



INVITATION FOR BIDS

TOWN OF CHILMARK

PROJECT: 2019-01

Chilmark Community Center
Cold Climate Heat Pumps/HVAC

BID DUE DATE:
Wednesday May 22, 2019 at 4:00 PM

KEY DATES

May 3 rd :	Published in Vineyard Gazette & posted at Chilmark Town Hall
May 8 th :	Published in Central Register
May 8 th :	Bid packages available at Chilmark Town Hall.
May 17 th @ 11:00 am:	Pre-bid meeting, review at Chilmark Town Hall. Site walk to follow the meeting. Not Mandatory.
May 20 th @ 5:00 pm:	Deadline for receiving questions in writing at Selectmen's Office.
May 22 nd @ 3:00 pm:	Deadline for receiving sealed bids at Chilmark Town Hall. Bids will be publically opened and read aloud.
June 4 th @ 5:00 PM	Selectmen meet to Award job.
June 14 th	Contractor to Sign contract within 10 days of award.
June 14 th	Contractor shall supply the project schedule to Town
June 14 th	Contractor must provide Payment Bond of at least 50%
June 30 th	All work must be completed.

The Town of Chilmark is seeking sealed bids for the supply and installation of high efficiency Cold Climate Heat Pumps/HVAC, ERV, and all other necessary components in the Chilmark Community Center. The site is located at #522 South Road, in the Town of Chilmark on Martha's Vineyard Island.

MEETING

Attending a pre-bid meeting and site walk is strongly encouraged. This meeting will take place on Friday May 17th @ 11:00 am at the Chilmark Town Hall. All bidders are encouraged to visit the site before submitting a bid. Submission of a bid constitutes an acknowledgment that the bidder has examined the site and is familiar with all existing conditions and site challenges.

QUESTIONS: Deadline is May 20th at 5:00 PM to submit written questions to the Town Administrator, Chilmark Town Hall; 401 Middle Road; P.O. Box 119; Chilmark, MA. 02535. PH: 508-645-2101; FAX: 508-645-2110 or email at tcarroll@chilmarkma.gov

SEALED BIDS DUE: Sealed-Bids will be accepted until May 22nd 2019 @ 3:00 PM at the Selectmen's Office; Chilmark Town Hall; 401 Middle Road; P.O. Box 119; Chilmark, MA. 02535-0119. Bids must be marked on their face with "**CCC Cold Climate Heat Pumps**". All bids will be opened at that time and read aloud. The bids must remain firm for sixty (60) days. **LATE BIDS WILL NOT BE ACCEPTED.**

RULE FOR AWARD

The contract will be awarded to the responsive and responsible bidder offering the lowest price for the services specified in this Invitation for Bids (IFB).

The Town has funding for this project from the Annual Town Meeting, a Grant, and a gift from the Chilmark Town Affairs Council. It is expected that the town will award a contract for the complete installation. However, should current funding is inadequate to meet this goal, the project will be phased.

Bidders will submit prices for the

1. Option A – HVAC in the main room / performance hall
2. Option B – HVAC in Option A + Stage area
3. Option C - HVAC in Option B + ERV
4. Option D – HVAC in Option C + bathrooms and office
5. ENTIRE PROJECT AS SPECIFIED

The Town will consider only responsive bids from responsible bidders for a contract award. A responsive bid is one which complies fully with all submission requirements stated in this IFB. Any bid which does not comply with all submission requirements may be rejected as non-responsive. A responsible bidder is one who demonstrably possesses the skill, ability, and integrity necessary to faithfully perform the work called for in this procurement and meets the requirements of Massachusetts law.

With their submission all bidders will:

1. Identify the proposed project manager and on-site supervisor, along with their qualifications to work on this project.
2. List the bidder's prior experience on projects similar to this.
3. State the financial ability of the firm to perform the work in this IFB.
4. Submit their bid on the attached Bid Pricing Sheet.

5. Bidders must submit a non-collusion form.
6. Bidders must submit a tax compliance certification.
7. Each bidder must submit, with its bid, a bid deposit equal to five percent of the amount of the bid. The bid deposit may be in the form of a certified, treasurer's, or cashier's check payable to the awarding authority from a responsible bank or trust company; cash; or a bid bond from a surety licensed by the Massachusetts Division of Insurance.

On M.G.L. c. 30, §39M projects, the town reviews the qualifications of the apparent low bidder after the bids are opened. The town may request any information from the bidder needed to determine if the bidder is responsible.

This is a Prevailing Wage project and the wage sheet is enclosed with this IFB.

The contractor must furnish a payment bond in the amount of at least 50 percent of the contract price. The contractor has 10 days from the date of notification of contract award to obtain the payment bond.

A bidder may correct, modify, or withdraw a sealed bid by written notice received in the office designated herein for bid submission prior to the time set for the opening of bids. After the opening, a bidder may not change any provision of the bid in a manner prejudicial to the interest of the Town, or to fair competition. The Town shall waive minor informalities or allow the bidder to correct them. If a mistake and the intended offer are clearly evident on the face of the document, the Town shall correct the mistake to reflect the intended correct offer and so notify the bidder in writing, and the bidder may not withdraw the offer. The Town may permit a bidder to withdraw an offer if a mistake is clearly evident on the face of the document but the intended correct offer is not similarly evident.

The Town shall award a contract by written notice to the selected bidder by no later than July 18th 2019. This deadline may be extended an additional 60 days with the mutual consent of the Town and the Bidder.

All bid prices submitted in response to this IFB must remain firm for sixty (60) days following the bid opening.

The award of a contract will be conditioned on the selected bidder signing the Town's contract and providing the 50% payment bond within ten (10) days from the date of notification of award.

TIME IS OF THE ESSENCE for this project to be completed for use before the Summer of 2019 season.

Notwithstanding any provision contained herein to the contrary, the Town reserves the right to cancel this procurement at any time before a contract is executed by the Town, in which event the Town will reject all bids received in response to this IFB. The Town reserves the right to reject any or all bids when it is in the public interest to do so.

REFERENCES: Bidders must submit a complete list of all current customers for which the bidder has installed utilities and previous customers for in the past three (3) years of projects of similar scope, with contact names, emails addresses, and telephone numbers. Bidders must have competed at least three (3) utility installations of similar scope for prior customers. A bid may be rejected on the basis of one or more references reporting poor past performance by the bidder, or for failing to list previous customers as required above.

PROJECT

This contract is to supply and install Cold Climate Heat Pumps / HVAC for the Community center for the comfort of users at concerts, movies, lectures, town meetings, and private functions (such as weddings). The Community Center is a public assembly space. This building is also the town's designated emergency shelter for the public. The building has both a photo voltaic array and a backup propane generator. The installed system shall work in harmony with these systems and the planned installation of a PV battery storage system.

The locations shown on plan M-2.0 for AC and CU must be confirmed with the Town prior to installation. The town would like to locate the ERV-1 and CU-8 in an alternate location to be suggested by the contractor. Using the existing ventilation space/ducts/vents above the Main Lobby is preferred; other options could include the roof of the unconditioned storage room or stage. The locations of CU-6, CU-5, & CU-7 shown on the plan are not desirable and other options are requested from the contractor.

Contractor will supply and install all necessary material to complete this project along with all connections to the utilities and control systems.

Contractor is responsible for restoring the site conditions for the summer season.

1. The Utilities must meet all local and EverSource specifications, AND as outlined in the referenced or attached documents.
 - a. Specifications for Chilmark Community Center HVAC Systems
 - b. Mechanical HVAC Equipment Location Plan M-2.0
 - c. Chilmark Community Center HVAC systems - M-1
 - d. Dimension-O-021566-4242019-4LD ERV
 - e. Photos of building.
 - f. Prevailing wage sheet.
 - g. Bid Pricing Sheet.
 - h. Legal Ad 00080295_00000471
 - i. Central Register Ad.
2. Successful bidder must obtain all required permits and inspections. Proof of all inspections will be delivered with the "as-built" plans at completion before final payment.
3. Contractor must supply As-Built plans and wiring diagrams (both in paper plans and electronic pdf format) at completion of project before final payment.
4. Contractor shall label all circuits, lines, panels and switches. Labeling scheme is to be comprehensive, scalable, future looking, and recorded in a printed ring-binder and supplied as an excel spreadsheet. It must be approved by the Town in advance of installation and implementation.
3. Time is of the essence. The loss of dockage fees to the town, the loss of dock use and no electrical power available to the commercial fishing fleet and boaters during their start up season would be costly. The project must be completed no later than April 15, 2019.

BID PRICING SHEET

(Submit to awarding authority)

Company NAME

Gentlemen:

We the undersigned propose to furnish the Town of Chilmark utility service and associated equipment installation and improvements (all labor and materials required for this project) per the attached specifications for the price stated below:

1. PRICE FOR OPTION A – HVAC in the main room / performance hall

Per Chilmark Specifications \$ _____

In Written Words _____

2. PRICE FOR OPTION B – HVAC in Option A + Stage area

Per Chilmark Specifications \$ _____

In Written Words _____

3. PRICE FOR OPTION C - HVAC in Option B + ERV

Per Chilmark Specifications \$ _____

In Written Words _____

4. PRICE FOR OPTION D – HVAC in Option C + bathrooms and office

Per Chilmark Specifications \$ _____

In Written Words _____

5. TOTAL PRICE OF THE ENTIRE PROJECT

Per Chilmark Specifications \$ _____

In Written Words _____

Did you deviate from the specifications in any way? (If yes, you must submit a detailed description of all deviations.) YES _____ NO _____

This bid includes addenda numbered: _____

The Project Manager will be: _____ email _____ cell# _____

The On-Site Supervisor will be: _____ email _____ cell# _____

The qualifications of the Project Manager are attached hereto. YES _____ NO _____

The qualifications of the On-Site Supervisor are attached hereto. YES _____ NO _____

Attach statement of financial ability to perform the work in this IFB. YES _____ NO _____

Did you enclose the 5% Bid Bond? YES _____ NO _____

Did you sign the bid and the two certifications? YES _____ NO _____

I acknowledge that I have examined the site and I am familiar with the existing conditions.

BY: _____
AUTHORIZED SIGNATURE PRINT NAME

COMPANY NAME TELEPHONE NUMBER

Cellular Number Facsimile Number

ADDRESS EMAIL ADDRESS

CITY, STATE, ZIP CODE DATE

REFERENCE FORM (or attach additional sheets with this information)

Bidder: _____

Bidder must provide references for: all contracts performed within the past three (3) years of similar scope, and provide a list with contact information for ALL current contracts.

Reference: _____

Address: _____

Contact: _____

Phone: _____

Fax: _____

Description and date(s) of services provided:

Reference: _____

Address: _____

Contact: _____

Phone: _____

Fax: _____

Description and date(s) of services provided:

Reference: _____

Address: _____

Contact: _____

Phone: _____

Fax: _____

Description and date(s) of services provided:

(Attach additional reference sheets as necessary)

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.

Signature of individual submitting bid or proposal

Name of business

TAX COMPLIANCE CERTIFICATION

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

Signature of person submitting bid or proposal

Name of business

OSHA construction 10-hour training

For public construction jobs estimated to be greater than \$10,000

All covered employees who are entitled to receive the prevailing wage while on the worksite, as well as any other employee of an entity that is required to pay the prevailing wage at the worksite, must have completed the OSHA 10 training. Contractors must provide documentation of the OSHA 10 training on the CPR for each employee the first time the individual is listed on a weekly payroll record. All covered employees must carry documentation of OSHA 10 training on their person when they are on the worksite or be able to immediately direct a representative of the AGO to the documentation. See AGO's [OSHA 10 Advisory](#).

SUBMIT in SEALED ENVELOPE Marked on its face: “CCC Cold Climate Heat Pumps ”

Specifications for Chilmark Community Center HVAC Systems

520 South Road, Chilmark, MA 02535



April 29, 2019

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If you have any questions, please call Roger S. Harris @1-413-519-7542.

Note to the successful bidder: This specification set must be given to the on site installers in order for them to fully comprehend the installation of the work. There is insufficient space on the designated plan size for this project to put all applicable installation notes which are part of this document. Both plans and written specifications must be provided to installers.

MECHANICAL SPECIFICATIONS – SECTION 230000**1. EQUIPMENT AND SITE**

- a. See the M-1 plan for the major equipment schedules and M-2 for the mechanical equipment locations.
- b. Provide and install all necessary duct work from the ERV unit to the points of delivery within the main hall. Provide and install new mechanical insulation as noted below.
- c. Provide and install a new Energy Recovery Ventilator (ERV), RenewAire model DN-2-jRTBH213—HP-EN2—L, or approved equal. The unit shall be an outdoor design with two inch thick wall insulation. The unit shall be safety listed. Unit shall have a built in GFCI Convenience Outlet, drain overflow switch, and come with a G5 Core for air exchange. Two 2 h.p. motors shall draw up to 6.7 FLA in providing 1139 cfm of air flow. The unit is rated at 208/1/60 with a 15.1 MCA and 20 amp MOP electrical rating. The ERV shall be UL listed under Standard 1812 for Ducted Air-To-Air Heat Exchangers and have a fixed plate exchanger with **latent and sensible** transfer. The unit shall have 2” nominal thickness, MERV 8 pleated disposable filters. The ERV shall have spring loaded dampers integral (or field installed) on the intake and exhaust connections to automatically close upon unit shut down. **Provide with necessary support rails to allow unit to be placed on a reinforced 6” concrete pad.** The unit weight is in the range of 1700 to 2800 lbs depending on options. Unit dimension is 151 5/8” L x 76 5/8” W x 73 1/8” H. The sensible effectiveness is 69.8% and the total effectiveness during the summer is 49.1% and 64.2% during the winter. 80°F leaving heating air DB temperature and 53.3°F cooling leaving air DB. Intake side of the unit must be oriented away from the standby generator with at least 15 feet clearance.
- d. The ERV post heating and cooling coil shall have a TXV and be fully compatible with the outside heat pump condensing unit (separate brand and model number to be determined) which shall also be provided and installed on an 18” stand located on a 4” minimum concrete pad.
- e. Provide and install the Mitsubishi ductless split systems shown on the equipment schedule. Install any necessary ancillary equipment with systems for full and proper operation according to the manufacturer’s instruction manual.
- f. Please note that these specifications are for mechanical HVAC systems and do not encompass the electrical modifications necessary to power these systems. The installing contractor shall have their electrical sub-contractor make a determination regarding the size of electrical service necessary to handle all existing and proposed building loads. Each outside CU and ERV unit shall have an accessible disconnect switch. An outdoor rated service outlet shall be provided in proximity of the outside units as necessary per code.
- g. All equipment provided and installed shall be **current models** as shown in the manufacturer’s catalog with replacement parts readily available.

- h. Provide all necessary start up and programming for the installed equipment.
- i. Equipment shall be installed in accordance with the manufacturer's instructions, and applicable codes. If there is a question about conflicts between any instructions on a detail, the installing contractor shall contact RISE Engineering to resolve issue before work commences.
- j. Equipment installed shall have all necessary ancillary equipment for the proper, safe and efficient functioning of the complete system.
- k. Equipment shall be installed in a location so as to not prevent maintenance of adjacent equipment and to allow new equipment to be serviced properly.
- l. The installation will have a one year labor and materials warranty by the installing contractor. In addition, there will be longer manufacturer's materials warranties which will apply.
- m. All of above equipment will be provided with adequate manufacturer service manuals and warranty.
- n. Provide all necessary cutting and patching of roofs, ceilings, floors, partitions, walls, and other surfaces as necessary for the installation of mechanical work in this and other sections. This includes new duct runs. This includes fire sealing of pre-existing and new holes in the walls and ceiling of the affected areas.
- o. If applicable, any piping, guy wires, curbs, ductwork or unit venting which penetrates a bonded roof or roof currently under warranty shall be done under this contract by the original roof installer.
- p. Each listed equipment item on the plans shall be labeled with installing contractor name and phone number, filter size (as applicable) and installation date. Each ductless split system and the ERV system shall be marked (with at least 26 font size letters) with the equipment reference number shown on the M-1 schedule.
- q. The approval of substitution of equipment does not relieve the installing contractor from the responsibility for any valid charges for additional work which may have to be performed by other trades as a result of any substitution.
- r. Contractors are responsible for providing equipment submittals before ordering equipment. If the contractor's submittal is not initially approved it is their responsibility to make all necessary corrections in the re-submittal. Third, fourth or fifth reviews by the engineer of the same equipment submittal must be compensated by the mechanical contractor.
- s. Provide and install Mason Industries (or approved equal by others) seismic rated secondary support cables and joints accordingly:

1. Seismic supports must have positive attachment, transverse and longitudinal bracing capabilities.
2. Restraints must be installed in strict compliance with seismic codes, material, equipment and building construction standards and codes.
3. The seismic support system manufacturer must provide submittals, installation instructions and shop drawings to the installing contractor and a representative of the Town of Chilmark showing the seismic support system sizes and locations as applicable to this project. The manufacturer will provide the calculations on such systems as applied to the new HVAC equipment, applicable intake and exhaust ductwork and piping to show compliance with the current edition of the Massachusetts Building Code according to the "G" forces requirements shown for applicable zone.
5. Piping will be addressed, except as noted below.
6. Additional exceptions include:
 - a. Equipment weighing less than 400 pounds, which is supported directly on the floor or roof.
 - b. Equipment weighing less than 20 pounds, which is suspended from the roof or floor or hung from a wall.
 - c. All other piping less than 2 ½ inches inside diameter, except for automatic fire suppression systems.
 - d. All piping suspended by individual hangers, 12 inches or less in length from the top of pipe to the bottom of the support for the hanger

2. DEMOLITION AND REMOVAL

- a. The existing oil fired furnace, associated ductwork and oil tank shall all remain in place given that the Town of Chilmark wishes to use it as a back-up source of heat for the building. Therefore, there are no mechanical systems to remove.

