work in such a manner and sequence as to ensure the least possible interference with traffic and abutters. The Owner reserves the right to limit the prosecution of the work to such points and in such order as the Engineer may direct.

Article 63. Character of Workers

The Contractor shall employ only competent employees to do the work, and whenever the Engineer shall notify the Contractor in writing that any worker is, in his/her opinion, incompetent, unfaithful, disorderly, or otherwise unsatisfactory, such worker shall be discharged from the work, and shall not again be employed on it except with the consent of the Engineer.

Article 64. Temporary Suspension of Work

The Engineer shall have the authority to suspend the work wholly or any part thereof, for such periods as s/he shall deem necessary because of unsuitable weather conditions, or failure to complete adjacent contracts, or to provide time for moving of utilities, or for such other causes as are considered unfavorable for the satisfactory prosecution of the work, or for such time as s/he may deem necessary due to the failure of the Contractor to carry out orders given or to perform any provision of the Contract. Upon receipt of written order from the Engineer, the Contractor shall immediately suspend work or such part thereof in accordance with the order. The work shall be resumed when conditions so warrant or deficiencies have been corrected and the conditions of the Contract satisfied as ordered or approved in writing by the Engineer. No work shall be suspended without the written permission of the Engineer. No allowance of any kind will be made for suspension of work by order of the Engineer, except for an extension of time equal to the period of suspension.

Pursuant to Section 390 of Chapter 30, every Contract subject to the provisions of Section 39M of Chapter 30 or subject to Section 44A of Chapter 149 of the Massachusetts General Laws shall be subject to the following provisions:

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

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

Article 65. Failure to Complete Work on Time

On or before the date stated in the proposal for completion, the whole work shall have been performed in accordance with the terms of the Contract. The time in which the various portions and the whole of the Contract are to be performed and the work is to be completed is an essential part of the Contract.

In case the work embraced in the Contract shall not have been completed by the time stipulated therein (according to the foregoing requirements) the Contractor shall reimburse to the Owner a sum of money equal to the amount that the Owner is required to spend as a result of the delay in completion of the work. This amount shall include all identifiable costs including but not limited to engineering, inspection, interest and financing costs, loss of Federal and/or State grants, and fines imposed by regulatory agencies.

The Engineer is to constitute an adjudicator in regard to this Article of the Contract. S/he is to determine the cost of loss suffered by the Owner as a result of the delay in completion of the work. In addition to expenses incurred by the Town resulting from the delay in completion of the work by the Substantial Completion date, the Contractor will be liable for liquidated damages in the amount of \$500.00 per calendar day for work not completed beyond the stated date for the completion of work, the Substantial Completion date. The date of Substantial Completion is **October 25 2019**.

Whatever sum of money may become due and payable to the Owner by the Contractor under this Article may be retained out of money belonging to the Contractor in the hands and possession of the owner; and it is agreed that this Article is to be construed and treated both by the parties to the Contract and by all courts of law or

equity, not as imposing a penalty upon said Contractor for failing fully to complete said work as agreed on or before the time specified in the Proposal, but as liquidated damages to compensate the said Owner for all damages actually suffered because of the failure of the Contractor fully to complete said work on or before the date of completion specified in the Proposal.

Permitting the Contractor to continue and finish the work or any part of it after the time fixed for its completion, or after the date to which the time for completion may have been extended, shall in no way operate as a waiver on the part of the Owner of any of its rights under the Contract.

Article 66. Annulment of Contract

If the Contractor shall be adjudged a bankrupt, or if s/he shall make a general assignment for the benefit of his/her creditors, or if a receiver of his/her property shall be appointed, or if the work to be done under the Contract shall be abandoned, as set forth in Article 60, or if the Contract or any part thereof shall be sublet without the previous written consent of the Owner (Article 57), or if the Contract or any claim thereunder shall be assigned by the Contractor otherwise than as herein specified, or if at any time the Engineer shall be of the opinion, and shall so certify in writing to the Owner that the work, or any part thereof, is unnecessarily or unreasonably delayed, or that the Contractor has violated any of the provisions of the Contract, the Owner may notify the Contractor to discontinue all work, or any part thereof; and thereupon the Contractor shall discontinue such work, or such part thereof as the Owner may designate, and the Owner may thereupon, by contract or otherwise as it may determine, complete the work, or such part thereof, and charge the entire expense of so completing the work or part thereof to the Contractor; and for such completion the Owner for itself or its agents may take possession of and use or cause to be used in the completion of the work or part thereof, any such materials, machinery, implements or tools of every description as may be found upon the site of said work. The Owner shall not be liable for any depreciation, loss or damage to said materials, machinery, implements or tools during said use, nor until removed by the Contractor after completion of the work. Unless so removed within fifteen (15) days after mailing of notice so to do, they may be sold at public auction, after publication of notice thereof at least twice in any newspaper published in the Town, and the proceeds credited to the Contractor's expense subject to a lien for the storage charges.

If the Engineer shall certify that the rate of progress is not satisfactory, the Owner may, instead of notifying the Contractor to discontinue all work or any part thereof, notify him/her from time to time to increase the force, equipment and plant, or any of them, employed on the whole or any part of the work, stating the amount of increase required; and unless s/he shall within five (5) calendar days after any such notice, increase his/her force, equipment and plant to the extent required therein, and maintain and employ the same from day to day until completion of the work or such part thereof or until the conditions as to the rate of progress shall, in the opinion of the Engineer, be fulfilled, the Owner may employ and direct the labors of such additional force, equipment and plant as may, in the opinion of the Engineer, be necessary to ensure the completion of the work or such part thereof within the time specified, or at the earliest possible date thereafter, and the cost thereof is to be borne by the Contractor and his/her sureties, as directed. Neither the notice from the Owner to the Contractor to increase his/her force, equipment or plant, nor the employment of additional force, equipment or plant by the Owner shall be held to prevent a subsequent notice from the Owner to him/her to discontinue work under the provisions of the preceding portion of the Article.

All expenses charged under this Article shall be deducted and paid for by the Owner out of any monies then due or to become due the Contractor under the Contract, or any part thereof; and in such accounting the Owner shall not be held to obtain the lowest figures for the work of completing the Contract or any part thereof, or for ensuring its proper completion, but all sums actually paid therefore shall be charged to the Contractor and/or his/her surety. In case the expenses so charged are less than the sum which would have been payable under the Contract if the same had been completed by the Contractor, the Contractor shall be entitled to receive the difference; and in case such expenses shall exceed the said sum, the Contractor and his/her surety shall pay the amount of the excess to the Owner upon completion of the work, without further demand being made therefore.

MEASUREMENT AND PAYMENT

Article 67. Measurement of Quantities

For unit price Contracts, the Engineer shall determine the quantities of the various items of work performed.

Upon the completion of the work and after the final inspection report is made as described in Article 38, the

Engineer will make final measurement to determine the quantities of the various items of work performed as the basis for final payment. All measurements shall be made according to the United States standard units of measurements, unless stated otherwise.

All measurement and payment will be made in accordance with the MHD "Standard Specifications for Highways and Bridges". The low-bid contractor is advised that no award will be made until the Town has accepted the Contractor's Process/Quality Control Plan as outlined in the Special Provisions.

Throughout the duration of the project, all materials which are specified for measurement by weight shall be weighed on standard scales. If materials are shipped by rail or trucks, the car weights or quarry weights may be accepted. The Owner reserves the right to require the Contractor to furnish sealed scales.

Article 68. Scope of Payments

The Owner will pay and the Contractor shall receive and accept the compensation as herein provided, in full payment for the furnishing of all materials, labor, tools and equipment and for performing all work contemplated and embraced under the Contract, also for all loss or damage arising out of the nature of the work, or from the action of the elements, or from any unforeseen difficulties or obstructions which may arise or be encountered during the prosecution of the work and until its final acceptance by the Owner, and for all risks or every description connected with the prosecution of the work, also for all expenses incurred by, or in consequence of the suspension or discontinuance of the said prosecution of the work as herein specified, and for any infringement of patent, trade-mark or copyright, and for completing the work in an acceptable manner according to the Specifications. Compensation for actual quantities shall be based on unit pricing rates as submitted on the bid submission form of the awarded contractor.

The payment of any current estimate, or of any retained percentage shall in no way constitute an acknowledgment of the acceptance of the work or in no way or degree prejudice or affect the obligation of the Contractor, at his/her own cost and expense, to repair, correct, renew or replace any defects and imperfections in the construction of, or in the strength of, or quality of materials used in or about the construction of the work under Contract and its appurtenances, as well as all damages due or attributable to such defects; which defects, imperfections or damages shall have been discovered on or before the final inspection and acceptance of the work. The Engineer shall be the sole judge of such defects, imperfections, or damages and the Contractor shall be liable to the Owner for failure to correct the same as provided herein.

The compensation provided herein is to include the cost of the ONE YEAR guarantee period as specified under Articles 27 and 75.

Article 69. Claims Against Contractors

The Contractor shall pay all bills for labor and materials contracted by him/her and for the rental of appliances and equipment hired by him/her for or on account of the work herein contemplated.

The Owner may keep any monies, which would otherwise be payable at any time hereunder, and apply the same, or so much as may be necessary therefore, to the payment of any expense, losses or damages incurred by the Owner and determined as herein provided, and may retain, until all claims are settled, so much of the monies as the Owner shall be of opinion will be required to settle (1) all claims against the Owner and its officers and agents as specified in Article 52 and 53, and (2) all claims for labor performed or furnished, for materials used or employed in such construction or repair, including lumber so employed which is not incorporated in the construction or repair work and is not wholly or necessarily consumed or made so worthless as to lose its identity but only to the extent of its purchase price less its fair salvage value, and for the rental or hire of vehicles, shovels, excavating and backfilling equipment, rollers propelled by steam or other power, concrete mixers, tools and other appliances and equipment employed.

If the monies retained under the Contract are insufficient to pay the sum due under the claims for labor and materials and for the rental of appliances and equipment filed as aforesaid, the Owner may, at its discretion, pay the same, and the Contractor shall repay to the Owner all sums so paid. The Owner may also, with the written consent of the Contractor, use any monies retained, due or to become due under the Contract, for the purposes of paying for labor and materials and for the rental of appliances and equipment for the work for which claims have not been filed as specified above. It is understood that the security required by Section 29 of Chapter 149 of the General Laws is obtained both by the bond accompanying the Contract and by the power of the Owner to retain and pay money under the provisions of this Article, but the release of one shall in no way impair or

discharge the other.

Pursuant to the provisions of Chapter 30 Section 39F of the Massachusetts General Laws, the following subparagraphs (A) through (I) included herein are binding between the General Contractor and each Subcontractor on every Contract awarded pursuant to Sections 44A through 44L inclusive of Chapter 149 of the Massachusetts General Laws and the sub-paragraphs (A) through (H) are binding between the General Contractor and each Subcontractor on every Contract awarded pursuant to Section 39M of Chapter 30 of the Massachusetts Laws.

Forthwith after the General Contractor received payment on account of a periodic estimate, the General Contractor shall pay to each Subcontractor the amount paid for the labor performed and the materials furnished by that Subcontractor, less any amount specified in any court proceedings barring such payment and also less any amount claimed due for the Subcontractor by the General Contractor.

Not later than the sixty-fifth day after each Subcontractor substantially completes his/her work in accordance with the Specifications, the entire balance due under the Subcontractor less amounts retained by the Awarding Authority as the estimated cost of completing the incomplete and unsatisfactory items of work, shall be due the Subcontractor; and the Awarding Authority shall pay that amount of the General Contractor. The General Contractor shall forthwith pay to the Subcontractor the full amount received from the Awarding Authority less any amount specified in any court proceedings barring such payment and also less any amount claimed due from the Subcontractor by the General Contractor.

Each payment made by the Awarding Authority to the General Contractor pursuant to subparagraphs (A) and (B) of this paragraph for the labor performed and the materials furnished by a Subcontractor shall be made to the General Contractor for the account of that Subcontractor; and the Once the engineer confirms completed scope of work, the Awarding Authority shall take reasonable steps to compel the General Contractor to make each such payment to each such Subcontractor. If the Awarding Authority has received a demand for direct payment from a Subcontractor for any amount which has already been included in a payment to the General Contractor or which is to be included in a payment to the General Contractor for payment to the Subcontractor as provided in subparagraphs (A) and (B), the Awarding Authority shall act upon the demand as provided in this section.

If, within seventy days after the Subcontractor has substantially completed the Subcontract work, the Subcontractor has not received from the General Contractor the balance due under the Subcontract including any amount due for extra labor and materials furnished to the General Contractor, less any amount retained by the Awarding Authority as the estimated cost of completing the incomplete and unsatisfactory items of work, the Subcontractor may demand direct payment of that balance from the Awarding Authority. The demand shall be by a sworn statement delivered to or sent by certified mail to the Awarding Authority, and a copy shall be delivered to or sent by certified mail to the General Contractor at the same time. The demand shall contain a detailed breakdown of the balance due under the Subcontract and also a statement of the status of completion of the Subcontract work. Any demand made after substantial completion of the Subcontract work shall be valid even if delivered or mailed prior to the seventieth day after the Subcontractor has substantially completed the Subcontract work. Within ten days after the Subcontractor has delivered or so mailed the demand to the Awarding Authority and delivered or so mailed a copy to the General Contractor, the General Contractor may reply to the demand. The reply shall be by a sworn statement delivered to or sent by certified mail to the Awarding Authority and a copy shall be delivered to or sent by certified mail to the Subcontractor at the same time. The reply shall contain a detailed breakdown of the balance due under the Subcontract including any amount due for extra labor and materials furnished to the General Contractor and of the amount due for each claim made by the General Contractor against the Subcontractor.

- A. Once the engineer confirms scope of work completed, within fifteen days after receipt of the demand by the Awarding Authority, but in no event prior to the seventieth day after substantial completion of the Subcontract work, the Awarding Authority shall make direct payment to the Subcontractor of the balance due under the Subcontract including any amount due for extra labor and materials furnished to the General Contractor, less any amount (1) retained by the Awarding Authority as the estimated cost of completing the incomplete or unsatisfactory items of work, (2) specified in any court proceedings barring such payment, or (3) disputed by the General Contractor in the sworn reply; provided, that the Awarding Authority shall not deduct from a direct payment any amount as provided in part (3) if the reply is not sworn to, or for which the sworn reply does not contain the detailed breakdown required by subparagraph (D). The Awarding Authority shall make further direct payments to the Subcontractor forthwith after the removal of the basis for deductions from direct payments made as provided in parts (1) and (2) of this subparagraph.

- B. The Awarding Authority shall forthwith deposit the amount deducted from a direct payment as provided in part (3) of subparagraph (E) in an interest-bearing joint account in the names of the General Contractor and the Subcontractor in a bank in Massachusetts selected by the Awarding Authority or agreed upon by the General Contractor and the Subcontractor and shall notify the General Contractor and the Subcontractor of the date of the deposit and the bank receiving the deposit. The bank shall pay the amount in the account, including accrued interest, as provided in an agreement between the General Contractor and the Subcontractor or as determined by decree of a court of competent jurisdiction.
- C. All direct payments and all deductions from demands for direct payments deposited in an interest bearing account or accounts in a bank pursuant to subparagraph (F) shall be made out of amounts payable to the General Contractor at the time of receipt of a demand for direct payment from a Subcontractor and out of amounts which later become payable to the General Contractor and in the order of receipt of such demands from Subcontractors. All direct payments shall discharge the obligation of the Awarding Authority to the General Contractor to the extent of such payment.
- D. The Awarding Authority shall deduct from payments to a General Contractor amounts which, together with the deposits in interest bearing accounts pursuant to subparagraph (F), are sufficient to satisfy all unpaid balances of demands for direct payment received from Subcontractors. All such amounts shall be earmarked for such direct payments, and the Subcontractor shall have a right in such deductions prior to any claims against such amounts by creditors of the General Contractor.
- E. If the Subcontractor does not receive payment as provided in subparagraph (A) or if the General Contractor does not submit a periodic estimate for the value of the labor or materials performed or furnished by the Subcontractor and the Subcontractor does not receive payment for same when due less the deductions provided for in subparagraph (A), the Subcontractor may demand direct payment by following the procedure in subparagraph (D) and the General Contractor may file a sworn reply as provided in that same subparagraph. A demand made after the first day of the month following that for which the Subcontractor performed or furnished the labor and materials for which the Subcontractor seeks payment shall be valid even if delivered or mailed prior to the time payment was due on a periodic estimate from the General Contractor. Thereafter the Awarding Authority shall proceed as provided in subparagraph (E), (F), (G) and (H).

Article 70. Payment for Increased or Decreased Quantities

An increase in quantities of work to be performed (as set forth in Articles 3, 22 and 23) will be paid for at the Contract unit price for the actual work done, in the same manner as if such work had been included in the original estimated quantities. No allowance will be made for anticipated profits involved in changes in quantities from those quantities originally estimated.

Changes involving extra work will be paid for according to the method stipulated in the extra work orders.

Article 71. Omitted Items

The Engineer may order omitted from the work any items or portions of the work found unnecessary to the improvement. Such omission shall not operate as a waiver of any condition of the Contract nor invalidate any of the provisions thereof, nor shall the Contractor have any claim for anticipated profit.

Article 72. Payment for Extra Work

Extra work will be paid for in accordance with the accepted and approved extra work orders according to procedures outlined in Articles 22 and 23.

The determination of the Engineer shall be final upon all questions pertaining to the amount and value of extra work performed.

In making any change contemplated, the charge or credit for the change shall be determined by the Owner in one of the following methods prior to the issuance of the order for the changed work:

The order shall fix the total lump sum cost of the change in the work as mutually agreed on between the Owner and the Contractor and shall set out such cost as the amount to be added to or deducted from the Contract amount by virtue of the change in the work. The cost as above shall include the Contractor's overhead and profit subject to a maximum limitation of fifteen (15) percent. In any change which involves a net credit to the Owner, no allowance for overhead and profit shall be figured.

By estimating the number of unit quantities of each part of the work which is changed and then multiplying the estimated number of such unit quantities by the price (which price shall include the Contractor's overhead and profit) for a unit quantity thereof. Unit prices refer to unit prices bid herein. In the event there are no unit prices in the Proposal that are applicable, the Owner and the Contractor may work out a mutually agreeable unit price. The Engineer shall determine whether or not the unit prices in the Proposal are applicable to the extra work under consideration.

