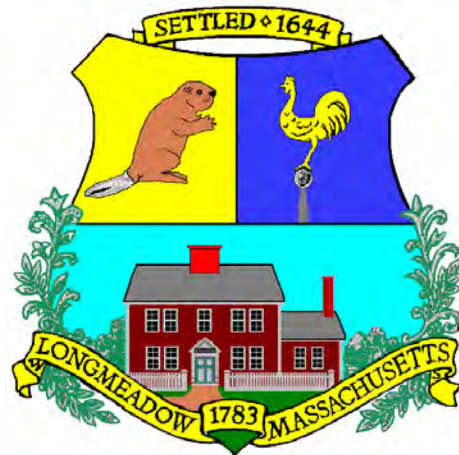


**Invitation for Bid (IFB)**

**Community House  
Roof and Balustrade Replacement**



**July 2, 2020**



Specifications Prepared by:  
Hill-Engineers, Architects, Planners, Inc.  
50 Depot Street  
Dalton, MA 01226

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**LEGAL NOTICE:**

**INVITATION TO BID (IFB)  
COMMUNITY HOUSE ROOF AND BALUSTRADE REPLACEMENT**

The Town of Longmeadow is accepting sealed bids for the re-bid of the Longmeadow Community House Roof and Balustrade Replacement. Drawings and specifications prepared by Hill-Engineers, Architects, Planners, Inc., Dalton, MA. Sealed bids shall be delivered or mailed in an envelope labeled "IFB Community House Roof and Balustrade Replacement", and should be delivered to the Town of Longmeadow, Purchasing Department, Attn: Chad Thompson, Procurement Manager, 735 Longmeadow Street, Suite 101, Longmeadow, MA 01106 (P 413-565-4185, [cthompson@longmeadow.org](mailto:cthompson@longmeadow.org) ).

Sealed bids will be accepted until the bid deadline of 2:00 PM on Tuesday, July 21, 2020. Late bids received after the bid deadline will be rejected. Since the procurement office is only open to the public for mail and delivery only, the public bid opening will be remote only facilitated through [zoom.com](https://zoom.com) beginning at 2:30PM on the day of the bid deadline.

Access to the remote Zoom meeting is:

<https://zoom.us/j/93248111937?pwd=M1NQTVNnQitrOGJHOVU5UitjakQ1dz09> .

For Zoom access by phone call 646-558-8656, Meeting ID: 932 4811 1937, Password: 241436. The Zoom bid conference may be recorded.

IFB documents are available from the Purchasing Department upon request. Bid documents may also be downloaded online through the Purchasing Department page of the town website: [www.longmeadow.org](http://www.longmeadow.org) . Select the link 'Bids & RFPs', then link: 'Bid & RFP Finder' to access documents online. Bidders that download documents online are encouraged to register with the Purchasing Department to receive updates. Others will be responsible to monitor the website prior to the bid deadline for additional information and issued addenda. Failure to acknowledge addenda may result in a bid rejection.

A MANDATORY pre-bid conference for General Contract work will take place at 735 Longmeadow Street, Longmeadow, MA 01106. Gather at the front of the building on Tuesday, July 14, 2020 at 10:30AM for the mandatory conference. Bids received from those that have not had a representative register during the mandatory pre-bid conference will be rejected. Those that registered on the sign in sheet at the March 25, 2019 original mandatory pre-bid conference for the same project are automatically registered for the re-bid mandatory conference and are not required to attend the re-bid mandatory pre-bid conference (See Appendix A for the list of registered pre-bid conference attendees).

General Bids shall be accompanied by a bid deposit in an amount which is not less than five percent (5%) of the bid amount. Bid deposits shall be made payable to the 'Town of Longmeadow' in the form of a bid bond or a certified check, treasurer's check or cashier's check issued by a responsible bank or trust company. All bidders shall comply with minimum wage rates as set forth under the provisions of M.G.L., Chapter 149, Sections 26 to 27H inclusive and agree to provide statements of compliance as required. A 100% Performance and Payment Bond will be required of the successful contractor. The Town of Longmeadow acting through the Town Manager, the Awarding Authority reserves the

right to reject any or all bids, waive minor informalities, and award in the best interest of the Town. After proposals are opened, no bidder may withdraw the proposal for a period of thirty (30) days.

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The Scope of Work shall include, but not be limited to, providing of all labor, materials, and equipment necessary for the work outlined below, as shown on the drawings, and as described in the specifications:

1. The drawings and specification have been created to indicate the floor coating and the associated work that comprise the project.
2. Miscellaneous Definitions:
  - a. “Furnish” means supply and deliver to the project site or other designated location, ready for unloading, unpacking, storing, assembly, installation, application, erection, or other form of incorporation into the project, and maintained ready for use. Supply and deliver products requiring additional or supplemental fitting, assembly, fabrication, or incorporation into other elements of the project directly to the fabricator, installer or manufacturer as required.
  - b. “Install” means unload, unpack, use, fit, attach, assemble, apply, place, anchor, erect, finish, cure, protect, clean, and similar operations required to properly incorporate work into the project.
  - c. “Provide” means furnish and install.
3. The purpose of the bid package is to obtain bids to perform demolition and new construction as outlined in the drawings and this Scope of Work.
4. The Owner wishes to receive bids for all work indicated in the documentation and the specifications.
5. All work shall be performed by licensed and insured contractors.
6. Contractor shall adhere to local, state, and federal codes which may apply.
7. Contractor shall obtain and pay for all necessary permits applicable to his work. Permits issued by the Town of Longmeadow, Building Department (413-565-4153) will be issued at no cost to the contractor.
8. Contractor shall restore to original condition any surfaces or items which become damaged during the work.
9. Contractor shall keep areas broom clean at the end of each day. All new work shall be cleaned prior to final acceptance.

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10. All demolition, packing, or discarded materials shall be removed from the site after approval to do so, and disposed of properly by the contractor unless designated for relocation or storage per Owner's direction.
  11. The contractor shall provide submittals for review and approval by the A/E. Provide all equipment warranties and operating instructions. Provide Architect with Contractor's overnight delivery account number so that Architect may return reviewed submittal by overnight service. Electronic submittals in the form of .pdf files are acceptable.
  12. Do not block receiving docks other than for use in unloading materials or equipment.
  13. The contractor may make use of existing power, water, and other utilities in the building.
  14. Labeling and testing of all new systems for proper operation as required.
  15. Hazardous Materials:  
Existing balustrade: None, reconstructed new in 2007.  
Existing roof: Core sampling was performed by ATC Environmental. A copy of the report/findings is provided in the project specifications.
  16. Project Timeline:  
The Contractor must have the availability to perform and complete all Scope of Work by **October 15, 2020, the Substantial Completion Date**.  
Contractors should note that in the event that a Town Election is facilitated in the Community House auditorium, construction will cease temporarily beginning the day before the date of an election through the open voting period. It is unknown at this time if voting will affect building access for construction activities at the Community House, but bidders should be aware of the possibility and take this into consideration with their bid pricing submitted on their bid submission forms  
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  17. Public access to the front door and the wheelchair ramp access door at the Community House is always to remain with full access during the entire construction process with public safety access measures to be addressed and implemented by the Contractor during construction.

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1. LOCATION

The complete project takes place at the Town of Longmeadow Community House.

2. CONTRACT DOCUMENTS

documents are available online through the Longmeadow Purchasing Department page found on [www.longmeadow.org](http://www.longmeadow.org), select Government from the website header, then select 'Purchasing' department, then select the link labeled 'Bids & RFPs', then the link 'Bid & RFP Finder' to access documents. Bid documents are also available to be mailed by contacting the Chad Thompson : [cthompson@longmeadow.org](mailto:cthompson@longmeadow.org) , Phone: 413-565-4185.

3. SITE EXAMINATION

A MANDATORY Pre-Bid Conference will be held as documented on the Legal Notice of the Invitation to Bid. Those submitting bids must attend the mandatory pre-bid conference and register during the conference with the Longmeadow Procurement Manager. Once the Longmeadow Procurement Manager publicly declares that the mandatory conference is over and complete no others will be allowed to register for the conference. Those that registered on the sign in sheet at the March 25, 2019 original mandatory pre-bid conference for the same project are automatically registered for the re-bid mandatory conference and are not required to attend the re-bid mandatory pre-bid conference.

Additional conference requests or opportunities to register will not be accommodated. Bids received from those that do not register during the Mandatory Pre-Bid conference will be rejected. Reference the legal notice about when and where to gather for the Mandatory Pre-Bid Conference.

4. SUBMITTAL, RECEIPT, AND OPENING OF BIDS

Sealed bids will be accepted until the bid deadline of 2:00 PM on Tuesday, July 21, 2020. Late bids received after the bid deadline will be rejected. Since the procurement office is only open to the public for mail and delivery only, the public bid opening will be remote only facilitated through [zoom.com](https://zoom.com) beginning at 2:30PM on the day of the bid deadline.

Access to the remote Zoom meeting is:

<https://zoom.us/j/93248111937?pwd=M1NQTVNnQitrOGJHOVU5UitjakQ1dz09> .

For Zoom access by phone call 646-558-8656, Meeting ID: 932 4811 1937, Password: 241436. The Zoom bid conference may be recorded.



**General Bid contract work**

General Contract work will be received by the Town of Longmeadow (herein called the "Owner") Sealed bids for this work will be received until Sealed bids will be accepted until the bid deadline of **2:00 PM on Tuesday, July 21, 2020**. Late bids received after the bid deadline will be rejected.

Each sealed envelope containing a bid must be plainly marked on the outside as '**IFB – Community House Roof and Balustrade Replacement**'. The envelope shall also bear on the outside the name of the bidder and complete address and contact information. Faxed and electronic bids are not acceptable.

The Owner may waive any informalities or minor defects or reject any and all bids. Any bid may be withdrawn prior to the above scheduled time for opening of bids or authorized postponement thereof. Any bid received after the time and date scheduled shall not be considered. No bidder may withdraw a bid within 30 days after the actual date of opening thereof. Should there be reasons why the contract cannot be awarded within the specified period, the time may be extended by mutual agreement between the Owner and the bidder(s).

**5. PREPARATION OF BID**

All bids must be made on the required Bid Form. All blank spaces for bid prices must be completed in ink or typewritten. The Bid Form must be executed when submitted. A conditional or qualified bid will not be considered. The contract documents contain the provisions required for the construction of the project. Information obtained from an officer, agent, or employee of the Owner, or any other person shall not affect the risks or obligations assumed by the contractor, or relieve him/her from fulfilling any of the conditions of the contract.