3. CODES

Job to include all work necessary to complete task according to local, state and national codes including electrical and mechanical permits. Copies of permits will be provided to the building owner and RISE Engineering before payment is made. **Permits must be pulled in advance of starting work.**

4. DUCT WORK

- a. Make any duct work connections in a workmanship like manner using standard SMACNA practices of the trade. Straight duct runs shall be provided at the supply and return connections of each mechanical unit for a minimum of three feet to reduce pressure loss and noise and improve air flow performance. Alternatively provide a minimum of 3 times the air handler

equivalent outlet diameter in straight duct off the unit. Limit slope of transitional fittings directly off the air handler to 30 degrees.

b. Ductwork shall be of the gauge galvanized steel, and constructed and erected in accordance with the appropriate Sheet Metal and Air Conditioning Contractors National Association (SMACNA) Standards and NFPA guidelines. See the M-1 plan Duct Construction Detail chart for more information.

c. Seal all joints with a water based duct sealer. Make supply and return connections in an airtight fashion. All duct seams must be sealed with quality duct sealant/caulking before wrapping with insulation. Before applying sealant, the duct seam must be clean and free of moisture, cutting oil and other contamination. Ducts to be enclosed within fixed building components shall be sealed with Iron Grip by Hardcast Carlisle or approved equal duct sealant. Tapes and mastics used with flexible air ducts shall be listed and labeled in accordance with UL 181B. **Seal all sheet metal duct chases to the roof curbs in a good workmanship-like fashion.**

d. Make any necessary supply and return transitions in a free air flow manner and with clean cuts into transitional ductwork.

e. The use of rectangular duct elbows must include a single internal turning vane per 12" width and include throat and external radius curves. Square throat angles are not acceptable for this sound sensitive application.

f. The building management is encouraged to operate the ERV-1 continuously during building occupied hours for proper air turnover.

g. All elbows shall be made with wide sweep curved duct transitions and all take off fittings shall be angled. The use of 90 degree stick on take-off branch fittings is expressly not allowed. The use of wyes is required for branches is preferable; the use of 45 degree angular take offs is acceptable.

h. Provide and install a fire and smoke seal by Dow-Corning, 3M Construction or other approved equal around all new duct penetrations through all roofs, floors, partitions, and walls. UL listed sealant material must be approved by BOCA, Massachusetts Building Code, NFPA 70 and 101 codes, National Electrical Code and any other applicable codes. The seal must not have a rating of less than the floor or wall assembly to which it is applied.

i. Provide and install new filters on the ERV units after three months of full completion of the systems. Filters shall be 2" pleated filters specified with original equipment.

j. Affix a label (with 26 point font or larger lettering) on the side of the ERV unit indicating: "The air filters are recommended to be replaced every 3 (three) months or as required to ensure efficient operation".

k. The ERV unit shall have flexible vinyl connectors for supply air and return air plenums prior to the plenum connected.

l. Turning/splitter vanes by Ductmate or equivalent for rectangular duct elbows shall allow the elbow to have a maximum .09 coefficient of loss.

m. Contractor is responsible, within the scope and fee of the contract and subject to approval of the Owner and/or Engineer, to make necessary adjustments to the duct, registers, and grill layouts shown to avoid wires, light fixtures and other features and obstacles.

n. Duct hangers shall be constructed and spaced according to SMACNA Duct Construction Standards. Straps and angles shall be galvanized steel; rods shall be uncoated or galvanized steel. Perforated iron band or wire is prohibited as means of duct support. Rod anchors into the building shall be concrete inserts, powder actuated fasteners (for concrete slabs these allowed when the slab is greater than or equal to 4 inches thick) or structural steel fasteners which are compatible with the adjoining building material. Any screwed fasteners shall be load rated for the specific application.

o. Ducts must be supported and reinforced in a manner as to not allow sheet metal deflection in excess of the following chart:

<u>Duct Size</u>	<u>Deflection Limit</u>
12" or less	1/2"
13-18"	5/8"
19-24"	3/4"
25" and above	1"

p. Support vertical round duct work a maximum of every 12 feet; support vertical rectangular duct work a maximum of every 10 feet. Vertical supports shall band around the duct entirely. The following chart lists the maximum spacing of suitable horizontal duct supports:

<u>Duct Area (Sq. Ft.)</u>	<u>Duct Diameter(Inches)</u>	<u>Maximum Spacing (Ft.)</u>
Less than 4	less than 5	8
4 to 10	5 to 38	6
Greater than 10	Greater than 38	4

q. Side wall double deflecting supply diffusers shall be Metal Aire 4004 (or approved equal by Price), aluminum series, 1000 cfm, NC rating of 25 or less in given application with neck velocity of 333 to 360 fpm. These shall also have color approved by Owner's representative before ordering.

r. Ceiling exhaust and wall and ceiling return grilles to be Metal Aire RH (or approved equal by Price), series without a damper (except as noted by RHD designation on the schedule), or approved equal. Color selection by Owners representative before ordering.

s. Duct work shall be low pressure rated and shall be leakage tested before the insulation is installed. Flexible duct work is not allowed for this project.

t. To the extent possible, duct work shall be round for maximum air flow performance, radial rigidity and lowest installed cost. All exposed duct work shall be spiral. The installing contractor shall provide a duct plan for approval by the building owner and RISE Engineering.

u. The following are general guidelines for the correct duct size equivalent to use for the following ranges of cfm air flow rates for low air side pressure drop:

Up to 60 cfm: 5" or 6" round

61 to 95 cfm: 6" round

96-145 cfm: 7" round

146-200 cfm: 8" round

201-280 cfm: 9" round

281-360 cfm: 10" round

361-600 cfm: 12" round

601-900 cfm: 14" round

901-1300 cfm: 16" round

1301-1800 cfm: 18" round

1801-2180 cfm: 20" round

v. Three high supply diffusers shall be provided for the main room. Three low returns shall be provided for the stage area.

w. Do not install internally insulated ductwork unless it is double-walled ductwork or includes duct liners that meet ASTM standards C1071 and C1104 for surface erosion and water vapor absorption.

x. If other construction will occur during duct insulation, seal HVAC supply and return openings to protect them from dust infiltration during such activities as drywall installation and floor sanding. If installing a new duct system, follow SMACNA guidelines "Duct Cleanliness for New Construction Guidelines" according to *advanced* levels of cleanliness. Of specific importance are the following:

1. Specify that ductwork be sealed during transport.
2. Store ductwork in clean, dry conditions and keep sealed.
3. Wipe down internal surfaces of ductwork immediately prior to installation.
4. Seal open ends of completed and "in-progress" ductwork.
5. During installation protect ductwork with surface wrapping.

5. CONDENSATE PIPING

a. PVC condensate piping for the air conditioning system shall be installed as necessary to meet the following table of values:

<u>Pipe Size</u>	<u>Tons of Cooling (Max.)</u>
3/4"	2
1"	5
1 1/4"	30

b. PVC condensate drain piping to be secured to building a maximum of every two feet and run properly pitched 1/8" per foot of length and terminate into existing vented plumbing drains. For all condensate piping, all elbows will be in the form of tees with a clean out plug. Do not use clear flexible plastic piping for condensate since it can deteriorate and restrict flow over time. Do not install condensate piping along floor in a manner which could be trip or slip hazard.

c. Provide all necessary sleeves as follows:

1. Galvanized-Steel Sheet: 0.0239-inch minimum thickness; round tube closed with welded longitudinal joint.
2. Steel Pipe: ASTM A 53, Type E, Grade B, Schedule 40, galvanized, plain ends.
3. Cast Iron: Cast or fabricated "wall pipe" equivalent to ductile-iron pressure pipe, with plain ends and integral water stop, unless otherwise indicated.
4. Stack Sleeve Fittings: Manufactured, cast-iron sleeve with integral clamping flange. Include clamping ring and bolts and nuts for membrane flashing.

A. Underdeck Clamp: Clamping ring with setscrews.

d. Pipe shall be cut accurately to measurements established at building, worked into place without springing or forcing; properly clearing all windows, doors and other openings. Excessive cutting or other weakening of building structure, to facilitate pipe installation will not be permitted. Pipe shall have burrs removed by reaming and so installed as to permit free expansion and contraction without damage to joints or hangers. Changes in direction shall be made with fittings, except that bending of pipe will be permitted, provided a hydraulic pipe bender is used. Bent pipe showing kinks, wrinkles or other malformation shall not be acceptable. Horizontal mains shall pitch up in a direction of flow with a grade of not less than 1" in 40'. Piping connection to equipment shall be in accordance with details shown on drawings. Open ends of pipe lines to equipment shall be properly capped or plugged during installation to keep dirt or other foreign matter out of system. Install piping in a direct, neat manner to conform to field conditions, taking into consideration, appearance of final installation of minimum interference with other trades.

6. AIR CONDITIONING SYSTEM PIPING

- a. All refrigerant piping shall be properly sized by the installing contractor in strict adherence to the manufacturer's equipment installation instructions. See guidance from the equipment manufacturer.
- b. Piping must be kept clean and dry inside until fully connected.
- c. Lead-bearing solder is not to be used for liquid and suction lines.
- d. During high temperature soldering of fittings, dry nitrogen gas shall be "bled" through the piping to ensure that oxides do not form inside the piping.
- e. The suction line shall be pitched downward in the direction of flow. Provide a one-inch pitch in the suction and liquid lines towards the evaporator for every ten feet of run to prevent condensing refrigerant from flowing to the compressor when the unit is off.
- f. The system shall be leak tested before its put into operation. Properly evacuate piping after leak testing.
- g. The systems shall be properly charged with R-410A refrigerant in accordance with the manufacturer's instructions. Use only the proper type oils with R-410 refrigerant.
- h. Provide and install air conditioning specialties as necessary to complete this job including but not limited to the applicable manufacturer specified sizes of filter-dryers, liquid indicators, solenoid valves, thermal expansion valves, refrigerant fill and reclaim ports, etc. all installed per the equipment manufacturer's instructions. The liquid line filter-dryer with a rated working pressure of a minimum of 600 psig must be of the replaceable core type to permit proper system cleanup, filtration and moisture removal.
- i. Pipe liquid and suction copper lines in parallel in the most direct acceptable route around the various obstacles to reduce the amount of system refrigerant. Route and sizing of liquid suction lines should not cause excessive pressure drops which can reduce the compressor capacity and efficiency. All refrigerant piping routes shall be coordinated with the building owner before installation.
- j. The enclosure of the refrigerant piping/condensate lines exposed within the building is the responsibility of the HVAC contractor. The use of plastic enclosures of the color acceptable to the building owner is required.
- k. Considering total length of lines restrictions per air conditioning equipment manufacturer, the refrigerant pipe must be sized to consistently return oil to the compressor.

l. The refrigerant piping shall also maintain sufficient sub cooling to provide a continuous column of liquid refrigerant at the thermal expansion valve. In order that proper operation is provided throughout the range of operating conditions, the liquid line pressure drop should not exceed the unit's minimum sub cooling value less five degree F. Generally speaking, each ten feet of vertical rise in the liquid line will reduce sub cooling by 2.8 degrees F. and each ten feet of vertical drop will add 1.1 degrees F. of sub cooling.

m. Size the suction lines so that the refrigerant velocity equals or exceeds the required minimum velocity required by the equipment manufacturer but not more than 4000 feet per minute.

n. Affix a label (with 26 point font or larger lettering) on the side of condensing unit noting the type of refrigerant charge in the system.

7. MECHANICAL DUCT AND PIPE INSULATION

a. Insulate the **ERV supply and stale air** duct work - all new outside air duct work, shall be insulated to a minimum R-12 value.

b. All of the new exterior duct insulation shall be covered with a durable all-weather protection material such as VentureClad 1577CW or equivalent material that is rated for below -10°F and above 150°F outside air conditions. The material shall have a resistance to puncture and tears and have zero permeability rating.

c. Insulate the outside air, exhaust within the building to the ERV unit, and supply from the ERV. Blanket type duct wrap insulation shall consist of a blanket of glass fibers factory-laminated to a reinforced foil/kraft (FRK) vapor retarder facing with a 2" stapling and taping flange on one edge. Insulation shall have a composite UL rating of 25/50 (flame spread/developed smoke) with an installed R-value of 8.

d. The refrigerant lines to be insulated per the manufacturer's recommendations. Exposed to the outside lines insulated shall have a minimum of $\frac{3}{4}$ " (1" for 1 $\frac{1}{2}$ " or greater pipe size) wall insulation which is **protected from the ultraviolet rays of the sun.**

e. Subject to compliance with the above requirements, provide products of one of the following brands:

1. Knauf Fiber Glass GmbH.
2. Johns Manville
3. Certain Teed
4. Owens-Corning Fiberglas Corp., or approved equal.

8. AIR FLOW BALANCE

- a. All air flow measurement instruments used by the balance company must have been calibrated within two years of the on-site measurement date.
- b. An independent air flow balance company hired by the Mechanical Contractor of record will provide a report of the ERV-1 air flow to each diffuser and grille after making attempts to bring air flow as close to the specified amounts as possible.
- c. The report shall be conducted after the owner has signed off on the completion of the work. If the quality of the duct work installation has compromised the air flow beyond what could be balanced the mechanical contractor must correct deficiencies and the air flow balance company must make an additional recheck.
- d. The air flow balance company must be certified by either the Associated Air Balance Council (AABC) or the National Environmental Balancing Bureau (NEBB). The air flow balance company must be a totally separate independent entity from the mechanical contractor.

9. SEQUENCE OF OPERATIONS

- a. Each heat pump unit must be wired to a wall mounted thermostat. The thermostat shall be set to 73°F cooling (adjustable) and 70°F heating (adjustable) during occupied periods and 80°F (adj.) cooling/60°F (adj.) heating during unoccupied periods. The low voltage thermostat wiring shall be covered by Wire Mold or equal approved covering.
- b. The ERV-1 shall be controlled to operate only during building occupied cooling and heating periods.
- c. Provide and install one Honeywell H705A Enthalpy Controller with W7459 Logic Module or approved equal sensing and switching device (Honeywell W7215A) to control operation of the economizer cycle for ERV-1 when in the cooling mode. During the economizer mode the initial trial setting will be 55 degrees F. on and 75 degrees F. and 60% RH off. This device may require an additional outside sensor for the low end of the economizer dead band. This shall function as an economizer regardless of the time of day – it can provide nocturnal pre-cooling of the space during the evening with associated dampers being overridden during the economizer mode.
- d. Provide and install a Vulcain, Honeywell or approved equal, refrigerant monitor panel in the main hall. The monitor panel shall include a detector located where a refrigerant leak could concentrate. The detector shall be equipped to trigger an alarm both inside and outside main hall as well as activate ERV-1 for if it is not already on. The alarms provided shall be visible and audible within that area and will be interlocked with the CU-1, CU-2, CU-3, CU-4, CU-5, CU-6

and CU-7 to shut them all down upon a threshold of refrigerant sensing. System must comply with ASHRAE standard 15-2007.

e. The refrigerant monitoring device shall be commissioned by a factory-authorized representative to inspect the installation for compliance of the ASHRAE 15 requirements, test the alarm set points with calibration gases and verify sequence of operation. A written report shall be provided to the building owner and the HVAC engineer.

f. Provide full start-up of all controls including programming and testing.

END OF MECHANICAL TECHNICAL SPECIFICATIONS

10. GENERAL REQUIREMENTS

a. The selected Contractor will be required to provide (1) copy of submittals for the equipment to be installed to the building owner and RISE Engineering for review and approval. This can be provided electronically.

b. The installation will have a one year labor and materials warranty by the installing contractor. In addition, there may be longer manufacturer's materials warranties.

c. Contractor Responsibility - The Contractor is responsible for successful completion of all phases of this project including but not limited to paying for and pulling **all appropriate permits as required by law before commencement of work.**

d. The Contractor must use good workmanship in performing work as specified. Any deviations of the above work must be approved by RISE Engineering and the building owner

e. The workers shall leave the inside and outside of the building in a reasonably clean condition. Grounds shall be left in original condition except where otherwise approved by the building owner.

f. Commencement of work shall be within thirty (30) days from the date of the award and contract. Completion shall be within sixty (60) following commencement.

g. Contractor's price shall be good for a minimum of the installation period.

h. The Contractor shall schedule the work with the customer directly with sufficient lead time to allow any notifications within the building. If the contractor is running late, a call is appreciated to let the customer know. The Contractor shall also call or fax actual start date to

RISE Engineering and the Town of Chilmark. Once started, the work shall continue on each successive normal work day until it is completed. Interruptions in work to perform work for other customers shall not be allowed unless explicitly approved by the customer in advance. The owner retains the right to impose a \$100/working day penalty charge as a deduction from the Contractor's invoice, on work not completed within the time frame in which it was promised by the Contractor.

i. The Contractor shall, at all times, fully protect his work and materials from injury loss by others. Any injury or loss which may occur shall be made without expense to the building owner. The Contractor shall be responsible for the proper protection of his materials and tools until the building is accepted by the Owner. The Contractor will be working in and adjacent to the resident's living space and has to be aware of resident's safety.

k. The Contractor shall refer to the drawings for a full comprehension of the work to be done and for conditions affecting the locations and placement of his equipment and materials. These drawings are intended to be supplementary to the specifications, and any work indicated, mentioned or implied in either is to be considered as specified by both. Should the character of the work herein not be sufficiently explained in the specifications or drawings, the Contractor may apply to the owner for further information and shall conform to such when given as it may be consistent with the original intent. The owner reserves the right to make any reasonable changes in location prior to installation at no expense to the owner. All items are diagrammatic and exact locations are subject to the approval of the owner. The Contractor shall verify conditions on site.

l. The Contractor shall at all times have a foreman on the project authorized to make decisions and receive instructions exactly as if the contractor himself were present.

m. It shall be understood that these documents are intended to perform as a guide and that omission of any specific item or failure to mention any local, state or federal requirements of law specifically shall not relieve the installing contractor firm from full and complete responsibility in furnishing a complete and satisfactory installation.

n. The Contractor must furnish and install all materials as specified above. All bids must include all costs associated with the work to be done, including but not limited to overhead, profit, materials, design (if any) and labor.

o. The building owner has the right to reject any or all bids for the above work.

p. Bids must be signed by an authorized representative of the company, signifying acceptance of the specifications.

q. All bids shall be provided on form provided as itemized.

r. The Contractor shall pay all fees, charges and permits, including but not limited to, those as required by the Commonwealth of Massachusetts which may be required by the production, sale, transportation, delivery, use, and installation of the materials, sold hereunder.

s. All Work shall be executed in accordance with the latest Building Codes, local inspection authorities and Occupational Safety and Health Administration (OSHA). It shall be understood that these documents are intended to perform as a guide and that omission of any specific item or failure to mention any local, state or federal requirements or authorities of law specifically shall not relieve the installing Contractor firm from full and complete responsibility in furnishing a complete, code compliant and satisfactory installation. Such requirements include or are based upon standards by, but are not limited to the following:

American National Standards Institute (ANSI)

American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE)
Standard 62-2001.

American Society of Testing Materials (ASTM)

American Standards Association (ASA)

Factory Mutual Association (FM)

National Board of Fire Underwriters (NBFU)

National Electric Code (NEC)

National Fire Protection Association (NFPA)

Massachusetts Building Code

Town of Chilmark, MA Building Regulations and Ordinances.

t. The work within the building on this project will be limited to between the hours of 8AM until 5 PM.

11. TRAINING & MANUAL REQUIREMENTS

- a. Prior to final completion, but after substantial completion, the Contractor shall provide all warranties and manuals to the Owner, along with a 24-hour emergency call number.
- b. Contractor shall provide operations & maintenance manuals for every piece of new equipment installed.
- c. Contractor shall develop and provide to the Owner a comprehensive maintenance schedule indicating the type of service and the periodic intervals at which the maintenance should occur.
- d. All Schedules, equipment manuals, and training materials shall be consolidated into three-ring or equivalent binders with a table of contents and labeled dividers to create comprehensive installed systems operations manual. Manuals shall have a title page inserted in the sleeve of the front of the binder and repeated inside. Manual binders should be sized to allow for the incorporation of new materials throughout the life of the building. Each manual shall also include all systems manufacturer's warranty documentation.
- e. Three (3) copies of the complete installed systems operations manual shall be provided to the Owner.
- f. The Contractor shall provide training to the Owner's personnel to the satisfaction of the owner's Facilities Director. The Contractor shall, at minimum develop and provide one hour of training (coordinated with RISE Engineering) to the individuals specified by the owner. Training shall have written handouts, as well as hands-on demonstrations and verbal descriptions of the operation and maintenance requirements of the systems installed.