By ordering the Contractor to proceed with the work and to keep and present in such forms as the Owner may direct, a correct account of the cost of the change together with all vouchers therefore. The cost may include a lump sum allowance (fixed fee) for profit and overhead of fifteen (15) percent. The Contractor's labor costs may be increased by the cost of the various health, welfare, and liability insurance s/he is required to carry. The Contractor's total actual cost may be increased by the cost of his/her Performance Bond.

In figuring changes, the instructions for measurement of quantities set forth in the General Conditions and Special Provisions shall be followed insofar as possible. Items such as shovels, picks, small tools, manual equipment, melting pots, etc. shall be considered as part of the Contractor's overhead.

For machinery, trucks and equipment, a standard rental allowance shall be charged. A reasonable rental allowance determined by the Engineer based on published rates and reasonable rental periods shall be used. If a piece of equipment used on extra work for a short period of time (hours or days) is on the job, or has previously been rented for a long period of time (months) then the long-term rental rate shall be used in determining costs

In the case of any extra work ordered by the Owner and completed by a Subcontractor on the project, the General Contractor will be allowed to increase the Subcontractor's cost to him/her by 5% to cover bookkeeping costs, overhead, etc. In determining costs, the Subcontractor is to use one of the three methods described herein above, as directed by the Engineer.

Article 73. Partial Payments

For unit price Contracts, the Engineer shall, once in each month, make an estimate in writing of the total value of the work completed to the time of such estimate.

During the last week of each month for the duration of the Contract, the Contractor shall submit to the Engineer for review and comment a draft of each partial payment request. The Engineer shall promptly review and return the payment request with appropriate notations to the Contractor for correction and re-submission.

The Owner shall retain a fixed percentage of each monthly estimate as part security for the fulfillment of the Contract by the Contractor. The maximum retainage shall be 5% or any other amount as defined in MGL. The Owner may at its sole option reduce retainage as it deems this to be prudent.

The Owner shall pay monthly to the Contractor, while carrying on the work, the balance not retained as aforesaid, after deducting there from all previous payments and all sums to be kept or retained under the provision of this Contract.

No such estimate or payment shall be required to be made when, in the judgment of the Engineer, the work is not proceeding in accordance with the provisions of the Contract, or when in his/her judgment the total value of the work done since the last estimate amounts to less than three hundred (\$300) dollars.

It is the intention of this Article of the Specifications to control the delivery of materials and equipment to the project so that materials and equipment are available when required but not unreasonably in advance of the time required.

Major process equipment must be suitably stored in order to be included in the periodic payments. Suitably stored shall mean storage in a dry, watertight, heated and insured commercial warehouse facility approved by the Engineer in writing. All drive motors shall be equipped with thermostatically controlled strip heaters. The Owner assumes no responsibility for physical damage to the equipment, corrosion, damage to motors due to condensation or any other factors which render equipment defective.

Partial payment requests for so-called "engineering costs" by equipment manufacturers shall not be honored by the Owner. All such costs shall be distributed proportionately among the various items of equipment/hardware to be furnished.

For Contracts awarded under Sections 44A to 44L of Chapter 149, the following paragraph is included pursuant

to the provisions of Section 39K, Chapter 30 of the Massachusetts General Laws:

Within fifteen days (twenty-four days in the case of the Commonwealth) after receipt from the Contractor, at the place designated by the Awarding Authority if such a place is so designated, of a periodic estimate requesting payment of the amount due for the preceding month, the Awarding Authority will make a periodic payment to the Contractor for the work performed during the preceding month and for the materials not incorporated in the work but delivered and suitably stored at the site (or at some location agreed upon in writing) to which the Contractor has title or to which a Subcontractor has title and has authorized the Contractor to transfer title to the Awarding Authority, less (1) a retention based on its estimate of the fair value of its claims against the Contractor and less (2) a retention for direct payments to Subcontractors based on demands for same in accordance with the provisions of Section 39F, and less (3) a retention not exceeding five percent of the approved amount of the periodic payment. After the receipt of a periodic estimate requesting final payment and within sixty-five days after (A) the Contractor fully completes the work or substantially completes the work so that the value of the work remaining to be done is, in the estimate of the Awarding Authority, less than one percent of the original Contract price, or (B) the Contractor substantially completes the work and the Awarding Authority takes possession for occupancy, whichever occurs first, the Awarding Authority shall pay the Contractor the entire balance due on the Contract less (1) a retention based on its estimate of the fair value of its claims against the Contractor and of the cost of completing the incomplete and unsatisfactory items of work and less (2) a retention for direct payments to Subcontractors based on demands for same in accordance with the provisions of Section 39F, or based on the record of payments by the Contractor to the Subcontractors under this Contract if such record of payment indicates that the Contractor has not paid Subcontractors as provided in Section 39F. If the Awarding Authority fails to make payment as herein provided, there shall be added to each such payment daily interest at the rate of three percentage points above the rediscount rate then charged by the Federal Reserve Bank of Boston commencing on the first day after said payment is due and continuing until the payment is delivered or mailed to the Contractor; provided, that no interest shall be due, in any event, on the amount due on a periodic estimate for final payment until fifteen days (twenty-four days in the case of the Commonwealth) after receipt of such a periodic estimate from the Contractor, at the place designated by the Awarding Authority if such a place is so designated. The Contractor agrees to pay to each Subcontractor a portion of any interest paid in accordance with the amount due each Subcontractor.

Partial payments shall not be construed as acceptance of title.

The Owner may increase the retained percentage as security for claims or costs incurred under Articles 60, 64, 65 and 68, or any other section of the Contract.

Article 74. Acceptance and Final Payment

Final payment shall be made pursuant to the provisions of M.G.L. Chapter 30, Section 39G or 39K, as applicable.

For unit price Contracts, the Engineer shall, as soon as practicable after the satisfactory completion of the final inspection report (Article 38), make a final estimate of the value of work constructed. This final estimate shall contain all final quantities for all items of the Contract and for all extra work authorized. This final estimate shall be submitted to the Contractor for certification.

For lump sum Contracts, the Contractor shall submit to the Engineer for review and comment a draft of the final payment request, including claims for all extra work authorized. Upon approval by the Engineer, the final payment request shall be certified by the Contractor.

The Owner shall, upon approval of the final estimate certified by the Engineer and the Contractor, issue a semi-final partial payment providing for payment of all amounts due less the percentage retainage and any amounts due the Owner.

All prior estimates and payments shall be subject to correction at the time of preparation of the final estimate.

Article 75. Guarantee Period

The Contractor shall guarantee all work under this Contract for a period of ONE YEAR from the date of the final inspection report, unless otherwise specified. The cost of the guarantee is to be included by the Contractor in his/her proposal form Contract and no additional payment will be provided.

The guarantee shall cover and include all workmanship, materials, equipment, and performance, and all combinations thereof required in the work under the Contract. Any and all defects and/or deficiencies which become evident during the guarantee period shall be corrected, repaired, replaced, or otherwise remedied to the satisfaction of the Owner and Engineer at no cost of any nature to the Owner or Engineer.

Article 76 Monthly Price Adjustment for HMA Mixtures

This project is subjected to price adjustment requirement per MGL Chapter 303, Section 60- An Act Financing Improvements to the Commonwealth's Transportation System.

This provision applies to all projects using greater than 100 tons of hot mix asphalt (HMA) mixtures containing liquid asphalt cement as stipulated in the bid documents. The price Adjustment will be based on the variance in price for the liquid asphalt component only from the Base Price to the Period Price. It shall not include transportation or other charges. This Price Adjustment will occur on a monthly basis.

BASE PRICE: The Base Price of liquid asphalt on a project as listed in the bid documents is a fixed price determined at the time of bid by the Department by using the same method as for the determination of the Period Price detailing below.

PERIOD PRICE: Please note that starting December 15, 2008, two sets of period prices will be posted each month on the MassHighway website at [HTTP://WWW.MASSDOT.STATE.MA.US/](http://www.massdot.state.ma.us/). They will be labeled "New Asphalt Period Price Method" and "Old Asphalt Period Price Method". This contract will utilize the "New Asphalt Period Price Method".

The "New Asphalt Period Price Method" is for contracts bid after December 15, 2008 and will show the Period Price for liquid asphalt for each monthly period as determined by MassHighway using the average selling period per standard ton of PG64-28 paving grade (Primary binder classification) asphalt, FOB manufacturer's terminal, as listed under the "East Coast Market-New England, Boston, Massachusetts area" section of the Poten & Partners, Inc. "Asphalt Weekly Monitor". This average selling price is listed in the issue having a publication date of the second Friday of the month and will be posted as the Period Price for that month. MassHighway will post this Price Period on this website within two (2) business days following the receipt of the relevant issue of the

"Asphalt Weekly Monitor". Poten and Partners, Inc. has granted MassHighway the right to publish this specific asphalt price information sourced from the Asphalt Weekly Monitor.

The Contract price of the hot mix asphalt mixture will be paid under the respective item in the Contract. The price adjustment, as herein provided, upwards or downwards, will be made after the work has been performed, using the monthly period price for the month during which the work was performed.

The Price Adjustment applies only to the actual virgin liquid asphalt content in the mixture placed on the job in accordance with the Standard Specifications for Highways and Bridges, Division III, Section Mc.11.03.

The Price Adjustment will be a separate payment item. It will be determined by multiplying the number of tons of hot mix asphalt mixtures placed during each monthly period times the liquid asphalt content percentage times the variance in price between Base Price and Period Price of liquid asphalt.

This Price Adjustment will be paid only if the variance from the Base Price is 5% or more of the monthly period. The complete adjustment will be paid in all cases with no deduction of the 5% from either upward or downward adjustments.

No Price Adjustment will be allowed beyond the Completion Date of this Contract, unless there is a Department approved extension of time

***** END OF GENERAL CONDITIONS SECTION *****

SECTION B
SPECIAL PROVISIONS

SUBSECTION B-1
DESCRIPTION OF WORK

SPECIAL PROVISIONS

DESCRIPTION OF WORK

The minority employee percentage goal to be applied to this job will not be less than 5% per trade.

All work done under this contract shall be in conformance with the Massachusetts Highway Department STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES dated 1995, the SUPPLEMENTAL SPECIFICATIONS, DATED DECEMBER 11, 2002 or as amended, 1977 CONSTRUCTION STANDARDS and the SUPPLEMENTAL DRAWINGS DATED APRIL 2003 or as amended; the 1996 WHEELCHAIR RAMP STANDARDS, the latest edition of the MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, the 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, the 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING and the AMERICAN STANDARDS FOR NURSERY STOCK (ANSI-Z60.1-1990), as amended, the PLANS, and these SPECIAL PROVISIONS.

SCOPE OF WORK:

The work to be done under this contract consists of resurfacing various roads in the town of Longmeadow. The work also includes bituminous concrete and granite curbing, adjusting and rebuilding utility structures, pavement markings, sidewalk ramps, driveway aprons, traffic safety control, and other incidental work required to complete the project.

The following table provides a general summary by street of the work Schedule.

STREET NAME	FROM	TO	APPROXIMATE LENGTH (Feet)	COMMENTS
Ardsey Road	189 Ardsey Road		100	Variable Mill 1-1/2" Bituminous Base 1-1/2" Bituminous Top
Ellington Road	Laurel Street	Rugby Road	1750	1-1/2" Mill & 1-1/2" Bituminous Concrete Overlay
Green Hill Road	Wolf Swamp Road	Northfield Road	4300	3" Mill & 1-1/2" Bituminous Concrete Base & 1-1/2" Bituminous Concrete Overlay
Williams Street	Frank Smith Road	Dwight Road	3620	2" Mill & 2" Bituminous Concrete Overlay

NOTIFICATION OF CONSERVATION COMMISSION:

Erosion/siltation control devices are included in the contract and shall be installed as required. Before work begins, the Contractor shall arrange a pre-construction meeting to include the Contractor, Engineer, and members of the local Conservation Commission to establish what erosion/sedimentation control barriers are required.

WORK SCHEDULE AND PROVISIONS FOR TRAVEL:

Work on this project is restricted to a normal 8-hour day, 5-day week, with the prime contractor and all subcontractors working the same shift. Work on this project shall be completed by **October 25, 2019.**

Work on roads shall be performed according to the order put forth by the Engineer. No work shall commence on any road without proper preparation of that road prior to the work beginning. This preparation shall, when appropriate, include but not be limited to:

Seven (7) days notice to the Engineer,

Sweeping of road(s) one to two (1 to 2) days prior to start of work (Contractor must have some

means of cleaning street on site as well such as a blower for small areas of sand, dirt, and leaves that might have been missed by the sweeper),

Two (2) days prior coordination of utilities such as water, electric, and gas. (Where excavation is involved, all excavation related work must be completed at least five (5) days prior to paving being placed on the road),

Two (2) days lead time for structure adjustments involving concrete pouring, and

No more than two (2) days lead time for sawcutting of joints.

Under no circumstances shall the Contractor be allowed to perform any work on any road in Town without proper preparation of that road.

Collector roads and arterial roads shall not be closed at any time, and the full width of these roadways shall remain open outside of working hours. For residential side streets, the road currently being worked on may be closed to through traffic, if necessary, with prior approval from the Engineer. No road shall remain closed after work hours unless emergency conditions, i.e. traffic safety hazards, exist.

No work shall be done on this contract on Saturdays, Sundays, or holidays, unless prior approval from the Engineer is obtained. Work will not be allowed the day before or the day after a long weekend which involves a holiday without prior approval of the Engineer.

Work shall be scheduled so that the disruption to traffic and to residents shall be at a minimum at all times. Work may proceed beyond 8 hours on a daily basis if required to complete the work for that day with the approval of the Engineer but in no case, except for safety related emergencies, shall work be allowed before 7:00am or after 7:30pm. Infractions of this schedule requirement may result in temporary shut down of no longer than one (1) day or penalties of up to two hundred and fifty dollars and zero cents (\$250.00) per day, at the discretion of the Engineer.

Reclaiming and cold planning shall not commence more than fourteen (14) days ahead of placing the first lift of pavement unless waived by the Engineer. The intent of this provision is to minimize the distance and length of time that traffic must travel over the roughened surface.

Alternate one-way traffic will be permitted only during working hours with traffic officers present. Two-way traffic shall be maintained at all other times. Every effort shall be made to avoid the use of one-way traffic.

TRAFFIC CONTROL:

Traffic control shall comply with the applicable sections of Part VI of the Manual on Uniform Traffic Control Devices. Sign placement shall conform to the applicable sketches herein and/or as shown in said Part VI.

The Contractor shall provide and use the necessary (as directed) warning devices, barricades, drums, signs, special lighting units, special apparel, etc., in accordance with the provisions of Section 850, Traffic Controls for Construction and Maintenance Operations.

Also, traffic police shall be located at a sufficient distance in advance of the work area so they can warn oncoming motorists. If more than one officer is required on any one site, all officers must have a reliable method of communicating with each other at all times during work hours. If there is no method, the Engineer will have the right to shut down the job until such method is in place.

In general, work areas on this project shall not be left overnight without adequate safety precautions. A sufficient number of traffic cones, drums, barricades, and hazard warning light devices shall be placed and maintained as necessary and as directed by the Engineer.

PRECONSTRUCTION CONFERENCE:

Following project award, a conference will be held at the Department of Public Works office at 31 Pondsides Road Longmeadow MA 01106, on a date to be announced. At that time, the Contractor will be required to submit a schedule/method of operations. This conference will cover at

minimum information pertaining to scheduling of work on the roads, notifying the water department for structure support, notifying the police department for traffic control, and daily methods of communication between the Contractor and the Town.

PROTECTION OF UNDERGROUND UTILITIES:

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

The Contractor shall notify "DIG SAFE" and procure a DIG SAFE number for each location prior to disturbing existing ground in any way.

The DIG SAFE call center is 1-800-DIG-SAFE.

NOTICE TO OWNERS OF UTILITIES:

Written notice shall be given by the Contractor to all public service corporations' officials owning or having charge of publicly owned utilities of his intention to commence operations affecting such utilities at least one week in advance of the commencement of such operations and the Contractor shall, at the same time, file a copy of each notice with the Engineer.

The following list includes names of representatives of utilities and public agencies encountered on this project.

Verizon

85 Chestnut Street

Springfield, MA 01103

Tel.: 413-787-0358

Columbia Gas Co.

2025 Roosevelt Avenue

Springfield, MA 01101

Tel.: 413-781-9200

Longmeadow DPW

Engineering Division

31 Pondsides Road

Longmeadow MA 01106

Tel.: 413-567-3400

PUBLIC CONVENIENCE AND SAFETY:

The Contractor shall prosecute his work so that traffic will be maintained over and through the work site with a maximum of safety and convenience in accordance with the provisions of Section 7.09 of the MHD STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, Public Safety and Convenience.

When, in the judgment of the Engineer, construction operations constitute a hazard to traffic in an area, the Contractor may be required to suspend operations during certain hours and to remove his equipment from roadways.

INTERPRETATION OF BASIC ESTIMATED QUANTITIES:

Attention is directed to the provisions of Subsection 2.02 of the STANDARD SPECIFICATIONS..., and to the fact that the basic estimate of quantities of work to be done are based on observations and available data, and the preliminary field measurements of the existing ground were not made with survey instruments ordinarily employed. The estimated quantities are approximate and should be used only as a guide.

The Contractor must satisfy himself by his own investigation and research regarding all conditions affecting the work, amount of work to be done, labor, materials, and equipment needed, and make his bid in sole reliance thereon.

MISCELLANEOUS CEMENT CONCRETE WORK:

Cement concrete placed for collars around drainage structures, gate boxes, trench caps, or in conjunction with new or reset curb or edging shall be placed at the same grade and cross-slope as the adjacent pavement so that the top course of bituminous concrete will have full and uniform thickness. The surface of the cement concrete shall be given a wood float finish and shall be free of honeycomb or excessive roughness.

The surface shall be cured according to the applicable provisions of the STANDARD SPECIFICATIONS, or the curing may be done by an application of RS-1 emulsion as soon as the surface has hardened sufficiently but not later than 24 hours after placing the concrete.

ADJACENT CONTRACTS: (Supplementing Subsection 5.06 of the STANDARD SPECIFICATIONS)

The Contractor shall carry on his work concurrently with that being done on other contracts or work, (if any), adjacent to or within the project limits so as to provide for all possible cooperation toward the satisfactory completion of the work with a minimum of delay and inconvenience. Where necessary and reasonably possible, he shall permit other contractors free and unobstructed passage through the project area. He shall have no claim against the Town, municipality or any of their officers, agents or employees.