**6. MODIFICATION OF BID**

No modification of any bid will be considered by the Awarding Authority unless such modification is in writing, sealed and received by the Awarding Authority prior to the times respectively established herein for the receipt of the filed Sub-Bids and General Bids.

**7. ADDENDA AND INTERPRETATIONS**

No interpretation of the meaning of the drawings, specifications, or other contract documents will be made to any bidder orally.

Every request for such interpretation should be in writing addressed to Chad Thompson, Procurement manager for the Town of Longmeadow. Send inquiries to [cthompson@longmeadow.org](mailto:cthompson@longmeadow.org) , Phone – 413-565-4185. To be given consideration, written inquiries must be received no later than one hundred twenty hours (5 days) before the bid deadline. Any and all such interpretations and any supplemental instructions will be in the form of written addenda to the specifications, and all addenda so issued shall become part of the contract documents. Contractor shall acknowledge receipt of all addenda on his Bid Form.

8. BIDS

The bidder shall state in the blank spaces provided on the Bid Form, in both figures and words, the price for the work to be performed under this contract. Any unit prices applicable to the work and any amounts for alternates shall also be entered on the Bid Form.

9. TAXES

The Town has tax-exempt status. Successful bidder will receive tax number to submit for sales tax waiver.

10. BONDS

A 100% performance and payment bond issued by a company authorized to do business in Massachusetts and satisfactory to the Awarding Authority will be required from the successful bidder upon contract award.

Bonds shall be made payable to the Town of Longmeadow.

Contractor to utilize AIA Document A311 Performance Bond and Labor and Material Payment Bond.

11. CONDITIONS OF WORK

Each bidder must inform himself fully of the conditions relating to the construction of this project and the employment of labor therein. Failure to do so will not relieve a successful bidder of his obligation to furnish all material and labor necessary to carry out the provisions of his contract. The bidder understands that there will be other contractors working on the project and agrees that in carrying out his work he will employ such methods or means as will not cause any interruption of or interference with the work of any other contractor.

After bids have been submitted, the bidder shall not assert that there was a misunderstanding concerning quantities of work or concerning the nature of the work to be done.

12. The bidder's attention is directed to the fact that all applicable State Laws, Municipal Ordinances, and the rules and regulations of all authorities having jurisdiction over construction of this project shall apply to the contract throughout, and they will be deemed to be included in the contract the same as though herein written out in full.

13. OBLIGATION OF BIDDERS

At the time of the opening of bids, each bidder will be presumed to have inspected the site and to have read and to be thoroughly familiar with the drawings, specifications and contract documents. The failure or omission of any bidder to examine any form, instrument, or document shall in no way relieve any bidder of any obligation with respect to his/her bid.

14. ARCHITECT/ENGINEER

The Architect for the project is Hill-Engineers, Architects, Planners, Inc. Their address is 50 Depot Street, Dalton, MA 01226.

Questions and inquiries for the architect shall be submitted through the Town of Longmeadow Procurement Manager, Chad Thompson.  
[cthompson@longmeadow.org](mailto:cthompson@longmeadow.org), Phone- 413-565-4185.

15. SUBSTITUTIONS

Any reference in the specifications to any article, device, product, material, fixture, form, or type of construction by name, make, or catalog number, shall be interpreted as establishing a standard of quality, and shall not be construed as limiting competition. The contractor, in such cases, may, at his option, use any article, device, product, material, fixture forms or type of construction which, in the judgment of the architect as acceptable.

Upon contract award with the successful bidder submittals will be submitted to the architect for review and authorization. At this time the article, device, product, material, fixture, form or type of construction proposed by the successful bidder will be supplied to the architect for review for the determination of equal and comparable. The burden of proof of equality of a proposed substitution shall rest with the contractor.

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If a proposed substitution is not approved in writing with the awarded contractor, the contractor shall use the specified article, device, product, material, fixture, form or type of construction.

When a substitute article, device, product, material, fixture, form or type of construction is approved, any modification(s) to the work necessary as a result of the use of such substitute shall be made, complete by the contractor and at no additional expense to the Owner. No substitutions will be considered otherwise unless specifically provided in the contract documents.

16. LABOR REQUIREMENTS

All paid labor shall be capable of providing "First Class" quality workmanship.

18. EQUAL OPPORTUNITY

Massachusetts State Laws prohibits discrimination, the Town of Longmeadow is an affirmative action/equal opportunity employer, and encourages participation from certified minority and women-owned businesses.

19. WAGE REPORTING

The minimum wages to be paid for all labor on the project are established and in a schedule issued by the Department of Labor and Workforce Development, in accordance with Section 26A-27H of Chapter 149 of the M.G.L., as amended, said schedule being made a part of the Contract Documents and is included therein.

Contractor shall submit weekly payroll records to the Owner. Contractor and sub-contractors to use "Weekly Payroll Report Form" included in contract documents.

20. TOWN OFFICE CLOSING

In the event that the administrative offices of the Town of Longmeadow Including those located within the Community House are closed during the time of any mandatory pre-bid conference or bid deadline as a result of weather, natural disaster, or other uncontrolled events, etc, then the event affected by the closing will be postponed until the next regular business day (Monday through Friday, Holidays excluded) at the same time as originally published in the legal notice.

20. FILED SUB-BIDS

There are no filed sub-bids for this project. All the associated work is the general bid.

21. METHOD OF AWARD

The contract will be awarded to the lowest responsible and eligible bidder on the basis of the proposed Bid price for the Base Bid and Bid Alternate(s) selected for award by the Town of Longmeadow. Special attention is directed to the provision of General Laws Chapter 149, Section 44A defining the term 'lowest responsible and eligible bidder'. The project reference forms are supplied with the Bid Submission Forms. It is important that the information supplied allows the Town with the information needed to be able to complete an evaluation of the bidder.

22. POST-BID CONFERENCE

A post-bid conference will be held at the project prior to the execution of the General Contract with the successful General Bidder, the selected filed Sub-Bidders, and the Owner and Architect attendance to discuss the scheduling of operations to be performed under the contracts. The date of such conference will be established by the Owner/Architect.

23. TIME OF SUBSTANTIAL COMPLETION

It is agreed that time is of essence for the completion of all contracted work. The selected Bidders must agree to commence the project execution upon receipt of Notice to Proceed. Contractors will agree to obtain project substantial completion by **October 15, 2020**, the Substantial Completion Date.



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

**Prevailing Wage Rates**

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

CHARLES D. BAKER  
Governor

ROSALIN ACOSTA  
Secretary

KARYN E. POLITO  
Lt. Governor

MICHAEL FLANAGAN  
Director

**Awarding Authority:** Town of Longmeadow  
**Contract Number:** **City/Town:** LONGMEADOW  
**Description of Work:** COMMUNITY HOUSE ROOF - ROOF REPLACEMENT AND REPAIR, BALUSTRADE RAILING CONSTRUCTION AND INSTALLATION.  
**Job Location:** 735 Longmeadow Street, Longmeadow, MA 01106

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 criminal penalties.

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
<b>Construction</b>						
(2 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	06/01/2020	\$35.15	\$12.41	\$13.72	\$0.00	\$61.28
	08/01/2020	\$35.15	\$12.91	\$13.72	\$0.00	\$61.78
	12/01/2020	\$35.15	\$12.91	\$14.82	\$0.00	\$62.88
	06/01/2021	\$35.95	\$12.91	\$14.82	\$0.00	\$63.68
	08/01/2021	\$35.95	\$13.41	\$14.82	\$0.00	\$64.18
	12/01/2021	\$35.95	\$13.41	\$16.01	\$0.00	\$65.37
(3 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	06/01/2020	\$35.22	\$12.41	\$13.72	\$0.00	\$61.35
	08/01/2020	\$35.22	\$12.91	\$13.72	\$0.00	\$61.85
	12/01/2020	\$35.22	\$12.91	\$14.82	\$0.00	\$62.95
	06/01/2021	\$36.02	\$12.91	\$14.82	\$0.00	\$63.75
	08/01/2021	\$36.02	\$13.41	\$14.82	\$0.00	\$64.25
	12/01/2021	\$36.02	\$13.41	\$16.01	\$0.00	\$65.44
(4 & 5 AXLE) DRIVER - EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	06/01/2020	\$35.34	\$12.41	\$13.72	\$0.00	\$61.47
	08/01/2020	\$35.34	\$12.91	\$13.72	\$0.00	\$61.97
	12/01/2020	\$35.34	\$12.91	\$14.82	\$0.00	\$63.07
	06/01/2021	\$36.14	\$12.91	\$14.82	\$0.00	\$63.87
	08/01/2021	\$36.14	\$13.41	\$14.82	\$0.00	\$64.37
	12/01/2021	\$36.14	\$13.41	\$16.01	\$0.00	\$65.56
ADS/SUBMERSIBLE PILOT <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2019	\$102.78	\$9.90	\$21.15	\$0.00	\$133.83
For apprentice rates see "Apprentice- PILE DRIVER"						
AIR TRACK OPERATOR <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	12/02/2019	\$32.25	\$8.10	\$14.78	\$0.00	\$55.13
For apprentice rates see "Apprentice- LABORER"						
AIR TRACK OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY &amp; HIGHWAY)</i>	06/01/2020	\$32.25	\$8.60	\$13.03	\$0.00	\$53.88
	12/01/2020	\$33.06	\$8.60	\$13.03	\$0.00	\$54.69
	06/01/2021	\$33.90	\$8.60	\$13.03	\$0.00	\$55.53
	12/01/2021	\$34.73	\$8.60	\$13.03	\$0.00	\$56.36
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
ASBESTOS WORKER (PIPES & TANKS) <i>HEAT &amp; FROST INSULATORS LOCAL 6 (SPRINGFIELD)</i>	06/01/2020	\$34.20	\$12.50	\$8.35	\$0.00	\$55.05
	12/01/2020	\$35.10	\$12.50	\$8.35	\$0.00	\$55.95
ASPHALT RAKER <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	12/02/2019	\$31.75	\$8.10	\$14.78	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						
ASPHALT RAKER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY &amp; HIGHWAY)</i>	06/01/2020	\$31.75	\$8.60	\$13.03	\$0.00	\$53.38
	12/01/2020	\$32.56	\$8.60	\$13.03	\$0.00	\$54.19
	06/01/2021	\$33.40	\$8.60	\$13.03	\$0.00	\$55.03
	12/01/2021	\$34.23	\$8.60	\$13.03	\$0.00	\$55.86
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
AUTOMATIC GRADER-EXCAVATOR (RECLAIMER) <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2019	\$35.40	\$11.94	\$14.35	\$0.00	\$61.69
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BACKHOE/FRONT-END LOADER OPERATOR <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2019	\$35.40	\$11.94	\$14.35	\$0.00	\$61.69
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BARCO-TYPE JUMPING TAMPER <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	12/02/2019	\$31.75	\$8.10	\$14.78	\$0.00	\$54.63



Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- LABORER"						
BATCH/CEMENT PLANT - ON SITE <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2019	\$34.87	\$11.94	\$14.35	\$0.00	\$61.16
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
BLOCK PAVER, RAMMER / CURB SETTER <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	12/02/2019	\$32.25	\$8.10	\$14.78	\$0.00	\$55.13
For apprentice rates see "Apprentice- LABORER"						
BLOCK PAVER, RAMMER / CURB SETTER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY &amp; HIGHWAY)</i>	06/01/2020	\$32.25	\$8.60	\$13.03	\$0.00	\$53.88
	12/01/2020	\$33.06	\$8.60	\$13.03	\$0.00	\$54.69
	06/01/2021	\$33.90	\$8.60	\$13.03	\$0.00	\$55.53
	12/01/2021	\$34.73	\$8.60	\$13.03	\$0.00	\$56.36
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
BOILER MAKER <i>BOILERMAKERS LOCAL 29</i>	01/01/2020	\$46.10	\$7.07	\$17.98	\$0.00	\$71.15

**Apprentice - BOILERMAKER - Local 29**

**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) <i>BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)</i>	02/01/2020	\$42.81	\$10.75	\$19.96	\$0.00	\$73.52
	08/01/2020	\$44.16	\$10.75	\$20.11	\$0.00	\$75.02
	02/01/2021	\$44.71	\$10.75	\$20.11	\$0.00	\$75.57
	08/01/2021	\$46.11	\$10.75	\$20.27	\$0.00	\$77.13
	02/01/2022	\$46.64	\$10.75	\$20.27	\$0.00	\$77.66

**Classification**

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

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

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

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$21.41	\$10.75	\$19.96	\$0.00	\$52.12
2	60	\$25.69	\$10.75	\$19.96	\$0.00	\$56.40
3	70	\$29.97	\$10.75	\$19.96	\$0.00	\$60.68
4	80	\$34.25	\$10.75	\$19.96	\$0.00	\$64.96
5	90	\$38.53	\$10.75	\$19.96	\$0.00	\$69.24

**Effective Date - 08/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$22.08	\$10.75	\$20.11	\$0.00	\$52.94
2	60	\$26.50	\$10.75	\$20.11	\$0.00	\$57.36
3	70	\$30.91	\$10.75	\$20.11	\$0.00	\$61.77
4	80	\$35.33	\$10.75	\$20.11	\$0.00	\$66.19
5	90	\$39.74	\$10.75	\$20.11	\$0.00	\$70.60

**Notes:**

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

BULLDOZER/POWER SHOVEL/TREE SHREDDER /CLAM SHELL OPERATING	12/01/2019	\$35.40	\$11.94	\$14.35	\$0.00	\$61.69
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ENGINEERS LOCAL 98

For apprentice rates see "Apprentice- OPERATING ENGINEERS"

CAISSON & UNDERPINNING BOTTOM MAN LABORERS - FOUNDATION AND MARINE	06/01/2020	\$40.30	\$8.60	\$17.24	\$0.00	\$66.14
	12/01/2020	\$41.28	\$8.60	\$17.24	\$0.00	\$67.12
	06/01/2021	\$42.30	\$8.60	\$17.24	\$0.00	\$68.14
	12/01/2021	\$43.31	\$8.60	\$17.24	\$0.00	\$69.15

For apprentice rates see "Apprentice- LABORER"

CAISSON & UNDERPINNING LABORER LABORERS - FOUNDATION AND MARINE	06/01/2020	\$39.15	\$8.60	\$17.24	\$0.00	\$64.99
	12/01/2020	\$40.13	\$8.60	\$17.24	\$0.00	\$65.97
	06/01/2021	\$41.15	\$8.60	\$17.24	\$0.00	\$66.99
	12/01/2021	\$42.16	\$8.60	\$17.24	\$0.00	\$68.00

For apprentice rates see "Apprentice- LABORER"

CAISSON & UNDERPINNING TOP MAN LABORERS - FOUNDATION AND MARINE	06/01/2020	\$39.15	\$8.60	\$17.24	\$0.00	\$64.99
	12/01/2020	\$40.13	\$8.60	\$17.24	\$0.00	\$65.97
	06/01/2021	\$41.15	\$8.60	\$17.24	\$0.00	\$66.99
	12/01/2021	\$42.16	\$8.60	\$17.24	\$0.00	\$68.00

For apprentice rates see "Apprentice- LABORER"

CARBIDE CORE DRILL OPERATOR LABORERS - ZONE 3 (BUILDING & SITE)	12/02/2019	\$31.75	\$8.10	\$14.78	\$0.00	\$54.63
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For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
CARPENTER	03/01/2020	\$38.04	\$7.84	\$16.87	\$0.00	\$62.75
<i>CARPENTERS LOCAL 336 - HAMPDEN HAMPSHIRE FRANKLIN</i>	09/01/2020	\$38.54	\$7.84	\$16.87	\$0.00	\$63.25
	03/01/2021	\$39.04	\$7.84	\$16.87	\$0.00	\$63.75
	09/01/2021	\$39.54	\$7.84	\$16.87	\$0.00	\$64.25
	03/01/2022	\$40.04	\$7.84	\$16.87	\$0.00	\$64.75
	09/01/2022	\$40.54	\$7.84	\$16.87	\$0.00	\$65.25
	03/01/2023	\$41.04	\$7.84	\$16.87	\$0.00	\$65.75

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

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

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

**Effective Date - 09/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$19.27	\$7.84	\$1.32	\$0.00	\$28.43
2	60	\$23.12	\$7.84	\$1.32	\$0.00	\$32.28
3	70	\$26.98	\$7.84	\$12.91	\$0.00	\$47.73
4	75	\$28.91	\$7.84	\$12.91	\$0.00	\$49.66
5	80	\$30.83	\$7.84	\$14.23	\$0.00	\$52.90
6	80	\$30.83	\$7.84	\$14.23	\$0.00	\$52.90
7	90	\$34.69	\$7.84	\$15.55	\$0.00	\$58.08
8	90	\$34.69	\$7.84	\$15.55	\$0.00	\$58.08

**Notes:**

% Indentured After 10/1/17; 45/45/55/55/70/70/80/80  
 Step 1&2 \$26.28/ 3&4 \$31.36/ 5&6 \$48.70/ 7&8 \$53.82

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

CARPENTER WOOD FRAME	10/01/2019	\$23.49	\$7.07	\$7.86	\$0.00	\$38.42
<i>CARPENTERS LOCAL 336 - HAMPDEN HAMPSHIRE FRANKLIN</i>						

All Aspects of New Wood Frame Work

**Classification**

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

**Apprentice - CARPENTER (Wood Frame) - 336 Hampden Hampshire**

**Effective Date - 10/01/2019**

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

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

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

CEMENT MASONRY/PLASTERING BRICKLAYERS LOCAL 3 (SPRINGFIELD/PITTSFIELD)	01/01/2020	\$41.94	\$12.70	\$17.64	\$0.62	\$72.90
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**Apprentice - CEMENT MASONRY/PLASTERING - Springfield/Pittsfield**

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

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

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

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

CHAIN SAW OPERATOR LABORERS - ZONE 3 (BUILDING & SITE)	12/02/2019	\$31.75	\$8.10	\$14.78	\$0.00	\$54.63
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For apprentice rates see "Apprentice- LABORER"

COMPRESSOR OPERATOR OPERATING ENGINEERS LOCAL 98	12/01/2019	\$34.87	\$11.94	\$14.35	\$0.00	\$61.16
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For apprentice rates see "Apprentice- OPERATING ENGINEERS"

CRANE OPERATOR OPERATING ENGINEERS LOCAL 98	12/01/2019	\$38.90	\$11.94	\$14.35	\$0.00	\$65.19
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For apprentice rates see "Apprentice- OPERATING ENGINEERS"

DELEADER (BRIDGE) PAINTERS LOCAL 35 - ZONE 3	01/01/2020	\$50.96	\$8.20	\$22.10	\$0.00	\$81.26
	07/01/2020	\$51.51	\$8.25	\$22.40	\$0.00	\$82.16
	01/01/2021	\$52.06	\$8.25	\$22.75	\$0.00	\$83.06

**Classification**

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

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

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

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.48	\$8.20	\$0.00	\$0.00	\$33.68
2	55	\$28.03	\$8.20	\$5.94	\$0.00	\$42.17
3	60	\$30.58	\$8.20	\$6.48	\$0.00	\$45.26
4	65	\$33.12	\$8.20	\$7.02	\$0.00	\$48.34
5	70	\$35.67	\$8.20	\$18.86	\$0.00	\$62.73
6	75	\$38.22	\$8.20	\$19.40	\$0.00	\$65.82
7	80	\$40.77	\$8.20	\$19.94	\$0.00	\$68.91
8	90	\$45.86	\$8.20	\$21.02	\$0.00	\$75.08

**Effective Date - 07/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.76	\$8.25	\$0.00	\$0.00	\$34.01
2	55	\$28.33	\$8.25	\$6.05	\$0.00	\$42.63
3	60	\$30.91	\$8.25	\$6.60	\$0.00	\$45.76
4	65	\$33.48	\$8.25	\$7.15	\$0.00	\$48.88
5	70	\$36.06	\$8.25	\$19.10	\$0.00	\$63.41
6	75	\$38.63	\$8.25	\$19.65	\$0.00	\$66.53
7	80	\$41.21	\$8.25	\$20.20	\$0.00	\$69.66
8	90	\$46.36	\$8.25	\$21.30	\$0.00	\$75.91

**Notes:**

Steps are 750 hrs.