12. WARRANTY, EMERGENCY SERVICE & POST WARRANTY SERVICE CONTRACTS

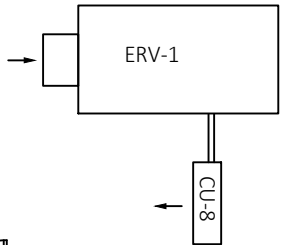
- a. Contractor shall provide a 100% comprehensive warranty the project for the first full year of operation for both parts and labor with a copy of said warranty included in each installed systems manual. In addition, contractor shall service and implement any manufacturer's warranties during this period.
- b. During the above warranty period, the Contractor or the Contractor's Subcontractor, shall be available via a 24-hour emergency call number to provide service and repairs 24 hours a day, 7 days a week. The contractor shall provide emergency response in less than 2 hours.

- c. Contractor shall provide an optional annual cost proposal for on-going service, maintenance and 24/7 emergency repair response to commence in the second year, upon expiration of the first year's warranty.
- d. For any services outside the scope of the Contractor's direct expertise, such as building temperature controls, the contractor shall indicate an available service provider for each major piece of equipment.

RSH 4/29/19

END OF DOCUMENT

NOTE: EACH CU AND THE ERV-1 SHALL HAVE PROPER CLEARANCES TO THE BUILDING AND OTHER OBSTACLES FOR SERVICE AND AIR DISCHARGE. THE ERV-1 INTAKE MUST BE LOCATED AT LEAST 15 FEET FROM THE DISCHARGE OF THE STANDBY GENERATOR.



UNCONDITIONED STORAGE ROOM

CU-6

CU-5

CU-7

WOMEN'S ROOM

AC7c

AC7a

MEN'S ROOM

AC7b

OFFICE

STORAGE ROOM

HALLWAY

90V

AC5b

KITCHEN

MAIN LOBBY

ELECTRICAL ROOM

AC5a

AC4b

AC3b

AC2b

AC4a

AC3a

AC2a

STAGE

CU-1

AC1

CU-2

CU-3

CU-4

THE TOWN OF CHILMARK WILL RELOCATE THE RED CROSS BOX AND REMOVE BUSHES AS NECESSARY AT THIS LOCATION.

1

M-2

MECHANICAL HVAC EQUIPMENT LOCATION PLAN

SCALE: 1/8" = 1'-0"



RISE ENGINEERING,
1341 ELMWOOD AVE.,
CRANSTON, RI 02910

CHILMARK COMMUNITY CENTER
520 SOUTH ROAD, CHILMARK, MA
HVAC SYSTEMS

Project:

Status:

BIDING
DOCUMENTS

Date

Revision/Issue

No.

Sheet Title:

PLAN OF
HVAC SYSTEM
LOCATIONS

Project No:

Drawn By:

RSH

Checked By:

JPV

Scale:

1/8" = 1'

Date:

04/29/19

Drawing No:

M-2.0











AIR COOLED CONDENSING UNIT SCHEDULE													
					COOLING TONS	HEATING CAPACITY							
	MANUFACTURER		AC BLOWER UNIT(S)		CAPACITY OF COND.	CAPACITY AT		MAX FUSE	MIN. AMPACITY	HEIGHT WIDTH/ DEPTH	WEIGHT (PDS.)	POWER SUPPLY	
ID	(MITSUBISHI) MODEL NUMBER	CONDENSING UNIT LOCATION	SERVED	REFRIG.	UNIT/ SYSTEM	17 °F BTU/HR.	SEER/ HSPF	SIZE (AMPS.)	MCA	(IN)		VOLTAGE	NOTES:
CU-1	MUZ-GL24NA	REAR OF BUILDING	STAGE - AC1	R-410A	2/2	24,600	20.5/10.0	20	17.1	34 5/8 X 31 1/16 X 13	119	1/60/208-230	LOCATE ON A 18" STAND
CU-2	MXZ-8C48NA	REAR OF BUILDING	PERFORMANCE HALL - AC2a/AC2b	R-410A	4/4	36,600	18.9/11.4	40	37	52 11/16 X 41 11/32 X 14	269	1/60/208-230	LOCATE ON A 18" STAND
CU-3	MXZ-8C48NA	REAR OF BUILDING	PERFORMANCE HALL - AC3a/AC3b	R-410A	4/4	36,600	18.9/11.4	40	37	52 11/16 X 41 11/32 X 14	269	1/60/208-230	LOCATE ON A 18" STAND
CU-4	MXZ-8C48NA	REAR OF BUILDING	PERFORMANCE HALL - AC4a/AC4b	R-410A	4/4	36,600	18.9/11.4	40	37	52 11/16 X 41 11/32 X 14	269	1/60/208-230	LOCATE ON A 18" STAND
CU-5	MXZ-8C48NAHZ*	REAR OF BUILDING	LOBBY - AC5a/AC5b	R-410A	4/4	54,000	18.9/11.0	50	42	52 11/16 X 41 11/32 X 14	276	1/60/208-230	LOCATE ON A 18" STAND
CU-6	MUZ-GL24NA	REAR OF BUILDING	KITCHEN - AC6	R-410A	2/2	24,600	20.5/10.0	20	17.1	34 5/8 X 31 1/16 X 13	119	1/60/208-230	LOCATE ON A 18" STAND
CU-7	MXZ-3C30NA	RIGHT REAR	OFFICE & RESTROOMS - AC7a/AC7b/AC7c	R-410A	2.5	16,000	17.6/10.1	25	17.1	31 11/32 X 37 13/32 X 13	137	1/60/208-230	LOCATE ON A 18" STAND

*Hyper-Heat model for deep winter heating capacity, may require branch box accessory

AIR CONDITIONING EVAPORATOR UNIT SCHEDULE													
				HEATING	Note 2.			Note 1.	Note 1.				
	MANUFACTURER		COOLING	BLOWER	HEATING	POWER	COND.	LIQUID	SUCTION	WIDTH/	WEIGHT	CONTROL	
	AND	SERVES	BLOWER	RATED	CAPACITY	SUPPLY	DRAIN	LINE	LINE	DEPTH	(PDS.)	AND	
ID	MODEL NUMBER	LOCATION/ROOM NO.	CAP.	CAP.	AT	VOLTAGE	LINE SIZE	SIZE	SIZE	HEIGHT		OTHER	
			(BTU/H)	(BTU/H)**	TEMP.		(IN)	(IN O.D.)	(IN O.D.)	(IN)		DETAILS	
AC1	MSZ-GL24NA	STAGE	22,500	24,600	17 °F	208-230	5/8	3/8	5/8	43 5/16 X 9 3/8 X 12 13/16	37	SEE SPECS	WASHABLE AIR FILTER
AC2a	MSZ-GL24NA	PERFORMANCE HALL	22,500	16,000	17 °F	208-230	5/8	3/8	5/8	43 5/16 X 9 3/8 X 12 13/16	37	SEE SPECS	WASHABLE AIR FILTER
AC2b	MSZ-GL24NA	PERFORMANCE HALL	22,500	16,000	17 °F	208-230	5/8	3/8	5/8	43 5/16 X 9 3/8 X 12 13/16	37	SEE SPECS	WASHABLE AIR FILTER
AC3a	MSZ-GL24NA	PERFORMANCE HALL	22,500	16,000	17 °F	208-230	5/8	3/8	5/8	43 5/16 X 9 3/8 X 12 13/16	37	SEE SPECS	WASHABLE AIR FILTER
AC3b	MSZ-GL24NA	PERFORMANCE HALL	22,500	16,000	17 °F	208-230	5/8	3/8	5/8	43 5/16 X 9 3/8 X 12 13/16	37	SEE SPECS	WASHABLE AIR FILTER
AC4a	MSZ-GL24NA	PERFORMANCE HALL	22,500	16,000	17 °F	208-230	5/8	3/8	5/8	43 5/16 X 9 3/8 X 12 13/16	37	SEE SPECS	WASHABLE AIR FILTER
AC4b	MSZ-GL24NA	PERFORMANCE HALL	22,500	16,000	17 °F	208-230	5/8	3/8	5/8	43 5/16 X 9 3/8 X 12 13/16	37	SEE SPECS	WASHABLE AIR FILTER
AC5a	MSZ-GE24NA	LOBBY	24,000	27,000	17 °F	208-230	5/8	3/8	5/8	43 5/16 X 9 3/8 X 12 13/16	37	SEE SPECS	WASHABLE AIR FILTER
AC5b	MSZ-GE24NA	LOBBY	24,000	27,000	17 °F	208-230	5/8	3/8	5/8	43 5/16 X 9 3/8 X 12 13/16	37	SEE SPECS	WASHABLE AIR FILTER
AC6	MSZ-GL24NA	KITCHEN	22,500	16,000	17 °F	208-230	5/8	3/8	3/8	43 5/16 X 9 3/8 X 12 13/16	37	SEE SPECS	WASHABLE AIR FILTER
AC7a	MSZ-GL9NA	MEN'S ROOM	9,000	6,700	17 °F	208-230	5/8	1/4	3/8	31-7/16 X 9 1/8 X 11 5/8	22	SEE SPECS	WASHABLE AIR FILTER
AC7b	MSZ-GL9NA	SMALL OFFICE	9,000	6,700	17 °F	208-230	5/8	1/4	3/8	31-7/16 X 9 1/8 X 11 5/8	22	SEE SPECS	WASHABLE AIR FILTER
AC7c	MSZ-GL18NA	WOMENS ROOM	18,000	13,600	17 °F	208-230	5/8	1/4	1/2	36 5/16 X 9 3/8 X 12	28	SEE SPECS	WASHABLE AIR FILTER

** Maximum capacity is higher, Note 1: Where multiple indoor units are connected to a single outside condensing unit, the liquid and suction pipe sizes may vary according to the manufacturer's manual.

Note 2: It is recognized that the actual cold weather design temperature is less than 17°F. However, the heating performance of the units will still meet the design day load.

DUCT CONSTRUCTION DETAIL													
DIMENSION OF LONGEST SIDE (INCHES)	SHEET METAL GAUGE (ALL FOUR SIDES)	MINIMUM REINFORCING ANGLE SIZE & MAXIMUM LONGITUDINAL SPACING BETWEEN TRANSVERSE JOINTS & / OR INTERMEDIATE REINFORCING	MINIMUM 'H' DIMENSION (INCHES)										
				DRIVE SLIP	PLAIN 'S' SLIP	HEMMED 'S' SLIP	ALTERNATE BAR SLIP	REINFORCED BAR SLIP	ANGLE SLIP	STAND. SEAM	ANGLE REINFORCED STAND. SEAM	POCKET LOCK	ANGLE REINFORCED POCKET LOCK
					RECOMMENDED GAUGE	RECOMMENDED GAUGE	RECOMMENDED GAUGE	RECOMMENDED GAUGE	RECOMMENDED GAUGE	REINFORCED ANGLE SIZE	REINFORCED ANGLE SIZE	RECOMMENDED GAUGE	REINFORCED ANGLE SIZE
UP THRU 12	26	NONE REQUIRED	1	26	26	24	24	24	24	NOT REQUIRED	NOT REQUIRED	24	NOT REQUIRED
13 - 18	24	NONE REQUIRED	1	24	24	24	24	24	24	NOT REQUIRED	NOT REQUIRED	24	NOT REQUIRED
19 - 30	24	1"x1"x1/8" AT 60"	1	-	24	24	24	24	24	NOT REQUIRED	NOT REQUIRED	24	NOT REQUIRED
31 - 42	22	1"x1"x1/8" AT 60"	1	-	-	22	22	22	22	NOT REQUIRED	NOT REQUIRED	22	NOT REQUIRED
43 - 54	22	1-1/2"x1-1/2"x1/8" AT 60"	1-1/2"	-	-	22	22	22	22	1 1/2" x 1 1/2" x 1/8"	NOT REQUIRED	22	NOT REQUIRED
55 - 60	20	1-1/2"x1-1/2"x1/8" AT 60"	1-1/2"	-	-	-	22	22	22	1 1/2" x 1 1/2" x 1/8"	NOT REQUIRED	22	NOT REQUIRED
61 - 84	20	1-1/2"x1-1/2"x1/8" AT 60"	1-1/2"	-	-	-	22	22	22	1 1/2" x 1 1/2" x 1/8"	1 1/2"x1 1/2"x1/8"	22	1 1/2"x1 1/2"x1/8"

NOTE: 1. TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.

PLEASE SEE THE SPECIFICATIONS FOR ADDITIONAL PROJECT REQUIRED EQUIPMENT INCLUDING AN ERV SYSTEM.

IMPORTANT NOTE:

THESE PLANS MUST BE SUPPLEMENTED BY THE WRITTEN SPECIFICATIONS FOR A FULL UNDERSTANDING OF THE SCOPE OF WORK FOR THIS PROJECT. PLEASE MAKE SURE THE ON SITE TECHNICIANS HAVE THE FULL PLAN SET INCLUSIVE OF THE SPECIFICATION SHEETS ON SITE DURING THE HVAC SYSTEM INSTALLATION.

RISE ENGINEERING,
1341 ELMWOOD AVE.,
CRANSTON, RI 02910

CHILMARK COMMUNITY CENTER
520 SOUTH ROAD, CHILMARK, MA
HVAC SYSTEMS

Project:

Status:

BIDING
DOCUMENTS

Date

Revision/Issue

No.

Sheet Title:
PROPOSED WORK
EQUIPMENT
SCHEDULE &
DETAILS

Project No:

Drawn By:

RSH

Checked By:

JPV

Scale:

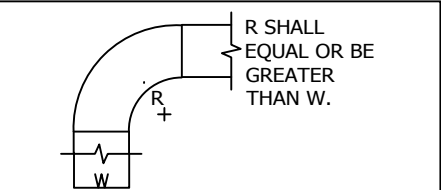
N/A

Date:

04/29/19

Drawing No:

M-1.0



LONG RADIUS ELBOW

NOTE:

1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.

LONG RADIUS ELBOW
DUCT FITTING

NOT TO SCALE

ABBREVIATIONS

EA: Exhaust Air to outside
OA: Outside Air intake
RA: Room Air to be exhausted
SA: Supply Air to inside

INSTALLATION ORIENTATION

Unit must be installed in orientation shown.

NOTE

1. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE ROUNDED TO THE NEAREST EIGHTH OF AN INCH.

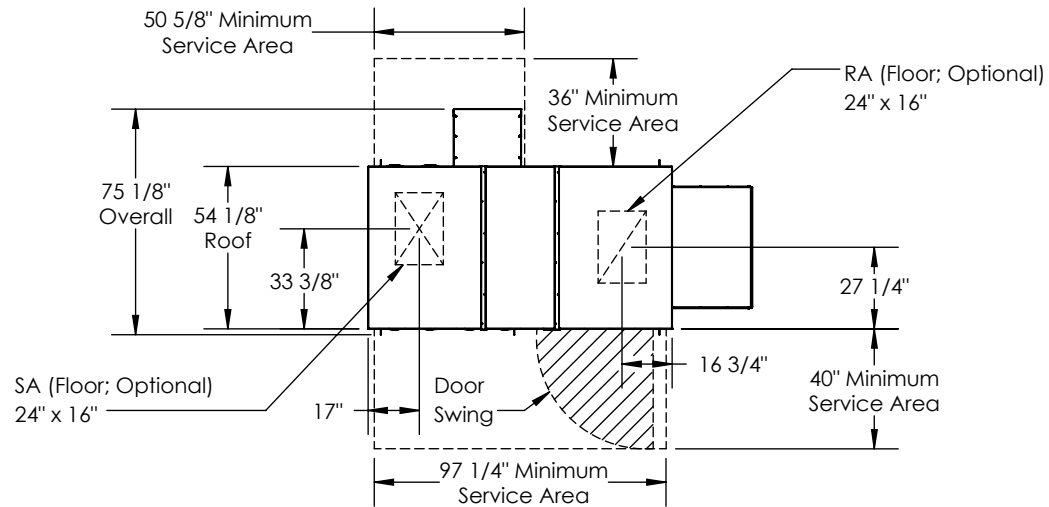
2. SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.

3. FOR PIPE CONNECTION DETAILS REFER TO CORES OR UNIT SELECTION SUBMITTAL.

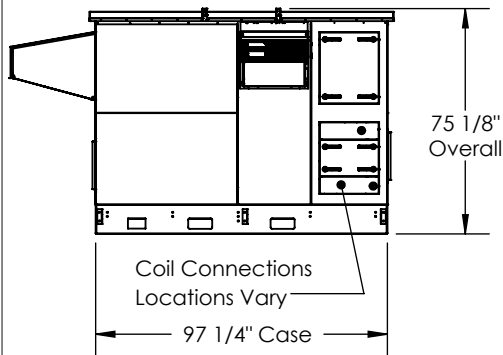
4. UNIT, UNIT DOORS, AND COILS CANNOT BE MIRRORED.

5. FOR CURB DETAILS REFER TO CURB DRAWING.

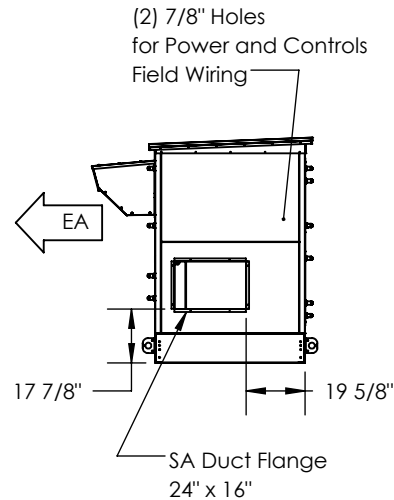
6. FOR PROJECT SPECIFIC DRAWINGS REFER TO PROJECT SUBMITTAL.