COMMUNICATION:

The Contractor shall provide continuous communication between the Bituminous Concrete plant and the project to insure immediate response due to breakdowns, emergencies such as accidents, and to ensure the best quality results. The Contractor shall also have readily accessible communication with the Engineer (or other Town authorized representative connected with this project) for circumstances requiring authorized decisions related to the work.

DRAINAGE:

It shall be the Contractor's responsibility to maintain drainage functioning properly in the areas under construction prior to the time the completed system is put into use.

Any debris caused by the Contractor's operation deposited in the drainage structures, within the limits of this contract, shall be removed at no cost to the Town.

All new drainage castings in surface areas shall be adjusted to fit base course or binder course when required. Final adjustments to finish grade shall be completed before the top course is laid. Any adjustments made to new drainage structures will be included under the Contract unit price for the respective structures.

All the above work shall be included under the relevant item without additional compensation being given.

SAWCUTS:

Sawcuts shall be made in existing pavement in areas of new or reset curb, limits of full depth pavement construction, driveway aprons, and as directed by the Engineer. Payment for this work

shall be included in the unit price for 'Sawing Asphalt Pavement'.

SUBSECTION B-2
BID PAY ITEM DESCRIPTION

ITEM 104 TREE REMOVED (DIAMETER 24" and Over) Each

Disposal of Trees

All trees to be cleared shall become the property of the Contractor, and the satisfactory disposal of the wood in such trees outside the right-of-Way shall become his/her responsibility. The trees, including cuttings and slash, shall be disposed of after cutting as soon as practicable and in such a manner as not to detract from the appearance of the roadside. If the existing ground in the area is disturbed by any of the work or equipment, the Contractor shall rough-grade and loam and seed if necessary the disturbed area, if so directed, without additional compensation.

ITEM 105 STUMP REMOVED Each

Disposal of Stumps

After removal, all stumps including the major root system shall be disposed by the contractor at his/her own responsibility outside the layout where the material will not cause obstruction to streams and will not detract from the appearance of the roadside.

ITEM 120.1 UNCLASSIFIED EXCAVATION Cubic Yard

The work to be performed hereunder consists of removing and disposing of materials in accordance with the relevant provisions of Section 120, as amended and supplemented by the following:

Including all materials obstructing the execution of other required work as shown on the Drawings and/or as directed, except those materials for which payment is made as part of other items of this Contract.

The Contractor's attention is directed to the fact that materials shall be disposed of in accordance with applicable local, state and federal requirements.

Work shall also include the removal and disposal of existing pavement where full depth construction of the proposed roadway or other construction requires excavation of the existing pavement and removal of existing walls, storm and/or sanitary structures, concrete pads, foundations, or slabs, as may be required. In addition, work under this Section may include the removal and discarding of *existing* fences not to be removed and reset or removed and stacked, existing curb not to be removed and reset or removed and stacked, existing curb corners and curb inlets, earth, pipe, Class A rock, ledge, tracks and ties (if any), masonry, timber, cobble stones, cinders, sidewalks and drives, stumps, guard posts and other materials from previous constructions.

Should unsatisfactory subgrade material be encountered, the Engineer may direct that excavation be carried to satisfactory material and be backfilled with suitable borrow.

Any work done or materials used for backfilling in excess of the depth authorized shall be at the Contractor's expense and will not be paid for under the contract items involved.

The accepted quantity of unclassified excavation will be paid for at the contract unit price per cubic yard under Item 120.1 – Unclassified Excavation. Unit price is to include all costs of removing, transporting, processing, disposing and/or stockpiling of excavated materials. Excavations paid for under separate line items shall not be included under Unclassified Excavation.

ITEM 129 PAVEMENT MILLING Square Yard

Work done under this item shall conform to the relevant provisions of the Standard Specifications for Highways and Bridges, Section 100, Section 400 and the following.

This work shall consist of coldplaning or milling and removal of existing asphalt pavement courses from the project by the Contractor. Coldplaning shall be performed in conformity with the limits, line, grade, and typical cross-section shown in the Detail Sheets. Unless otherwise specified, the milled material shall become the property of the Contractor.

Control Strip

The Contractor shall coldplane a control strip to the nominal depth with a uniformly textured surface for approval by the Engineer. The coldplaned surface shall be tested transversely and longitudinally with a 10-foot straightedge furnished by the Contractor. The variation from the edge of the straightedge to the top of ridges between any two ridge contact points shall not exceed 1/2 inch. The center to center spacing of adjacent grooves shall be no greater than 5/8" and the difference in height from the top of any ridge to the bottom of the groove adjacent to that ridge shall not exceed 3/8". Any surface not meeting these requirements for a uniform textured surface shall be corrected with a $\pm 1/2$ " adjustment to the coldplaning equipment and operations before continuing. The depth of coldplaning will be adjusted as necessary to provide a planed surface free of delamination or un-milled surfaces.

Equipment

The coldplaning equipment shall be self-propelled with sufficient power, traction, and stability to remove the existing HMA pavement to the specified depth and cross-slope. The milling machine shall be capable of operating at a minimum speed of 10 feet per minute, designed so that the operator can at all times observe the milling operation without leaving the control area of the machine, and equipped with the following:

- a) A built in automatic grade control system that can control the longitudinal profile and the transverse cross-slope to produce the specified results.
- b) Longitudinal controls capable of operating from any longitudinal grade reference, including string line, 30-foot ski minimum, 30-foot mobile string line minimum, or a matching shoe.
- c) The transverse controls shall have an automatic system for controlling cross-slope at a given rate.
- d) Cutting heads able to provide a minimum 6 foot cutting width and a 0- to 4-inch deep cut in one pass. The teeth on the revolving cutting drum must be continually maintained and shall be replaced as warranted to provide a uniform pavement texture.
- e) An integral pickup and conveying device to immediately remove milled material from the roadway and discharge the millings into a truck, all in one operation.
- f) All necessary safety devices such as reflectors, headlights, taillights, flashing lights and back up signals so as to operate safely in both day and night.
- g) A means of effectively limiting the amount of dust escaping from the milling and removal operation in accordance with local, State, and Federal air pollution control laws and regulations.

When milling smaller areas or areas where it is impractical to use the above described equipment, the use of a smaller or lesser-equipped milling machine may be permitted when approved by the Engineer.

Sweeper Equipment

The Contractor shall provide a mechanical sweeper equipped with a water tank, spray assembly to control dust, a pick-up broom, a dual gutter broom, and a dirt hopper. The sweeper shall be capable of removing millings and loose debris from the textured pavement.

Coldplaning Operations

The coldplaning operations shall be scheduled to minimize the duration and placement of traffic on the milled surface. The milling operations shall not proceed more than 3 miles ahead of the paving operations. Under no circumstances shall the milled surface be left exposed to traffic for a period exceeding five days. The Engineer may allow the Contractor to adjust the limits of milling production when necessary.

The Contractor shall be responsible for removing any existing raised pavement markers with the cold planing limits. The cost of removing and discarding the pavement markers shall be included in the payment for Item 129.

The existing pavement shall be removed to the average depth shown in the Detail Sheets, in a manner that will restore the pavement surface to a uniform cross-section and longitudinal profile. The longitudinal profile of the milled surface shall be established using a 30-foot mobile ski, mobile string line, or stationary string line. The cross-slope of the milled surface shall be established by a second sensing device or by an automatic cross-slope control mechanism. The Contractor will be responsible for providing all grades necessary to remove the material to the proper line, grade, and typical cross-section shown in the Detail Sheets. The requirement for automatic grade or slope controls may be waived by the Engineer in locations warranted by the situation, including intersections and closely confined areas.

The Engineer may adjust the average milling depth specified in the Detail Sheets by $\pm 1/2$ " during each milling pass at no additional payment to minimize delamination of the underlying pavement course or to otherwise provide a more stable surface. If delamination or exposure of concrete occurs when milling a HMA pavement course from an underlying Portland Cement Concrete (PCC) pavement, the Contractor shall cease milling operations and consult the Engineer to determine whether to reduce the milling depth or make other adjustments to the operation.

Protection of Cast Iron Inlets and Utilities

Throughout the milling operation, protection shall be provided around existing catch basin inlets, manholes, utility valve boxes, and any similar structures. Any damage to such structures as a result of the milling operation is the Contractor's responsibility and shall be repaired at the Contractor's expense. To prevent the infiltration of milled material into the storm sewer system, the Contractor shall take special care to prevent the milled material from falling into the inlet openings or inlet grates. Any milled material that falls into inlet openings or inlet grates shall be removed at the Contractor's expense.

Vertical Faces

All permanent limits of the milled area shall be sawcut or otherwise neatly cut by mechanical means to provide a clean and sound vertical face. Each vertical face shall be thoroughly coated with a hot poured rubberized asphalt sealant meeting the requirements of ASTM D3405 immediately prior to placing new HMA mixture adjacent to the vertical face. No vertical faces, transverse or longitudinal, shall be left exposed to traffic. If any vertical face is formed in an area exposed to traffic, a temporary paved transition with a maximum 12:1 slope shall be established. If the milling machine is used to temporarily transition the milled pavement surface to the existing pavement surface, the temporary transition shall be constructed at a maximum 12:1 slope.

Opening to Traffic

Prior to opening a milled area to traffic, the milled surface shall be thoroughly swept with a mechanical sweeper to remove all remaining millings and dust. This operation shall be conducted in a manner so as

to minimize the potential for creation of a traffic hazard and to comply with local, State, and Federal air pollution control laws and regulations. Any damage to vehicular traffic as a result of milled material becoming airborne is the responsibility of the Contractor and shall be repaired at the Contractor's expense. Temporary pavement markings shall be placed in accordance with the provisions of Subsection 850.64.

Inspection

The milled surface shall be same texture and quality as the approved control strip. The milled surface shall provide a satisfactory riding surface with a uniform textured appearance. The milled surface shall be free from gouges, excessive longitudinal grooves and ridges, oil film, and other imperfections that are a result of defective equipment, non-uniform milling teeth, improper use of equipment, or otherwise poor workmanship. Any unsatisfactory surfaces produced shall be corrected by re-milling at the Contractor's expense and to the satisfaction of the Engineer.

The variation from the edge of the straightedge to the top of ridges between any two ridge contact points shall not exceed 1/2 inch. The difference in height from the top of any ridge to the bottom of the groove adjacent to that ridge shall not exceed 3/8". The center to center spacing of adjacent grooves shall be no greater than 5/8". Any point in the surface not meeting these requirements shall be corrected as directed by the Engineer at the Contractor's expense.

In isolated areas where surface delamination between existing asphalt concrete layers or a surface delamination of asphalt concrete on Portland Cement Concrete causes a non-uniform texture to occur, the straightedge surface measurement requirements stated in the preceding paragraph may be waived, subject to the approval of the Engineer.

Method of Measurement

Pavement Milling will be measured for payment by the number of square yards of area completed and the work accepted. No area deductions will be made for minor un-milled areas such as catchbasin inlets, manholes, utility boxes and any similar utility structures.

Basis of Payment

Coldplaning, removal and disposal of existing asphalt concrete pavement will be paid for at the Contract unit price per square yard. This price shall include all equipment, tools, labor, and materials incidental thereto. No additional payments will be made for multiple passes with the milling machine to remove the existing asphalt concrete surface to the grade specified.

No separate payments will be made for: cleaning the pavement prior to paving; performing handwork removal of existing pavement and providing protection around catch basin inlets, manholes, utility valve boxes and any similar structures; repairing surface defects as a result of the Contractor's negligence; providing protection to underground utilities from the vibration of the milling operation; sawcutting milled limits; removing existing raised pavement markers; installing and removing any temporary transition; removing and disposing of millings; furnishing a sweeper and sweeping after milling.

ITEM 151 GRAVEL BORROW

Cubic Yard

Work to be performed under this item shall be limited to furnishing, installing, compacting and grading for

the gravel used throughout the project as specified and approved by the Engineer.

All gravel borrow shall be used in the work shall comply with Materials Specification M1.03.0, Type b, unless otherwise specified on the Drawings or directed.

Gravel borrow shall be measured by the cubic yard of volume computed to the payment lines indicated on the Drawings, in the specifications, or as directed.

ITEM 182.2 REMOVAL OF ASBESTOS Foot

Measurement

ITEM 182.2 will be measured by the FOOT for the complete removal and disposal of the asbestos containing material regardless of material diameter.

Basis For Payment

Payment will be at the contract unit price per FOOT for ITEM 182.2 REMOVAL OF ASBESTOS, as specified above including all materials, tools, equipment and labor necessary to complete the work specified above.

All costs in connection with the protection of the general public, private property and all costs associated with the proper disposal of the material removed shall be included in the price and no additional compensation will be allowed.

ITEM 201 STORM DRAIN CATCHBASIN Each

The work under this Item shall conform to the relevant provisions of Section 201, 220 and the following:

All catch basins and manholes shall be fabricated by a MassDOT approved precast concrete fabricator.

All new catch basins shall have deep sumps (**2 feet**) as noted on the Plans and as detailed in the Construction Standard Drawings.

Basis For Payment

Item 201 will be paid for at the Contract unit price per Each, installed regardless of the depth of the structure required. Payment shall constitute full compensation for excavation, installation, backfill, stone, and all other materials **including pipes and fittings to connect to existing drain lines**, tools, equipment, labor and incidentals necessary to complete the work as specified on the Plans or as required by the Engineer.

Furnishing new castings or adjusting existing castings will be paid for at the contract unit price each under the items 220, 220.7, 221, 222, and 222.1.

ITEM 204 GUTTER INLET Each

The work under this Item shall conform to the relevant provisions of Section 201, 220 and the following:

Basis For Payment

Item 204 will be paid for at the Contract unit price per Each, installed. Payment shall constitute full compensation for excavation, installation, backfill, stone, and all other materials **including pipes and fittings to connect to existing drain lines**, tools, equipment, labor and incidentals necessary to complete the work as specified on the Plans or as required by the Engineer.

Furnishing new castings or adjusting existing castings will be paid for at the contract unit price each under the items 220, 220.7, 221, 222, and 222.1.

ITEM 220 DRAINAGE STRUCTURE ADJUSTED **Each**

The work under this Item shall conform to the relevant provisions of Section 201, 220 and the following:

All concrete, concrete blocks, clay bricks, gravel or other construction materials dislodged inside structure during construction to be removed and discarded by contractor.

Basis For Payment

Item 220 will be paid for at the Contract unit price per Each, installed and set to finish grade. Payment shall constitute full compensation for excavation, backfill, concrete collars, and all other, tools, equipment, labor and incidentals necessary to complete the work as specified on the plans or as required by the Engineer to a depth of 6" below structure frame.

When in the judgement of the Engineer the masonry shows deterioration beyond 6 inches below structure frame the masonry shall be removed in a neat manner until a clean sound base is obtained upon which concrete blocks and clay bricks may be set to rebuild structure, this will be paid for at the contract unit price per linear foot under the item 220.2 Drainage/Sanitary Structure Rebuilt.

ITEM 220.2 DRAINAGE/SANITARY STRUCTURE REBUILT **Foot**

The work under this Item shall conform to the relevant provisions of Section 201, 220 and the following:

All concrete, concrete blocks, clay bricks, gravel or other construction materials dislodged inside structure during construction to be removed and discarded by contractor.

Basis for Payment

When the line or grade or both the line and grade of the structure changes by 6 inches or less, the structure shall be adjusted to line and grade and payment shall be covered under items 220, 220.7, 221, 222, 222.1.

When in the judgement of the Engineer the masonry shows deterioration beyond 6 inches, the structure shall then be rebuilt. The deteriorated masonry shall be removed in a neat manner until a clean sound base is obtained upon which concrete blocks and clay bricks may be set. Paid under item 220.2 Drainage/Sanitary Structure Rebuilt by linear foot.

ITEM 220.3 DRAINAGE STRUCTURE CHANGE IN TYPE **Each**

The work under this Item shall conform to the relevant provisions of Section 201, 221, 222, 222.1 and the following:

All concrete, concrete blocks, clay bricks, gravel or other construction materials dislodged inside structure during construction to be removed and discarded by contractor.

Basis For Payment

Item 220.3 will be paid for at the contract unit price per each under the item for Drainage Structure, Change in Type. Payment shall constitute full compensation for excavation, backfill, concrete collars, and all other, tools, equipment, labor and incidentals necessary to complete the work as specified on the plans or as required by the Engineer up to 3 feet below structure frame.

When in the judgement of the Engineer the masonry shows deterioration more than 3 feet below structure frame, the structure shall be subject to the item drainage/sanitary structure rebuilt. The deteriorated masonry shall be removed in a neat manner until a clean sound base is obtained upon which concrete blocks and clay bricks may be set to rebuild structure. 220.2 Drainage/Sanitary Structure Rebuilt by linear foot.

No additional payment for 'Drainage Structure Adjusted' will be made that is subject to Item 220.3 drainage structure change in type.

ITEM 220.7 SANITARY STRUCTURE ADJUSTED **Each**

The work under this Item shall conform to the relevant provisions of Section 201, 220 and the following:

All concrete, concrete blocks, clay bricks, gravel or other construction materials dislodged inside structure during construction to be removed and discarded by contractor.

Basis For Payment

Item 220.7 will be paid for at the Contract unit price per Each, installed and set to finish grade. Payment shall constitute full compensation for excavation, backfill, concrete collars, and all other, tools, equipment, labor and incidentals necessary to complete the work as specified on the plans or as required by the Engineer to a depth of 6" below structure frame.

When in the judgement of the Engineer the masonry shows deterioration beyond 6 inches below structure frame the masonry shall be removed in a neat manner until a clean sound base is obtained upon which concrete blocks and clay bricks may be set to rebuild structure, this will be paid for at the contract unit price per linear foot under the item 220.2 Drainage/Sanitary Structure Rebuilt.

ITEM 221 FRAME AND COVER **Each**

The work under this Item shall conform to the relevant provisions of Section 201, 220 and the following:

The work to be done under this Item consists of the furnishing, delivering, and installation of Frame and Cover to the site as shown on the Plans, and as directed by the Engineer.

Work under this item shall also include the adjustment of structure when the elevation change of its top of frame or rim elevation is 6 inches or less.

All concrete, concrete blocks, clay bricks, gravel or other construction materials dislodged inside structure during construction to be removed and discarded by contractor.