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

DEMO: ADZEMAN <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	12/01/2019	\$39.30	\$8.10	\$16.60	\$0.00	\$64.00
For apprentice rates see "Apprentice- LABORER"						
DEMO: BACKHOE/LOADER/HAMMER OPERATOR <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	12/01/2019	\$40.30	\$8.10	\$16.60	\$0.00	\$65.00
For apprentice rates see "Apprentice- LABORER"						
DEMO: BURNERS <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	12/01/2019	\$40.05	\$8.10	\$16.60	\$0.00	\$64.75
For apprentice rates see "Apprentice- LABORER"						
DEMO: CONCRETE CUTTER/SAWYER <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	12/01/2019	\$40.30	\$8.10	\$16.60	\$0.00	\$65.00
For apprentice rates see "Apprentice- LABORER"						
DEMO: JACKHAMMER OPERATOR <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	12/01/2019	\$40.05	\$8.10	\$16.60	\$0.00	\$64.75
For apprentice rates see "Apprentice- LABORER"						
DEMO: WRECKING LABORER <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	12/01/2019	\$39.30	\$8.10	\$16.60	\$0.00	\$64.00
For apprentice rates see "Apprentice- LABORER"						
DIVER <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2019	\$68.52	\$9.90	\$21.15	\$0.00	\$99.57

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2019	\$48.94	\$9.90	\$21.15	\$0.00	\$79.99
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER TENDER (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2019	\$73.41	\$9.90	\$21.15	\$0.00	\$104.46
For apprentice rates see "Apprentice- PILE DRIVER"						
DIVER/SLURRY (EFFLUENT) <i>PILE DRIVER LOCAL 56 (ZONE 3)</i>	08/01/2019	\$102.78	\$9.90	\$21.15	\$0.00	\$133.83
For apprentice rates see "Apprentice- PILE DRIVER"						
ELECTRICIAN (Including Core Drilling) <i>ELECTRICIANS LOCAL 7</i>	06/28/2020	\$44.01	\$11.25	\$12.82	\$0.00	\$68.08
	01/03/2021	\$44.61	\$11.50	\$12.99	\$0.00	\$69.10
	06/27/2021	\$45.21	\$11.75	\$13.26	\$0.00	\$70.22
	01/02/2022	\$45.81	\$12.00	\$13.42	\$0.00	\$71.23
	07/03/2022	\$46.41	\$12.25	\$13.69	\$0.00	\$72.35
	01/01/2023	\$47.01	\$12.50	\$13.96	\$0.00	\$73.47

**Apprentice - ELECTRICIAN - Local 7**

**Effective Date - 06/28/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$17.60	\$6.15	\$0.53	\$0.00	\$24.28
2	45	\$19.80	\$6.15	\$0.59	\$0.00	\$26.54
3	50	\$22.01	\$11.25	\$6.96	\$0.00	\$40.22
4	55	\$24.21	\$11.25	\$7.03	\$0.00	\$42.49
5	65	\$28.61	\$11.25	\$8.72	\$0.00	\$48.58
6	70	\$30.81	\$11.25	\$9.82	\$0.00	\$51.88

**Effective Date - 01/03/2021**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$17.84	\$6.90	\$0.54	\$0.00	\$25.28
2	45	\$20.07	\$6.90	\$0.60	\$0.00	\$27.57
3	50	\$22.31	\$11.50	\$7.02	\$0.00	\$40.83
4	55	\$24.54	\$11.50	\$7.09	\$0.00	\$43.13
5	65	\$29.00	\$11.50	\$8.81	\$0.00	\$49.31
6	70	\$31.23	\$11.50	\$9.94	\$0.00	\$52.67

**Notes:**

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

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

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

**Apprentice - ELEVATOR CONSTRUCTOR - Local 41**

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

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

**Effective Date - 01/01/2021**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$28.35	\$15.88	\$0.00	\$0.00	\$44.23
2	55	\$31.18	\$15.88	\$19.31	\$0.00	\$66.37
3	65	\$36.85	\$15.88	\$19.31	\$0.00	\$72.04
4	70	\$39.68	\$15.88	\$19.31	\$0.00	\$74.87
5	80	\$45.35	\$15.88	\$19.31	\$0.00	\$80.54

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

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

ELEVATOR CONSTRUCTOR HELPER <i>ELEVATOR CONSTRUCTORS LOCAL 41</i>	01/01/2020	\$38.40	\$15.73	\$18.41	\$0.00	\$72.54
	01/01/2021	\$39.68	\$15.88	\$19.31	\$0.00	\$74.87
	01/01/2022	\$41.03	\$16.03	\$20.21	\$0.00	\$77.27

For apprentice rates see "Apprentice - ELEVATOR CONSTRUCTOR"

FENCE & GUARD RAIL ERECTOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY &amp; HIGHWAY)</i>	06/01/2020	\$31.75	\$8.60	\$13.03	\$0.00	\$53.38
	12/01/2020	\$32.56	\$8.60	\$13.03	\$0.00	\$54.19
	06/01/2021	\$33.40	\$8.60	\$13.03	\$0.00	\$55.03
	12/01/2021	\$34.23	\$8.60	\$13.03	\$0.00	\$55.86

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

FIELD ENG.INST/ROD-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/1999	\$18.84	\$4.80	\$4.10	\$0.00	\$27.74
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FIELD ENG.PARTY CHIEF:BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/1999	\$21.33	\$4.80	\$4.10	\$0.00	\$30.23
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FIELD ENG.SURVEY CHIEF-BLDG,SITE,HVY/HWY <i>OPERATING ENGINEERS LOCAL 98</i>	06/01/1999	\$22.33	\$4.80	\$4.10	\$0.00	\$31.23
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FIRE ALARM INSTALLER <i>ELECTRICIANS LOCAL 7</i>	06/28/2020	\$44.01	\$11.25	\$12.82	\$0.00	\$68.08
	01/03/2021	\$44.61	\$11.50	\$12.99	\$0.00	\$69.10
	06/27/2021	\$45.21	\$11.75	\$13.26	\$0.00	\$70.22
	01/02/2022	\$45.81	\$12.00	\$13.42	\$0.00	\$71.23
	07/03/2022	\$46.41	\$12.25	\$13.69	\$0.00	\$72.35
	01/01/2023	\$47.01	\$12.50	\$13.96	\$0.00	\$73.47

For apprentice rates see "Apprentice- ELECTRICIAN"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
FIRE ALARM REPAIR / MAINTENANCE / COMMISSIONING <i>ELECTRICIANS</i>	06/28/2020	\$44.01	\$11.25	\$12.82	\$0.00	\$68.08
<i>LOCAL 7</i>	01/03/2021	\$44.61	\$11.50	\$12.99	\$0.00	\$69.10
	06/27/2021	\$45.21	\$11.75	\$13.26	\$0.00	\$70.22
	01/02/2022	\$45.81	\$12.00	\$13.42	\$0.00	\$71.23
	07/03/2022	\$46.41	\$12.25	\$13.69	\$0.00	\$72.35
	01/01/2023	\$47.01	\$12.50	\$13.96	\$0.00	\$73.47

For apprentice rates see "Apprentice- TELECOMMUNICATIONS TECHNICIAN"

FIREMAN <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2019	\$34.87	\$11.94	\$14.35	\$0.00	\$61.16
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**Apprentice - OPERATING ENGINEERS - Local 98 Class 3**

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

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

**Notes:**

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

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

FLAGGER & SIGNALER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY &amp; HIGHWAY)</i>	06/01/2020	\$23.50	\$8.60	\$13.03	\$0.00	\$45.13
	12/01/2020	\$24.50	\$8.60	\$13.03	\$0.00	\$46.13
	06/01/2021	\$24.50	\$8.60	\$13.03	\$0.00	\$46.13
	12/01/2021	\$24.50	\$8.60	\$13.03	\$0.00	\$46.13

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

FLOORCOVERER <i>FLOORCOVERERS LOCAL 2168 ZONE III</i>	09/01/2019	\$37.44	\$7.84	\$16.87	\$0.00	\$62.15
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**Apprentice - FLOORCOVERER - Local 2168 Zone III**

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

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

**Notes:** Steps are 750 hrs.

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

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

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



Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
FORK LIFT <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2019	\$35.09	\$11.94	\$14.35	\$0.00	\$61.38
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
GENERATORS/LIGHTING PLANTS <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2019	\$31.64	\$11.94	\$14.35	\$0.00	\$57.93
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
GLAZIER (GLASS PLANK/AIR BARRIER/INTERIOR SYSTEMS) <i>GLAZIERS LOCAL 1333</i>	06/01/2020	\$39.18	\$10.80	\$10.45	\$0.00	\$60.43

**Apprentice - GLAZIER - Local 1333**

**Effective Date - 06/01/2020**

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

**Notes:**

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

GRADER/TRENCHING MACHINE/DERRICK <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2019	\$35.40	\$11.94	\$14.35	\$0.00	\$61.69
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
HVAC (DUCTWORK) <i>SHEETMETAL WORKERS LOCAL 63</i>	01/01/2020	\$36.99	\$10.64	\$16.22	\$1.77	\$65.62
For apprentice rates see "Apprentice- SHEET METAL WORKER"						
HVAC (ELECTRICAL CONTROLS) <i>ELECTRICIANS LOCAL 7</i>	06/28/2020	\$44.01	\$11.25	\$12.82	\$0.00	\$68.08
	01/03/2021	\$44.61	\$11.50	\$12.99	\$0.00	\$69.10
	06/27/2021	\$45.21	\$11.75	\$13.26	\$0.00	\$70.22
	01/02/2022	\$45.81	\$12.00	\$13.42	\$0.00	\$71.23
	07/03/2022	\$46.41	\$12.25	\$13.69	\$0.00	\$72.35
	01/01/2023	\$47.01	\$12.50	\$13.96	\$0.00	\$73.47
For apprentice rates see "Apprentice- ELECTRICIAN"						
HVAC (TESTING AND BALANCING - AIR) <i>SHEETMETAL WORKERS LOCAL 63</i>	01/01/2020	\$36.99	\$10.64	\$16.22	\$1.77	\$65.62
For apprentice rates see "Apprentice- SHEET METAL WORKER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
HVAC (TESTING AND BALANCING -WATER) <i>PLUMBERS &amp; PIPEFITTERS LOCAL 104</i>	03/17/2020	\$41.71	\$9.05	\$16.35	\$0.00	\$67.11
	09/17/2020	\$42.71	\$9.05	\$16.35	\$0.00	\$68.11
	03/17/2021	\$43.71	\$9.05	\$16.35	\$0.00	\$69.11
	09/17/2021	\$44.71	\$9.05	\$16.35	\$0.00	\$70.11
	03/17/2022	\$45.96	\$9.05	\$16.35	\$0.00	\$71.36
	09/17/2022	\$46.96	\$9.05	\$16.35	\$0.00	\$72.36
	03/17/2023	\$48.21	\$9.05	\$16.35	\$0.00	\$73.61
	09/17/2023	\$49.21	\$9.05	\$16.35	\$0.00	\$74.61
	03/17/2024	\$50.46	\$9.05	\$16.35	\$0.00	\$75.86
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						