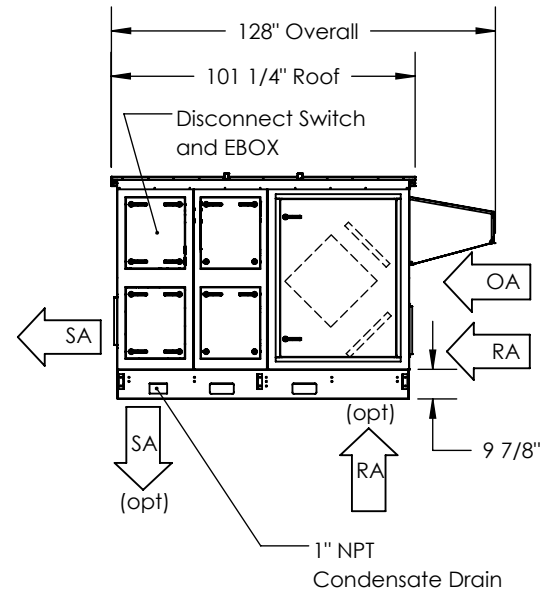
TOP VIEW



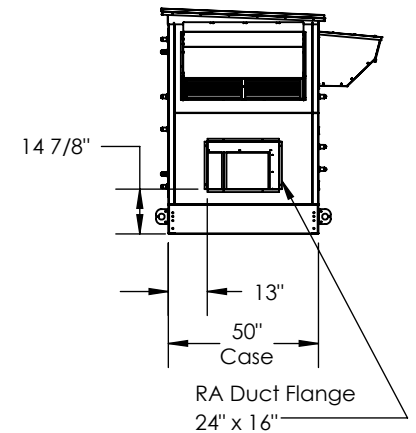
BACK VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

Model: DN-2JRT ERV+COIL 2"
Drawing Type: Unit Dimension
Version: DEC18

Coil Options: DX, CW, HP, HGRH, HW, Steam

RenewAire
Energy Recovery Ventilation



CHARLES D. BAKER
Governor

KARYN E. POLITO
Lt. Governor

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

Prevailing Wage Rates

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

ROSALIN ACOSTA
Secretary
WILLIAM D MCKINNEY
Director

Awarding Authority: Town of Chilmark
Contract Number: 2019-01 **City/Town:** CHILMARK
Description of Work: INITIAL REQUEST-Chilmark is seeking sealed bids for the supply & installation of high efficiency Cold Climate Heat Pumps/HVAC, ERV, and all other necessary components in the Chilmark Community Center.
Job Location: 522 South Road

Information about Prevailing Wage Schedules for Awarding Authorities and Contractors

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

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
Construction						
(2 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2018	\$33.25	\$11.91	\$12.70	\$0.00	\$57.86
	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>	12/01/2018	\$33.32	\$11.91	\$12.70	\$0.00	\$57.93
	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>	12/01/2018	\$33.44	\$11.91	\$12.70	\$0.00	\$58.05
	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 1)</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 2</i>	12/01/2018	\$34.27	\$7.85	\$14.44	\$0.00	\$56.56
	06/01/2019	\$35.14	\$7.85	\$14.44	\$0.00	\$57.43
	12/01/2019	\$36.00	\$7.85	\$14.44	\$0.00	\$58.29
	06/01/2020	\$36.89	\$7.85	\$14.44	\$0.00	\$59.18
	12/01/2020	\$37.78	\$7.85	\$14.44	\$0.00	\$60.07
	06/01/2021	\$38.70	\$7.85	\$14.44	\$0.00	\$60.99
	12/01/2021	\$39.61	\$7.85	\$14.44	\$0.00	\$61.90
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
ASBESTOS WORKER (PIPES & TANKS) <i>HEAT & FROST INSULATORS LOCAL 6 (SOUTHERN MASS)</i>	12/01/2018	\$35.40	\$12.50	\$8.50	\$0.00	\$56.40
	06/01/2019	\$36.40	\$12.50	\$8.50	\$0.00	\$57.40
	12/01/2019	\$37.40	\$12.50	\$8.50	\$0.00	\$58.40
	06/01/2020	\$38.40	\$12.50	\$8.50	\$0.00	\$59.40
	12/01/2020	\$39.40	\$12.50	\$8.50	\$0.00	\$60.40
ASPHALT RAKER <i>LABORERS - ZONE 2</i>	12/01/2018	\$33.77	\$7.85	\$14.44	\$0.00	\$56.06
	06/01/2019	\$34.64	\$7.85	\$14.44	\$0.00	\$56.93
	12/01/2019	\$35.50	\$7.85	\$14.44	\$0.00	\$57.79
	06/01/2020	\$36.39	\$7.85	\$14.44	\$0.00	\$58.68
	12/01/2020	\$37.28	\$7.85	\$14.44	\$0.00	\$59.57
	06/01/2021	\$38.20	\$7.85	\$14.44	\$0.00	\$60.49
	12/01/2021	\$39.11	\$7.85	\$14.44	\$0.00	\$61.40
For apprentice rates see "Apprentice- LABORER"						
ASPHALT/CONCRETE/CRUSHER PLANT-ON SITE <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2018	\$47.58	\$11.50	\$15.60	\$0.00	\$74.68
	06/01/2019	\$48.68	\$11.50	\$15.60	\$0.00	\$75.78
	12/01/2019	\$49.83	\$11.50	\$15.60	\$0.00	\$76.93
	06/01/2020	\$50.93	\$11.50	\$15.60	\$0.00	\$78.03
	12/01/2020	\$52.08	\$11.50	\$15.60	\$0.00	\$79.18
	06/01/2021	\$53.18	\$11.50	\$15.60	\$0.00	\$80.28
	12/01/2021	\$54.33	\$11.50	\$15.60	\$0.00	\$81.43
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BACKHOE/FRONT-END LOADER <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2018	\$47.58	\$11.50	\$15.60	\$0.00	\$74.68
	06/01/2019	\$48.68	\$11.50	\$15.60	\$0.00	\$75.78
	12/01/2019	\$49.83	\$11.50	\$15.60	\$0.00	\$76.93
	06/01/2020	\$50.93	\$11.50	\$15.60	\$0.00	\$78.03
	12/01/2020	\$52.08	\$11.50	\$15.60	\$0.00	\$79.18
	06/01/2021	\$53.18	\$11.50	\$15.60	\$0.00	\$80.28
	12/01/2021	\$54.33	\$11.50	\$15.60	\$0.00	\$81.43
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BARCO-TYPE JUMPING TAMPER <i>LABORERS - ZONE 2</i>	12/01/2018	\$33.77	\$7.85	\$14.44	\$0.00	\$56.06
	06/01/2019	\$34.64	\$7.85	\$14.44	\$0.00	\$56.93
	12/01/2019	\$35.50	\$7.85	\$14.44	\$0.00	\$57.79
	06/01/2020	\$36.39	\$7.85	\$14.44	\$0.00	\$58.68
	12/01/2020	\$37.28	\$7.85	\$14.44	\$0.00	\$59.57
	06/01/2021	\$38.20	\$7.85	\$14.44	\$0.00	\$60.49
	12/01/2021	\$39.11	\$7.85	\$14.44	\$0.00	\$61.40
For apprentice rates see "Apprentice- LABORER"						
BLOCK PAVER, RAMMER / CURB SETTER <i>LABORERS - ZONE 2</i>	12/01/2018	\$34.27	\$7.85	\$14.44	\$0.00	\$56.56
	06/01/2019	\$35.14	\$7.85	\$14.44	\$0.00	\$57.43
	12/01/2019	\$36.00	\$7.85	\$14.44	\$0.00	\$58.29
	06/01/2020	\$36.89	\$7.85	\$14.44	\$0.00	\$59.18
	12/01/2020	\$37.78	\$7.85	\$14.44	\$0.00	\$60.07
	06/01/2021	\$38.70	\$7.85	\$14.44	\$0.00	\$60.99
	12/01/2021	\$39.61	\$7.85	\$14.44	\$0.00	\$61.90
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
BOILER MAKER	01/01/2019	\$44.71	\$7.07	\$17.72	\$0.00	\$69.50
BOILERMAKERS LOCAL 29	01/01/2020	\$46.10	\$7.07	\$17.98	\$0.00	\$71.15

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	\$53.55	\$10.75	\$20.66	\$0.00	\$84.96
BRICKLAYERS LOCAL 3 (NEW BEDFORD)	08/01/2019	\$54.90	\$10.75	\$20.80	\$0.00	\$86.45
	02/01/2020	\$55.54	\$10.75	\$20.80	\$0.00	\$87.09
	08/01/2020	\$56.89	\$10.75	\$20.95	\$0.00	\$88.59
	02/01/2021	\$57.53	\$10.75	\$20.95	\$0.00	\$89.23
	08/01/2021	\$58.93	\$10.75	\$21.11	\$0.00	\$90.79
	02/01/2022	\$59.52	\$10.75	\$21.11	\$0.00	\$91.38

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
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Apprentice - BRICK/PLASTER/CEMENT MASON - Local 3 New Bedford

Effective Date - 02/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.78	\$10.75	\$20.66	\$0.00	\$58.19
2	60	\$32.13	\$10.75	\$20.66	\$0.00	\$63.54
3	70	\$37.49	\$10.75	\$20.66	\$0.00	\$68.90
4	80	\$42.84	\$10.75	\$20.66	\$0.00	\$74.25
5	90	\$48.20	\$10.75	\$20.66	\$0.00	\$79.61

Effective Date - 08/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$27.45	\$10.75	\$20.80	\$0.00	\$59.00
2	60	\$32.94	\$10.75	\$20.80	\$0.00	\$64.49
3	70	\$38.43	\$10.75	\$20.80	\$0.00	\$69.98
4	80	\$43.92	\$10.75	\$20.80	\$0.00	\$75.47
5	90	\$49.41	\$10.75	\$20.80	\$0.00	\$80.96

Notes:

Apprentice to Journeyworker Ratio:1:5

BULLDOZER/GRADER/SCRAPER	12/01/2018	\$47.10	\$11.50	\$15.60	\$0.00	\$74.20
OPERATING ENGINEERS LOCAL 4	06/01/2019	\$48.19	\$11.50	\$15.60	\$0.00	\$75.29
	12/01/2019	\$49.33	\$11.50	\$15.60	\$0.00	\$76.43
	06/01/2020	\$50.41	\$11.50	\$15.60	\$0.00	\$77.51
	12/01/2020	\$51.55	\$11.50	\$15.60	\$0.00	\$78.65
	06/01/2021	\$52.64	\$11.50	\$15.60	\$0.00	\$79.74
	12/01/2021	\$53.78	\$11.50	\$15.60	\$0.00	\$80.88

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

CAISSON & UNDERPINNING BOTTOM MAN	12/01/2018	\$39.75	\$7.85	\$15.55	\$0.00	\$63.15
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	12/01/2018	\$38.60	\$7.85	\$15.55	\$0.00	\$62.00
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
CAISSON & UNDERPINNING TOP MAN <i>LABORERS - FOUNDATION AND MARINE</i>	12/01/2018	\$38.60	\$7.85	\$15.55	\$0.00	\$62.00
	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"						
CARBIDE CORE DRILL OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2018	\$33.77	\$7.85	\$14.44	\$0.00	\$56.06
	06/01/2019	\$34.64	\$7.85	\$14.44	\$0.00	\$56.93
	12/01/2019	\$35.50	\$7.85	\$14.44	\$0.00	\$57.79
	06/01/2020	\$36.39	\$7.85	\$14.44	\$0.00	\$58.68
	12/01/2020	\$37.28	\$7.85	\$14.44	\$0.00	\$59.57
	06/01/2021	\$38.20	\$7.85	\$14.44	\$0.00	\$60.49
	12/01/2021	\$39.11	\$7.85	\$14.44	\$0.00	\$61.40
For apprentice rates see "Apprentice- LABORER"						
CARPENTER <i>CARPENTERS -ZONE 1 (Metro Boston)</i>	03/01/2019	\$49.84	\$9.90	\$17.50	\$0.00	\$77.24

Apprentice - CARPENTER - Zone 1 Metro Boston

Effective Date - 03/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.92	\$9.90	\$1.73	\$0.00	\$36.55
2	60	\$29.90	\$9.90	\$1.73	\$0.00	\$41.53
3	70	\$34.89	\$9.90	\$12.31	\$0.00	\$57.10
4	75	\$37.38	\$9.90	\$12.31	\$0.00	\$59.59
5	80	\$39.87	\$9.90	\$14.04	\$0.00	\$63.81
6	80	\$39.87	\$9.90	\$14.04	\$0.00	\$63.81
7	90	\$44.86	\$9.90	\$15.77	\$0.00	\$70.53
8	90	\$44.86	\$9.90	\$15.77	\$0.00	\$70.53

Notes:

% Indentured After 10/1/17; 45/45/55/55/70/70/80/80
Step 1&2 \$34.06/ 3&4 \$40.71/ 5&6 \$58.83/ 7&8 \$65.54

Apprentice to Journeyworker Ratio:1:5

CARPENTER WOOD FRAME <i>CARPENTERS -ZONE 1 (Wood Frame)</i>	04/01/2019	\$32.49	\$7.07	\$7.86	\$0.00	\$47.42
	10/01/2019	\$32.97	\$7.07	\$7.86	\$0.00	\$47.90
All Aspects of New Wood Frame Work						

Classification
Effective Date
Base Wage
Health
Pension
**Supplemental
Unemployment**
Total Rate
Apprentice - CARPENTER (Wood Frame) - Zone 1
Effective Date - 04/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$19.49	\$7.07	\$0.00	\$0.00	\$26.56
2	60	\$19.49	\$7.07	\$0.00	\$0.00	\$26.56
3	65	\$21.12	\$7.07	\$7.86	\$0.00	\$36.05
4	70	\$22.74	\$7.07	\$7.86	\$0.00	\$37.67
5	75	\$24.37	\$7.07	\$7.86	\$0.00	\$39.30
6	80	\$25.99	\$7.07	\$7.86	\$0.00	\$40.92
7	85	\$27.62	\$7.07	\$7.86	\$0.00	\$42.55
8	90	\$29.24	\$7.07	\$7.86	\$0.00	\$44.17

Effective Date - 10/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$19.78	\$7.07	\$0.00	\$0.00	\$26.85
2	60	\$19.78	\$7.07	\$0.00	\$0.00	\$26.85
3	65	\$21.43	\$7.07	\$7.86	\$0.00	\$36.36
4	70	\$23.08	\$7.07	\$7.86	\$0.00	\$38.01
5	75	\$24.73	\$7.07	\$7.86	\$0.00	\$39.66
6	80	\$26.38	\$7.07	\$7.86	\$0.00	\$41.31
7	85	\$28.02	\$7.07	\$7.86	\$0.00	\$42.95
8	90	\$29.67	\$7.07	\$7.86	\$0.00	\$44.60

Notes:

% Indentured After 10/1/17; 45/45/55/55/70/70/80/80
Step 1&2 \$21.69/ 3&4 \$29.69/ 5&6 \$37.67/ 7&8 \$40.92

Apprentice to Journeyworker Ratio:1:5

CEMENT MASONRY/PLASTERING
BRICKLAYERS LOCAL 3 (NEW BEDFORD)

01/01/2019	\$47.50	\$12.50	\$22.41	\$0.30	\$82.71
07/01/2019	\$48.24	\$12.50	\$22.41	\$0.30	\$83.45
01/01/2020	\$49.64	\$12.50	\$22.41	\$0.30	\$84.85

Classification
Effective Date
Base Wage
Health
Pension
**Supplemental
Unemployment**
Total Rate
Apprentice - CEMENT MASONRY/PLASTERING - Eastern Mass (New Bedford)
Effective Date - 01/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.75	\$12.50	\$15.41	\$0.00	\$51.66
2	60	\$28.50	\$12.50	\$17.41	\$0.30	\$58.71
3	65	\$30.88	\$12.50	\$18.41	\$0.30	\$62.09
4	70	\$33.25	\$12.50	\$19.41	\$0.30	\$65.46
5	75	\$35.63	\$12.50	\$20.41	\$0.30	\$68.84
6	80	\$38.00	\$12.50	\$21.41	\$0.30	\$72.21
7	90	\$42.75	\$12.50	\$22.41	\$0.30	\$77.96

Effective Date - 07/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.12	\$12.50	\$15.41	\$0.00	\$52.03
2	60	\$28.94	\$12.50	\$17.41	\$0.30	\$59.15
3	65	\$31.36	\$12.50	\$18.41	\$0.30	\$62.57
4	70	\$33.77	\$12.50	\$19.41	\$0.30	\$65.98
5	75	\$36.18	\$12.50	\$20.41	\$0.30	\$69.39
6	80	\$38.59	\$12.50	\$21.41	\$0.30	\$72.80
7	90	\$43.42	\$12.50	\$22.41	\$0.30	\$78.63

Notes:

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

Apprentice to Journeyworker Ratio:1:3

CHAIN SAW OPERATOR	12/01/2018	\$33.77	\$7.85	\$14.44	\$0.00	\$56.06
LABORERS - ZONE 2	06/01/2019	\$34.64	\$7.85	\$14.44	\$0.00	\$56.93
	12/01/2019	\$35.50	\$7.85	\$14.44	\$0.00	\$57.79
	06/01/2020	\$36.39	\$7.85	\$14.44	\$0.00	\$58.68
	12/01/2020	\$37.28	\$7.85	\$14.44	\$0.00	\$59.57
	06/01/2021	\$38.20	\$7.85	\$14.44	\$0.00	\$60.49
	12/01/2021	\$39.11	\$7.85	\$14.44	\$0.00	\$61.40
For apprentice rates see "Apprentice- LABORER"						
CLAM SHELLS/SLURRY BUCKETS/HEADING MACHINES	12/01/2018	\$48.58	\$11.50	\$15.60	\$0.00	\$75.68
OPERATING ENGINEERS LOCAL 4	06/01/2019	\$49.68	\$11.50	\$15.60	\$0.00	\$76.78
	12/01/2019	\$50.83	\$11.50	\$15.60	\$0.00	\$77.93
	06/01/2020	\$51.93	\$11.50	\$15.60	\$0.00	\$79.03
	12/01/2020	\$53.08	\$11.50	\$15.60	\$0.00	\$80.18
	06/01/2021	\$54.18	\$11.50	\$15.60	\$0.00	\$81.28
	12/01/2021	\$55.33	\$11.50	\$15.60	\$0.00	\$82.43
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
COMPRESSOR OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2018	\$32.03	\$11.50	\$15.60	\$0.00	\$59.13
	06/01/2019	\$32.78	\$11.50	\$15.60	\$0.00	\$59.88
	12/01/2019	\$33.57	\$11.50	\$15.60	\$0.00	\$60.67
	06/01/2020	\$34.32	\$11.50	\$15.60	\$0.00	\$61.42
	12/01/2020	\$35.10	\$11.50	\$15.60	\$0.00	\$62.20
	06/01/2021	\$35.85	\$11.50	\$15.60	\$0.00	\$62.95
	12/01/2021	\$36.64	\$11.50	\$15.60	\$0.00	\$63.74

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

DELEADER (BRIDGE) <i>PAINTERS LOCAL 35 - ZONE 2</i>	01/01/2019	\$50.36	\$8.15	\$20.85	\$0.00	\$79.36
	07/01/2019	\$51.46	\$8.15	\$20.85	\$0.00	\$80.46
	01/01/2020	\$52.56	\$8.15	\$20.85	\$0.00	\$81.56
	07/01/2020	\$53.66	\$8.15	\$20.85	\$0.00	\$82.66
	01/01/2021	\$54.76	\$8.15	\$20.85	\$0.00	\$83.76

Apprentice - PAINTER Local 35 - BRIDGES/TANKS

Effective Date - 01/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.18	\$8.15	\$0.00	\$0.00	\$33.33
2	55	\$27.70	\$8.15	\$5.64	\$0.00	\$41.49
3	60	\$30.22	\$8.15	\$6.15	\$0.00	\$44.52
4	65	\$32.73	\$8.15	\$6.66	\$0.00	\$47.54
5	70	\$35.25	\$8.15	\$17.78	\$0.00	\$61.18
6	75	\$37.77	\$8.15	\$18.29	\$0.00	\$64.21
7	80	\$40.29	\$8.15	\$18.80	\$0.00	\$67.24
8	90	\$45.32	\$8.15	\$19.83	\$0.00	\$73.30