Basis For Payment

Item 221 will be paid for at the Contract unit price per Each, installed and set to finish grade. Payment shall constitute full compensation for excavation, backfill, concrete collars, and all other, tools, equipment, labor and incidentals necessary to complete the work as specified on the Plans or as required by the Engineer.

No additional payment for 'Drainage Structure Adjusted' or 'Sanitary Structure Adjusted' will be made for any frame and cover structure that is subject to Item 221 frame and cover.

ITEM 222 FRAME AND GRATE MUNICIPAL STANDARD Each

The work under this Item shall conform to the relevant provisions of Section 201, 220 and the following:

The work to be done under this Item consists of the furnishing, delivering, and installation of Frame and Grate to the site as shown on the Plans, and as directed by the Engineer.

Work under this item shall also include the adjustment of structure when the elevation change of its top of frame or rim elevation is 6 inches or less.

All concrete, concrete blocks, clay bricks, gravel or other construction materials dislodged inside structure during construction to be removed and discarded by contractor.

Basis For Payment

Item 222 will be paid for at the Contract unit price per Each, installed and set to finish grade. Payment shall constitute full compensation for excavation, backfill, concrete collars, and all other, tools, equipment, labor and incidentals necessary to complete the work as specified on the Plans or as required by the Engineer.

No additional payment for 'Drainage Structure Adjusted' will be made for any Frame and Grate structure that is subject to Item 222 Frame and Grate.

ITEM 222.1 FRAME AND GRATE PRECAST CONCRETE (Curb Inlet)

Each

The work under this Item shall conform to the relevant provisions of Section 201, 220 and the following:

The work to be done under this Item consists of the furnishing, delivering, and installation of Frame and Grate to the site as shown on the Plans, and as directed by the Engineer.

Work under this item shall also include the adjustment of structure when the elevation change of its top of frame or rim elevation is 6 inches or less. Structure shall be arrow type c top special or approved other.

All concrete, concrete blocks, clay bricks, gravel or other construction materials dislodged inside structure during construction to be removed and discarded by contractor.

Basis for Payment

Item 222.1 will be paid for at the Contract unit price per Each, installed and set to finish grade. Payment shall constitute full compensation for excavation, backfill, concrete collars, and all other, tools, equipment, labor and incidentals necessary to complete the work as specified on the Plans or as required by the Engineer.

No additional payment for 'Drainage Structure Adjusted' will be made for any Frame and Grate structure that is subject to Item 222.1 Frame and Grate Precast Concrete.

ITEM 222.2 FRAME AND GRATE PRECAST CONCRETE **Each**
(Flat No Curb Inlet)

The work under this Item shall conform to the relevant provisions of Section 201, 220 and the following:

The work to be done under this Item consists of the furnishing, delivering, and installation of Frame and Grate to the site as shown on the Plans, and as directed by the Engineer.

Work under this item shall also include the adjustment of structure when the elevation change of its top of frame or rim elevation is 6 inches or less. Structure shall be arrow AC-TYPE "CL" top or approved other.

All concrete, concrete blocks, clay bricks, gravel or other construction materials dislodged inside structure during construction to be removed and discarded by contractor.

Basis for Payment

Item 222.2 will be paid for at the Contract unit price per Each, installed and set to finish grade. Payment shall constitute full compensation for excavation, backfill, concrete collars, and all other, tools, equipment, labor and incidentals necessary to complete the work as specified on the Plans or as required by the Engineer.

No additional payment for 'Drainage Structure Adjusted' will be made for any Frame and Grate structure that is subject to Item 222.2 Frame and Grate Precast Concrete.

ITEM 252.12 12-INCH HIGH DENSITY POLYETHYLENE PIPE **Foot**

Work under this item shall conform to the relevant provisions of Section 230 and as amended by the following:

"ADS" Corrugated Plastic Pipe (M5.03.1)

Install corrugated plastic pipe on a bed of 3/4" stone with a minimum depth of 6 inches. The stone shall completely encase the pipe and cover the pipe to a grade 6 inches over the top of the pipe for the entire width of the trench.

Measurement will be based on the actual linear foot of corrugated plastic pipe installed, complete in place. Payment will be based on the actual contract unit price and shall include all excavation, stone bedding, backfill, and pipe as required, regardless of depth of excavation.

ITEM 252.15 15-INCH HIGH DENSITY POLYETHYLENE PIPE **Foot**

Work under this item shall conform to the relevant provisions of Section 230 and as amended by the following:

"ADS" Corrugated Plastic Pipe (M5.03.1)

Install corrugated plastic pipe on a bed of 3/4" stone with a minimum depth of 6 inches. The stone shall completely encase the pipe and cover the pipe to a grade 6 inches over the top of the pipe for the entire width of the trench.

Measurement will be based on the actual linear foot of corrugated plastic pipe installed, complete in place. Payment will be based on the actual contract unit price and shall include all excavation, stone bedding, backfill, and pipe as required, regardless of depth of excavation.

ITEM 346.05 IRRIGATION CONDUIT REPAIR **Foot**

This work shall include the repair and/or replacement of lawn irrigation conduit damaged during construction. Repair and replacement of subsurface irrigation conduit clearly marked prior to construction shall be the sole responsibility of the contractor without additional compensation from the Town.

Method of measurement: The quantity of irrigation repair shall be the actual number of feet of replaced and/or repaired irrigation conduit damaged as a result of the construction effort.

Basis of Payment: This work will be paid for at the contract unit price per foot for 'Irrigation Conduit Repair' which price shall include all materials, equipment, tools, and labor incidental thereto.

ITEM 346.06 IRRIGATION HEAD REPLACEMENT **Each**

This work shall include the replacement of lawn irrigation heads damaged during construction. The same model and type damaged shall be replaced at the unit price each. Repair and replacement of irrigation heads clearly marked prior to construction shall be the sole responsibility of the contractor without additional compensation from the Town.

Method of measurement: The quantity of repair shall be the actual number of heads replaced each as a result of the restoration effort.

Basis of Payment: This work will be paid for at the contract unit price per each for 'Irrigation Head Replacement' regardless of model or type which unit price shall include all materials, equipment, tools, and labor incidental thereto.

ITEM 358 GATE BOX ADJUSTED **Each**

Boxes shall be adjusted to flush with the required finished grade or minus 1/8 of one inch, with concrete collars. Boxes shall not settle after paving and rolling are completed beyond the 1/8" below finished road grade level described above. If settling does occur, the Contractor shall repair the situation to the satisfaction of the Engineer without additional compensation from the Town.

Measurement of this item shall be by each unit adjusted as designated by the Engineer and payment shall be based upon the unit bid price.

ITEM 358.1 REPLACE WATER GATE BOX TOP **Each**

ITEM 358.2 REPLACE WATER GATE BOX TOP & BOTTOM **Each**

ITEM 450.90 CONTRACTOR QUALITY CONTROL **TON**

ITEM 451. HMA FOR PATCHING **Ton**

ITEM 452. ASPHALT EMULSION FOR TACK COAT **Gallon**

ITEM 453. HMA JOINT SEALANT **Foot**

ITEM 455.22 SUPERPAVE SURFACE COURSE - 9.5 (SSC - 9.5) **Ton**

ITEM 455.31 SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC - 12.5) **Ton**

ITEM 455.42 SUPERPAVE BASE COURSE - 37.5 (SBC - 37.5) **Ton**

Work under these Items shall conform to the relevant provisions of Document MassDOT 2019 Supplemental Specifications to the 1988 English and the 1995 Metric Standard Specifications for Highways and Bridges Section 450 Hot Mix Asphalt Pavement

SUPERPAVE REQUIREMENTS contained herein and the following:

The Equivalent Single Axle Loads (ESALs) for the design travel lane over a 10-year period is 1.85 Million 18-kip (80-kn) ESALs.

The PGAB Grade selected for this Contract is PG 64-28.

The emulsion under this specification shall be Grade RS-1H. The emulsion shall meet the requirements of AASHTO M 140 for Grade RS-1, except the 16 penetration of residue shall be at least 50 and no more than 100.

ITEM 460.1 **HOT MIX ASPHALT SHIM** **Ton**

ITEM 482.3 **SAWCUTTING ASPHALT PAVEMENT** **Foot**
/ CONCRETE

ITEM 504.1 **GRANITE CURB TYPE VA4 CURVED** **Foot**

ITEM 509.1 **GRANITE TRANSITION CURB FOR** **Foot**

WHEELCHAIR RAMPS – CURVED

ITEM 514 **GRANITE CURB INLET – STRAIGHT** **Each**

ITEM 515 **GRANITE CURB INLET – CURVED** **Each**

ITEM 570.2 **HOT MIX ASPHALT BERM** **Foot**
REMOVE AND REPLACE - TYPE 2

This item shall be provided by the Contractor in accordance with Section 500 of the Standard Specifications manual and shall be placed in the designated areas described by the Engineer. All work shall be done to the satisfaction of the Engineer.

The hot mix asphalt berm shall be place directly over the pavement surface. The total reveal of the berm shall be six inches, as measured from the new paved surface to the top of berm.

Hot Mix Asphalt Berm Remove and Replace - Type 2 will be measured by the actual number of linear feet of berm installed as accepted.

If at any time before the acceptance of the work any soft or imperfect spots develop in the exposed surface of the curb, such material placed shall be removed and replaced with new material and compacted, without additional compensation

Payment shall constitute full compensation for excavation and removal of existing berm, installation of bituminous concrete berm, backfill, and all other materials, tools, equipment, labor and incidentals necessary to complete berm removal and replacement as specified on the Plans or as required by the Engineer.

ITEM 570.21 **HOT MIX ASPHALT BERM AND PAD - TYPE 2** **Foot**

This item shall be provided by the Contractor in accordance with Section 500 of the Standard Specifications manual and shall be placed in the designated areas described by the Engineer. All work shall be done to the satisfaction of the Engineer.

The hot mix asphalt berm shall be place directly over the berm pad surface. The total reveal of the berm shall be six inches, as measured from the new paved surface to the top of berm.

Hot Mix Asphalt Berm and Pad - Type 2 will be measured by the actual number of linear feet of berm installed as accepted.

If at any time before the acceptance of the work any soft or imperfect spots develop in the exposed surface of the curb, such material placed shall be removed and replaced with new material and compacted, without additional compensation

Payment shall constitute full compensation for excavation, berm pad, gravel borrow, installation of bituminous concrete berm, backfill, and all other materials, tools, equipment, labor and incidentals necessary to complete berm and berm pad as specified on the Plans or as required by the Engineer.

ITEM 580 **GRANITE CURB REMOVED & RESET** **Foot**

ITEM 594	HMA CURB & PAD OR CONCRETE CURB	Foot
	<u>REMOVED AND DISCARDED (NOT TO BE REPLACED)</u>	
ITEM 701	4" CEMENT CONCRETE SIDEWALK	Square Yard
ITEM 701.1	6" CEMENT CONCRETE AT DRIVEWAYS	Square Yard
ITEM 701.2	6" CEMENT CONCRETE WHEELCHAIR RAMP	Square Yard
ITEM 701.3	CEMENT CONCRETE	Square Yard
	<u>REMOVED & DISCARDED (NOT TO BE REPLACED)</u>	
ITEM 703	HOT MIX ASPHALT DRIVEWAY	Ton

Work under this Item shall conform to the relevant provisions of Section 701 of the Standard Specifications manual and shall include resurfacing aprons of existing concrete driveways with hot mix asphalt, reconstruction of existing driveways, and construction of new aprons at existing gravel driveways.

On resurfacing projects which raise the roadway grade:

Where the existing bituminous driveway apron is in good condition, it shall be overlaid. The overlay shall extend to the minimum length necessary to provide a smooth transition. The butt joint shall be cold planed 1-1/2", dressed to a clear vertical edge with a paving spade. Asphaltic emulsion (RS-1) shall be applied to the existing old pavement surface and the vertical edge of the butt joint prior to the overlay.

At gravel driveways or driveways where the existing bituminous apron is in poor condition, a new bituminous concrete apron shall be constructed. The existing apron shall be removed and the new apron constructed as follows:

Construction of aprons shall include removal and disposal of existing driveway and placement of 3" Class I Bituminous Concrete Type I-1 placed in two layers, 1.5" top course material over 1.5" of binder course material. Binder course mix shall be placed on the existing gravel, if suitable. If the existing foundation material is determined to be unsuitable by the Engineer, the material shall be excavated and replaced with 6" compacted gravel (M1.03.0). The minimum length of the apron shall be 4'. The butt joint shall be neatly trimmed and dressed to a clear vertical edge with a paving spade. Asphaltic emulsion (RS-1) shall be applied to the vertical edge of the butt joint prior to paving the top course. At gravel driveways, the new aprons shall be tapered to match the existing, unpaved driveway with compacted, dense graded crushed stone to provide a reasonable transition.

If the existing driveway apron is in poor condition, then it shall be excavated and reconstructed as described above. Removal and disposal of existing driveway paid under Item 703.

On resurfacing projects that do not change the roadway grade:

In locations where the existing bituminous concrete driveway is in good condition, no new apron shall be constructed. The cold planed butt joint shall be dressed to a clear vertical edge with a paving spade. Asphaltic emulsion (RS-1) shall be applied to the vertical edge of the butt joint prior to paving.

ITEM 706.1 **RESET COBBLESTONE / BRICK /** **Square Yard**
CONCRETE PAVER DRIVEWAYS & WALKS

ITEM 715 **RURAL MAIL BOX REMOVED AND RESET** **Each**

General

The mail boxes indicated shall be removed together with the post, and post holes filled with suitable material and properly tamped. During the construction the mail box shall be set in a temporary location as directed, so that they are easily accessible to the mail carrier. When construction is complete the mail box and post shall be reset in the original location.

Basis of Payment

Payment for this work will be made at the contract unit price each under the item for Rural Mail Box Removed and Reset which price shall constitute full compensation for removing mail box and post, setting the mail box in a temporary location, and reinstalling in the original location.

ITEM 748 **MOBILIZATION** **Lump Sum**

ITEM 751 **LOAM BORROW** **Cubic Yard**

ITEM 765 **SEEDING** **Square Yard**

ITEM 832 **TRAFFIC SIGN / SIGNS INCLUDING POST (SEE PLAN)** **Each**

ITEM 832.1 **TRAFFIC SIGN REMOVED & RESET** **Each**

ITEM 866.104 **4 INCH REFLECTORIZED WHITE LINE** **Feet**
(THERMOPLASTIC)

ITEM 866.112 **12 INCH REFLECTORIZED WHITE LINE** **Feet**
(THERMOPLASTIC)

ITEM 866.124 **24 INCH REFLECTORIZED WHITE LINE** **Feet**
(THERMOPLASTIC)

ITEM 867.104 **4 INCH REFLECTORIZED YELLOW LINE** **Feet**

(THERMOPLASTIC)

SECTION C
STATE MANDATORY FORMS

SUBSECTION C-1
STATE MINIMUM 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: Milling & disposal of bituminous concrete, installation new road modification of drainage structures, new catch basin frames and covers, new granite curbing, removal & installation of sidewalk ramps
Job Location: LONGMEADOW, VARIOUS

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>	06/01/2019	\$34.25	\$11.91	\$12.70	\$0.00	\$58.86
	08/01/2019	\$34.25	\$12.41	\$12.70	\$0.00	\$59.36
	12/01/2019	\$34.25	\$12.41	\$13.72	\$0.00	\$60.38
	06/01/2020	\$35.15	\$12.41	\$13.72	\$0.00	\$61.28
	08/01/2020	\$35.15	\$12.91	\$13.72	\$0.00	\$61.78
	12/01/2020	\$35.15	\$12.91	\$14.82	\$0.00	\$62.88
	06/01/2021	\$35.95	\$12.91	\$14.82	\$0.00	\$63.68
	08/01/2021	\$35.95	\$13.41	\$14.82	\$0.00	\$64.18
	12/01/2021	\$35.95	\$13.41	\$16.01	\$0.00	\$65.37
(3 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	06/01/2019	\$34.32	\$11.91	\$12.70	\$0.00	\$58.93
	08/01/2019	\$34.32	\$12.41	\$12.70	\$0.00	\$59.43
	12/01/2019	\$34.32	\$12.41	\$13.72	\$0.00	\$60.45
	06/01/2020	\$35.22	\$12.41	\$13.72	\$0.00	\$61.35
	08/01/2020	\$35.22	\$12.91	\$13.72	\$0.00	\$61.85
	12/01/2020	\$35.22	\$12.91	\$14.82	\$0.00	\$62.95
	06/01/2021	\$36.02	\$12.91	\$14.82	\$0.00	\$63.75
	08/01/2021	\$36.02	\$13.41	\$14.82	\$0.00	\$64.25
	12/01/2021	\$36.02	\$13.41	\$16.01	\$0.00	\$65.44
(4 & 5 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	06/01/2019	\$34.44	\$11.91	\$12.70	\$0.00	\$59.05
	08/01/2019	\$34.44	\$12.41	\$12.70	\$0.00	\$59.55
	12/01/2019	\$34.44	\$12.41	\$13.72	\$0.00	\$60.57
	06/01/2020	\$35.34	\$12.41	\$13.72	\$0.00	\$61.47
	08/01/2020	\$35.34	\$12.91	\$13.72	\$0.00	\$61.97
	12/01/2020	\$35.34	\$12.91	\$14.82	\$0.00	\$63.07
	06/01/2021	\$36.14	\$12.91	\$14.82	\$0.00	\$63.87
	08/01/2021	\$36.14	\$13.41	\$14.82	\$0.00	\$64.37
	12/01/2021	\$36.14	\$13.41	\$16.01	\$0.00	\$65.56
ADS/SUBMERSIBLE PILOT <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2018	\$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>	06/03/2019	\$32.56	\$7.85	\$13.91	\$0.00	\$54.32
	12/02/2019	\$33.37	\$7.85	\$13.91	\$0.00	\$55.13
For apprentice rates see "Apprentice- LABORER"						
AIR TRACK OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY & HIGHWAY)</i>	06/01/2019	\$32.54	\$7.85	\$11.89	\$0.00	\$52.28
	12/01/2019	\$33.33	\$7.85	\$11.89	\$0.00	\$53.07
	06/01/2020	\$34.14	\$7.85	\$11.89	\$0.00	\$53.88
	12/01/2020	\$34.95	\$7.85	\$11.89	\$0.00	\$54.69
	06/01/2021	\$35.79	\$7.85	\$11.89	\$0.00	\$55.53
	12/01/2021	\$36.62	\$7.85	\$11.89	\$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>	06/01/2019	\$32.76	\$12.50	\$8.00	\$0.00	\$53.26
	12/01/2019	\$33.66	\$12.50	\$8.00	\$0.00	\$54.16
	06/01/2020	\$34.56	\$12.50	\$8.00	\$0.00	\$55.06
	12/01/2020	\$35.46	\$12.50	\$8.00	\$0.00	\$55.96