HVAC MECHANIC <i>PLUMBERS &amp; PIPEFITTERS LOCAL 104</i>	03/17/2020	\$41.71	\$9.05	\$16.35	\$0.00	\$67.11
	09/17/2020	\$42.71	\$9.05	\$16.35	\$0.00	\$68.11
	03/17/2021	\$43.71	\$9.05	\$16.35	\$0.00	\$69.11
	09/17/2021	\$44.71	\$9.05	\$16.35	\$0.00	\$70.11
	03/17/2022	\$45.96	\$9.05	\$16.35	\$0.00	\$71.36
	09/17/2022	\$46.96	\$9.05	\$16.35	\$0.00	\$72.36
	03/17/2023	\$48.21	\$9.05	\$16.35	\$0.00	\$73.61
	09/17/2023	\$49.21	\$9.05	\$16.35	\$0.00	\$74.61
	03/17/2024	\$50.46	\$9.05	\$16.35	\$0.00	\$75.86
For apprentice rates see "Apprentice- PIPEFITTER" or "PLUMBER/PIPEFITTER"						

HYDRAULIC DRILLS (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY &amp; HIGHWAY)</i>	06/01/2020	\$32.25	\$8.60	\$13.03	\$0.00	\$53.88
	12/01/2020	\$33.06	\$8.60	\$13.03	\$0.00	\$54.69
	06/01/2021	\$33.90	\$8.60	\$13.03	\$0.00	\$55.53
	12/01/2021	\$34.73	\$8.60	\$13.03	\$0.00	\$56.36
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						

INSULATOR (PIPES & TANKS) <i>HEAT &amp; FROST INSULATORS LOCAL 6 (SPRINGFIELD)</i>	09/01/2019	\$38.75	\$12.80	\$16.40	\$0.00	\$67.95
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**Apprentice - ASBESTOS INSULATOR (Pipes & Tanks) - Local 6 Springfield**

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

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

**Notes:**  
Steps are 1 year

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

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

**Classification**

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

**Apprentice - IRONWORKER - Local 7 Springfield**

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

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

**Effective Date - 09/16/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$22.11	\$8.00	\$20.75	\$0.00	\$50.86
2	70	\$25.80	\$8.00	\$20.75	\$0.00	\$54.55
3	75	\$27.64	\$8.00	\$20.75	\$0.00	\$56.39
4	80	\$29.48	\$8.00	\$20.75	\$0.00	\$58.23
5	85	\$31.32	\$8.00	\$20.75	\$0.00	\$60.07
6	90	\$33.17	\$8.00	\$20.75	\$0.00	\$61.92

**Notes:**

Structural 1:6; Ornamental 1:4

**Apprentice to Journeyworker Ratio:**

JACKHAMMER & PAVING BREAKER OPERATOR LABORERS - ZONE 3 (BUILDING & SITE)	12/02/2019	\$31.75	\$8.10	\$14.78	\$0.00	\$54.63
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For apprentice rates see "Apprentice- LABORER"

LABORER LABORERS - ZONE 3 (BUILDING & SITE)	12/02/2019	\$31.50	\$8.10	\$14.78	\$0.00	\$54.38
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**Apprentice - LABORER - Zone 3 Building & Site**

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

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$18.90	\$8.10	\$14.78	\$0.00	\$41.78
2	70	\$22.05	\$8.10	\$14.78	\$0.00	\$44.93
3	80	\$25.20	\$8.10	\$14.78	\$0.00	\$48.08
4	90	\$28.35	\$8.10	\$14.78	\$0.00	\$51.23

**Notes:**

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

LABORER (HEAVY & HIGHWAY) LABORERS - ZONE 3 (HEAVY & HIGHWAY)	06/01/2020	\$31.50	\$8.60	\$13.03	\$0.00	\$53.13
	12/01/2020	\$32.31	\$8.60	\$13.03	\$0.00	\$53.94
	06/01/2021	\$33.15	\$8.60	\$13.03	\$0.00	\$54.78
	12/01/2021	\$33.98	\$8.60	\$13.03	\$0.00	\$55.61

**Apprentice - LABORER (Heavy & Highway) - Zone 3**

**Effective Date - 06/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$18.90	\$8.60	\$13.03	\$0.00	\$40.53
2	70	\$22.05	\$8.60	\$13.03	\$0.00	\$43.68
3	80	\$25.20	\$8.60	\$13.03	\$0.00	\$46.83
4	90	\$28.35	\$8.60	\$13.03	\$0.00	\$49.98

**Effective Date - 12/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	60	\$19.39	\$8.60	\$13.03	\$0.00	\$41.02
2	70	\$22.62	\$8.60	\$13.03	\$0.00	\$44.25
3	80	\$25.85	\$8.60	\$13.03	\$0.00	\$47.48
4	90	\$29.08	\$8.60	\$13.03	\$0.00	\$50.71

**Notes:**

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

LABORER: CARPENTER TENDER LABORERS - ZONE 3 (BUILDING & SITE)	12/02/2019	\$31.50	\$8.10	\$14.78	\$0.00	\$54.38
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For apprentice rates see "Apprentice- LABORER"

LABORER: CEMENT FINISHER TENDER LABORERS - ZONE 3 (BUILDING & SITE)	12/02/2019	\$31.75	\$8.10	\$14.78	\$0.00	\$54.63
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For apprentice rates see "Apprentice- LABORER"

LABORER: HAZARDOUS WASTE/ASBESTOS REMOVER LABORERS - ZONE 3 (BUILDING & SITE)	06/01/2020	\$31.60	\$8.60	\$15.09	\$0.00	\$55.29
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For apprentice rates see "Apprentice- LABORER"

LABORER: MASON TENDER LABORERS - ZONE 3 (BUILDING & SITE)	12/02/2019	\$32.50	\$8.10	\$14.78	\$0.00	\$55.38
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For apprentice rates see "Apprentice- LABORER"

LABORER: MASON TENDER (HEAVY & HIGHWAY) LABORERS - ZONE 3 (HEAVY & HIGHWAY)	06/01/2020	\$31.75	\$8.60	\$13.03	\$0.00	\$53.38
	12/01/2020	\$32.56	\$8.60	\$13.03	\$0.00	\$54.19
	06/01/2021	\$33.40	\$8.60	\$13.03	\$0.00	\$55.03
	12/01/2021	\$34.23	\$8.60	\$13.03	\$0.00	\$55.86

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

LABORER: MULTI-TRADE TENDER LABORERS - ZONE 3 (BUILDING & SITE)	12/02/2019	\$31.50	\$8.10	\$14.78	\$0.00	\$54.38
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For apprentice rates see "Apprentice- LABORER"

LABORER: TREE REMOVER LABORERS - ZONE 3 (BUILDING & SITE)	12/02/2019	\$31.50	\$8.10	\$14.78	\$0.00	\$54.38
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This classification applies to the removal of standing trees, and the trimming and removal of branches and limbs when related to public works construction or site clearance incidental to construction . For apprentice rates see "Apprentice- LABORER"

LABORER: LASER BEAM OPERATOR LABORERS - ZONE 3 (BUILDING & SITE)	12/02/2019	\$31.75	\$8.10	\$14.78	\$0.00	\$54.63
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For apprentice rates see "Apprentice- LABORER"

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
LASER BEAM OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY &amp; HIGHWAY)</i>	06/01/2020	\$31.75	\$8.60	\$13.03	\$0.00	\$53.38
	12/01/2020	\$32.56	\$8.60	\$13.03	\$0.00	\$54.19
	06/01/2021	\$33.40	\$8.60	\$13.03	\$0.00	\$55.03
	12/01/2021	\$34.23	\$8.60	\$13.03	\$0.00	\$55.86

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

MARBLE & TILE FINISHERS <i>BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE &amp; TILE</i>	02/01/2020	\$35.17	\$10.75	\$19.37	\$0.00	\$65.29
	08/01/2020	\$36.17	\$10.75	\$19.49	\$0.00	\$66.41
	02/01/2021	\$36.67	\$10.75	\$19.49	\$0.00	\$66.91
	08/01/2021	\$37.67	\$10.75	\$19.62	\$0.00	\$68.04
	02/01/2022	\$38.12	\$10.75	\$19.62	\$0.00	\$68.49

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

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

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$17.59	\$10.75	\$19.37	\$0.00	\$47.71
2	60	\$21.10	\$10.75	\$19.37	\$0.00	\$51.22
3	70	\$24.62	\$10.75	\$19.37	\$0.00	\$54.74
4	80	\$28.14	\$10.75	\$19.37	\$0.00	\$58.26
5	90	\$31.65	\$10.75	\$19.37	\$0.00	\$61.77

**Effective Date - 08/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$18.09	\$10.75	\$19.49	\$0.00	\$48.33
2	60	\$21.70	\$10.75	\$19.49	\$0.00	\$51.94
3	70	\$25.32	\$10.75	\$19.49	\$0.00	\$55.56
4	80	\$28.94	\$10.75	\$19.49	\$0.00	\$59.18
5	90	\$32.55	\$10.75	\$19.49	\$0.00	\$62.79

**Notes:**

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

**MARBLE MASON/TILE LAYER(SP/PT)SeeBrick**

*BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE*

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

MECH. SWEEPER OPERATOR (ON CONST. SITES) <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2019	\$35.40	\$11.94	\$14.35	\$0.00	\$61.69
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For apprentice rates see "Apprentice- OPERATING ENGINEERS"

MECHANIC/WELDER/BOOM TRUCK <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2019	\$34.87	\$11.94	\$14.35	\$0.00	\$61.16
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For apprentice rates see "Apprentice- OPERATING ENGINEERS"

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

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

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

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

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

**Notes:**

Steps are 2,000 hours

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

<b>MORTAR MIXER</b> <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	12/02/2019	\$31.75	\$8.10	\$14.78	\$0.00	\$54.63
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For apprentice rates see "Apprentice- LABORER"

<b>OILER</b> <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2019	\$30.56	\$11.94	\$14.35	\$0.00	\$56.85
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For apprentice rates see "Apprentice- OPERATING ENGINEERS"

<b>OTHER POWER DRIVEN EQUIPMENT - CLASS VI</b> <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2019	\$28.58	\$11.94	\$14.35	\$0.00	\$54.87
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For apprentice rates see "Apprentice- OPERATING ENGINEERS"