Effective Date - 07/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.73	\$8.15	\$0.00	\$0.00	\$33.88
2	55	\$28.30	\$8.15	\$5.64	\$0.00	\$42.09
3	60	\$30.88	\$8.15	\$6.15	\$0.00	\$45.18
4	65	\$33.45	\$8.15	\$6.66	\$0.00	\$48.26
5	70	\$36.02	\$8.15	\$17.78	\$0.00	\$61.95
6	75	\$38.60	\$8.15	\$18.29	\$0.00	\$65.04
7	80	\$41.17	\$8.15	\$18.80	\$0.00	\$68.12
8	90	\$46.31	\$8.15	\$19.83	\$0.00	\$74.29

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

DEMO: ADZEMAN <i>LABORERS - ZONE 2</i>	12/01/2018	\$38.80	\$7.85	\$15.35	\$0.00	\$62.00
	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
DEMO: BACKHOE/LOADER/HAMMER OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2018	\$39.80	\$7.85	\$15.35	\$0.00	\$63.00
	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 <i>LABORERS - ZONE 2</i>	12/01/2018	\$39.55	\$7.85	\$15.35	\$0.00	\$62.75
	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 <i>LABORERS - ZONE 2</i>	12/01/2018	\$39.80	\$7.85	\$15.35	\$0.00	\$63.00
	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 <i>LABORERS - ZONE 2</i>	12/01/2018	\$39.55	\$7.85	\$15.35	\$0.00	\$62.75
	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 <i>LABORERS - ZONE 2</i>	12/01/2018	\$38.80	\$7.85	\$15.35	\$0.00	\$62.00
	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"						
DIRECTIONAL DRILL MACHINE OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2018	\$47.10	\$11.50	\$15.60	\$0.00	\$74.20
	06/01/2019	\$48.19	\$11.50	\$15.60	\$0.00	\$75.29
	12/01/2019	\$49.33	\$11.50	\$15.60	\$0.00	\$76.43
	06/01/2020	\$50.41	\$11.50	\$15.60	\$0.00	\$77.51
	12/01/2020	\$51.55	\$11.50	\$15.60	\$0.00	\$78.65
	06/01/2021	\$52.64	\$11.50	\$15.60	\$0.00	\$79.74
	12/01/2021	\$53.78	\$11.50	\$15.60	\$0.00	\$80.88
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
DIVER <i>PILE DRIVER LOCAL 56 (ZONE 1)</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 1)</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 1)</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 1)</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 <i>ELECTRICIANS LOCAL 223</i>	03/01/2019	\$41.64	\$9.90	\$13.15	\$0.00	\$64.69
	09/01/2019	\$42.26	\$10.15	\$13.54	\$0.00	\$65.95
	03/01/2020	\$42.87	\$10.40	\$13.94	\$0.00	\$67.21

Classification

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

Apprentice - *ELECTRICIAN - Local 223*

Effective Date - 03/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$16.66	\$9.90	\$0.50	\$0.00	\$27.06
2	42	\$17.49	\$9.90	\$0.52	\$0.00	\$27.91
3	45	\$18.74	\$9.90	\$0.58	\$0.00	\$29.22
4	48	\$19.99	\$9.90	\$4.64	\$0.00	\$34.53
5	50	\$20.82	\$9.90	\$4.68	\$0.00	\$35.40
6	55	\$22.90	\$9.90	\$5.04	\$0.00	\$37.84
7	60	\$24.98	\$9.90	\$5.34	\$0.00	\$40.22
8	65	\$27.07	\$9.90	\$5.64	\$0.00	\$42.61
9	70	\$29.15	\$9.90	\$5.93	\$0.00	\$44.98
10	75	\$31.23	\$9.90	\$6.18	\$0.00	\$47.31

Effective Date - 09/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$16.90	\$10.15	\$0.51	\$0.00	\$27.56
2	42	\$17.75	\$10.15	\$0.53	\$0.00	\$28.43
3	45	\$19.02	\$10.15	\$0.57	\$0.00	\$29.74
4	48	\$20.28	\$10.15	\$4.93	\$0.00	\$35.36
5	50	\$21.13	\$10.15	\$4.97	\$0.00	\$36.25
6	55	\$23.24	\$10.15	\$5.33	\$0.00	\$38.72
7	60	\$25.36	\$10.15	\$5.64	\$0.00	\$41.15
8	65	\$27.47	\$10.15	\$5.94	\$0.00	\$43.56
9	70	\$29.58	\$10.15	\$6.25	\$0.00	\$45.98
10	75	\$31.70	\$10.15	\$6.50	\$0.00	\$48.35

Notes:

Steps are 750 hours

Apprentice to Journeyworker Ratio:2:3***

ELEVATOR CONSTRUCTOR	01/01/2019	\$59.47	\$15.58	\$17.51	\$0.00	\$92.56
ELEVATOR CONSTRUCTORS LOCAL 4	01/01/2020	\$61.42	\$15.73	\$18.41	\$0.00	\$95.56
	01/01/2021	\$63.47	\$15.88	\$19.31	\$0.00	\$98.66
	01/01/2022	\$65.62	\$16.03	\$20.21	\$0.00	\$101.86

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
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Apprentice - ELEVATOR CONSTRUCTOR - Local 4

Effective Date - 01/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$29.74	\$15.58	\$0.00	\$0.00	\$45.32
2	55	\$32.71	\$15.58	\$17.51	\$0.00	\$65.80
3	65	\$38.66	\$15.58	\$17.51	\$0.00	\$71.75
4	70	\$41.63	\$15.58	\$17.51	\$0.00	\$74.72
5	80	\$47.58	\$15.58	\$17.51	\$0.00	\$80.67

Effective Date - 01/01/2020

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$30.71	\$15.73	\$0.00	\$0.00	\$46.44
2	55	\$33.78	\$15.73	\$18.41	\$0.00	\$67.92
3	65	\$39.92	\$15.73	\$18.41	\$0.00	\$74.06
4	70	\$42.99	\$15.73	\$18.41	\$0.00	\$77.13
5	80	\$49.14	\$15.73	\$18.41	\$0.00	\$83.28

Notes:

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

Apprentice to Journeyworker Ratio:1:1

ELEVATOR CONSTRUCTOR HELPER	01/01/2019	\$41.63	\$15.58	\$17.51	\$0.00	\$74.72
ELEVATOR CONSTRUCTORS LOCAL 4	01/01/2020	\$42.99	\$15.73	\$18.41	\$0.00	\$77.13
	01/01/2021	\$44.43	\$15.88	\$19.31	\$0.00	\$79.62
	01/01/2022	\$45.93	\$16.03	\$20.21	\$0.00	\$82.17

For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"

FENCE & GUARD RAIL ERECTOR	12/01/2018	\$33.77	\$7.85	\$14.44	\$0.00	\$56.06
LABORERS - ZONE 2	06/01/2019	\$34.64	\$7.85	\$14.44	\$0.00	\$56.93
	12/01/2019	\$35.50	\$7.85	\$14.44	\$0.00	\$57.79
	06/01/2020	\$36.39	\$7.85	\$14.44	\$0.00	\$58.68
	12/01/2020	\$37.28	\$7.85	\$14.44	\$0.00	\$59.57
	06/01/2021	\$38.20	\$7.85	\$14.44	\$0.00	\$60.49
	12/01/2021	\$39.11	\$7.85	\$14.44	\$0.00	\$61.40

For apprentice rates see "Apprentice- LABORER"

FIELD ENG.INST.PERSON-BLDG,SITE,HVY/HWY	05/01/2019	\$43.68	\$11.50	\$15.60	\$0.00	\$70.78
OPERATING ENGINEERS LOCAL 4	11/01/2019	\$44.68	\$11.50	\$15.60	\$0.00	\$71.78
	05/01/2020	\$45.83	\$11.50	\$15.60	\$0.00	\$72.93
	11/01/2020	\$46.83	\$11.50	\$15.60	\$0.00	\$73.93
	05/01/2021	\$47.98	\$11.50	\$15.60	\$0.00	\$75.08
	11/01/2021	\$48.98	\$11.50	\$15.60	\$0.00	\$76.08
	05/01/2022	\$50.13	\$11.50	\$15.60	\$0.00	\$77.23

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
FIELD ENG.PARTY CHIEF-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	05/01/2019	\$45.17	\$11.50	\$15.60	\$0.00	\$72.27
	11/01/2019	\$46.18	\$11.50	\$15.60	\$0.00	\$73.28
	05/01/2020	\$47.33	\$11.50	\$15.60	\$0.00	\$74.43
	11/01/2020	\$48.34	\$11.50	\$15.60	\$0.00	\$75.44
	05/01/2021	\$49.50	\$11.50	\$15.60	\$0.00	\$76.60
	11/01/2021	\$50.51	\$11.50	\$15.60	\$0.00	\$77.61
	05/01/2022	\$51.67	\$11.50	\$15.60	\$0.00	\$78.77
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FIELD ENG.ROD PERSON-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 4</i>	05/01/2019	\$22.48	\$11.50	\$15.60	\$0.00	\$49.58
	11/01/2019	\$23.07	\$11.50	\$15.60	\$0.00	\$50.17
	05/01/2020	\$23.74	\$11.50	\$15.60	\$0.00	\$50.84
	11/01/2020	\$24.33	\$11.50	\$15.60	\$0.00	\$51.43
	05/01/2021	\$25.01	\$11.50	\$15.60	\$0.00	\$52.11
	11/01/2021	\$25.61	\$11.50	\$15.60	\$0.00	\$52.71
	05/01/2022	\$26.28	\$11.50	\$15.60	\$0.00	\$53.38
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FIRE ALARM INSTALLER <i>ELECTRICIANS LOCAL 223</i>	03/01/2019	\$41.64	\$9.90	\$13.15	\$0.00	\$64.69
	09/01/2019	\$42.26	\$10.15	\$13.54	\$0.00	\$65.95
	03/01/2020	\$42.87	\$10.40	\$13.94	\$0.00	\$67.21
For apprentice rates see "Apprentice- ELECTRICIAN"						
FIRE ALARM REPAIR / MAINTENANCE / COMMISSIONING <i>ELECTRICIANS</i> <i>LOCAL 223</i>	03/01/2019	\$35.25	\$9.90	\$11.14	\$0.00	\$56.29
	09/01/2019	\$35.78	\$10.15	\$11.45	\$0.00	\$57.38
	03/01/2020	\$36.27	\$10.40	\$11.78	\$0.00	\$58.45
For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"						
FIREMAN (ASST. ENGINEER) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2018	\$39.13	\$11.50	\$15.60	\$0.00	\$66.23
	06/01/2019	\$40.04	\$11.50	\$15.60	\$0.00	\$67.14
	12/01/2019	\$40.99	\$11.50	\$15.60	\$0.00	\$68.09
	06/01/2020	\$41.90	\$11.50	\$15.60	\$0.00	\$69.00
	12/01/2020	\$42.85	\$11.50	\$15.60	\$0.00	\$69.95
	06/01/2021	\$43.76	\$11.50	\$15.60	\$0.00	\$70.86
	12/01/2021	\$44.71	\$11.50	\$15.60	\$0.00	\$71.81
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
FLAGGER & SIGNALER <i>LABORERS - ZONE 2</i>	12/01/2018	\$22.50	\$7.85	\$14.44	\$0.00	\$44.79
	06/01/2019	\$22.50	\$7.85	\$14.44	\$0.00	\$44.79
	12/01/2019	\$23.50	\$7.85	\$14.44	\$0.00	\$45.79
	06/01/2020	\$23.50	\$7.85	\$14.44	\$0.00	\$45.79
	12/01/2020	\$24.50	\$7.85	\$14.44	\$0.00	\$46.79
	06/01/2021	\$24.50	\$7.85	\$14.44	\$0.00	\$46.79
	12/01/2021	\$24.50	\$7.85	\$14.44	\$0.00	\$46.79
For apprentice rates see "Apprentice- LABORER"						
FLOORCOVERER <i>FLOORCOVERERS LOCAL 2168 ZONE 1</i>	03/01/2016	\$42.13	\$9.80	\$17.62	\$0.00	\$69.55

Classification
Effective Date
Base Wage
Health
Pension
**Supplemental
Unemployment**
Total Rate
Apprentice - FLOORCOVERER - Local 2168 Zone I
Effective Date - 03/01/2016

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.07	\$9.80	\$1.79	\$0.00	\$32.66
2	55	\$23.17	\$9.80	\$1.79	\$0.00	\$34.76
3	60	\$25.28	\$9.80	\$12.25	\$0.00	\$47.33
4	65	\$27.38	\$9.80	\$12.25	\$0.00	\$49.43
5	70	\$29.49	\$9.80	\$14.04	\$0.00	\$53.33
6	75	\$31.60	\$9.80	\$14.04	\$0.00	\$55.44
7	80	\$33.70	\$9.80	\$15.83	\$0.00	\$59.33
8	85	\$35.81	\$9.80	\$15.83	\$0.00	\$61.44

Notes: Steps are 750 hrs.

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

Step 1&2 \$30.55/ 3&4 \$36.49/ 5&6 \$53.33/ 7&8 \$59.33

Apprentice to Journeyworker Ratio:1:1

FORK LIFT/CHERRY PICKER	12/01/2018	\$47.58	\$11.50	\$15.60	\$0.00	\$74.68
OPERATING ENGINEERS LOCAL 4	06/01/2019	\$48.68	\$11.50	\$15.60	\$0.00	\$75.78
	12/01/2019	\$49.83	\$11.50	\$15.60	\$0.00	\$76.93
	06/01/2020	\$50.93	\$11.50	\$15.60	\$0.00	\$78.03
	12/01/2020	\$52.08	\$11.50	\$15.60	\$0.00	\$79.18
	06/01/2021	\$53.18	\$11.50	\$15.60	\$0.00	\$80.28
	12/01/2021	\$54.33	\$11.50	\$15.60	\$0.00	\$81.43

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

GENERATOR/LIGHTING PLANT/HEATERS	12/01/2018	\$32.03	\$11.50	\$15.60	\$0.00	\$59.13
OPERATING ENGINEERS LOCAL 4	06/01/2019	\$32.78	\$11.50	\$15.60	\$0.00	\$59.88
	12/01/2019	\$33.57	\$11.50	\$15.60	\$0.00	\$60.67
	06/01/2020	\$34.32	\$11.50	\$15.60	\$0.00	\$61.42
	12/01/2020	\$35.10	\$11.50	\$15.60	\$0.00	\$62.20
	06/01/2021	\$35.85	\$11.50	\$15.60	\$0.00	\$62.95
	12/01/2021	\$36.64	\$11.50	\$15.60	\$0.00	\$63.74

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS)	06/01/2018	\$37.18	\$10.40	\$9.35	\$0.00	\$56.93
GLAZIERS LOCAL 1333	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 - 06/01/2018

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

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

Notes:
Apprentice to Journeyworker Ratio:1:3

HOISTING ENGINEER/CRANES/GRADALLS	12/01/2018	\$47.58	\$11.50	\$15.60	\$0.00	\$74.68
OPERATING ENGINEERS LOCAL 4	06/01/2019	\$48.68	\$11.50	\$15.60	\$0.00	\$75.78
	12/01/2019	\$49.83	\$11.50	\$15.60	\$0.00	\$76.93
	06/01/2020	\$50.93	\$11.50	\$15.60	\$0.00	\$78.03
	12/01/2020	\$52.08	\$11.50	\$15.60	\$0.00	\$79.18
	06/01/2021	\$53.18	\$11.50	\$15.60	\$0.00	\$80.28
	12/01/2021	\$54.33	\$11.50	\$15.60	\$0.00	\$81.43

Apprentice - OPERATING ENGINEERS - Local 4

Effective Date - 12/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$26.17	\$11.50	\$0.00	\$0.00	\$37.67
2	60	\$28.55	\$11.50	\$15.60	\$0.00	\$55.65
3	65	\$30.93	\$11.50	\$15.60	\$0.00	\$58.03
4	70	\$33.31	\$11.50	\$15.60	\$0.00	\$60.41
5	75	\$35.69	\$11.50	\$15.60	\$0.00	\$62.79
6	80	\$38.06	\$11.50	\$15.60	\$0.00	\$65.16
7	85	\$40.44	\$11.50	\$15.60	\$0.00	\$67.54
8	90	\$42.82	\$11.50	\$15.60	\$0.00	\$69.92

Effective Date - 06/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$26.77	\$11.50	\$0.00	\$0.00	\$38.27
2	60	\$29.21	\$11.50	\$15.60	\$0.00	\$56.31
3	65	\$31.64	\$11.50	\$15.60	\$0.00	\$58.74
4	70	\$34.08	\$11.50	\$15.60	\$0.00	\$61.18
5	75	\$36.51	\$11.50	\$15.60	\$0.00	\$63.61
6	80	\$38.94	\$11.50	\$15.60	\$0.00	\$66.04
7	85	\$41.38	\$11.50	\$15.60	\$0.00	\$68.48
8	90	\$43.81	\$11.50	\$15.60	\$0.00	\$70.91

Notes:

Apprentice to Journeyworker Ratio:1:6

HVAC (DUCTWORK) SHEETMETAL WORKERS LOCAL 17 - B	04/01/2019	\$34.71	\$13.20	\$16.55	\$1.93	\$66.39
For apprentice rates see "Apprentice- SHEET METAL WORKER"						
HVAC (ELECTRICAL CONTROLS) ELECTRICIANS LOCAL 223	03/01/2019	\$41.64	\$9.90	\$13.15	\$0.00	\$64.69
	09/01/2019	\$42.26	\$10.15	\$13.54	\$0.00	\$65.95
	03/01/2020	\$42.87	\$10.40	\$13.94	\$0.00	\$67.21
For apprentice rates see "Apprentice- ELECTRICIAN"						
HVAC (TESTING AND BALANCING - AIR) SHEETMETAL WORKERS LOCAL 17 - B	04/01/2019	\$34.71	\$13.20	\$16.55	\$1.93	\$66.39
For apprentice rates see "Apprentice- SHEET METAL WORKER"						
HVAC (TESTING AND BALANCING -WATER) PLUMBERS & PIPEFITTERS LOCAL 51	09/01/2018	\$42.04	\$10.00	\$18.20	\$0.00	\$70.24
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						
HVAC MECHANIC PLUMBERS & PIPEFITTERS LOCAL 51	09/01/2018	\$42.04	\$10.00	\$18.20	\$0.00	\$70.24
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
HYDRAULIC DRILLS <i>LABORERS - ZONE 2</i>	12/01/2018	\$34.27	\$7.85	\$14.44	\$0.00	\$56.56
	06/01/2019	\$35.14	\$7.85	\$14.44	\$0.00	\$57.43
	12/01/2019	\$36.00	\$7.85	\$14.44	\$0.00	\$58.29
	06/01/2020	\$36.89	\$7.85	\$14.44	\$0.00	\$59.18
	12/01/2020	\$37.78	\$7.85	\$14.44	\$0.00	\$60.07
	06/01/2021	\$38.70	\$7.85	\$14.44	\$0.00	\$60.99
	12/01/2021	\$39.61	\$7.85	\$14.44	\$0.00	\$61.90
For apprentice rates see "Apprentice- LABORER"						
INSULATOR (PIPES & TANKS) <i>HEAT & FROST INSULATORS LOCAL 6 (SOUTHERN MASS)</i>	09/01/2018	\$42.38	\$12.50	\$15.60	\$0.00	\$70.48
	09/01/2019	\$44.63	\$12.50	\$15.60	\$0.00	\$72.73