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
ASPHALT RAKER <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	06/03/2019	\$32.06	\$7.85	\$13.91	\$0.00	\$53.82
	12/02/2019	\$32.87	\$7.85	\$13.91	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						
ASPHALT RAKER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY & HIGHWAY)</i>	06/01/2019	\$32.04	\$7.85	\$11.89	\$0.00	\$51.78
	12/01/2019	\$32.83	\$7.85	\$11.89	\$0.00	\$52.57
	06/01/2020	\$33.64	\$7.85	\$11.89	\$0.00	\$53.38
	12/01/2020	\$34.45	\$7.85	\$11.89	\$0.00	\$54.19
	06/01/2021	\$35.29	\$7.85	\$11.89	\$0.00	\$55.03
	12/01/2021	\$36.12	\$7.85	\$11.89	\$0.00	\$55.86
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
AUTOMATIC GRADER-EXCAVATOR (RECLAIMER) <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/2019	\$35.05	\$11.69	\$14.08	\$0.00	\$60.82
	12/01/2019	\$35.65	\$11.69	\$14.35	\$0.00	\$61.69
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BACKHOE/FRONT-END LOADER OPERATOR <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/2019	\$35.05	\$11.69	\$14.08	\$0.00	\$60.82
	12/01/2019	\$35.65	\$11.69	\$14.35	\$0.00	\$61.69
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BARCO-TYPE JUMPING TAMPER <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	06/03/2019	\$32.06	\$7.85	\$13.91	\$0.00	\$53.82
	12/02/2019	\$32.87	\$7.85	\$13.91	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						
BATCH/CEMENT PLANT - ON SITE <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/2019	\$34.52	\$11.69	\$14.08	\$0.00	\$60.29
	12/01/2019	\$35.12	\$11.69	\$14.35	\$0.00	\$61.16
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BLOCK PAVER, RAMMER / CURB SETTER <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	06/03/2019	\$32.56	\$7.85	\$13.91	\$0.00	\$54.32
	12/02/2019	\$33.37	\$7.85	\$13.91	\$0.00	\$55.13
For apprentice rates see "Apprentice- LABORER"						
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY & HIGHWAY)</i>	06/01/2019	\$32.54	\$7.85	\$11.89	\$0.00	\$52.28
	12/01/2019	\$33.33	\$7.85	\$11.89	\$0.00	\$53.07
	06/01/2020	\$34.14	\$7.85	\$11.89	\$0.00	\$53.88
	12/01/2020	\$34.95	\$7.85	\$11.89	\$0.00	\$54.69
	06/01/2021	\$35.79	\$7.85	\$11.89	\$0.00	\$55.53
	12/01/2021	\$36.62	\$7.85	\$11.89	\$0.00	\$56.36
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
BOILER MAKER <i>BOILERMAKERS LOCAL 29</i>	01/01/2019	\$44.71	\$7.07	\$17.72	\$0.00	\$69.50
	01/01/2020	\$46.10	\$7.07	\$17.98	\$0.00	\$71.15

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - BOILERMAKER - Local 29

Effective Date - 01/01/2019

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

Effective Date - 01/01/2020

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

Notes:

Apprentice to Journeyworker Ratio:1:4

BRICK/STONE/ARTIFICIAL MASONRY (INCL. MASONRY WATERPROOFING)	02/01/2019	\$41.96	\$10.75	\$18.77	\$0.00	\$71.48
BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)	08/01/2019	\$43.31	\$10.75	\$18.91	\$0.00	\$72.97
	02/01/2020	\$43.86	\$10.75	\$18.91	\$0.00	\$73.52
	08/01/2020	\$45.21	\$10.75	\$19.06	\$0.00	\$75.02
	02/01/2021	\$45.76	\$10.75	\$19.06	\$0.00	\$75.57
	08/01/2021	\$47.16	\$10.75	\$19.22	\$0.00	\$77.13
	02/01/2022	\$47.69	\$10.75	\$19.22	\$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 - 02/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.98	\$10.75	\$18.77	\$0.00	\$50.50
2	60	\$25.18	\$10.75	\$18.77	\$0.00	\$54.70
3	70	\$29.37	\$10.75	\$18.77	\$0.00	\$58.89
4	80	\$33.57	\$10.75	\$18.77	\$0.00	\$63.09
5	90	\$37.76	\$10.75	\$18.77	\$0.00	\$67.28

Effective Date - 08/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.66	\$10.75	\$18.91	\$0.00	\$51.32
2	60	\$25.99	\$10.75	\$18.91	\$0.00	\$55.65
3	70	\$30.32	\$10.75	\$18.91	\$0.00	\$59.98
4	80	\$34.65	\$10.75	\$18.91	\$0.00	\$64.31
5	90	\$38.98	\$10.75	\$18.91	\$0.00	\$68.64

Notes:

Apprentice to Journeyworker Ratio:1:5

BULLDOZER/POWER SHOVEL/TREE SHREDDER /CLAM SHELL OPERATING	06/01/2019	\$35.05	\$11.69	\$14.08	\$0.00	\$60.82
ENGINEERS LOCAL 98 For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/01/2019	\$35.65	\$11.69	\$14.35	\$0.00	\$61.69
CAISSON & UNDERPINNING BOTTOM MAN LABORERS - FOUNDATION AND MARINE	06/01/2019	\$40.75	\$7.85	\$15.55	\$0.00	\$64.15
	12/01/2019	\$41.75	\$7.85	\$15.55	\$0.00	\$65.15
	06/01/2020	\$42.74	\$7.85	\$15.55	\$0.00	\$66.14
	12/01/2020	\$43.72	\$7.85	\$15.55	\$0.00	\$67.12
	06/01/2021	\$44.74	\$7.85	\$15.55	\$0.00	\$68.14
	12/01/2021	\$45.75	\$7.85	\$15.55	\$0.00	\$69.15
For apprentice rates see "Apprentice- LABORER"						
CAISSON & UNDERPINNING LABORER LABORERS - FOUNDATION AND MARINE	06/01/2019	\$39.60	\$7.85	\$15.55	\$0.00	\$63.00
	12/01/2019	\$40.60	\$7.85	\$15.55	\$0.00	\$64.00
	06/01/2020	\$41.59	\$7.85	\$15.55	\$0.00	\$64.99
	12/01/2020	\$42.57	\$7.85	\$15.55	\$0.00	\$65.97
	06/01/2021	\$43.59	\$7.85	\$15.55	\$0.00	\$66.99
	12/01/2021	\$44.60	\$7.85	\$15.55	\$0.00	\$68.00
For apprentice rates see "Apprentice- LABORER"						
CAISSON & UNDERPINNING TOP MAN LABORERS - FOUNDATION AND MARINE	06/01/2019	\$39.60	\$7.85	\$15.55	\$0.00	\$63.00
	12/01/2019	\$40.60	\$7.85	\$15.55	\$0.00	\$64.00
	06/01/2020	\$41.59	\$7.85	\$15.55	\$0.00	\$64.99
	12/01/2020	\$42.57	\$7.85	\$15.55	\$0.00	\$65.97
	06/01/2021	\$43.59	\$7.85	\$15.55	\$0.00	\$66.99
	12/01/2021	\$44.60	\$7.85	\$15.55	\$0.00	\$68.00
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
CARBIDE CORE DRILL OPERATOR <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	06/03/2019	\$32.06	\$7.85	\$13.91	\$0.00	\$53.82
	12/02/2019	\$32.87	\$7.85	\$13.91	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						
CARPENTER <i>CARPENTERS LOCAL 108 - HAMPDEN HAMPSHIRE FRANKLIN</i>	03/04/2019	\$38.64	\$8.26	\$15.00	\$0.00	\$61.90

Apprentice - CARPENTER - Local 108 Hampden Hampshire Franklin

Effective Date - 03/04/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.32	\$8.26	\$1.22	\$0.00	\$28.80
2	60	\$23.18	\$8.26	\$1.22	\$0.00	\$32.66
3	70	\$27.05	\$8.26	\$11.34	\$0.00	\$46.65
4	75	\$28.98	\$8.26	\$11.34	\$0.00	\$48.58
5	80	\$30.91	\$8.26	\$12.56	\$0.00	\$51.73
6	80	\$30.91	\$8.26	\$12.56	\$0.00	\$51.73
7	90	\$34.78	\$8.26	\$13.78	\$0.00	\$56.82
8	90	\$34.78	\$8.26	\$13.78	\$0.00	\$56.82

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 <i>CARPENTERS LOCAL 108 - HAMPDEN HAMPSHIRE FRANKLIN</i>	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
All Aspects of New Wood Frame Work						

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - CARPENTER (Wood Frame) - 108 Hampden Hampshire

Effective Date - 04/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$13.86	\$7.07	\$0.00	\$0.00	\$20.93
2	60	\$13.86	\$7.07	\$0.00	\$0.00	\$20.93
3	65	\$15.02	\$7.07	\$7.86	\$0.00	\$29.95
4	70	\$16.17	\$7.07	\$7.86	\$0.00	\$31.10
5	75	\$17.33	\$7.07	\$7.86	\$0.00	\$32.26
6	80	\$18.48	\$7.07	\$7.86	\$0.00	\$33.41
7	85	\$19.64	\$7.07	\$7.86	\$0.00	\$34.57
8	90	\$20.79	\$7.07	\$7.86	\$0.00	\$35.72

Effective Date - 10/01/2019

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

Notes:
 % Indentured After 10/1/17; 45/45/55/55/70/70/80/80
 Step 1&2 \$17.47/ 3&4 \$24.53/ 5&6 \$31.10/ 7&8 \$33.41

Apprentice to Journeyworker Ratio:1:5

CEMENT MASONRY/PLASTERING	07/01/2019	\$40.46	\$12.70	\$17.64	\$0.62	\$71.42
BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)	01/01/2020	\$41.94	\$12.70	\$17.64	\$0.62	\$72.90

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - CEMENT MASONRY/PLASTERING - Springfield/Pittsfield

Effective Date - 07/01/2019

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

Effective Date - 01/01/2020

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

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

Apprentice to Journeyworker Ratio:1:3

CHAIN SAW OPERATOR <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	06/03/2019	\$32.06	\$7.85	\$13.91	\$0.00	\$53.82
For apprentice rates see "Apprentice- LABORER"	12/02/2019	\$32.87	\$7.85	\$13.91	\$0.00	\$54.63
COMPRESSOR OPERATOR <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/2019	\$34.52	\$11.69	\$14.08	\$0.00	\$60.29
For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/01/2019	\$35.12	\$11.69	\$14.35	\$0.00	\$61.16
CRANE OPERATOR <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/2019	\$38.55	\$11.69	\$14.08	\$0.00	\$64.32
For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/01/2019	\$39.15	\$11.69	\$14.35	\$0.00	\$65.19
DELEADER (BRIDGE) <i>PAINTERS LOCAL 35 - ZONE 3</i>	07/01/2019	\$50.66	\$8.20	\$21.45	\$0.00	\$80.31
	01/01/2020	\$50.96	\$8.20	\$22.10	\$0.00	\$81.26
	07/01/2020	\$52.06	\$8.20	\$22.10	\$0.00	\$82.36
	01/01/2021	\$53.16	\$8.20	\$22.10	\$0.00	\$83.46

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER Local 35 - BRIDGES/TANKS

Effective Date - 07/01/2019

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

Effective Date - 01/01/2020

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

Notes:
Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

DEMO: ADZEMAN LABORERS - ZONE 3 (BUILDING & SITE)	06/01/2019	\$39.80	\$7.85	\$15.35	\$0.00	\$63.00
	12/01/2019	\$40.80	\$7.85	\$15.35	\$0.00	\$64.00
For apprentice rates see "Apprentice- LABORER"						
DEMO: BACKHOE/LOADER/HAMMER OPERATOR LABORERS - ZONE 3 (BUILDING & SITE)	06/01/2019	\$40.80	\$7.85	\$15.35	\$0.00	\$64.00
	12/01/2019	\$41.80	\$7.85	\$15.35	\$0.00	\$65.00
For apprentice rates see "Apprentice- LABORER"						
DEMO: BURNERS LABORERS - ZONE 3 (BUILDING & SITE)	06/01/2019	\$40.55	\$7.85	\$15.35	\$0.00	\$63.75
	12/01/2019	\$41.55	\$7.85	\$15.35	\$0.00	\$64.75
For apprentice rates see "Apprentice- LABORER"						
DEMO: CONCRETE CUTTER/SAWYER LABORERS - ZONE 3 (BUILDING & SITE)	06/01/2019	\$40.80	\$7.85	\$15.35	\$0.00	\$64.00
	12/01/2019	\$41.80	\$7.85	\$15.35	\$0.00	\$65.00
For apprentice rates see "Apprentice- LABORER"						
DEMO: JACKHAMMER OPERATOR LABORERS - ZONE 3 (BUILDING & SITE)	06/01/2019	\$40.55	\$7.85	\$15.35	\$0.00	\$63.75
	12/01/2019	\$41.55	\$7.85	\$15.35	\$0.00	\$64.75
For apprentice rates see "Apprentice- LABORER"						
DEMO: WRECKING LABORER LABORERS - ZONE 3 (BUILDING & SITE)	06/01/2019	\$39.80	\$7.85	\$15.35	\$0.00	\$63.00
	12/01/2019	\$40.80	\$7.85	\$15.35	\$0.00	\$64.00
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
DIVER <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	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>	08/01/2018	\$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>	08/01/2018	\$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>	08/01/2018	\$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>	06/30/2019	\$42.66	\$10.75	\$12.33	\$0.00	\$65.74
	12/29/2019	\$43.41	\$11.00	\$12.60	\$0.00	\$67.01

Apprentice - ELECTRICIAN - Local 7

Effective Date - 06/30/2019

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

Notes:

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

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

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

Apprentice - ELEVATOR CONSTRUCTOR - Local 41

Effective Date - 01/01/2019

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

Effective Date - 01/01/2020

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

Notes:

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

Apprentice to Journeyworker Ratio:1:1

ELEVATOR CONSTRUCTOR HELPER <i>ELEVATOR CONSTRUCTORS LOCAL 41</i>	01/01/2019	\$37.18	\$15.58	\$17.51	\$0.00	\$70.27
	01/01/2020	\$38.40	\$15.73	\$18.41	\$0.00	\$72.54
	01/01/2021	\$39.68	\$15.88	\$19.31	\$0.00	\$74.87
	01/01/2022	\$41.03	\$16.03	\$20.21	\$0.00	\$77.27
For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"						
FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY & HIGHWAY)</i>	06/01/2019	\$32.04	\$7.85	\$11.89	\$0.00	\$51.78
	12/01/2019	\$32.83	\$7.85	\$11.89	\$0.00	\$52.57
	06/01/2020	\$33.64	\$7.85	\$11.89	\$0.00	\$53.38
	12/01/2020	\$34.45	\$7.85	\$11.89	\$0.00	\$54.19
	06/01/2021	\$35.29	\$7.85	\$11.89	\$0.00	\$55.03
	12/01/2021	\$36.12	\$7.85	\$11.89	\$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>	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>	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"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
FIREMAN	06/01/2019	\$34.52	\$11.69	\$14.08	\$0.00	\$60.29
<i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2019	\$35.12	\$11.69	\$14.35	\$0.00	\$61.16

Apprentice - OPERATING ENGINEERS - Local 98 Class 3

Effective Date - 06/01/2019

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

Effective Date - 12/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$21.07	\$11.69	\$14.35	\$0.00	\$47.11
2	70	\$24.58	\$11.69	\$14.35	\$0.00	\$50.62
3	80	\$28.10	\$11.69	\$14.35	\$0.00	\$54.14
4	90	\$31.61	\$11.69	\$14.35	\$0.00	\$57.65

Notes:

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

Apprentice to Journeyworker Ratio:1:6

FLAGGER & SIGNALER (HEAVY & HIGHWAY)	06/01/2019	\$22.50	\$7.85	\$11.89	\$0.00	\$42.24
<i>LABORERS - ZONE 3 (HEAVY & HIGHWAY)</i>	12/01/2019	\$23.50	\$7.85	\$11.89	\$0.00	\$43.24
	06/01/2020	\$23.50	\$7.85	\$11.89	\$0.00	\$43.24
	12/01/2020	\$24.50	\$7.85	\$11.89	\$0.00	\$44.24
	06/01/2021	\$24.50	\$7.85	\$11.89	\$0.00	\$44.24
	12/01/2021	\$24.50	\$7.85	\$11.89	\$0.00	\$44.24

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

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

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>	06/01/2019	\$34.74	\$11.69	\$14.08	\$0.00	\$60.51
	12/01/2019	\$35.34	\$11.69	\$14.35	\$0.00	\$61.38
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
GENERATORS/LIGHTING PLANTS <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/2019	\$31.29	\$11.69	\$14.08	\$0.00	\$57.06
	12/01/2019	\$31.89	\$11.69	\$14.35	\$0.00	\$57.93
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS) <i>GLAZIERS LOCAL 1333</i>	06/01/2019	\$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 - 06/01/2019

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

Effective Date - 06/01/2020

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

Notes:

Apprentice to Journeyworker Ratio:1:3

GRADER/TRENCHING MACHINE/DERRICK <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/2019	\$35.05	\$11.69	\$14.08	\$0.00	\$60.82
For apprentice rates see "Apprentice- OPERATING ENGINEERS"	12/01/2019	\$35.65	\$11.69	\$14.35	\$0.00	\$61.69
HVAC (DUCTWORK) <i>SHEETMETAL WORKERS LOCAL 63</i>	07/01/2019	\$35.74	\$10.64	\$16.22	\$1.77	\$64.37
For apprentice rates see "Apprentice- SHEET METAL WORKER"	01/01/2020	\$36.99	\$10.64	\$16.22	\$1.77	\$65.62
HVAC (ELECTRICAL CONTROLS) <i>ELECTRICIANS LOCAL 7</i>	06/30/2019	\$42.66	\$10.75	\$12.33	\$0.00	\$65.74
For apprentice rates see "Apprentice- ELECTRICIAN"	12/29/2019	\$43.41	\$11.00	\$12.60	\$0.00	\$67.01
HVAC (TESTING AND BALANCING - AIR) <i>SHEETMETAL WORKERS LOCAL 63</i>	07/01/2019	\$35.74	\$10.64	\$16.22	\$1.77	\$64.37
For apprentice rates see "Apprentice- SHEET METAL WORKER"	01/01/2020	\$36.99	\$10.64	\$16.22	\$1.77	\$65.62
HVAC (TESTING AND BALANCING -WATER) <i>PLUMBERS & PIPEFITTERS LOCAL 104</i>	03/17/2019	\$40.21	\$8.75	\$16.35	\$0.00	\$65.31
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
HVAC MECHANIC <i>PLUMBERS & PIPEFITTERS LOCAL 104</i>	03/17/2019	\$40.21	\$8.75	\$16.35	\$0.00	\$65.31
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
HYDRAULIC DRILLS (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY & HIGHWAY)</i>	06/01/2019	\$32.54	\$7.85	\$11.89	\$0.00	\$52.28
	12/01/2019	\$33.33	\$7.85	\$11.89	\$0.00	\$53.07
	06/01/2020	\$34.14	\$7.85	\$11.89	\$0.00	\$53.88
	12/01/2020	\$34.95	\$7.85	\$11.89	\$0.00	\$54.69
	06/01/2021	\$35.79	\$7.85	\$11.89	\$0.00	\$55.53
	12/01/2021	\$36.62	\$7.85	\$11.89	\$0.00	\$56.36
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
INSULATOR (PIPES & TANKS) <i>HEAT & FROST INSULATORS LOCAL 6 (SPRINGFIELD)</i>	09/01/2018	\$37.67	\$12.50	\$15.60	\$0.00	\$65.77
	09/01/2019	\$39.67	\$12.50	\$15.60	\$0.00	\$67.77

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

Effective Date - 09/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$18.84	\$12.50	\$11.40	\$0.00	\$42.74
2	60	\$22.60	\$12.50	\$12.24	\$0.00	\$47.34
3	70	\$26.37	\$12.50	\$13.08	\$0.00	\$51.95
4	80	\$30.14	\$12.50	\$13.92	\$0.00	\$56.56

Effective Date - 09/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.84	\$12.50	\$11.40	\$0.00	\$43.74
2	60	\$23.80	\$12.50	\$12.24	\$0.00	\$48.54
3	70	\$27.77	\$12.50	\$13.08	\$0.00	\$53.35
4	80	\$31.74	\$12.50	\$13.92	\$0.00	\$58.16

Notes:

Steps are 1 year

Apprentice to Journeyworker Ratio:1:4

IRONWORKER/WELDER <i>IRONWORKERS LOCAL 7 (SPRINGFIELD AREA)</i>	03/16/2019	\$34.20	\$8.00	\$20.75	\$0.00	\$62.95
	09/16/2019	\$35.10	\$8.00	\$20.75	\$0.00	\$63.85
	03/16/2020	\$35.95	\$8.00	\$20.75	\$0.00	\$64.70
	09/16/2020	\$36.85	\$8.00	\$20.75	\$0.00	\$65.60
	03/16/2021	\$37.70	\$8.00	\$20.75	\$0.00	\$66.45

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - IRONWORKER - Local 7 Springfield

Effective Date - 03/16/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$20.52	\$8.00	\$20.75	\$0.00	\$49.27
2	70	\$23.94	\$8.00	\$20.75	\$0.00	\$52.69
3	75	\$25.65	\$8.00	\$20.75	\$0.00	\$54.40
4	80	\$27.36	\$8.00	\$20.75	\$0.00	\$56.11
5	85	\$29.07	\$8.00	\$20.75	\$0.00	\$57.82
6	90	\$30.78	\$8.00	\$20.75	\$0.00	\$59.53

Effective Date - 09/16/2019

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

Notes:

Structural 1:6; Ornamental 1:4

Apprentice to Journeyworker Ratio:

JACKHAMMER & PAVING BREAKER OPERATOR LABORERS - ZONE 3 (BUILDING & SITE)	06/03/2019	\$32.06	\$7.85	\$13.91	\$0.00	\$53.82
	12/02/2019	\$32.87	\$7.85	\$13.91	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						
LABORER LABORERS - ZONE 3 (BUILDING & SITE)	06/03/2019	\$31.81	\$7.85	\$13.91	\$0.00	\$53.57
	12/02/2019	\$32.62	\$7.85	\$13.91	\$0.00	\$54.38

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - LABORER - Zone 3 Building & Site

Effective Date - 06/03/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$19.09	\$7.85	\$13.91	\$0.00	\$40.85
2	70	\$22.27	\$7.85	\$13.91	\$0.00	\$44.03
3	80	\$25.45	\$7.85	\$13.91	\$0.00	\$47.21
4	90	\$28.63	\$7.85	\$13.91	\$0.00	\$50.39

Effective Date - 12/02/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$19.57	\$7.85	\$13.91	\$0.00	\$41.33
2	70	\$22.83	\$7.85	\$13.91	\$0.00	\$44.59
3	80	\$26.10	\$7.85	\$13.91	\$0.00	\$47.86
4	90	\$29.36	\$7.85	\$13.91	\$0.00	\$51.12

Notes:

Apprentice to Journeyworker Ratio:1:5

LABORER (HEAVY & HIGHWAY)	06/01/2019	\$31.79	\$7.85	\$11.89	\$0.00	\$51.53
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	12/01/2019	\$32.58	\$7.85	\$11.89	\$0.00	\$52.32
	06/01/2020	\$33.39	\$7.85	\$11.89	\$0.00	\$53.13
	12/01/2020	\$34.20	\$7.85	\$11.89	\$0.00	\$53.94
	06/01/2021	\$35.04	\$7.85	\$11.89	\$0.00	\$54.78
	12/01/2021	\$35.87	\$7.85	\$11.89	\$0.00	\$55.61

Apprentice - LABORER (Heavy & Highway) - Zone 3

Effective Date - 06/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$19.07	\$7.85	\$11.89	\$0.00	\$38.81
2	70	\$22.25	\$7.85	\$11.89	\$0.00	\$41.99
3	80	\$25.43	\$7.85	\$11.89	\$0.00	\$45.17
4	90	\$28.61	\$7.85	\$11.89	\$0.00	\$48.35

Effective Date - 12/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$19.55	\$7.85	\$11.89	\$0.00	\$39.29
2	70	\$22.81	\$7.85	\$11.89	\$0.00	\$42.55
3	80	\$26.06	\$7.85	\$11.89	\$0.00	\$45.80
4	90	\$29.32	\$7.85	\$11.89	\$0.00	\$49.06

Notes:

Apprentice to Journeyworker Ratio:1:5

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LABORER: CARPENTER TENDER <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	06/03/2019	\$31.81	\$7.85	\$13.91	\$0.00	\$53.57
	12/02/2019	\$32.62	\$7.85	\$13.91	\$0.00	\$54.38
For apprentice rates see "Apprentice- LABORER"						
LABORER: CEMENT FINISHER TENDER <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	06/03/2019	\$32.06	\$7.85	\$13.91	\$0.00	\$53.82
	12/02/2019	\$32.87	\$7.85	\$13.91	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						
LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	06/01/2019	\$31.91	\$7.85	\$13.91	\$0.00	\$53.67
	12/01/2019	\$32.72	\$7.85	\$13.91	\$0.00	\$54.48
For apprentice rates see "Apprentice- LABORER"						
LABORER: MASON TENDER <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	06/03/2019	\$32.81	\$7.85	\$13.91	\$0.00	\$54.57
	12/02/2019	\$33.62	\$7.85	\$13.91	\$0.00	\$55.38
For apprentice rates see "Apprentice- LABORER"						
LABORER: MASON TENDER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY & HIGHWAY)</i>	06/01/2019	\$32.04	\$7.85	\$11.89	\$0.00	\$51.78
	12/01/2019	\$32.83	\$7.85	\$11.89	\$0.00	\$52.57
	06/01/2020	\$33.64	\$7.85	\$11.89	\$0.00	\$53.38
	12/01/2020	\$34.45	\$7.85	\$11.89	\$0.00	\$54.19
	06/01/2021	\$35.29	\$7.85	\$11.89	\$0.00	\$55.03
	12/01/2021	\$36.12	\$7.85	\$11.89	\$0.00	\$55.86
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
LABORER: MULTI-TRADE TENDER <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	06/03/2019	\$31.81	\$7.85	\$13.91	\$0.00	\$53.57
	12/02/2019	\$32.62	\$7.85	\$13.91	\$0.00	\$54.38
For apprentice rates see "Apprentice- LABORER"						
LABORER: TREE REMOVER <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	06/03/2019	\$31.81	\$7.85	\$13.91	\$0.00	\$53.57
	12/02/2019	\$32.62	\$7.85	\$13.91	\$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>	06/03/2019	\$32.06	\$7.85	\$13.91	\$0.00	\$53.82
	12/02/2019	\$32.87	\$7.85	\$13.91	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						
LASER BEAM OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY & HIGHWAY)</i>	06/01/2019	\$32.04	\$7.85	\$11.89	\$0.00	\$51.78
	12/01/2019	\$32.83	\$7.85	\$11.89	\$0.00	\$52.57
	06/01/2020	\$33.64	\$7.85	\$11.89	\$0.00	\$53.38
	12/01/2020	\$34.45	\$7.85	\$11.89	\$0.00	\$54.19
	06/01/2021	\$35.29	\$7.85	\$11.89	\$0.00	\$55.03
	12/01/2021	\$36.12	\$7.85	\$11.89	\$0.00	\$55.86
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
MARBLE & TILE FINISHERS <i>BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE</i>	02/01/2019	\$34.67	\$10.75	\$18.26	\$0.00	\$63.68
	08/01/2019	\$35.67	\$10.75	\$18.37	\$0.00	\$64.79
	02/01/2020	\$36.17	\$10.75	\$18.37	\$0.00	\$65.29
	08/01/2020	\$37.17	\$10.75	\$18.49	\$0.00	\$66.41
	02/01/2021	\$37.67	\$10.75	\$18.49	\$0.00	\$66.91
	08/01/2021	\$38.67	\$10.75	\$18.62	\$0.00	\$68.04
	02/01/2022	\$39.12	\$10.75	\$18.62	\$0.00	\$68.49

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

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

Effective Date - 02/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$17.34	\$10.75	\$18.26	\$0.00	\$46.35
2	60	\$20.80	\$10.75	\$18.26	\$0.00	\$49.81
3	70	\$24.27	\$10.75	\$18.26	\$0.00	\$53.28
4	80	\$27.74	\$10.75	\$18.26	\$0.00	\$56.75
5	90	\$31.20	\$10.75	\$18.26	\$0.00	\$60.21

Effective Date - 08/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$17.84	\$10.75	\$18.37	\$0.00	\$46.96
2	60	\$21.40	\$10.75	\$18.37	\$0.00	\$50.52
3	70	\$24.97	\$10.75	\$18.37	\$0.00	\$54.09
4	80	\$28.54	\$10.75	\$18.37	\$0.00	\$57.66
5	90	\$32.10	\$10.75	\$18.37	\$0.00	\$61.22

Notes:

Apprentice to Journeyworker Ratio:1:5

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

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

MECH. SWEEPER OPERATOR (ON CONST. SITES) OPERATING ENGINEERS LOCAL 98	06/01/2019	\$35.05	\$11.69	\$14.08	\$0.00	\$60.82
	12/01/2019	\$35.65	\$11.69	\$14.35	\$0.00	\$61.69

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

MECHANIC/WELDER/BOOM TRUCK OPERATING ENGINEERS LOCAL 98	06/01/2019	\$34.52	\$11.69	\$14.08	\$0.00	\$60.29
	12/01/2019	\$35.12	\$11.69	\$14.35	\$0.00	\$61.16

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

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

Effective Date - 04/01/2019

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

Notes:

Steps are 2,000 hours

Apprentice to Journeyworker Ratio:1:5

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
MORTAR MIXER <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	06/03/2019	\$32.06	\$7.85	\$13.91	\$0.00	\$53.82
	12/02/2019	\$32.87	\$7.85	\$13.91	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						
OILER <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/2019	\$30.21	\$11.69	\$14.08	\$0.00	\$55.98
	12/01/2019	\$30.81	\$11.69	\$14.35	\$0.00	\$56.85
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
OTHER POWER DRIVEN EQUIPMENT - CLASS VI <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/2019	\$28.23	\$11.69	\$14.08	\$0.00	\$54.00
	12/01/2019	\$28.83	\$11.69	\$14.35	\$0.00	\$54.87
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PAINTER (BRIDGES/TANKS) <i>PAINTERS LOCAL 35 - ZONE 3</i>	07/01/2019	\$50.66	\$8.20	\$21.45	\$0.00	\$80.31
	01/01/2020	\$50.96	\$8.20	\$22.10	\$0.00	\$81.26
	07/01/2020	\$52.06	\$8.20	\$22.10	\$0.00	\$82.36
	01/01/2021	\$53.16	\$8.20	\$22.10	\$0.00	\$83.46

Apprentice - PAINTER Local 35 - BRIDGES/TANKS

Effective Date - 07/01/2019

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

Effective Date - 01/01/2020

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

Notes:
Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER (SIGN, PICTORIAL & DISPLAY) <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 - PAINTER SIGN - Local 35 Zone 3

Effective Date - 06/01/2013

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

Notes:
Steps are 4 mos.

Apprentice to Journeyworker Ratio:1:1

PAINTER (SPRAY OR SANDBLAST, NEW) *	07/01/2019	\$34.03	\$8.20	\$17.55	\$0.00	\$59.78
* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. PAINTERS LOCAL 35 - ZONE 3	01/01/2020	\$34.33	\$8.20	\$18.20	\$0.00	\$60.73
	07/01/2020	\$35.43	\$8.20	\$18.20	\$0.00	\$61.83
	01/01/2021	\$36.53	\$8.20	\$18.20	\$0.00	\$62.93

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

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

Effective Date - 07/01/2019

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

Effective Date - 01/01/2020

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

Notes:
Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

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

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

Effective Date - 07/01/2019

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

Effective Date - 01/01/2020

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

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER / TAPER (BRUSH, NEW) *	07/01/2019	\$32.63	\$8.20	\$17.55	\$0.00	\$58.38
* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. PAINTERS LOCAL 35 - ZONE 3	01/01/2020	\$32.93	\$8.20	\$18.20	\$0.00	\$59.33
	07/01/2020	\$34.03	\$8.20	\$18.20	\$0.00	\$60.43
	01/01/2021	\$35.13	\$8.20	\$18.20	\$0.00	\$61.53

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER - Local 35 Zone 3 - BRUSH NEW

Effective Date - 07/01/2019

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

Effective Date - 01/01/2020

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

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER / TAPER (BRUSH, REPAINT)	07/01/2019	\$29.95	\$8.20	\$17.55	\$0.00	\$55.70
PAINTERS LOCAL 35 - ZONE 3	01/01/2020	\$30.25	\$8.20	\$18.20	\$0.00	\$56.65
	07/01/2020	\$31.35	\$8.20	\$18.20	\$0.00	\$57.75
	01/01/2021	\$32.45	\$8.20	\$18.20	\$0.00	\$58.85

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER Local 35 Zone 3 - BRUSH REPAINT

Effective Date - 07/01/2019

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

Effective Date - 01/01/2020

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

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY)	06/01/2019	\$31.79	\$7.85	\$11.89	\$0.00	\$51.53
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	12/01/2019	\$32.58	\$7.85	\$11.89	\$0.00	\$52.32
	06/01/2020	\$33.39	\$7.85	\$11.89	\$0.00	\$53.13
	12/01/2020	\$34.20	\$7.85	\$11.89	\$0.00	\$53.94
	06/01/2021	\$35.04	\$7.85	\$11.89	\$0.00	\$54.78
	12/01/2021	\$35.87	\$7.85	\$11.89	\$0.00	\$55.61

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

PANEL & PICKUP TRUCKS DRIVER	06/01/2019	\$34.08	\$11.91	\$12.70	\$0.00	\$58.69
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	08/01/2019	\$34.08	\$12.41	\$12.70	\$0.00	\$59.19
	12/01/2019	\$34.08	\$12.41	\$13.72	\$0.00	\$60.21
	06/01/2020	\$34.98	\$12.41	\$13.72	\$0.00	\$61.11
	08/01/2020	\$34.98	\$12.91	\$13.72	\$0.00	\$61.61
	12/01/2020	\$34.98	\$12.91	\$14.82	\$0.00	\$62.71
	06/01/2021	\$35.78	\$12.91	\$14.82	\$0.00	\$63.51
	08/01/2021	\$35.78	\$13.41	\$14.82	\$0.00	\$64.01
	12/01/2021	\$35.78	\$13.41	\$16.01	\$0.00	\$65.20

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK)	08/01/2018	\$41.57	\$9.90	\$21.15	\$0.00	\$72.62
<i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2019	\$43.79	\$9.90	\$21.15	\$0.00	\$74.84
For apprentice rates see "Apprentice- PILE DRIVER"						
PILE DRIVER	08/01/2018	\$41.57	\$9.90	\$21.15	\$0.00	\$72.62
<i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2019	\$43.79	\$9.90	\$21.15	\$0.00	\$74.84

Apprentice - PILE DRIVER - Local 56 Zone 3

Effective Date - 08/01/2018

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\$54.34/2\$58.99/3\$63.65/4\$65.98/5\$68.31/6\$68.31/7\$72.96/8\$72.96

Apprentice to Journeyworker Ratio:1:5

PIPELAYER	06/03/2019	\$32.06	\$7.85	\$13.91	\$0.00	\$53.82
<i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	12/02/2019	\$32.87	\$7.85	\$13.91	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						
PIPELAYER (HEAVY & HIGHWAY)	06/01/2019	\$32.04	\$7.85	\$11.89	\$0.00	\$51.78
<i>LABORERS - ZONE 3 (HEAVY & HIGHWAY)</i>	12/01/2019	\$32.83	\$7.85	\$11.89	\$0.00	\$52.57
	06/01/2020	\$33.64	\$7.85	\$11.89	\$0.00	\$53.38
	12/01/2020	\$34.45	\$7.85	\$11.89	\$0.00	\$54.19
	06/01/2021	\$35.29	\$7.85	\$11.89	\$0.00	\$55.03
	12/01/2021	\$36.12	\$7.85	\$11.89	\$0.00	\$55.86
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
PLUMBER & PIPEFITTER	03/17/2019	\$40.21	\$8.75	\$16.35	\$0.00	\$65.31
<i>PLUMBERS & PIPEFITTERS LOCAL 104</i>						