<b>PAINTER (BRIDGES/TANKS)</b> <i>PAINTERS LOCAL 35 - ZONE 3</i>	01/01/2020	\$50.96	\$8.20	\$22.10	\$0.00	\$81.26
	07/01/2020	\$51.51	\$8.25	\$22.40	\$0.00	\$82.16
	01/01/2021	\$52.06	\$8.25	\$22.75	\$0.00	\$83.06

**Classification**

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

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

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

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.48	\$8.20	\$0.00	\$0.00	\$33.68
2	55	\$28.03	\$8.20	\$5.94	\$0.00	\$42.17
3	60	\$30.58	\$8.20	\$6.48	\$0.00	\$45.26
4	65	\$33.12	\$8.20	\$7.02	\$0.00	\$48.34
5	70	\$35.67	\$8.20	\$18.86	\$0.00	\$62.73
6	75	\$38.22	\$8.20	\$19.40	\$0.00	\$65.82
7	80	\$40.77	\$8.20	\$19.94	\$0.00	\$68.91
8	90	\$45.86	\$8.20	\$21.02	\$0.00	\$75.08

**Effective Date - 07/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$25.76	\$8.25	\$0.00	\$0.00	\$34.01
2	55	\$28.33	\$8.25	\$6.05	\$0.00	\$42.63
3	60	\$30.91	\$8.25	\$6.60	\$0.00	\$45.76
4	65	\$33.48	\$8.25	\$7.15	\$0.00	\$48.88
5	70	\$36.06	\$8.25	\$19.10	\$0.00	\$63.41
6	75	\$38.63	\$8.25	\$19.65	\$0.00	\$66.53
7	80	\$41.21	\$8.25	\$20.20	\$0.00	\$69.66
8	90	\$46.36	\$8.25	\$21.30	\$0.00	\$75.91

**Notes:**

Steps are 750 hrs.

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

PAINTER (SPRAY OR SANDBLAST, NEW) *	01/01/2020	\$34.33	\$8.20	\$18.20	\$0.00	\$60.73
* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. PAINTERS LOCAL 35 - ZONE 3	07/01/2020	\$34.88	\$8.25	\$18.50	\$0.00	\$61.63
	01/01/2021	\$35.43	\$8.25	\$18.85	\$0.00	\$62.53

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

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

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$17.17	\$8.20	\$0.00	\$0.00	\$25.37
2	55	\$18.88	\$8.20	\$3.80	\$0.00	\$30.88
3	60	\$20.60	\$8.20	\$4.14	\$0.00	\$32.94
4	65	\$22.31	\$8.20	\$4.49	\$0.00	\$35.00
5	70	\$24.03	\$8.20	\$16.13	\$0.00	\$48.36
6	75	\$25.75	\$8.20	\$16.48	\$0.00	\$50.43
7	80	\$27.46	\$8.20	\$16.82	\$0.00	\$52.48
8	90	\$30.90	\$8.20	\$17.51	\$0.00	\$56.61

**Effective Date - 07/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$17.44	\$8.25	\$0.00	\$0.00	\$25.69
2	55	\$19.18	\$8.25	\$3.91	\$0.00	\$31.34
3	60	\$20.93	\$8.25	\$4.26	\$0.00	\$33.44
4	65	\$22.67	\$8.25	\$4.62	\$0.00	\$35.54
5	70	\$24.42	\$8.25	\$16.37	\$0.00	\$49.04
6	75	\$26.16	\$8.25	\$16.73	\$0.00	\$51.14
7	80	\$27.90	\$8.25	\$17.08	\$0.00	\$53.23
8	90	\$31.39	\$8.25	\$17.79	\$0.00	\$57.43

**Notes:**  
Steps are 750 hrs.

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

PAINTER (SPRAY OR SANDBLAST, REPAINT)	01/01/2020	\$31.65	\$8.20	\$18.20	\$0.00	\$58.05
PAINTERS LOCAL 35 - ZONE 3	07/01/2020	\$32.20	\$8.25	\$18.50	\$0.00	\$58.95
	01/01/2021	\$32.75	\$8.25	\$18.85	\$0.00	\$59.85



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

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

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$15.83	\$8.20	\$0.00	\$0.00	\$24.03
2	55	\$17.41	\$8.20	\$3.80	\$0.00	\$29.41
3	60	\$18.99	\$8.20	\$4.14	\$0.00	\$31.33
4	65	\$20.57	\$8.20	\$4.49	\$0.00	\$33.26
5	70	\$22.16	\$8.20	\$16.13	\$0.00	\$46.49
6	75	\$23.74	\$8.20	\$16.48	\$0.00	\$48.42
7	80	\$25.32	\$8.20	\$16.82	\$0.00	\$50.34
8	90	\$28.49	\$8.20	\$17.51	\$0.00	\$54.20

**Effective Date - 07/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$16.10	\$8.25	\$0.00	\$0.00	\$24.35
2	55	\$17.71	\$8.25	\$3.91	\$0.00	\$29.87
3	60	\$19.32	\$8.25	\$4.26	\$0.00	\$31.83
4	65	\$20.93	\$8.25	\$4.62	\$0.00	\$33.80
5	70	\$22.54	\$8.25	\$16.37	\$0.00	\$47.16
6	75	\$24.15	\$8.25	\$16.73	\$0.00	\$49.13
7	80	\$25.76	\$8.25	\$17.08	\$0.00	\$51.09
8	90	\$28.98	\$8.25	\$17.79	\$0.00	\$55.02

**Notes:**  
Steps are 750 hrs.

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

PAINTER / TAPER (BRUSH, NEW) *	01/01/2020	\$32.93	\$8.20	\$18.20	\$0.00	\$59.33
* If 30% or more of surfaces to be painted are new construction, NEW paint rate shall be used. PAINTERS LOCAL 35 - ZONE 3	07/01/2020	\$33.48	\$8.25	\$18.50	\$0.00	\$60.23
	01/01/2021	\$34.03	\$8.25	\$18.85	\$0.00	\$61.13

**Classification**

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

**Apprentice - PAINTER - Local 35 Zone 3 - BRUSH NEW**

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

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$16.47	\$8.20	\$0.00	\$0.00	\$24.67
2	55	\$18.11	\$8.20	\$3.80	\$0.00	\$30.11
3	60	\$19.76	\$8.20	\$4.14	\$0.00	\$32.10
4	65	\$21.40	\$8.20	\$4.49	\$0.00	\$34.09
5	70	\$23.05	\$8.20	\$16.13	\$0.00	\$47.38
6	75	\$24.70	\$8.20	\$16.48	\$0.00	\$49.38
7	80	\$26.34	\$8.20	\$16.82	\$0.00	\$51.36
8	90	\$29.64	\$8.20	\$17.51	\$0.00	\$55.35

**Effective Date - 07/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$16.74	\$8.25	\$0.00	\$0.00	\$24.99
2	55	\$18.41	\$8.25	\$3.91	\$0.00	\$30.57
3	60	\$20.09	\$8.25	\$4.26	\$0.00	\$32.60
4	65	\$21.76	\$8.25	\$4.62	\$0.00	\$34.63
5	70	\$23.44	\$8.25	\$16.37	\$0.00	\$48.06
6	75	\$25.11	\$8.25	\$16.73	\$0.00	\$50.09
7	80	\$26.78	\$8.25	\$17.08	\$0.00	\$52.11
8	90	\$30.13	\$8.25	\$17.79	\$0.00	\$56.17

**Notes:**

Steps are 750 hrs.

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

PAINTER / TAPER (BRUSH, REPAINT)	01/01/2020	\$30.25	\$8.20	\$18.20	\$0.00	\$56.65
PAINTERS LOCAL 35 - ZONE 3	07/01/2020	\$30.80	\$8.25	\$18.50	\$0.00	\$57.55
	01/01/2021	\$31.35	\$8.25	\$18.85	\$0.00	\$58.45

**Classification**

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

**Apprentice - PAINTER Local 35 Zone 3 - BRUSH REPAINT**

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

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$15.13	\$8.20	\$0.00	\$0.00	\$23.33
2	55	\$16.64	\$8.20	\$3.80	\$0.00	\$28.64
3	60	\$18.15	\$8.20	\$4.14	\$0.00	\$30.49
4	65	\$19.66	\$8.20	\$4.49	\$0.00	\$32.35
5	70	\$21.18	\$8.20	\$16.13	\$0.00	\$45.51
6	75	\$22.69	\$8.20	\$16.48	\$0.00	\$47.37
7	80	\$24.20	\$8.20	\$16.82	\$0.00	\$49.22
8	90	\$27.23	\$8.20	\$17.51	\$0.00	\$52.94

**Effective Date - 07/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$15.40	\$8.25	\$0.00	\$0.00	\$23.65
2	55	\$16.94	\$8.25	\$3.91	\$0.00	\$29.10
3	60	\$18.48	\$8.25	\$4.26	\$0.00	\$30.99
4	65	\$20.02	\$8.25	\$4.62	\$0.00	\$32.89
5	70	\$21.56	\$8.25	\$16.37	\$0.00	\$46.18
6	75	\$23.10	\$8.25	\$16.73	\$0.00	\$48.08
7	80	\$24.64	\$8.25	\$17.08	\$0.00	\$49.97
8	90	\$27.72	\$8.25	\$17.79	\$0.00	\$53.76

**Notes:**

Steps are 750 hrs.