Apprentice - ASBESTOS INSULATOR (Pipes & Tanks) - Local 6 Southern MA

Effective Date - 09/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.19	\$12.50	\$11.40	\$0.00	\$45.09
2	60	\$25.43	\$12.50	\$12.24	\$0.00	\$50.17
3	70	\$29.67	\$12.50	\$13.08	\$0.00	\$55.25
4	80	\$33.90	\$12.50	\$13.92	\$0.00	\$60.32

Effective Date - 09/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$22.32	\$12.50	\$11.40	\$0.00	\$46.22
2	60	\$26.78	\$12.50	\$12.24	\$0.00	\$51.52
3	70	\$31.24	\$12.50	\$13.08	\$0.00	\$56.82
4	80	\$35.70	\$12.50	\$13.92	\$0.00	\$62.12

Notes:

Steps are 1 year

Apprentice to Journeyworker Ratio:1:4

IRONWORKER/WELDER <i>IRONWORKERS LOCAL 37</i>	03/16/2019	\$38.81	\$7.70	\$17.10	\$0.00	\$63.61
	09/16/2019	\$39.71	\$7.70	\$17.10	\$0.00	\$64.51
	03/16/2020	\$40.61	\$7.70	\$17.10	\$0.00	\$65.41
	09/16/2020	\$41.51	\$7.70	\$17.10	\$0.00	\$66.31
	03/16/2021	\$42.46	\$7.70	\$17.10	\$0.00	\$67.26

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - IRONWORKER - Local 37
Effective Date - 03/16/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	70	\$27.17	\$7.70	\$17.10	\$0.00	\$51.97
2	75	\$29.11	\$7.70	\$17.10	\$0.00	\$53.91
3	80	\$31.05	\$7.70	\$17.10	\$0.00	\$55.85
4	85	\$32.99	\$7.70	\$17.10	\$0.00	\$57.79
5	90	\$34.93	\$7.70	\$17.10	\$0.00	\$59.73
6	95	\$36.87	\$7.70	\$17.10	\$0.00	\$61.67

Effective Date - 09/16/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	70	\$27.80	\$7.70	\$17.10	\$0.00	\$52.60
2	75	\$29.78	\$7.70	\$17.10	\$0.00	\$54.58
3	80	\$31.77	\$7.70	\$17.10	\$0.00	\$56.57
4	85	\$33.75	\$7.70	\$17.10	\$0.00	\$58.55
5	90	\$35.74	\$7.70	\$17.10	\$0.00	\$60.54
6	95	\$37.72	\$7.70	\$17.10	\$0.00	\$62.52

Notes:
Apprentice to Journeyworker Ratio:1:4

JACKHAMMER & PAVING BREAKER OPERATOR	12/01/2018	\$33.77	\$7.85	\$14.44	\$0.00	\$56.06
LABORERS - ZONE 2	06/01/2019	\$34.64	\$7.85	\$14.44	\$0.00	\$56.93
	12/01/2019	\$35.50	\$7.85	\$14.44	\$0.00	\$57.79
	06/01/2020	\$36.39	\$7.85	\$14.44	\$0.00	\$58.68
	12/01/2020	\$37.28	\$7.85	\$14.44	\$0.00	\$59.57
	06/01/2021	\$38.20	\$7.85	\$14.44	\$0.00	\$60.49
	12/01/2021	\$39.11	\$7.85	\$14.44	\$0.00	\$61.40

For apprentice rates see "Apprentice- LABORER"

LABORER	12/01/2018	\$33.52	\$7.85	\$14.44	\$0.00	\$55.81
LABORERS - ZONE 2	06/01/2019	\$34.39	\$7.85	\$14.44	\$0.00	\$56.68
	12/01/2019	\$35.25	\$7.85	\$14.44	\$0.00	\$57.54
	06/01/2020	\$36.14	\$7.85	\$14.44	\$0.00	\$58.43
	12/01/2020	\$37.03	\$7.85	\$14.44	\$0.00	\$59.32
	06/01/2021	\$37.95	\$7.85	\$14.44	\$0.00	\$60.24
	12/01/2021	\$38.86	\$7.85	\$14.44	\$0.00	\$61.15

Apprentice - *LABORER - Zone 2*

Effective Date - 12/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$20.11	\$7.85	\$14.44	\$0.00	\$42.40
2	70	\$23.46	\$7.85	\$14.44	\$0.00	\$45.75
3	80	\$26.82	\$7.85	\$14.44	\$0.00	\$49.11
4	90	\$30.17	\$7.85	\$14.44	\$0.00	\$52.46

Effective Date - 06/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$20.63	\$7.85	\$14.44	\$0.00	\$42.92
2	70	\$24.07	\$7.85	\$14.44	\$0.00	\$46.36
3	80	\$27.51	\$7.85	\$14.44	\$0.00	\$49.80
4	90	\$30.95	\$7.85	\$14.44	\$0.00	\$53.24

Notes:

Apprentice to Journeyworker Ratio:1:5

LABORER: CARPENTER TENDER <i>LABORERS - ZONE 2</i>	12/01/2018	\$33.52	\$7.85	\$14.44	\$0.00	\$55.81
	06/01/2019	\$34.39	\$7.85	\$14.44	\$0.00	\$56.68
	12/01/2019	\$35.25	\$7.85	\$14.44	\$0.00	\$57.54
	06/01/2020	\$36.14	\$7.85	\$14.44	\$0.00	\$58.43
	12/01/2020	\$37.03	\$7.85	\$14.44	\$0.00	\$59.32
	06/01/2021	\$37.95	\$7.85	\$14.44	\$0.00	\$60.24
	12/01/2021	\$38.86	\$7.85	\$14.44	\$0.00	\$61.15
For apprentice rates see "Apprentice- LABORER"						
LABORER: CEMENT FINISHER TENDER <i>LABORERS - ZONE 2</i>	12/01/2018	\$33.52	\$7.85	\$14.44	\$0.00	\$55.81
	06/01/2019	\$34.39	\$7.85	\$14.44	\$0.00	\$56.68
	12/01/2019	\$35.25	\$7.85	\$14.44	\$0.00	\$57.54
	06/01/2020	\$36.14	\$7.85	\$14.44	\$0.00	\$58.43
	12/01/2020	\$37.03	\$7.85	\$14.44	\$0.00	\$59.32
	06/01/2021	\$37.95	\$7.85	\$14.44	\$0.00	\$60.24
	12/01/2021	\$38.86	\$7.85	\$14.44	\$0.00	\$61.15
For apprentice rates see "Apprentice- LABORER"						
LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER <i>LABORERS - ZONE 2</i>	12/01/2018	\$33.72	\$7.85	\$14.39	\$0.00	\$55.96
	06/01/2019	\$34.59	\$7.85	\$14.39	\$0.00	\$56.83
	12/01/2019	\$35.45	\$7.85	\$14.39	\$0.00	\$57.69
For apprentice rates see "Apprentice- LABORER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LABORER: MASON TENDER <i>LABORERS - ZONE 2</i>	12/01/2018	\$33.77	\$7.85	\$14.44	\$0.00	\$56.06
	06/01/2019	\$34.64	\$7.85	\$14.44	\$0.00	\$56.93
	12/01/2019	\$35.50	\$7.85	\$14.44	\$0.00	\$57.79
	06/01/2020	\$36.39	\$7.85	\$14.44	\$0.00	\$58.68
	12/01/2020	\$37.28	\$7.85	\$14.44	\$0.00	\$59.57
	06/01/2021	\$38.20	\$7.85	\$14.44	\$0.00	\$60.49
	12/01/2021	\$39.11	\$7.85	\$14.44	\$0.00	\$61.40
For apprentice rates see "Apprentice- LABORER"						
LABORER: MULTI-TRADE TENDER <i>LABORERS - ZONE 2</i>	12/01/2018	\$33.52	\$7.85	\$14.44	\$0.00	\$55.81
	06/01/2019	\$34.39	\$7.85	\$14.44	\$0.00	\$56.68
	12/01/2019	\$35.25	\$7.85	\$14.44	\$0.00	\$57.54
	06/01/2020	\$36.14	\$7.85	\$14.44	\$0.00	\$58.43
	12/01/2020	\$37.03	\$7.85	\$14.44	\$0.00	\$59.32
	06/01/2021	\$37.95	\$7.85	\$14.44	\$0.00	\$60.24
	12/01/2021	\$38.86	\$7.85	\$14.44	\$0.00	\$61.15
For apprentice rates see "Apprentice- LABORER"						
LABORER: TREE REMOVER <i>LABORERS - ZONE 2</i>	12/01/2018	\$33.52	\$7.85	\$14.44	\$0.00	\$55.81
	06/01/2019	\$34.39	\$7.85	\$14.44	\$0.00	\$56.68
	12/01/2019	\$35.25	\$7.85	\$14.44	\$0.00	\$57.54
	06/01/2020	\$36.14	\$7.85	\$14.44	\$0.00	\$58.43
	12/01/2020	\$37.03	\$7.85	\$14.44	\$0.00	\$59.32
	06/01/2021	\$37.95	\$7.85	\$14.44	\$0.00	\$60.24
	12/01/2021	\$38.86	\$7.85	\$14.44	\$0.00	\$61.15
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 2</i>	12/01/2018	\$33.77	\$7.85	\$14.44	\$0.00	\$56.06
	06/01/2019	\$34.64	\$7.85	\$14.44	\$0.00	\$56.93
	12/01/2019	\$35.50	\$7.85	\$14.44	\$0.00	\$57.79
	06/01/2020	\$36.39	\$7.85	\$14.44	\$0.00	\$58.68
	12/01/2020	\$37.28	\$7.85	\$14.44	\$0.00	\$59.57
	06/01/2021	\$38.20	\$7.85	\$14.44	\$0.00	\$60.49
	12/01/2021	\$39.11	\$7.85	\$14.44	\$0.00	\$61.40
For apprentice rates see "Apprentice- LABORER"						
MARBLE & TILE FINISHERS <i>BRICKLAYERS LOCAL 3 - MARBLE & TILE</i>	02/01/2019	\$40.91	\$10.75	\$18.97	\$0.00	\$70.63
	08/01/2019	\$41.99	\$10.75	\$19.11	\$0.00	\$71.85
	02/01/2020	\$42.50	\$10.75	\$19.11	\$0.00	\$72.36
	08/01/2020	\$43.58	\$10.75	\$19.26	\$0.00	\$73.59
	02/01/2021	\$44.09	\$10.75	\$19.26	\$0.00	\$74.10
	08/01/2021	\$45.21	\$10.75	\$19.42	\$0.00	\$75.38
	02/01/2022	\$45.68	\$10.75	\$19.42	\$0.00	\$75.85

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - MARBLE & TILE FINISHER - Local 3 Marble & Tile

Effective Date - 02/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.46	\$10.75	\$18.97	\$0.00	\$50.18
2	60	\$24.55	\$10.75	\$18.97	\$0.00	\$54.27
3	70	\$28.64	\$10.75	\$18.97	\$0.00	\$58.36
4	80	\$32.73	\$10.75	\$18.97	\$0.00	\$62.45
5	90	\$36.82	\$10.75	\$18.97	\$0.00	\$66.54

Effective Date - 08/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.00	\$10.75	\$19.11	\$0.00	\$50.86
2	60	\$25.19	\$10.75	\$19.11	\$0.00	\$55.05
3	70	\$29.39	\$10.75	\$19.11	\$0.00	\$59.25
4	80	\$33.59	\$10.75	\$19.11	\$0.00	\$63.45
5	90	\$37.79	\$10.75	\$19.11	\$0.00	\$67.65

Notes:

Apprentice to Journeyworker Ratio:1:3

MARBLE MASONS,TILELAYERS & TERRAZZO MECH	02/01/2019	\$53.57	\$10.75	\$20.66	\$0.00	\$84.98
BRICKLAYERS LOCAL 3 - MARBLE & TILE	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 - MARBLE-TILE-TERRAZZO MECHANIC - Local 3 Marble & Tile

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

MECH. SWEEPER OPERATOR (ON CONST. SITES)	12/01/2018	\$47.10	\$11.50	\$15.60	\$0.00	\$74.20
OPERATING ENGINEERS LOCAL 4	06/01/2019	\$48.19	\$11.50	\$15.60	\$0.00	\$75.29
	12/01/2019	\$49.33	\$11.50	\$15.60	\$0.00	\$76.43
	06/01/2020	\$50.41	\$11.50	\$15.60	\$0.00	\$77.51
	12/01/2020	\$51.55	\$11.50	\$15.60	\$0.00	\$78.65
	06/01/2021	\$52.64	\$11.50	\$15.60	\$0.00	\$79.74
	12/01/2021	\$53.78	\$11.50	\$15.60	\$0.00	\$80.88

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

MECHANICS MAINTENANCE	12/01/2018	\$47.10	\$11.50	\$15.60	\$0.00	\$74.20
OPERATING ENGINEERS LOCAL 4	06/01/2019	\$48.19	\$11.50	\$15.60	\$0.00	\$75.29
	12/01/2019	\$49.33	\$11.50	\$15.60	\$0.00	\$76.43
	06/01/2020	\$50.41	\$11.50	\$15.60	\$0.00	\$77.51
	12/01/2020	\$51.55	\$11.50	\$15.60	\$0.00	\$78.65
	06/01/2021	\$52.64	\$11.50	\$15.60	\$0.00	\$79.74
	12/01/2021	\$53.78	\$11.50	\$15.60	\$0.00	\$80.88

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

MILLWRIGHT (Zone 2)	04/01/2019	\$38.87	\$9.90	\$18.50	\$0.00	\$67.27
MILLWRIGHTS LOCAL 1121 - Zone 2						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
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Apprentice - MILLWRIGHT - Local 1121 Zone 2

Effective Date - 04/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	55	\$21.38	\$9.90	\$5.31	\$0.00	\$36.59
2	65	\$25.27	\$9.90	\$15.13	\$0.00	\$50.30
3	75	\$29.15	\$9.90	\$16.10	\$0.00	\$55.15
4	85	\$33.04	\$9.90	\$17.06	\$0.00	\$60.00

Notes:

Steps are 2,000 hours

Apprentice to Journeyworker Ratio:1:5

MORTAR MIXER LABORERS - ZONE 2	12/01/2018	\$33.77	\$7.85	\$14.44	\$0.00	\$56.06
	06/01/2019	\$34.64	\$7.85	\$14.44	\$0.00	\$56.93
	12/01/2019	\$35.50	\$7.85	\$14.44	\$0.00	\$57.79
	06/01/2020	\$36.39	\$7.85	\$14.44	\$0.00	\$58.68
	12/01/2020	\$37.28	\$7.85	\$14.44	\$0.00	\$59.57
	06/01/2021	\$38.20	\$7.85	\$14.44	\$0.00	\$60.49
	12/01/2021	\$39.11	\$7.85	\$14.44	\$0.00	\$61.40
For apprentice rates see "Apprentice- LABORER"						
OILER (OTHER THAN TRUCK CRANES,GRADALLS) OPERATING ENGINEERS LOCAL 4	12/01/2018	\$23.06	\$11.50	\$15.60	\$0.00	\$50.16
	06/01/2019	\$23.61	\$11.50	\$15.60	\$0.00	\$50.71
	12/01/2019	\$24.18	\$11.50	\$15.60	\$0.00	\$51.28
	06/01/2020	\$24.73	\$11.50	\$15.60	\$0.00	\$51.83
	12/01/2020	\$25.30	\$11.50	\$15.60	\$0.00	\$52.40
	06/01/2021	\$25.85	\$11.50	\$15.60	\$0.00	\$52.95
	12/01/2021	\$26.43	\$11.50	\$15.60	\$0.00	\$53.53
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
OILER (TRUCK CRANES, GRADALLS) OPERATING ENGINEERS LOCAL 4	12/01/2018	\$27.42	\$11.50	\$15.60	\$0.00	\$54.52
	06/01/2019	\$28.07	\$11.50	\$15.60	\$0.00	\$55.17
	12/01/2019	\$28.74	\$11.50	\$15.60	\$0.00	\$55.84
	06/01/2020	\$29.39	\$11.50	\$15.60	\$0.00	\$56.49
	12/01/2020	\$30.07	\$11.50	\$15.60	\$0.00	\$57.17
	06/01/2021	\$30.71	\$11.50	\$15.60	\$0.00	\$57.81
	12/01/2021	\$31.39	\$11.50	\$15.60	\$0.00	\$58.49
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
OTHER POWER DRIVEN EQUIPMENT - CLASS II OPERATING ENGINEERS LOCAL 4	12/01/2018	\$47.10	\$11.50	\$15.60	\$0.00	\$74.20
	06/01/2019	\$48.19	\$11.50	\$15.60	\$0.00	\$75.29
	12/01/2019	\$49.33	\$11.50	\$15.60	\$0.00	\$76.43
	06/01/2020	\$50.41	\$11.50	\$15.60	\$0.00	\$77.51
	12/01/2020	\$51.55	\$11.50	\$15.60	\$0.00	\$78.65
	06/01/2021	\$52.64	\$11.50	\$15.60	\$0.00	\$79.74
	12/01/2021	\$53.78	\$11.50	\$15.60	\$0.00	\$80.88
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PAINTER (BRIDGES/TANKS)	01/01/2019	\$50.36	\$8.15	\$20.85	\$0.00	\$79.36
<i>PAINTERS LOCAL 35 - ZONE 2</i>	07/01/2019	\$51.46	\$8.15	\$20.85	\$0.00	\$80.46
	01/01/2020	\$52.56	\$8.15	\$20.85	\$0.00	\$81.56
	07/01/2020	\$53.66	\$8.15	\$20.85	\$0.00	\$82.66
	01/01/2021	\$54.76	\$8.15	\$20.85	\$0.00	\$83.76

Apprentice - PAINTER Local 35 - BRIDGES/TANKS

Effective Date - 01/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.18	\$8.15	\$0.00	\$0.00	\$33.33
2	55	\$27.70	\$8.15	\$5.64	\$0.00	\$41.49
3	60	\$30.22	\$8.15	\$6.15	\$0.00	\$44.52
4	65	\$32.73	\$8.15	\$6.66	\$0.00	\$47.54
5	70	\$35.25	\$8.15	\$17.78	\$0.00	\$61.18
6	75	\$37.77	\$8.15	\$18.29	\$0.00	\$64.21
7	80	\$40.29	\$8.15	\$18.80	\$0.00	\$67.24
8	90	\$45.32	\$8.15	\$19.83	\$0.00	\$73.30

Effective Date - 07/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.73	\$8.15	\$0.00	\$0.00	\$33.88
2	55	\$28.30	\$8.15	\$5.64	\$0.00	\$42.09
3	60	\$30.88	\$8.15	\$6.15	\$0.00	\$45.18
4	65	\$33.45	\$8.15	\$6.66	\$0.00	\$48.26
5	70	\$36.02	\$8.15	\$17.78	\$0.00	\$61.95
6	75	\$38.60	\$8.15	\$18.29	\$0.00	\$65.04
7	80	\$41.17	\$8.15	\$18.80	\$0.00	\$68.12
8	90	\$46.31	\$8.15	\$19.83	\$0.00	\$74.29

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER (SIGN, PICTORIAL & DISPLAY)	06/01/2013	\$25.81	\$7.07	\$7.05	\$0.00	\$39.93
<i>PAINTERS LOCAL 35 - ZONE 2</i>						

Apprentice - PAINTER SIGN - Local 35 Zone 2**Effective Date - 06/01/2013**

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

Notes:

Steps are 4 mos.