Apprentice - PLUMBER/PIPEFITTER - Local 104

Effective Date - 03/17/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$18.09	\$8.75	\$9.60	\$0.00	\$36.44
2	50	\$20.11	\$8.75	\$9.60	\$0.00	\$38.46
3	55	\$22.12	\$8.75	\$9.60	\$0.00	\$40.47
4	60	\$24.13	\$8.75	\$9.60	\$0.00	\$42.48
5	65	\$26.14	\$8.75	\$9.60	\$0.00	\$44.49
6	70	\$28.15	\$8.75	\$9.60	\$0.00	\$46.50
7	75	\$30.16	\$8.75	\$9.60	\$0.00	\$48.51
8	80	\$32.17	\$8.75	\$9.60	\$0.00	\$50.52
9	80	\$32.17	\$8.75	\$16.35	\$0.00	\$57.27
10	80	\$32.17	\$8.75	\$16.35	\$0.00	\$57.27

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

Apprentice to Journeyworker Ratio:**

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PNEUMATIC CONTROLS (TEMP.) <i>PLUMBERS & PIPEFITTERS LOCAL 104</i>	03/17/2019	\$40.21	\$8.75	\$16.35	\$0.00	\$65.31
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY & HIGHWAY)</i>	06/01/2019	\$32.04	\$7.85	\$11.89	\$0.00	\$51.78
	12/01/2019	\$32.83	\$7.85	\$11.89	\$0.00	\$52.57
	06/01/2020	\$33.64	\$7.85	\$11.89	\$0.00	\$53.38
	12/01/2020	\$34.45	\$7.85	\$11.89	\$0.00	\$54.19
	06/01/2021	\$35.29	\$7.85	\$11.89	\$0.00	\$55.03
	12/01/2021	\$36.12	\$7.85	\$11.89	\$0.00	\$55.86
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
POWDERMAN & BLASTER <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	06/03/2019	\$32.81	\$7.85	\$13.91	\$0.00	\$54.57
	12/02/2019	\$33.62	\$7.85	\$13.91	\$0.00	\$55.38
For apprentice rates see "Apprentice- LABORER"						
POWDERMAN & BLASTER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY & HIGHWAY)</i>	06/01/2019	\$32.79	\$7.85	\$11.89	\$0.00	\$52.53
	12/01/2019	\$33.58	\$7.85	\$11.89	\$0.00	\$53.32
	06/01/2020	\$34.39	\$7.85	\$11.89	\$0.00	\$54.13
	12/01/2020	\$35.20	\$7.85	\$11.89	\$0.00	\$54.94
	06/01/2021	\$36.04	\$7.85	\$11.89	\$0.00	\$55.78
	12/01/2021	\$36.87	\$7.85	\$11.89	\$0.00	\$56.61
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
PUMP OPERATOR (CONCRETE) <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/2019	\$35.05	\$11.69	\$14.08	\$0.00	\$60.82
	12/01/2019	\$35.65	\$11.69	\$14.35	\$0.00	\$61.69
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (DEWATERING, OTHER) <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/2019	\$34.52	\$11.69	\$14.08	\$0.00	\$60.29
	12/01/2019	\$35.12	\$11.69	\$14.35	\$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
RIDE-ON MOTORIZED BUGGY OPERATOR <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	06/03/2019	\$32.06	\$7.85	\$13.91	\$0.00	\$53.82
	12/02/2019	\$32.87	\$7.85	\$13.91	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						
ROLLER OPERATOR <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/2019	\$33.91	\$11.69	\$14.08	\$0.00	\$59.68
	12/01/2019	\$34.51	\$11.69	\$14.35	\$0.00	\$60.55
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
ROOFER (Coal tar pitch) <i>ROOFERS LOCAL 248</i>	07/16/2018	\$32.31	\$10.00	\$15.10	\$0.00	\$57.41
	07/16/2019	\$32.66	\$10.05	\$16.20	\$0.00	\$58.91
For apprentice rates see "Apprentice- ROOFER"						
ROOFER (Inc.Roofing Waterproofing &Roofing Damproofg) <i>ROOFERS LOCAL 248</i>	07/16/2018	\$31.81	\$10.00	\$14.60	\$0.00	\$56.41
	07/16/2019	\$32.16	\$10.05	\$15.70	\$0.00	\$57.91

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - ROOFER - Local 248

Effective Date - 07/16/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$19.09	\$10.05	\$0.00	\$0.00	\$29.14
2	65	\$20.68	\$10.05	\$15.70	\$0.00	\$46.43
3	70	\$22.27	\$10.05	\$15.70	\$0.00	\$48.02
4	75	\$23.86	\$10.05	\$15.70	\$0.00	\$49.61
5	80	\$25.45	\$10.05	\$15.70	\$0.00	\$51.20
6	85	\$27.04	\$10.05	\$15.70	\$0.00	\$52.79
7	90	\$28.63	\$10.05	\$15.70	\$0.00	\$54.38
8	95	\$30.22	\$10.05	\$15.70	\$0.00	\$55.97

Notes:

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

Apprentice to Journeyworker Ratio:1:3

ROOFER SLATE / TILE / PRECAST CONCRETE <i>ROOFERS LOCAL 248</i>	07/16/2018	\$32.31	\$10.00	\$15.10	\$0.00	\$57.41
	07/16/2019	\$32.66	\$10.05	\$16.20	\$0.00	\$58.91
For apprentice rates see "Apprentice- ROOFER"						
SCRAPER <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/2019	\$34.52	\$11.69	\$14.08	\$0.00	\$60.29
	12/01/2019	\$35.12	\$11.69	\$14.35	\$0.00	\$61.16
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
SELF-POWERED ROLLERS AND COMPACTORS (TAMPERS) <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/2019	\$33.91	\$11.69	\$14.08	\$0.00	\$59.68
	12/01/2019	\$34.51	\$11.69	\$14.35	\$0.00	\$60.55
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
SELF-PROPELLED POWER BROOM <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/2019	\$31.29	\$11.69	\$14.08	\$0.00	\$57.06
	12/01/2019	\$31.89	\$11.69	\$14.35	\$0.00	\$57.93
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
SHEETMETAL WORKER <i>SHEETMETAL WORKERS LOCAL 63</i>	07/01/2019	\$35.74	\$10.64	\$16.22	\$1.77	\$64.37
	01/01/2020	\$36.99	\$10.64	\$16.22	\$1.77	\$65.62

Apprentice - SHEET METAL WORKER - Local 63

Effective Date - 07/01/2019

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

Effective Date - 01/01/2020

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

Notes:

Apprentice to Journeyworker Ratio:1:3

SPECIALIZED EARTH MOVING EQUIP < 35 TONS	06/01/2019	\$34.54	\$11.91	\$12.70	\$0.00	\$59.15
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	08/01/2019	\$34.54	\$12.41	\$12.70	\$0.00	\$59.65
	12/01/2019	\$34.54	\$12.41	\$13.72	\$0.00	\$60.67
	06/01/2020	\$35.44	\$12.41	\$13.72	\$0.00	\$61.57
	08/01/2020	\$35.44	\$12.91	\$13.72	\$0.00	\$62.07
	12/01/2020	\$35.44	\$12.91	\$14.82	\$0.00	\$63.17
	06/01/2021	\$36.24	\$12.91	\$14.82	\$0.00	\$63.97
	08/01/2021	\$36.24	\$13.41	\$14.82	\$0.00	\$64.47
	12/01/2021	\$36.24	\$13.41	\$16.01	\$0.00	\$65.66

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
SPECIALIZED EARTH MOVING EQUIP > 35 TONS <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	06/01/2019	\$34.83	\$11.91	\$12.70	\$0.00	\$59.44
	08/01/2019	\$34.83	\$12.41	\$12.70	\$0.00	\$59.94
	12/01/2019	\$34.83	\$12.41	\$13.72	\$0.00	\$60.96
	06/01/2020	\$35.73	\$12.41	\$13.72	\$0.00	\$61.86
	08/01/2020	\$35.73	\$12.91	\$13.72	\$0.00	\$62.36
	12/01/2020	\$35.73	\$12.91	\$14.82	\$0.00	\$63.46
	06/01/2021	\$36.53	\$12.91	\$14.82	\$0.00	\$64.26
	08/01/2021	\$36.53	\$13.41	\$14.82	\$0.00	\$64.76
	12/01/2021	\$36.53	\$13.41	\$16.01	\$0.00	\$65.95
SPRINKLER FITTER <i>SPRINKLER FITTERS LOCAL 669</i>	01/01/2019	\$41.51	\$10.02	\$13.08	\$0.00	\$64.61

Apprentice - SPRINKLER FITTER - Local 669

Effective Date - 01/01/2019

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

Notes:

Apprentice to Journeyworker Ratio:1:1

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

Apprentice - TELECOMMUNICATION TECHNICIAN - Local 7

Effective Date - 06/30/2019

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

Notes:

Steps are 800 hours

Apprentice to Journeyworker Ratio:1:1

TERRAZZO FINISHERS	02/01/2019	\$52.49	\$10.75	\$20.66	\$0.00	\$83.90
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	08/01/2019	\$53.84	\$10.75	\$20.80	\$0.00	\$85.39
	02/01/2020	\$54.48	\$10.75	\$20.80	\$0.00	\$86.03
	08/01/2020	\$55.83	\$10.75	\$20.95	\$0.00	\$87.53
	02/01/2021	\$56.47	\$10.75	\$20.95	\$0.00	\$88.17
	08/01/2021	\$57.87	\$10.75	\$21.11	\$0.00	\$89.73
	02/01/2022	\$58.46	\$10.75	\$21.11	\$0.00	\$90.32

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

Effective Date - 02/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.25	\$10.75	\$20.66	\$0.00	\$57.66
2	60	\$31.49	\$10.75	\$20.66	\$0.00	\$62.90
3	70	\$36.74	\$10.75	\$20.66	\$0.00	\$68.15
4	80	\$41.99	\$10.75	\$20.66	\$0.00	\$73.40
5	90	\$47.24	\$10.75	\$20.66	\$0.00	\$78.65

Effective Date - 08/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.92	\$10.75	\$20.80	\$0.00	\$58.47
2	60	\$32.30	\$10.75	\$20.80	\$0.00	\$63.85
3	70	\$37.69	\$10.75	\$20.80	\$0.00	\$69.24
4	80	\$43.07	\$10.75	\$20.80	\$0.00	\$74.62
5	90	\$48.46	\$10.75	\$20.80	\$0.00	\$80.01

Notes:

Apprentice to Journeyworker Ratio:1:5

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TERRAZZO MECHANIC <i>BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE</i>	02/01/2019	\$53.57	\$10.75	\$20.66	\$0.00	\$84.98
	08/01/2019	\$54.92	\$10.75	\$20.80	\$0.00	\$86.47
	02/01/2020	\$55.55	\$10.75	\$20.80	\$0.00	\$87.10
	08/01/2020	\$56.90	\$10.75	\$20.95	\$0.00	\$88.60
	02/01/2021	\$57.54	\$10.75	\$20.95	\$0.00	\$89.24
	08/01/2021	\$58.94	\$10.75	\$21.11	\$0.00	\$90.80
	02/01/2022	\$59.51	\$10.75	\$21.11	\$0.00	\$91.37

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

Effective Date - 02/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.79	\$10.75	\$20.66	\$0.00	\$58.20
2	60	\$32.14	\$10.75	\$20.66	\$0.00	\$63.55
3	70	\$37.50	\$10.75	\$20.66	\$0.00	\$68.91
4	80	\$42.86	\$10.75	\$20.66	\$0.00	\$74.27
5	90	\$48.21	\$10.75	\$20.66	\$0.00	\$79.62

Effective Date - 08/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$27.46	\$10.75	\$20.80	\$0.00	\$59.01
2	60	\$32.95	\$10.75	\$20.80	\$0.00	\$64.50
3	70	\$38.44	\$10.75	\$20.80	\$0.00	\$69.99
4	80	\$43.94	\$10.75	\$20.80	\$0.00	\$75.49
5	90	\$49.43	\$10.75	\$20.80	\$0.00	\$80.98

Notes:

Apprentice to Journeyworker Ratio:1:5

TEST BORING DRILLER <i>LABORERS - FOUNDATION AND MARINE</i>	06/01/2019	\$41.00	\$7.85	\$15.55	\$0.00	\$64.40
	12/01/2019	\$42.00	\$7.85	\$15.55	\$0.00	\$65.40
	06/01/2020	\$42.99	\$7.85	\$15.55	\$0.00	\$66.39
	12/01/2020	\$43.97	\$7.85	\$15.55	\$0.00	\$67.37
	06/01/2021	\$44.99	\$7.85	\$15.55	\$0.00	\$68.39
	12/01/2021	\$46.00	\$7.85	\$15.55	\$0.00	\$69.40

For apprentice rates see "Apprentice- LABORER"

TEST BORING DRILLER HELPER <i>LABORERS - FOUNDATION AND MARINE</i>	06/01/2019	\$39.72	\$7.85	\$15.55	\$0.00	\$63.12
	12/01/2019	\$40.72	\$7.85	\$15.55	\$0.00	\$64.12
	06/01/2020	\$41.71	\$7.85	\$15.55	\$0.00	\$65.11
	12/01/2020	\$42.69	\$7.85	\$15.55	\$0.00	\$66.09
	06/01/2021	\$43.71	\$7.85	\$15.55	\$0.00	\$67.11
	12/01/2021	\$44.72	\$7.85	\$15.55	\$0.00	\$68.12

For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TEST BORING LABORER <i>LABORERS - FOUNDATION AND MARINE</i>	06/01/2019	\$39.60	\$7.85	\$15.55	\$0.00	\$63.00
	12/01/2019	\$40.60	\$7.85	\$15.55	\$0.00	\$64.00
	06/01/2020	\$41.59	\$7.85	\$15.55	\$0.00	\$64.99
	12/01/2020	\$42.57	\$7.85	\$15.55	\$0.00	\$65.97
	06/01/2021	\$43.59	\$7.85	\$15.55	\$0.00	\$66.99
	12/01/2021	\$44.60	\$7.85	\$15.55	\$0.00	\$68.00
For apprentice rates see "Apprentice- LABORER"						
TRACTORS <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/2019	\$33.91	\$11.69	\$14.08	\$0.00	\$59.68
	12/01/2019	\$34.51	\$11.69	\$14.35	\$0.00	\$60.55
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
TRAILERS FOR EARTH MOVING EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	06/01/2019	\$35.12	\$11.91	\$12.70	\$0.00	\$59.73
	08/01/2019	\$35.12	\$12.41	\$12.70	\$0.00	\$60.23
	12/01/2019	\$35.12	\$12.41	\$13.72	\$0.00	\$61.25
	06/01/2020	\$36.02	\$12.41	\$13.72	\$0.00	\$62.15
	08/01/2020	\$36.02	\$12.91	\$13.72	\$0.00	\$62.65
	12/01/2020	\$36.02	\$12.91	\$14.82	\$0.00	\$63.75
	06/01/2021	\$36.82	\$12.91	\$14.82	\$0.00	\$64.55
	08/01/2021	\$36.82	\$13.41	\$14.82	\$0.00	\$65.05
	12/01/2021	\$36.82	\$13.41	\$16.01	\$0.00	\$66.24
TUNNEL WORK - COMPRESSED AIR <i>LABORERS (COMPRESSED AIR)</i>	06/01/2019	\$51.88	\$7.85	\$15.95	\$0.00	\$75.68
	12/01/2019	\$52.88	\$7.85	\$15.95	\$0.00	\$76.68
	06/01/2020	\$53.87	\$7.85	\$15.95	\$0.00	\$77.67
	12/01/2020	\$54.85	\$7.85	\$15.95	\$0.00	\$78.65
	06/01/2021	\$55.87	\$7.85	\$15.95	\$0.00	\$79.67
	12/01/2021	\$56.88	\$7.85	\$15.95	\$0.00	\$80.68
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE) <i>LABORERS (COMPRESSED AIR)</i>	06/01/2019	\$53.88	\$7.85	\$15.95	\$0.00	\$77.68
	12/01/2019	\$54.88	\$7.85	\$15.95	\$0.00	\$78.68
	06/01/2020	\$55.87	\$7.85	\$15.95	\$0.00	\$79.67
	12/01/2020	\$56.85	\$7.85	\$15.95	\$0.00	\$80.65
	06/01/2021	\$57.87	\$7.85	\$15.95	\$0.00	\$81.67
	12/01/2021	\$58.88	\$7.85	\$15.95	\$0.00	\$82.68
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - FREE AIR <i>LABORERS (FREE AIR TUNNEL)</i>	06/01/2019	\$43.95	\$7.85	\$15.95	\$0.00	\$67.75
	12/01/2019	\$44.95	\$7.85	\$15.95	\$0.00	\$68.75
	06/01/2020	\$45.94	\$7.85	\$15.95	\$0.00	\$69.74
	12/01/2020	\$46.92	\$7.85	\$15.95	\$0.00	\$70.72
	06/01/2021	\$47.94	\$7.85	\$15.95	\$0.00	\$71.74
	12/01/2021	\$48.95	\$7.85	\$15.95	\$0.00	\$72.75
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - FREE AIR (HAZ. WASTE) <i>LABORERS (FREE AIR TUNNEL)</i>	06/01/2019	\$45.95	\$7.85	\$15.95	\$0.00	\$69.75
	12/01/2019	\$46.95	\$7.85	\$15.95	\$0.00	\$70.75
	06/01/2020	\$47.94	\$7.85	\$15.95	\$0.00	\$71.74
	12/01/2020	\$48.92	\$7.85	\$15.95	\$0.00	\$72.72
	06/01/2021	\$49.94	\$7.85	\$15.95	\$0.00	\$73.74
	12/01/2021	\$50.95	\$7.85	\$15.95	\$0.00	\$74.75
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
VAC-HAUL <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	06/01/2019	\$34.54	\$11.91	\$12.70	\$0.00	\$59.15
	08/01/2019	\$34.54	\$12.41	\$12.70	\$0.00	\$59.65
	12/01/2019	\$34.54	\$12.41	\$13.72	\$0.00	\$60.67
	06/01/2020	\$35.44	\$12.41	\$13.72	\$0.00	\$61.57
	08/01/2020	\$35.44	\$12.91	\$13.72	\$0.00	\$62.07
	12/01/2020	\$35.44	\$12.91	\$14.82	\$0.00	\$63.17
	06/01/2021	\$36.24	\$12.91	\$14.82	\$0.00	\$63.97
	08/01/2021	\$36.24	\$13.41	\$14.82	\$0.00	\$64.47
	12/01/2021	\$36.24	\$13.41	\$16.01	\$0.00	\$65.66
WAGON DRILL OPERATOR <i>LABORERS - ZONE 3 (BUILDING & SITE)</i>	06/03/2019	\$32.06	\$7.85	\$13.91	\$0.00	\$53.82
	12/02/2019	\$32.87	\$7.85	\$13.91	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						
WAGON DRILL OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY & HIGHWAY)</i>	06/01/2019	\$32.04	\$7.85	\$11.89	\$0.00	\$51.78
	12/01/2019	\$32.83	\$7.85	\$11.89	\$0.00	\$52.57
	06/01/2020	\$33.64	\$7.85	\$11.89	\$0.00	\$53.38
	12/01/2020	\$34.45	\$7.85	\$11.89	\$0.00	\$54.19
	06/01/2021	\$35.29	\$7.85	\$11.89	\$0.00	\$55.03
	12/01/2021	\$36.12	\$7.85	\$11.89	\$0.00	\$55.86
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
WATER METER INSTALLER <i>PLUMBERS & PIPEFITTERS LOCAL 104</i>	03/17/2019	\$40.21	\$8.75	\$16.35	\$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>	09/02/2018	\$42.26	\$8.00	\$12.50	\$0.00	\$62.76
	09/01/2019	\$44.67	\$8.00	\$12.55	\$0.00	\$65.22
For apprentice rates see "Apprentice- LINEMAN"						
GROUNDMAN <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	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>	09/02/2018	\$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>	09/02/2018	\$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>	09/02/2018	\$49.30	\$8.00	\$15.48	\$0.00	\$72.78
	09/01/2019	\$51.71	\$8.00	\$15.55	\$0.00	\$75.26