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

PAINTER TRAFFIC MARKINGS (HEAVY/HIGHWAY)	06/01/2020	\$31.50	\$8.60	\$13.03	\$0.00	\$53.13
LABORERS - ZONE 3 (HEAVY & HIGHWAY)	12/01/2020	\$32.31	\$8.60	\$13.03	\$0.00	\$53.94
	06/01/2021	\$33.15	\$8.60	\$13.03	\$0.00	\$54.78
	12/01/2021	\$33.98	\$8.60	\$13.03	\$0.00	\$55.61

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

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

PIER AND DOCK CONSTRUCTOR (UNDERPINNING AND DECK)	08/01/2019	\$43.79	\$9.90	\$21.15	\$0.00	\$74.84
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PILE DRIVER LOCAL 56 (ZONE 3)

For apprentice rates see "Apprentice- PILE DRIVER"

PILE DRIVER	08/01/2019	\$43.79	\$9.90	\$21.15	\$0.00	\$74.84
PILE DRIVER LOCAL 56 (ZONE 3)						

**Apprentice - PILE DRIVER - Local 56 Zone 3**

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

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

**Notes:** Apprentice wages shall be no less than the following Steps;  
 (Same as set in Zone 1)  
 1\$54.34/2\$58.99/3\$63.65/4\$65.98/5\$68.31/6\$68.31/7\$72.96/8\$72.96

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

PIPELAYER <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	12/02/2019	\$31.75	\$8.10	\$14.78	\$0.00	\$54.63
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For apprentice rates see "Apprentice- LABORER"

PIPELAYER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY &amp; HIGHWAY)</i>	06/01/2020	\$31.75	\$8.60	\$13.03	\$0.00	\$53.38
	12/01/2020	\$32.56	\$8.60	\$13.03	\$0.00	\$54.19
	06/01/2021	\$33.40	\$8.60	\$13.03	\$0.00	\$55.03
	12/01/2021	\$34.23	\$8.60	\$13.03	\$0.00	\$55.86

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

PLUMBER & PIPEFITTER <i>PLUMBERS &amp; PIPEFITTERS LOCAL 104</i>	03/17/2020	\$41.71	\$9.05	\$16.35	\$0.00	\$67.11
	09/17/2020	\$42.71	\$9.05	\$16.35	\$0.00	\$68.11
	03/17/2021	\$43.71	\$9.05	\$16.35	\$0.00	\$69.11
	09/17/2021	\$44.71	\$9.05	\$16.35	\$0.00	\$70.11
	03/17/2022	\$45.96	\$9.05	\$16.35	\$0.00	\$71.36
	09/17/2022	\$46.96	\$9.05	\$16.35	\$0.00	\$72.36
	03/17/2023	\$48.21	\$9.05	\$16.35	\$0.00	\$73.61
	09/17/2023	\$49.21	\$9.05	\$16.35	\$0.00	\$74.61
	03/17/2024	\$50.46	\$9.05	\$16.35	\$0.00	\$75.86

**Classification**

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

**Apprentice - PLUMBER/PIPEFITTER - Local 104**

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

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$18.77	\$9.05	\$9.60	\$0.00	\$37.42
2	50	\$20.86	\$9.05	\$9.60	\$0.00	\$39.51
3	55	\$22.94	\$9.05	\$9.60	\$0.00	\$41.59
4	60	\$25.03	\$9.05	\$9.60	\$0.00	\$43.68
5	65	\$27.11	\$9.05	\$9.60	\$0.00	\$45.76
6	70	\$29.20	\$9.05	\$9.60	\$0.00	\$47.85
7	75	\$31.28	\$9.05	\$9.60	\$0.00	\$49.93
8	80	\$33.37	\$9.05	\$9.60	\$0.00	\$52.02
9	80	\$33.37	\$9.05	\$16.35	\$0.00	\$58.77
10	80	\$33.37	\$9.05	\$16.35	\$0.00	\$58.77

**Effective Date - 09/17/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	45	\$19.22	\$9.05	\$9.60	\$0.00	\$37.87
2	50	\$21.36	\$9.05	\$9.60	\$0.00	\$40.01
3	55	\$23.49	\$9.05	\$9.60	\$0.00	\$42.14
4	60	\$25.63	\$9.05	\$9.60	\$0.00	\$44.28
5	65	\$27.76	\$9.05	\$9.60	\$0.00	\$46.41
6	70	\$29.90	\$9.05	\$9.60	\$0.00	\$48.55
7	75	\$32.03	\$9.05	\$9.60	\$0.00	\$50.68
8	80	\$34.17	\$9.05	\$9.60	\$0.00	\$52.82
9	80	\$34.17	\$9.05	\$16.35	\$0.00	\$59.57
10	80	\$34.17	\$9.05	\$16.35	\$0.00	\$59.57

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

**Apprentice to Journeyworker Ratio:\*\***

PNEUMATIC CONTROLS (TEMP.) PLUMBERS & PIPEFITTERS LOCAL 104	03/17/2020	\$41.71	\$9.05	\$16.35	\$0.00	\$67.11
	09/17/2020	\$42.71	\$9.05	\$16.35	\$0.00	\$68.11
	03/17/2021	\$43.71	\$9.05	\$16.35	\$0.00	\$69.11
	09/17/2021	\$44.71	\$9.05	\$16.35	\$0.00	\$70.11
	03/17/2022	\$45.96	\$9.05	\$16.35	\$0.00	\$71.36
	09/17/2022	\$46.96	\$9.05	\$16.35	\$0.00	\$72.36
	03/17/2023	\$48.21	\$9.05	\$16.35	\$0.00	\$73.61
	09/17/2023	\$49.21	\$9.05	\$16.35	\$0.00	\$74.61
	03/17/2024	\$50.46	\$9.05	\$16.35	\$0.00	\$75.86

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

PNEUMATIC DRILL/TOOL OPERATOR (HEAVY & HIGHWAY) LABORERS - ZONE 3 (HEAVY & HIGHWAY)	06/01/2020	\$31.75	\$8.60	\$13.03	\$0.00	\$53.38
	12/01/2020	\$32.56	\$8.60	\$13.03	\$0.00	\$54.19
	06/01/2021	\$33.40	\$8.60	\$13.03	\$0.00	\$55.03
	12/01/2021	\$34.23	\$8.60	\$13.03	\$0.00	\$55.86

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
POWDERMAN & BLASTER <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	12/02/2019	\$32.50	\$8.10	\$14.78	\$0.00	\$55.38
For apprentice rates see "Apprentice- LABORER"						
POWDERMAN & BLASTER (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY &amp; HIGHWAY)</i>	06/01/2020	\$32.50	\$8.60	\$13.03	\$0.00	\$54.13
	12/01/2020	\$33.31	\$8.60	\$13.03	\$0.00	\$54.94
	06/01/2021	\$34.15	\$8.60	\$13.03	\$0.00	\$55.78
	12/01/2021	\$34.98	\$8.60	\$13.03	\$0.00	\$56.61
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)						
PUMP OPERATOR (CONCRETE) <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2019	\$35.40	\$11.94	\$14.35	\$0.00	\$61.69
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
PUMP OPERATOR (DEWATERING, OTHER) <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2019	\$34.87	\$11.94	\$14.35	\$0.00	\$61.16
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
READY-MIX CONCRETE DRIVER <i>TEAMSTERS 404 - Construction Service (Northampton)</i>	05/01/2020	\$22.44	\$11.07	\$6.50	\$0.00	\$40.01
RIDE-ON MOTORIZED BUGGY OPERATOR <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	12/02/2019	\$31.75	\$8.10	\$14.78	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						
ROLLER OPERATOR <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2019	\$34.26	\$11.94	\$14.35	\$0.00	\$60.55
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
ROOFER (Coal tar pitch) <i>ROOFERS LOCAL 248</i>	07/16/2019	\$32.66	\$10.05	\$16.20	\$0.00	\$58.91
For apprentice rates see "Apprentice- ROOFER"						
ROOFER (Inc.Roofing Waterproofing &Roofing Damproofing) <i>ROOFERS LOCAL 248</i>	07/16/2019	\$32.16	\$10.05	\$15.70	\$0.00	\$57.91

**Apprentice - ROOFER - Local 248**

**Effective Date - 07/16/2019**

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

**Notes:**

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

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

ROOFER SLATE / TILE / PRECAST CONCRETE <i>ROOFERS LOCAL 248</i>	07/16/2019	\$32.66	\$10.05	\$16.20	\$0.00	\$58.91
For apprentice rates see "Apprentice- ROOFER"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
SCRAPER <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2019	\$34.87	\$11.94	\$14.35	\$0.00	\$61.16
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
SELF-POWERED ROLLERS AND COMPACTORS (TAMPERS) <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2019	\$34.26	\$11.94	\$14.35	\$0.00	\$60.55
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
SELF-PROPELLED POWER BROOM <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2019	\$31.64	\$11.94	\$14.35	\$0.00	\$57.93
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
SHEETMETAL WORKER <i>SHEETMETAL WORKERS LOCAL 63</i>	01/01/2020	\$36.99	\$10.64	\$16.22	\$1.77	\$65.62

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

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

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

**Notes:**

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

SPECIALIZED EARTH MOVING EQUIP < 35 TONS <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	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>	06/01/2020	\$35.73	\$12.41	\$13.72	\$0.00	\$61.86
	08/01/2020	\$35.73	\$12.91	\$13.72	\$0.00	\$62.36
	12/01/2020	\$35.73	\$12.91	\$14.82	\$0.00	\$63.46
	06/01/2021	\$36.53	\$12.91	\$14.82	\$0.00	\$64.26
	08/01/2021	\$36.53	\$13.41	\$14.82	\$0.00	\$64.76
	12/01/2021	\$36.53	\$13.41	\$16.01	\$0.00	\$65.95
SPRINKLER FITTER <i>SPRINKLER FITTERS LOCAL 669</i>	01/01/2019	\$41.51	\$10.02	\$13.08	\$0.00	\$64.61

**Classification**

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

**Apprentice - SPRINKLER FITTER - Local 669**

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

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

**Notes:**

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

TELECOMMUNICATION TECHNICIAN ELECTRICIANS LOCAL 7	06/28/2020	\$44.01	\$11.25	\$12.82	\$0.00	\$68.08
	01/03/2021	\$44.61	\$11.50	\$12.99	\$0.00	\$69.10
	06/27/2021	\$45.21	\$11.75	\$13.26	\$0.00	\$70.22
	01/02/2022	\$45.81	\$12.00	\$13.42	\$0.00	\$71.23
	07/03/2022	\$46.41	\$12.25	\$13.69	\$0.00	\$72.35
	01/01/2023	\$47.01	\$12.50	\$13.96	\$0.00	\$73.47



**Apprentice - TELECOMMUNICATION TECHNICIAN - Local 7**

**Effective Date - 06/28/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$17.60	\$6.15	\$0.53	\$0.00	\$24.28
2	45	\$19.80	\$6.15	\$0.59	\$0.00	\$26.54
3	50	\$22.01	\$11.25	\$6.96	\$0.00	\$40.22
4	55	\$24.21	\$11.25	\$7.03	\$0.00	\$42.49
5	65	\$28.61	\$11.25	\$8.72	\$0.00	\$48.58
6	70	\$30.81	\$11.25	\$9.82	\$0.00	\$51.88

**Effective Date - 01/03/2021**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	40	\$17.84	\$6.90	\$0.54	\$0.00	\$25.28
2	45	\$20.07	\$6.90	\$0.60	\$0.00	\$27.57
3	50	\$22.31	\$11.50	\$7.02	\$0.00	\$40.83
4	55	\$24.54	\$11.50	\$7.09	\$0.00	\$43.13
5	65	\$29.00	\$11.50	\$8.78	\$0.00	\$49.28
6	70	\$31.23	\$11.50	\$9.89	\$0.00	\$52.62