Apprentice to Journeyworker Ratio:1:1

PAINTER (SPRAY OR SANDBLAST, NEW) *

* If 30% or more of surfaces to be painted are new construction,
NEW paint rate shall be used. *PAINTERS LOCAL 35 - ZONE 2*

01/01/2019	\$41.26	\$8.15	\$20.85	\$0.00	\$70.26
07/01/2019	\$42.36	\$8.15	\$20.85	\$0.00	\$71.36
01/01/2020	\$43.46	\$8.15	\$20.85	\$0.00	\$72.46
07/01/2020	\$44.56	\$8.15	\$20.85	\$0.00	\$73.56
01/01/2021	\$45.66	\$8.15	\$20.85	\$0.00	\$74.66

Apprentice - PAINTER Local 35 Zone 2 - Spray/Sandblast - New**Effective Date - 01/01/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.63	\$8.15	\$0.00	\$0.00	\$28.78
2	55	\$22.69	\$8.15	\$5.64	\$0.00	\$36.48
3	60	\$24.76	\$8.15	\$6.15	\$0.00	\$39.06
4	65	\$26.82	\$8.15	\$6.66	\$0.00	\$41.63
5	70	\$28.88	\$8.15	\$17.78	\$0.00	\$54.81
6	75	\$30.95	\$8.15	\$18.29	\$0.00	\$57.39
7	80	\$33.01	\$8.15	\$18.80	\$0.00	\$59.96
8	90	\$37.13	\$8.15	\$19.83	\$0.00	\$65.11

Effective Date - 07/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.18	\$8.15	\$0.00	\$0.00	\$29.33
2	55	\$23.30	\$8.15	\$5.64	\$0.00	\$37.09
3	60	\$25.42	\$8.15	\$6.15	\$0.00	\$39.72
4	65	\$27.53	\$8.15	\$6.66	\$0.00	\$42.34
5	70	\$29.65	\$8.15	\$17.78	\$0.00	\$55.58
6	75	\$31.77	\$8.15	\$18.29	\$0.00	\$58.21
7	80	\$33.89	\$8.15	\$18.80	\$0.00	\$60.84
8	90	\$38.12	\$8.15	\$19.83	\$0.00	\$66.10

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER (SPRAY OR SANDBLAST, REPAINT)

PAINTERS LOCAL 35 - ZONE 2

01/01/2019	\$39.32	\$8.15	\$20.85	\$0.00	\$68.32
07/01/2019	\$40.42	\$8.15	\$20.85	\$0.00	\$69.42
01/01/2020	\$41.52	\$8.15	\$20.85	\$0.00	\$70.52
07/01/2020	\$42.62	\$8.15	\$20.85	\$0.00	\$71.62
01/01/2021	\$43.72	\$8.15	\$20.85	\$0.00	\$72.72

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER Local 35 Zone 2 - Spray/Sandblast - Repaint
Effective Date - 01/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.66	\$8.15	\$0.00	\$0.00	\$27.81
2	55	\$21.63	\$8.15	\$5.64	\$0.00	\$35.42
3	60	\$23.59	\$8.15	\$6.15	\$0.00	\$37.89
4	65	\$25.56	\$8.15	\$6.66	\$0.00	\$40.37
5	70	\$27.52	\$8.15	\$17.78	\$0.00	\$53.45
6	75	\$29.49	\$8.15	\$18.29	\$0.00	\$55.93
7	80	\$31.46	\$8.15	\$18.80	\$0.00	\$58.41
8	90	\$35.39	\$8.15	\$19.83	\$0.00	\$63.37

Effective Date - 07/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.21	\$8.15	\$0.00	\$0.00	\$28.36
2	55	\$22.23	\$8.15	\$5.64	\$0.00	\$36.02
3	60	\$24.25	\$8.15	\$6.15	\$0.00	\$38.55
4	65	\$26.27	\$8.15	\$6.66	\$0.00	\$41.08
5	70	\$28.29	\$8.15	\$17.78	\$0.00	\$54.22
6	75	\$30.32	\$8.15	\$18.29	\$0.00	\$56.76
7	80	\$32.34	\$8.15	\$18.80	\$0.00	\$59.29
8	90	\$36.38	\$8.15	\$19.83	\$0.00	\$64.36

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER (TRAFFIC MARKINGS)	12/01/2018	\$33.52	\$7.85	\$14.44	\$0.00	\$55.81
LABORERS - ZONE 2	06/01/2019	\$34.39	\$7.85	\$14.44	\$0.00	\$56.68
	12/01/2019	\$35.25	\$7.85	\$14.44	\$0.00	\$57.54
	06/01/2020	\$36.14	\$7.85	\$14.44	\$0.00	\$58.43
	12/01/2020	\$37.03	\$7.85	\$14.44	\$0.00	\$59.32
	06/01/2021	\$37.95	\$7.85	\$14.44	\$0.00	\$60.24
	12/01/2021	\$38.86	\$7.85	\$14.44	\$0.00	\$61.15

For Apprentice rates see "Apprentice- LABORER"

PAINTER / TAPER (BRUSH, NEW) *	01/01/2019	\$39.86	\$8.15	\$20.85	\$0.00	\$68.86
* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. PAINTERS LOCAL 35 - ZONE 2	07/01/2019	\$40.96	\$8.15	\$20.85	\$0.00	\$69.96
	01/01/2020	\$42.06	\$8.15	\$20.85	\$0.00	\$71.06
	07/01/2020	\$43.16	\$8.15	\$20.85	\$0.00	\$72.16
	01/01/2021	\$44.25	\$8.15	\$20.85	\$0.00	\$73.25

Apprentice - PAINTER - Local 35 Zone 2 - BRUSH NEW**Effective Date - 01/01/2019**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.93	\$8.15	\$0.00	\$0.00	\$28.08
2	55	\$21.92	\$8.15	\$5.64	\$0.00	\$35.71
3	60	\$23.92	\$8.15	\$6.15	\$0.00	\$38.22
4	65	\$25.91	\$8.15	\$6.66	\$0.00	\$40.72
5	70	\$27.90	\$8.15	\$17.78	\$0.00	\$53.83
6	75	\$29.90	\$8.15	\$18.29	\$0.00	\$56.34
7	80	\$31.89	\$8.15	\$18.80	\$0.00	\$58.84
8	90	\$35.87	\$8.15	\$19.83	\$0.00	\$63.85

Effective Date - 07/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$20.48	\$8.15	\$0.00	\$0.00	\$28.63
2	55	\$22.53	\$8.15	\$5.64	\$0.00	\$36.32
3	60	\$24.58	\$8.15	\$6.15	\$0.00	\$38.88
4	65	\$26.62	\$8.15	\$6.66	\$0.00	\$41.43
5	70	\$28.67	\$8.15	\$17.78	\$0.00	\$54.60
6	75	\$30.72	\$8.15	\$18.29	\$0.00	\$57.16
7	80	\$32.77	\$8.15	\$18.80	\$0.00	\$59.72
8	90	\$36.86	\$8.15	\$19.83	\$0.00	\$64.84

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PAINTER / TAPER (BRUSH, REPAINT)

PAINTERS LOCAL 35 - ZONE 2

01/01/2019	\$37.92	\$8.15	\$20.85	\$0.00	\$66.92
07/01/2019	\$39.02	\$8.15	\$20.85	\$0.00	\$68.02
01/01/2020	\$40.12	\$8.15	\$20.85	\$0.00	\$69.12
07/01/2020	\$41.22	\$8.15	\$20.85	\$0.00	\$70.22
01/01/2021	\$42.32	\$8.15	\$20.85	\$0.00	\$71.32

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PAINTER Local 35 Zone 2 - BRUSH REPAINT
Effective Date - 01/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$18.96	\$8.15	\$0.00	\$0.00	\$27.11
2	55	\$20.86	\$8.15	\$5.64	\$0.00	\$34.65
3	60	\$22.75	\$8.15	\$6.15	\$0.00	\$37.05
4	65	\$24.65	\$8.15	\$6.66	\$0.00	\$39.46
5	70	\$26.54	\$8.15	\$17.78	\$0.00	\$52.47
6	75	\$28.44	\$8.15	\$18.29	\$0.00	\$54.88
7	80	\$30.34	\$8.15	\$18.80	\$0.00	\$57.29
8	90	\$34.13	\$8.15	\$19.83	\$0.00	\$62.11

Effective Date - 07/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.51	\$8.15	\$0.00	\$0.00	\$27.66
2	55	\$21.46	\$8.15	\$5.64	\$0.00	\$35.25
3	60	\$23.41	\$8.15	\$6.15	\$0.00	\$37.71
4	65	\$25.36	\$8.15	\$6.66	\$0.00	\$40.17
5	70	\$27.31	\$8.15	\$17.78	\$0.00	\$53.24
6	75	\$29.27	\$8.15	\$18.29	\$0.00	\$55.71
7	80	\$31.22	\$8.15	\$18.80	\$0.00	\$58.17
8	90	\$35.12	\$8.15	\$19.83	\$0.00	\$63.10

Notes:

Steps are 750 hrs.

Apprentice to Journeyworker Ratio:1:1

PANEL & PICKUP TRUCKS DRIVER	12/01/2018	\$33.08	\$11.91	\$12.70	\$0.00	\$57.69
TEAMSTERS JOINT COUNCIL NO. 10 ZONE B	06/01/2019	\$34.08	\$11.91	\$12.70	\$0.00	\$58.69
	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
PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK)	08/01/2018	\$46.57	\$9.90	\$21.15	\$0.00	\$77.62
PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2019	\$48.94	\$9.90	\$21.15	\$0.00	\$79.99
For apprentice rates see "Apprentice- PILE DRIVER"						
PILE DRIVER	08/01/2018	\$46.57	\$9.90	\$21.15	\$0.00	\$77.62
PILE DRIVER LOCAL 56 (ZONE 1)	08/01/2019	\$48.94	\$9.90	\$21.15	\$0.00	\$79.99

Classification

Effective Date Base Wage Health Pension Supplemental Unemployment Total Rate

Apprentice - PILE DRIVER - Local 56 Zone 1
Effective Date - 08/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$23.29	\$9.90	\$21.15	\$0.00	\$54.34
2	60	\$27.94	\$9.90	\$21.15	\$0.00	\$58.99
3	70	\$32.60	\$9.90	\$21.15	\$0.00	\$63.65
4	75	\$34.93	\$9.90	\$21.15	\$0.00	\$65.98
5	80	\$37.26	\$9.90	\$21.15	\$0.00	\$68.31
6	80	\$37.26	\$9.90	\$21.15	\$0.00	\$68.31
7	90	\$41.91	\$9.90	\$21.15	\$0.00	\$72.96
8	90	\$41.91	\$9.90	\$21.15	\$0.00	\$72.96

Effective Date - 08/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$24.47	\$9.90	\$21.15	\$0.00	\$55.52
2	60	\$29.36	\$9.90	\$21.15	\$0.00	\$60.41
3	70	\$34.26	\$9.90	\$21.15	\$0.00	\$65.31
4	75	\$36.71	\$9.90	\$21.15	\$0.00	\$67.76
5	80	\$39.15	\$9.90	\$21.15	\$0.00	\$70.20
6	80	\$39.15	\$9.90	\$21.15	\$0.00	\$70.20
7	90	\$44.05	\$9.90	\$21.15	\$0.00	\$75.10
8	90	\$44.05	\$9.90	\$21.15	\$0.00	\$75.10

Notes:
Apprentice to Journeyworker Ratio:1:5

PIPELAYER	12/01/2018	\$33.77	\$7.85	\$14.44	\$0.00	\$56.06
LABORERS - ZONE 2	06/01/2019	\$34.64	\$7.85	\$14.44	\$0.00	\$56.93
	12/01/2019	\$35.50	\$7.85	\$14.44	\$0.00	\$57.79
	06/01/2020	\$36.39	\$7.85	\$14.44	\$0.00	\$58.68
	12/01/2020	\$37.28	\$7.85	\$14.44	\$0.00	\$59.57
	06/01/2021	\$38.20	\$7.85	\$14.44	\$0.00	\$60.49
	12/01/2021	\$39.11	\$7.85	\$14.44	\$0.00	\$61.40

For apprentice rates see "Apprentice- LABORER"

PLUMBER & PIPEFITTER	09/01/2018	\$42.04	\$10.00	\$18.20	\$0.00	\$70.24
PLUMBERS & PIPEFITTERS LOCAL 51						

Apprentice - PLUMBER/PIPEFITTER - Local 51

Effective Date - 09/01/2018

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$16.82	\$10.00	\$2.50	\$0.00	\$29.32
2	50	\$21.02	\$10.00	\$2.50	\$0.00	\$33.52
3	60	\$25.22	\$10.00	\$7.85	\$0.00	\$43.07
4	70	\$29.43	\$10.00	\$12.56	\$0.00	\$51.99
5	80	\$33.63	\$10.00	\$15.70	\$0.00	\$59.33

Notes:

Steps 2000hrs. Prior 9/1/05; 40/40/45/50/55/60/65/75/80/85

Apprentice to Journeyworker Ratio:1:3

PNEUMATIC CONTROLS (TEMP.) PLUMBERS & PIPEFITTERS LOCAL 51	09/01/2018	\$42.04	\$10.00	\$18.20	\$0.00	\$70.24
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For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"

PNEUMATIC DRILL/TOOL OPERATOR LABORERS - ZONE 2	12/01/2018	\$33.77	\$7.85	\$14.44	\$0.00	\$56.06
	06/01/2019	\$34.64	\$7.85	\$14.44	\$0.00	\$56.93
	12/01/2019	\$35.50	\$7.85	\$14.44	\$0.00	\$57.79
	06/01/2020	\$36.39	\$7.85	\$14.44	\$0.00	\$58.68
	12/01/2020	\$37.28	\$7.85	\$14.44	\$0.00	\$59.57
	06/01/2021	\$38.20	\$7.85	\$14.44	\$0.00	\$60.49
	12/01/2021	\$39.11	\$7.85	\$14.44	\$0.00	\$61.40

For apprentice rates see "Apprentice- LABORER"

POWDERMAN & BLASTER LABORERS - ZONE 2	12/01/2018	\$34.52	\$7.85	\$14.44	\$0.00	\$56.81
	06/01/2019	\$35.39	\$7.85	\$14.44	\$0.00	\$57.68
	12/01/2019	\$36.25	\$7.85	\$14.44	\$0.00	\$58.54
	06/01/2020	\$37.14	\$7.85	\$14.44	\$0.00	\$59.43
	12/01/2020	\$38.03	\$7.85	\$14.44	\$0.00	\$60.32
	06/01/2021	\$38.95	\$7.85	\$14.44	\$0.00	\$61.24
	12/01/2021	\$39.86	\$7.85	\$14.44	\$0.00	\$62.15

For apprentice rates see "Apprentice- LABORER"

POWER SHOVEL/DERRICK/TRENCHING MACHINE OPERATING ENGINEERS LOCAL 4	12/01/2018	\$47.58	\$11.50	\$15.60	\$0.00	\$74.68
	06/01/2019	\$48.68	\$11.50	\$15.60	\$0.00	\$75.78
	12/01/2019	\$49.83	\$11.50	\$15.60	\$0.00	\$76.93
	06/01/2020	\$50.93	\$11.50	\$15.60	\$0.00	\$78.03
	12/01/2020	\$52.08	\$11.50	\$15.60	\$0.00	\$79.18
	06/01/2021	\$53.18	\$11.50	\$15.60	\$0.00	\$80.28
	12/01/2021	\$54.33	\$11.50	\$15.60	\$0.00	\$81.43

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
PUMP OPERATOR (CONCRETE) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2018	\$47.58	\$11.50	\$15.60	\$0.00	\$74.68
	06/01/2019	\$48.68	\$11.50	\$15.60	\$0.00	\$75.78
	12/01/2019	\$49.83	\$11.50	\$15.60	\$0.00	\$76.93
	06/01/2020	\$50.93	\$11.50	\$15.60	\$0.00	\$78.03
	12/01/2020	\$52.08	\$11.50	\$15.60	\$0.00	\$79.18
	06/01/2021	\$53.18	\$11.50	\$15.60	\$0.00	\$80.28
	12/01/2021	\$54.33	\$11.50	\$15.60	\$0.00	\$81.43
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (DEWATERING, OTHER) <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2018	\$32.03	\$11.50	\$15.60	\$0.00	\$59.13
	06/01/2019	\$32.78	\$11.50	\$15.60	\$0.00	\$59.88
	12/01/2019	\$33.57	\$11.50	\$15.60	\$0.00	\$60.67
	06/01/2020	\$34.32	\$11.50	\$15.60	\$0.00	\$61.42
	12/01/2020	\$35.10	\$11.50	\$15.60	\$0.00	\$62.20
	06/01/2021	\$35.85	\$11.50	\$15.60	\$0.00	\$62.95
	12/01/2021	\$36.64	\$11.50	\$15.60	\$0.00	\$63.74
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
READY-MIX CONCRETE DRIVER <i>TEAMSTERS LOCAL 59</i>	06/01/2008	\$19.00	\$5.10	\$4.21	\$0.00	\$28.31
RECLAIMERS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2018	\$47.10	\$11.50	\$15.60	\$0.00	\$74.20
	06/01/2019	\$48.19	\$11.50	\$15.60	\$0.00	\$75.29
	12/01/2019	\$49.33	\$11.50	\$15.60	\$0.00	\$76.43
	06/01/2020	\$50.41	\$11.50	\$15.60	\$0.00	\$77.51
	12/01/2020	\$51.55	\$11.50	\$15.60	\$0.00	\$78.65
	06/01/2021	\$52.64	\$11.50	\$15.60	\$0.00	\$79.74
	12/01/2021	\$53.78	\$11.50	\$15.60	\$0.00	\$80.88
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
RIDE-ON MOTORIZED BUGGY OPERATOR <i>LABORERS - ZONE 2</i>	12/01/2018	\$33.77	\$7.85	\$14.44	\$0.00	\$56.06
	06/01/2019	\$34.64	\$7.85	\$14.44	\$0.00	\$56.93
	12/01/2019	\$35.50	\$7.85	\$14.44	\$0.00	\$57.79
	06/01/2020	\$36.39	\$7.85	\$14.44	\$0.00	\$58.68
	12/01/2020	\$37.28	\$7.85	\$14.44	\$0.00	\$59.57
	06/01/2021	\$38.20	\$7.85	\$14.44	\$0.00	\$60.49
	12/01/2021	\$39.11	\$7.85	\$14.44	\$0.00	\$61.40
For apprentice rates see "Apprentice- LABORER"						
ROLLER/SPREADER/MULCHING MACHINE <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2018	\$47.10	\$11.50	\$15.60	\$0.00	\$74.20
	06/01/2019	\$48.19	\$11.50	\$15.60	\$0.00	\$75.29
	12/01/2019	\$49.33	\$11.50	\$15.60	\$0.00	\$76.43
	06/01/2020	\$50.41	\$11.50	\$15.60	\$0.00	\$77.51
	12/01/2020	\$51.55	\$11.50	\$15.60	\$0.00	\$78.65
	06/01/2021	\$52.64	\$11.50	\$15.60	\$0.00	\$79.74
	12/01/2021	\$53.78	\$11.50	\$15.60	\$0.00	\$80.88
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
ROOFER (Inc.Roofers Waterproofing &Roofers Dampproofg) <i>ROOFERS LOCAL 33</i>	02/01/2019	\$43.36	\$11.50	\$15.90	\$0.00	\$70.76