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - LINEMAN (Outside Electrical) - West Local 42

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

Effective Date - 09/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$31.03	\$8.00	\$3.43	\$0.00	\$42.46
2	65	\$33.61	\$8.00	\$3.51	\$0.00	\$45.12
3	70	\$36.20	\$8.00	\$3.59	\$0.00	\$47.79
4	75	\$38.78	\$8.00	\$5.16	\$0.00	\$51.94
5	80	\$41.37	\$8.00	\$5.24	\$0.00	\$54.61
6	85	\$43.95	\$8.00	\$5.32	\$0.00	\$57.27
7	90	\$46.54	\$8.00	\$7.40	\$0.00	\$61.94

Notes:

Apprentice to Journeyworker Ratio:1:2

TELEDATA CABLE SPLICER <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	02/04/2019	\$30.73	\$4.70	\$3.17	\$0.00	\$38.60
TELEDATA LINEMAN/EQUIPMENT OPERATOR <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	02/04/2019	\$28.93	\$4.70	\$3.14	\$0.00	\$36.77
TELEDATA WIREMAN/INSTALLER/TECHNICIAN <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	02/04/2019	\$28.93	\$4.70	\$3.14	\$0.00	\$36.77
TRACTOR-TRAILER DRIVER <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	09/02/2018	\$42.26	\$8.00	\$12.50	\$0.00	\$62.76
TREE TRIMMER <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	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
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 not on the ground. This classification does not apply to wholesale tree removal.

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.

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.

SUBSECTION C-2
WEEKLY PAYROLL RECORDS & STATEMENT OF COMPLIANCE

WEEKLY PAYROLL RECORDS REPORT
& STATEMENT OF COMPLIANCE

In accordance with Massachusetts General Law c149, Section 27B, a true and accurate record must be kept of all persons employed on the public works project for which the enclosed rates have been provided. A Payroll Form has been printed on the next page and includes all the information required to be kept by law. Every contractor or subcontractor is required to keep these records and preserve them for a period of three years from the date of completion of the contract.

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

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

<p style="margin: 0;">STATEMENT OF COMPLIANCE</p> <p style="text-align: right; margin: 0;">_____, 20____</p>	
I, _____ <small>(Name of signatory party)</small>	_____ <small>(Title)</small>
do hereby state: That I pay or supervise the payment of the persons employed by	
_____ on the _____ <small>(Contractor, subcontractor or public body)</small>	_____ <small>(Building or project)</small>
and that all mechanics and apprentices, teamsters, chauffeurs and laborers employed on said project have been paid in accordance with wages determined under the provisions of sections twenty-six and twenty-seven of chapter one hundred and forty nine of the General Laws.	
Signature _____	
Title _____	

DEPARTMENT OF LABOR & INDUSTRIES, 100 CAMBRIDGE STREET, 11TH FL., BOSTON, MA 02202

WEEKLY PAY ROLL REPORT FORM

Company Name: _____
 Project Name: _____
 Awarding Auth.: _____
 Work Week Ending: _____

Prime Contractor
 Subcontractor
 List Prime Contractor: _____
 Employer Signature: _____
 Print Name & Title: _____

Final Report

Employee Name & Address	Work Classification	Hours Worked							(A) Tot. Hrs.	(B) Hourly Base Wage	Employer Contributions			(F) [B+C+D+E] Hourly Total Wage (prev. wage)	(G) [A*F] Weekly Total Amount
		S	M	T	W	T	F	S			(C) Health & Welfare	(D) Pension	(E) Supp. Unemp.		

NOTE: Every contractor and subcontractor is required to submit a copy of their weekly payroll records to the awarding authority.

SECTION D
BOND DESCRIPTIONS

SUBSECTION D-1
BID BOND DESCRIPTION

**TOWN OF LONGMEADOW
DEPARTMENT OF PUBLIC WORKS**

BID BOND DESCRIPTION

This Bid Bond (Proposal Guaranty) shall conform to the conditions and stipulations described in Articles 7 and 16 of the General Conditions of the Specifications plus the following: it shall be in the amount of five percent (5%) of the bidder's proposed bid amount, shall accompany the bidder's proposal, and shall be in a form satisfactory to the Town of Longmeadow. This bond shall be furnished by a surety company incorporated pursuant to Chapter 175, Section 105 of the General Laws of Massachusetts or authorized to do business in the Commonwealth of Massachusetts under Chapter 175, Section 106 of said General Laws, and which is satisfactory to the Town of Longmeadow. Otherwise, this bond may be provided in the form of United States currency; or a certified, treasurer's or cashier's check made payable to the Town of Longmeadow and drawn on a responsible and reputable bank or trust company which is satisfactory to the Town of Longmeadow.

The Bid Bond (Proposal Guaranty) shall be sealed with the bid submission and recorded at the opening, where it shall be recorded and the bidder given a receipt for such. *Any bidder who fails to provide the Guaranty as described above shall not be eligible for the contract award.*

SUBSECTION D-2
PAYMENT BOND DESCRIPTION

**TOWN OF LONGMEADOW
DEPARTMENT OF PUBLIC WORKS**

PAYMENT BOND DESCRIPTION

This Payment Bond shall conform to the conditions and stipulations described in Article 17 of the General Conditions of the Specifications plus the following: it shall be in the amount of fifty percent (50%) of the proposed bid amount and shall be in a form satisfactory to the Town of Longmeadow. This bond shall be furnished by a surety company incorporated pursuant to Chapter 175, Section 105 of the General Laws of Massachusetts or authorized to do business in the Commonwealth of Massachusetts under Chapter 175, Section 106 of said General Laws, and which is satisfactory to the Town of Longmeadow. Otherwise, this bond may be provided in the form of United States currency; or a certified, treasurer's or cashier's check made payable to the Town of Longmeadow and drawn on a responsible and reputable bank or trust company which is satisfactory to the Town of Longmeadow.

SECTION E
BID SUBMISSION FORMS AND CONTRACT FORMS

SUBSECTION E-1
BID SUBMISSION FORMS

BID SUBMISSION FORMS
ROAD RESURFACING, FY20
TOWN OF LONGMEADOW, MASSACHUSETTS

The undersigned, as Bidder, declares that the only person or parties, as principals, interested in this Proposal, are named below; that he/she has carefully examined the location of the proposed work, has taken into consideration all of the difficulties likely to be met within the doing of the work, that he/she also has carefully examined the annexed form of the contract and the plans therein referred to; and he/she proposes that he/she will Contract with the Town of Longmeadow, Massachusetts, in the form of the Contract annexed, to provide all the labor, machinery, tools, apparatus, and other means of construction and to do all of the work and furnish all the materials specified in the Contract in the manner and time therein prescribed and in accordance with the requirements of the Engineer as herein set forth, and that he/she will take in full payment therefore the following sums to wit: (The item numbers listed on the attached Bid Proposal Worksheet refer to items from the Commonwealth of Massachusetts, MassHighway, Standard Specifications for Highways and Bridges)

Time for Completion:

If this Proposal shall be accepted by the Town of Longmeadow, Massachusetts, the undersigned bidder agrees to meet the requirements regarding the beginning of the work and he/she further agrees that all work must be completed by **October 25, 2019**, the Substantial Completion Date.

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

DATE _____

SIGNATURE OF BIDDER: _____

NAME OF BIDDER (print): _____

BUSINESS ADDRESS: _____

PHONE: _____

FAX: _____

EMAIL: _____

BID SUBMISSION FORMS
ROADWAY RESURFACING, FY20
TOWN OF LONGMEADOW, MASSACHUSETTS

FEDERAL ID/OR SOCIAL SECURITY: _____

In compliance with Article 5, Paragraph C of the General Conditions of the Specifications, the bidder, if this bid is submitted by firm, partnership, or corporation, shall list required information below:

—

—

—

—

Name: _____

Address of Home Office: _____

—

—

BID SUBMISSION FORMS
ROAD RESURFACING FY20
TOWN OF LONGMEADOW, MASSACHUSETTS

ITEM NO.	EST. QUANT.	ITEM DESCRIPTION	UNIT PRICE (WRITTEN IN FIGURES & WORDS)	TOTAL AMOUNT (‘EST. QUNTY’ x ‘UNIT PRICE’= TOTAL AMOUNT)
120.1	10 C.Y.	Unclassified Excavation	\$ _____ PER C.Y. _____ WORDS PER C.Y.	\$ _____
129	32,550 S.Y.	Pavement Milling	\$ _____ PER S.Y. _____ WORDS PER S.Y.	\$ _____
151	20 C.Y.	Gravel Borrow	\$ _____ PER C.Y. _____ WORDS PER C.Y.	\$ _____
201	14 EACH	Storm Drain Catch Basin	\$ _____ PER EACH _____ WORDS PER EACH	\$ _____
220	9 EACH	Drainage Structure Adjusted	\$ _____ PER EACH _____ WORDS PER EACH	\$ _____
220.2	6 FT.	Drainage/Sanitary Structure Rebuilt	\$ _____ PER FT. _____ WORDS PER FT.	\$ _____
220.3	12 EACH	Drainage Structure Change in Type	\$ _____ PER EACH _____ WORDS PER EA	\$ _____
220.7	25 EACH	Sanitary Structure Adjusted	\$ _____ PER EACH _____ WORDS PER EACH	\$ _____

222	14 EACH	Frame & Grate Municipal Standard	\$_____ PER EACH <hr/> WORDS PER EACH	\$ _____
222.1	27 EACH	Frame & Grate Precast Concrete (Curb Inlet)	\$_____ PER EACH <hr/> WORDS PER EACH	\$ _____
222.2	10 EACH	Frame & Grate Precast Concrete (Flat No Curb Inlet)	\$_____ PER EACH <hr/> WORDS PER EACH	\$ _____
346.05	350 FT.	Irrigation Conduit Repair	\$_____ PER FT. <hr/> WORDS PER FT.	\$ _____
346.06	50 EACH	Irrigation Head Replacement	\$_____ PER EACH <hr/> WORDS PER EACH	\$ _____
358	27 EACH	Gate Box Adjusted	\$_____ PER EACH <hr/> WORDS PER EACH	\$ _____
358.1	6 EACH	Replace Water Gate Box Top	\$_____ PER EACH <hr/> WORDS PER EACH	\$ _____
358.2	2 EACH	Replace Water Gate Box Top & Bottom	\$_____ PER EACH <hr/> WORDS PER EACH	\$ _____
455.22	3080 Ton	Superpave Surface Course – 9.5 (SSC – 9.5)	\$_____ PER TON <hr/> WORDS PER TON	\$ _____

455.31	1160 Ton	Superpave Intermediate Course – 12.5 (SIC – 12.5)	\$ _____ PER TON <hr/> WORDS PER TON	\$ _____
450.90	4240 Ton	Contractor Quality Control	\$ _____ PER TON <hr/> WORDS PER TON	\$ _____
451	15 Ton	HMA For Patching	\$ _____ PER TON <hr/> WORDS PER TON	\$ _____
452	590 Gallons	Asphalt Emulsion for Tack Coat	\$ _____ PER GALLON <hr/> WORDS PER GALLON	\$ _____
460.1	25 TON	Hot Mix Asphalt Shim	\$ _____ PER TON <hr/> WORDS PER TON	\$ _____
482.3	340 FT.	Sawcutting Asphalt Pavement / Concrete	\$ _____ PER FT. <hr/> WORDS PER FT.	\$ _____
570.2	7,300 FT.	Hot Mix Asphalt Berm Remove and Replace – Type 2	\$ _____ PER FT. <hr/> WORDS PER FT.	\$ _____
580	335 FT.	Granite Curb Removed and Reset	\$ _____ PER FT. <hr/> WORDS PER FT.	\$ _____
701.2	220 S.Y.	6" Cement Concrete Wheelchair Ramp	\$ _____ PER S.Y. <hr/> WORDS PER S.Y.	\$ _____

701.3	5 S.Y.	Cement Concrete Removed & Discarded (Not to be Replaced)	\$_____ PER S.Y. <hr/> WORDS PER S.Y.	\$ _____
703	105 TON	Hot Mix Asphalt Driveway	\$_____ PER TON <hr/> WORDS PER TON	\$ _____
706.1	25 S.Y.	Reset Cobblestone / Brick / Concrete Paver Driveways & Walks	\$_____ PER S.Y. <hr/> WORDS PER S.Y.	\$ _____
715	10 Each	Rural Mail Box Removed and Reset	\$_____ PER EACH <hr/> WORDS PER EACH	\$ _____
748	1 L.S.	Mobilization	\$_____ PER L.S. <hr/> WORDS PER L.S.	\$ _____
751	315 C.Y.	Loam Borrow	\$_____ PER C.Y. <hr/> WORDS PER C.Y.	\$ _____
765	2,900 S.Y.	Seeding	\$_____ PER S.Y. <hr/> WORDS PER S.Y.	\$ _____
832	14 EACH	Traffic Sign / Signs (Including Post)	\$_____ PER EACH <hr/> WORDS PER EACH	\$ _____
832.1	1 EACH	Traffic Sign Removed & Reset	\$_____ PER EACH <hr/> WORDS PER EACH	\$ _____

866.104	6,350 FT.	4 Inch Reflectorized White Line (Thermoplastic)	\$_____ PER FT. <hr/> WORDS PER FT.	\$ _____
866.112	95 FT.	12-Inch Reflectorized White Line (Thermoplastic)	\$_____ PER FT. <hr/> WORDS PER FT.	\$ _____
866.124	1250 FT.	24-Inch Reflectorized White Line (Thermoplastic)	\$_____ PER FT. <hr/> WORDS PER FT.	\$ _____
867.104	6,150 FT.	4 Inch Reflectorized Yellow Line (Thermoplastic)	\$_____ PER FT. <hr/> WORDS PER FT.	\$ _____

BID TOTAL: (\$) _____

THIS BID INCLUDES Addenda numbered : _____, _____, _____, _____, _____

BID SUBMISSION FORMS
ROAD RESURFACING, FY20
TOWN OF LONGMEADOW, MASSACHUSETTS

CERTIFICATE OF NON-COLLUSION

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

Name of Person Signing Bid or Proposal

Name of Business

Date

SUBSECTION E-2
CONTRACT DOCUMENTS

AGREEMENT TERMS AND CONDITIONS

This Agreement, made this XX day of XX in the year two thousand and nineteen (the Effective Date) between the Town of Longmeadow, acting by and through its Town Manager and/or Select Board, hereinafter, hereinafter called OWNER and VENDOR with an address of TBD 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, 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 by the following Substantial Completion dates. The Substantial Completion date is October 25, 2019.

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 above, plus any extensions thereof allowed in accordance with Article 12 of the General Conditions. 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 \$500 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 \$ TBD, 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.

- 1.7 The Monthly Price Adjustment for Hot Mix Asphalt (HMA) Mixtures applies to all projects using greater than 100 tons of hot mix asphalt (HMA) mixtures containing liquid asphalt cement.

PROGRESS PAYMENTS

- 1.8 Applications for Payment shall be processed in accordance with Article 14 of the General Conditions and in accordance with Massachusetts General Law.
- 1.9 OWNER shall make progress payments on account of the Contract Price on the basis of processed Applications for Payment monthly during construction.
- 1.10 OWNER shall retain from progress payments 5 percent of the value of Work completed.

AFFIRMATIVE ACTION

- 1.11 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.
- 1.12 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

- 1.13 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

1.14 Contents

- E. The Contract Documents consist of the following:
 - 1. This Agreement (Section E, inclusive);
 - 2. 50% Payment Bond in the amount of \$_____;
 - 3. General Conditions;
 - 4. Special Provisions;
 - 5. Drawings titled: Town of Longmeadow- Road Resurfacing, FY18;
 - 6. Addendum No...._____;
 - 7. Exhibits to this Agreement (enumerated as follows):
 - a. CONTRACTOR's Bid (Section E, inclusive);
 - b. Documentation submitted by CONTRACTOR prior to Notice of Award;
 - 8. 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

1.15 Terms

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

1.16 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.

1.17 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.

1.18 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.

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.

SECTION F
PLANS & MAPS

TOWN OF LONGMEADOW, MASSACHUSETTS
Plan of
FISCAL YEAR 2020 RESURFACING PROJECT

Complete Set 9 Sheets