Classification
Effective Date
Base Wage
Health
Pension
**Supplemental
Unemployment**
Total Rate
Apprentice - ROOFER - Local 33
Effective Date - 02/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.68	\$11.50	\$3.69	\$0.00	\$36.87
2	60	\$26.02	\$11.50	\$15.90	\$0.00	\$53.42
3	65	\$28.18	\$11.50	\$15.90	\$0.00	\$55.58
4	75	\$32.52	\$11.50	\$15.90	\$0.00	\$59.92
5	85	\$36.86	\$11.50	\$15.90	\$0.00	\$64.26

Notes: ** 1:5, 2:6-10, the 1:10; Reroofing: 1:4, then 1:1
Step 1 is 2000 hrs.; Steps 2-5 are 1000 hrs.
(Hot Pitch Mechanics' receive \$1.00 hr. above ROOFER)

Apprentice to Journeyworker Ratio:**

ROOFER SLATE / TILE / PRECAST CONCRETE ROOFERS LOCAL 33	02/01/2019	\$43.61	\$11.50	\$15.90	\$0.00	\$71.01
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For apprentice rates see "Apprentice- ROOFER"

SHEETMETAL WORKER SHEETMETAL WORKERS LOCAL 17 - B	04/01/2019	\$34.71	\$13.20	\$16.55	\$1.93	\$66.39
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Apprentice - SHEET METAL WORKER - Local 17-B
Effective Date - 04/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$13.88	\$13.20	\$4.02	\$0.95	\$32.05
2	45	\$15.62	\$13.20	\$4.52	\$1.02	\$34.36
3	50	\$17.36	\$13.20	\$10.48	\$1.26	\$42.30
4	55	\$19.09	\$13.20	\$10.48	\$1.31	\$44.08
5	60	\$20.83	\$13.20	\$13.52	\$1.43	\$48.98
6	65	\$22.56	\$13.20	\$13.78	\$1.49	\$51.03
7	70	\$24.30	\$13.20	\$14.03	\$1.55	\$53.08
8	75	\$26.03	\$13.20	\$14.28	\$1.61	\$55.12
9	80	\$27.77	\$13.20	\$14.54	\$1.67	\$57.18
10	85	\$29.50	\$13.20	\$14.79	\$1.72	\$59.21

Notes:

Apprentice to Journeyworker Ratio:1:3

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
SPECIALIZED EARTH MOVING EQUIP < 35 TONS <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2018	\$33.54	\$11.91	\$12.70	\$0.00	\$58.15
	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
SPECIALIZED EARTH MOVING EQUIP > 35 TONS <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2018	\$33.83	\$11.91	\$12.70	\$0.00	\$58.44
	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 550 - (Section B) Zone 2</i>	03/01/2019	\$53.08	\$9.47	\$19.60	\$0.00	\$82.15
	10/01/2019	\$54.43	\$9.47	\$19.60	\$0.00	\$83.50
	03/01/2020	\$55.78	\$9.47	\$19.60	\$0.00	\$84.85
	10/01/2020	\$57.13	\$9.47	\$19.60	\$0.00	\$86.20
	03/01/2021	\$58.48	\$9.47	\$19.60	\$0.00	\$87.55

Apprentice - SPRINKLER FITTER - Local 550 (Section B) Zone 2**Effective Date -** 03/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$18.58	\$9.47	\$9.10	\$0.00	\$37.15
2	40	\$21.23	\$9.47	\$9.10	\$0.00	\$39.80
3	45	\$23.89	\$9.47	\$9.10	\$0.00	\$42.46
4	50	\$26.54	\$9.47	\$9.10	\$0.00	\$45.11
5	55	\$29.19	\$9.47	\$9.10	\$0.00	\$47.76
6	60	\$31.85	\$9.47	\$10.60	\$0.00	\$51.92
7	65	\$34.50	\$9.47	\$10.60	\$0.00	\$54.57
8	70	\$37.16	\$9.47	\$10.60	\$0.00	\$57.23
9	75	\$39.81	\$9.47	\$10.60	\$0.00	\$59.88
10	80	\$42.46	\$9.47	\$10.60	\$0.00	\$62.53

Effective Date - 10/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	35	\$19.05	\$9.47	\$9.10	\$0.00	\$37.62
2	40	\$21.77	\$9.47	\$9.10	\$0.00	\$40.34
3	45	\$24.49	\$9.47	\$9.10	\$0.00	\$43.06
4	50	\$27.22	\$9.47	\$9.10	\$0.00	\$45.79
5	55	\$29.94	\$9.47	\$9.10	\$0.00	\$48.51
6	60	\$32.66	\$9.47	\$10.60	\$0.00	\$52.73
7	65	\$35.38	\$9.47	\$10.60	\$0.00	\$55.45
8	70	\$38.10	\$9.47	\$10.60	\$0.00	\$58.17
9	75	\$40.82	\$9.47	\$10.60	\$0.00	\$60.89
10	80	\$43.54	\$9.47	\$10.60	\$0.00	\$63.61

Notes: Apprentice entered prior 9/30/10;
40/45/50/55/60/65/70/75/80/85
Steps are 850 hours

Apprentice to Journeyworker Ratio:1:3

STEAM BOILER OPERATOR
OPERATING ENGINEERS LOCAL 4

12/01/2018	\$47.10	\$11.50	\$15.60	\$0.00	\$74.20
06/01/2019	\$48.19	\$11.50	\$15.60	\$0.00	\$75.29
12/01/2019	\$49.33	\$11.50	\$15.60	\$0.00	\$76.43
06/01/2020	\$50.41	\$11.50	\$15.60	\$0.00	\$77.51
12/01/2020	\$51.55	\$11.50	\$15.60	\$0.00	\$78.65
06/01/2021	\$52.64	\$11.50	\$15.60	\$0.00	\$79.74
12/01/2021	\$53.78	\$11.50	\$15.60	\$0.00	\$80.88

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TAMPERS, SELF-PROPELLED OR TRACTOR DRAWN <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2018	\$47.10	\$11.50	\$15.60	\$0.00	\$74.20
	06/01/2019	\$48.19	\$11.50	\$15.60	\$0.00	\$75.29
	12/01/2019	\$49.33	\$11.50	\$15.60	\$0.00	\$76.43
	06/01/2020	\$50.41	\$11.50	\$15.60	\$0.00	\$77.51
	12/01/2020	\$51.55	\$11.50	\$15.60	\$0.00	\$78.65
	06/01/2021	\$52.64	\$11.50	\$15.60	\$0.00	\$79.74
	12/01/2021	\$53.78	\$11.50	\$15.60	\$0.00	\$80.88

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

TELECOMMUNICATION TECHNICIAN <i>ELECTRICIANS LOCAL 223</i>	03/01/2019	\$35.25	\$9.90	\$11.14	\$0.00	\$56.29
	09/01/2019	\$35.78	\$10.15	\$11.45	\$0.00	\$57.38
	03/01/2020	\$36.27	\$10.40	\$11.78	\$0.00	\$58.45

Apprentice - TELECOMMUNICATION TECHNICIAN - Local 223

Effective Date - 03/01/2019

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

Notes: See Electrician Apprentice Wages

Steps are 750hrs

Telecom Apprentice Wages shall be the same as the Electrician Apprentice Wages

Apprentice to Journeyworker Ratio:2:3***

TERRAZZO FINISHERS <i>BRICKLAYERS LOCAL 3 - MARBLE & TILE</i>	02/01/2019	\$52.49	\$10.75	\$20.66	\$0.00	\$83.90
	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

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
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Apprentice - TERRAZZO FINISHER - Local 3 Marble & Tile

Effective Date - 02/01/2019

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.25	\$10.75	\$20.03	\$0.00	\$57.03
2	60	\$31.49	\$10.75	\$20.03	\$0.00	\$62.27
3	70	\$36.74	\$10.75	\$20.03	\$0.00	\$67.52
4	80	\$41.99	\$10.75	\$20.03	\$0.00	\$72.77
5	90	\$47.24	\$10.75	\$20.03	\$0.00	\$78.02

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:1:3

TEST BORING DRILLER	12/01/2018	\$40.00	\$7.85	\$15.55	\$0.00	\$63.40
LABORERS - FOUNDATION AND MARINE	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	12/01/2018	\$38.72	\$7.85	\$15.55	\$0.00	\$62.12
LABORERS - FOUNDATION AND MARINE	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"						
TEST BORING LABORER	12/01/2018	\$38.60	\$7.85	\$15.55	\$0.00	\$62.00
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
TRACTORS/PORTABLE STEAM GENERATORS <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2018	\$47.10	\$11.50	\$15.60	\$0.00	\$74.20
	06/01/2019	\$48.19	\$11.50	\$15.60	\$0.00	\$75.29
	12/01/2019	\$49.33	\$11.50	\$15.60	\$0.00	\$76.43
	06/01/2020	\$50.41	\$11.50	\$15.60	\$0.00	\$77.51
	12/01/2020	\$51.55	\$11.50	\$15.60	\$0.00	\$78.65
	06/01/2021	\$52.64	\$11.50	\$15.60	\$0.00	\$79.74
	12/01/2021	\$53.78	\$11.50	\$15.60	\$0.00	\$80.88
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
TRAILERS FOR EARTH MOVING EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2018	\$34.12	\$11.91	\$12.70	\$0.00	\$58.73
	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>	12/01/2018	\$50.88	\$7.85	\$15.95	\$0.00	\$74.68
	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>	12/01/2018	\$52.88	\$7.85	\$15.95	\$0.00	\$76.68
	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>	12/01/2018	\$42.95	\$7.85	\$15.95	\$0.00	\$66.75
	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"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
TUNNEL WORK - FREE AIR (HAZ. WASTE) <i>LABORERS (FREE AIR TUNNEL)</i>	12/01/2018	\$44.95	\$7.85	\$15.95	\$0.00	\$68.75
	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"						
VAC-HAUL <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	12/01/2018	\$33.54	\$11.91	\$12.70	\$0.00	\$58.15
	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 2</i>	12/01/2018	\$33.77	\$7.85	\$14.44	\$0.00	\$56.06
	06/01/2019	\$34.64	\$7.85	\$14.44	\$0.00	\$56.93
	12/01/2019	\$35.50	\$7.85	\$14.44	\$0.00	\$57.79
	06/01/2020	\$36.39	\$7.85	\$14.44	\$0.00	\$58.68
	12/01/2020	\$37.28	\$7.85	\$14.44	\$0.00	\$59.57
	06/01/2021	\$38.20	\$7.85	\$14.44	\$0.00	\$60.49
	12/01/2021	\$39.11	\$7.85	\$14.44	\$0.00	\$61.40
For apprentice rates see "Apprentice- LABORER"						
WASTE WATER PUMP OPERATOR <i>OPERATING ENGINEERS LOCAL 4</i>	12/01/2018	\$47.58	\$11.50	\$15.60	\$0.00	\$74.68
	06/01/2019	\$48.68	\$11.50	\$15.60	\$0.00	\$75.78
	12/01/2019	\$49.83	\$11.50	\$15.60	\$0.00	\$76.93
	06/01/2020	\$50.93	\$11.50	\$15.60	\$0.00	\$78.03
	12/01/2020	\$52.08	\$11.50	\$15.60	\$0.00	\$79.18
	06/01/2021	\$53.18	\$11.50	\$15.60	\$0.00	\$80.28
	12/01/2021	\$54.33	\$11.50	\$15.60	\$0.00	\$81.43
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
WATER METER INSTALLER <i>PLUMBERS & PIPEFITTERS LOCAL 51</i>	09/01/2018	\$42.04	\$10.00	\$18.20	\$0.00	\$70.24
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"						
Outside Electrical - East						
CABLE TECHNICIAN (Power Zone) <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	09/03/2017	\$27.14	\$7.75	\$1.81	\$0.00	\$36.70
For apprentice rates see "Apprentice- LINEMAN"						
CABLEMAN (Underground Ducts & Cables) <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	09/03/2017	\$38.45	\$7.75	\$9.53	\$0.00	\$55.73
For apprentice rates see "Apprentice- LINEMAN"						
DRIVER / GROUNDMAN CDL <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	09/03/2017	\$31.66	\$7.75	\$9.44	\$0.00	\$48.85
For apprentice rates see "Apprentice- LINEMAN"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
DRIVER / GROUNDMAN -Inexperienced (<2000 Hrs) <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	09/03/2017	\$24.88	\$7.75	\$1.75	\$0.00	\$34.38
For apprentice rates see "Apprentice- LINEMAN"						
EQUIPMENT OPERATOR (Class A CDL) <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	09/03/2017	\$38.45	\$7.75	\$13.61	\$0.00	\$59.81
For apprentice rates see "Apprentice- LINEMAN"						
EQUIPMENT OPERATOR (Class B CDL) <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	09/03/2017	\$33.92	\$7.75	\$10.21	\$0.00	\$51.88
For apprentice rates see "Apprentice- LINEMAN"						
GROUNDMAN <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	09/03/2017	\$24.88	\$7.75	\$1.75	\$0.00	\$34.38
For apprentice rates see "Apprentice- LINEMAN"						
GROUNDMAN -Inexperienced (<2000 Hrs.) <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	09/03/2017	\$20.35	\$7.75	\$1.61	\$0.00	\$29.71
For apprentice rates see "Apprentice- LINEMAN"						
JOURNEYMAN LINEMAN <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	09/03/2017	\$45.23	\$7.75	\$16.61	\$0.00	\$69.59

Apprentice - LINEMAN (Outside Electrical) - East Local 104

Effective Date - 09/03/2017

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$27.14	\$7.75	\$3.31	\$0.00	\$38.20
2	65	\$29.40	\$7.75	\$3.38	\$0.00	\$40.53
3	70	\$31.66	\$7.75	\$3.45	\$0.00	\$42.86
4	75	\$33.92	\$7.75	\$5.02	\$0.00	\$46.69
5	80	\$36.18	\$7.75	\$5.09	\$0.00	\$49.02
6	85	\$38.45	\$7.75	\$5.15	\$0.00	\$51.35
7	90	\$40.71	\$7.75	\$7.22	\$0.00	\$55.68

Notes:

Apprentice to Journeyworker Ratio:1:2

TELEDATA CABLE SPLICER <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	02/04/2019	\$30.73	\$4.70	\$3.17	\$0.00	\$38.60
TELEDATA LINEMAN/EQUIPMENT OPERATOR <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	02/04/2019	\$28.93	\$4.70	\$3.14	\$0.00	\$36.77
TELEDATA WIREMAN/INSTALLER/TECHNICIAN <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	02/04/2019	\$28.93	\$4.70	\$3.14	\$0.00	\$36.77
TREE TRIMMER <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	01/31/2016	\$18.51	\$3.55	\$0.00	\$0.00	\$22.06
This classification applies only to tree work done: (a) for a utility company, R.E.A. cooperative, or railroad or coal mining company, and (b) for the purpose of operating, maintaining, or repairing the utility company's equipment, and (c) by a person who is using hand or mechanical cutting methods and is not on the ground. This classification does not apply to wholesale tree removal.						
TREE TRIMMER GROUNDMAN <i>OUTSIDE ELECTRICAL WORKERS - EAST LOCAL 104</i>	01/31/2016	\$16.32	\$3.55	\$0.00	\$0.00	\$19.87
This classification applies only to tree work done: (a) for a utility company, R.E.A. cooperative, or railroad or coal mining company, and (b) for the purpose of operating, maintaining, or repairing the utility company's equipment, and (c) by a person who is using hand or mechanical cutting methods and is on the ground. This classification does not apply to wholesale tree removal.						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
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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. Apprentice ratios are established by the Division of Apprenticeship Training pursuant to M.G.L. c. 23, ss. 11E-11L.

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

All steps are six months (1000 hours.)

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

** Multiple ratios are listed in the comment field.

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

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

CHILMARK

Invitation For Bids for the installation of Cold Climate Heat Pumps/HVAC at the Chilmark Community Center 520 South Road for this summer season.

Bid packets available May 8th from townadministrator@chilmarkma.gov or the Selectmen's Office. Sealed Bid deadline May 22, 2019 3:00PM Selectmen's Office, Town Hall, 401 Middle Road, PO Box 119, Chilmark, MA 02535.

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General contract submission confirmation

The following General Contract submission was successfully received.

Planned date of publish is 5/8/2019

Awarding Agency

Agency Name and Address:	Town of Chilmark Town Administrator PO Box 119 401 Middle Road Chilmark, MA 02535
Project Number:	2019-01
Estimated Cost:	90,000
Contractor Qualification:	

Required for DCAMM contracts over \$150,000, Highway Division contracts over \$50,000. Add categories to the Project description below.

Contact Information

Name:	Tim Carroll		
Phone:	<u>508-645-2101</u>	Fax:	<u>5086452110</u>
Email Address:	<u>townadministrator@chilmarkma.gov</u>		
	<u>Notify email address listed when final publish date assigned.</u>		

Contract Information

Project:	Supply & Installation of high energy efficient HVAC/Cold Climate Heat Pump system at the Chilmark Community Center, 520 South Road, Chilmark		
Plans/Specifications Available:	Town Administrator, Selectmen's Office, 401 Middle Rd, Chilmark, MA 02535 May 8, 2019 after 4:00 PM		
Place, date and time			
General Bid Deadline*:	05/22/2019	Time	3:00 PM
Sub Bid Deadline:		Time	
Sub Bid Categories:			
Additional Information	7 - compressor units, 13 - "mini-split" style wall mounted units, ERV for Public Assembly area. Building serves as Emergency Community Shelter. Work MUST be completed by June 28, 2019.		

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William Francis Galvin, Secretary of the Commonwealth of Massachusetts

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