**Notes:**

Steps are 800 hours

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

TERRAZZO FINISHERS	02/01/2020	\$53.34	\$10.75	\$21.94	\$0.00	\$86.03
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	08/01/2020	\$54.69	\$10.75	\$22.09	\$0.00	\$87.53
	02/01/2021	\$55.33	\$10.75	\$22.09	\$0.00	\$88.17
	08/01/2021	\$56.73	\$10.75	\$22.25	\$0.00	\$89.73
	02/01/2022	\$57.32	\$10.75	\$22.25	\$0.00	\$90.32

**Classification**

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

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

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

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$26.67	\$10.75	\$21.94	\$0.00	\$59.36
2	60	\$32.00	\$10.75	\$21.94	\$0.00	\$64.69
3	70	\$37.34	\$10.75	\$21.94	\$0.00	\$70.03
4	80	\$42.67	\$10.75	\$21.94	\$0.00	\$75.36
5	90	\$48.01	\$10.75	\$21.94	\$0.00	\$80.70

**Effective Date - 08/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$27.35	\$10.75	\$22.09	\$0.00	\$60.19
2	60	\$32.81	\$10.75	\$22.09	\$0.00	\$65.65
3	70	\$38.28	\$10.75	\$22.09	\$0.00	\$71.12
4	80	\$43.75	\$10.75	\$22.09	\$0.00	\$76.59
5	90	\$49.22	\$10.75	\$22.09	\$0.00	\$82.06

**Notes:**

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

TERRAZZO MECHANIC	02/01/2020	\$54.42	\$10.75	\$21.93	\$0.00	\$87.10
BRICKLAYERS LOCAL 3 (SPR/PITT) - MARBLE & TILE	08/01/2020	\$55.77	\$10.75	\$22.08	\$0.00	\$88.60
	02/01/2021	\$56.41	\$10.75	\$22.08	\$0.00	\$89.24
	08/01/2021	\$57.81	\$10.75	\$22.24	\$0.00	\$90.80
	02/01/2022	\$58.38	\$10.75	\$22.24	\$0.00	\$91.37

**Classification**

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

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

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

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$27.21	\$10.75	\$21.93	\$0.00	\$59.89
2	60	\$32.65	\$10.75	\$21.93	\$0.00	\$65.33
3	70	\$38.09	\$10.75	\$21.93	\$0.00	\$70.77
4	80	\$43.54	\$10.75	\$21.93	\$0.00	\$76.22
5	90	\$48.98	\$10.75	\$21.93	\$0.00	\$81.66

**Effective Date - 08/01/2020**

Step	percent	Apprentice Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
1	50	\$27.89	\$10.75	\$22.08	\$0.00	\$60.72
2	60	\$33.46	\$10.75	\$22.08	\$0.00	\$66.29
3	70	\$39.04	\$10.75	\$22.08	\$0.00	\$71.87
4	80	\$44.62	\$10.75	\$22.08	\$0.00	\$77.45
5	90	\$50.19	\$10.75	\$22.08	\$0.00	\$83.02

**Notes:**

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

TEST BORING DRILLER <i>LABORERS - FOUNDATION AND MARINE</i>	06/01/2020	\$40.55	\$8.60	\$17.24	\$0.00	\$66.39
	12/01/2020	\$41.53	\$8.60	\$17.24	\$0.00	\$67.37
	06/01/2021	\$42.55	\$8.60	\$17.24	\$0.00	\$68.39
	12/01/2021	\$43.56	\$8.60	\$17.24	\$0.00	\$69.40
For apprentice rates see "Apprentice- LABORER"						
TEST BORING DRILLER HELPER <i>LABORERS - FOUNDATION AND MARINE</i>	06/01/2020	\$39.27	\$8.60	\$17.24	\$0.00	\$65.11
	12/01/2020	\$40.25	\$8.60	\$17.24	\$0.00	\$66.09
	06/01/2021	\$41.27	\$8.60	\$17.24	\$0.00	\$67.11
	12/01/2021	\$42.28	\$8.60	\$17.24	\$0.00	\$68.12
For apprentice rates see "Apprentice- LABORER"						
TEST BORING LABORER <i>LABORERS - FOUNDATION AND MARINE</i>	06/01/2020	\$39.15	\$8.60	\$17.24	\$0.00	\$64.99
	12/01/2020	\$40.13	\$8.60	\$17.24	\$0.00	\$65.97
	06/01/2021	\$41.15	\$8.60	\$17.24	\$0.00	\$66.99
	12/01/2021	\$42.16	\$8.60	\$17.24	\$0.00	\$68.00
For apprentice rates see "Apprentice- LABORER"						
TRACTORS <i>OPERATING ENGINEERS LOCAL 98</i>	12/01/2019	\$34.26	\$11.94	\$14.35	\$0.00	\$60.55
For apprentice rates see "Apprentice- OPERATING ENGINEERS"						
TRAILERS FOR EARTH MOVING EQUIPMENT <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	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

<b>Classification</b>	<b>Effective Date</b>	<b>Base Wage</b>	<b>Health</b>	<b>Pension</b>	<b>Supplemental Unemployment</b>	<b>Total Rate</b>
TUNNEL WORK - COMPRESSED AIR <i>LABORERS (COMPRESSED AIR)</i>	06/01/2020	\$51.38	\$8.60	\$17.69	\$0.00	\$77.67
	12/01/2020	\$52.36	\$8.60	\$17.69	\$0.00	\$78.65
	06/01/2021	\$53.38	\$8.60	\$17.69	\$0.00	\$79.67
	12/01/2021	\$54.39	\$8.60	\$17.69	\$0.00	\$80.68
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - COMPRESSED AIR (HAZ. WASTE) <i>LABORERS (COMPRESSED AIR)</i>	06/01/2020	\$53.38	\$8.60	\$17.69	\$0.00	\$79.67
	12/01/2020	\$54.36	\$8.60	\$17.69	\$0.00	\$80.65
	06/01/2021	\$55.38	\$8.60	\$17.69	\$0.00	\$81.67
	12/01/2021	\$56.39	\$8.60	\$17.69	\$0.00	\$82.68
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - FREE AIR <i>LABORERS (FREE AIR TUNNEL)</i>	06/01/2020	\$43.45	\$8.60	\$17.69	\$0.00	\$69.74
	12/01/2020	\$44.43	\$8.60	\$17.69	\$0.00	\$70.72
	06/01/2021	\$45.45	\$8.60	\$17.69	\$0.00	\$71.74
	12/01/2021	\$46.46	\$8.60	\$17.69	\$0.00	\$72.75
For apprentice rates see "Apprentice- LABORER"						
TUNNEL WORK - FREE AIR (HAZ. WASTE) <i>LABORERS (FREE AIR TUNNEL)</i>	06/01/2020	\$45.45	\$8.60	\$17.69	\$0.00	\$71.74
	12/01/2020	\$46.43	\$8.60	\$17.69	\$0.00	\$72.72
	06/01/2021	\$47.45	\$8.60	\$17.69	\$0.00	\$73.74
	12/01/2021	\$48.46	\$8.60	\$17.69	\$0.00	\$74.75
For apprentice rates see "Apprentice- LABORER"						
VAC-HAUL <i>TEAMSTERS JOINT COUNCIL NO. 10 ZONE B</i>	06/01/2020	\$35.44	\$12.41	\$13.72	\$0.00	\$61.57
	08/01/2020	\$35.44	\$12.91	\$13.72	\$0.00	\$62.07
	12/01/2020	\$35.44	\$12.91	\$14.82	\$0.00	\$63.17
	06/01/2021	\$36.24	\$12.91	\$14.82	\$0.00	\$63.97
	08/01/2021	\$36.24	\$13.41	\$14.82	\$0.00	\$64.47
	12/01/2021	\$36.24	\$13.41	\$16.01	\$0.00	\$65.66
WAGON DRILL OPERATOR <i>LABORERS - ZONE 3 (BUILDING &amp; SITE)</i>	12/02/2019	\$31.75	\$8.10	\$14.78	\$0.00	\$54.63
For apprentice rates see "Apprentice- LABORER"						
WAGON DRILL OPERATOR (HEAVY & HIGHWAY) <i>LABORERS - ZONE 3 (HEAVY &amp; HIGHWAY)</i>	06/01/2020	\$31.75	\$8.60	\$13.03	\$0.00	\$53.38
	12/01/2020	\$32.56	\$8.60	\$13.03	\$0.00	\$54.19
	06/01/2021	\$33.40	\$8.60	\$13.03	\$0.00	\$55.03
	12/01/2021	\$34.23	\$8.60	\$13.03	\$0.00	\$55.86
For apprentice rates see "Apprentice- LABORER (Heavy and Highway)"						
WATER METER INSTALLER <i>PLUMBERS &amp; PIPEFITTERS LOCAL 104</i>	03/17/2020	\$41.71	\$9.05	\$16.35	\$0.00	\$67.11
	09/17/2020	\$42.71	\$9.05	\$16.35	\$0.00	\$68.11
	03/17/2021	\$43.71	\$9.05	\$16.35	\$0.00	\$69.11
	09/17/2021	\$44.71	\$9.05	\$16.35	\$0.00	\$70.11
	03/17/2022	\$45.96	\$9.05	\$16.35	\$0.00	\$71.36
	09/17/2022	\$46.96	\$9.05	\$16.35	\$0.00	\$72.36
	03/17/2023	\$48.21	\$9.05	\$16.35	\$0.00	\$73.61
	09/17/2023	\$49.21	\$9.05	\$16.35	\$0.00	\$74.61
	03/17/2024	\$50.46	\$9.05	\$16.35	\$0.00	\$75.86
For apprentice rates see "Apprentice- PLUMBER/PIPEFITTER" or "PLUMBER/GASFITTER"						
<b>Outside Electrical - West</b>						
EQUIPMENT OPERATOR <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	09/01/2019	\$44.67	\$8.00	\$12.55	\$0.00	\$65.22
For apprentice rates see "Apprentice- LINEMAN"						

Classification	Effective Date	Base Wage	Health	Pension	Supplemental Unemployment	Total Rate
GROUNDMAN <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	09/01/2019	\$30.58	\$8.00	\$5.48	\$0.00	\$44.06
For apprentice rates see "Apprentice- LINEMAN"						
GROUNDMAN / TRUCK DRIVER <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	09/01/2019	\$39.97	\$8.00	\$10.96	\$0.00	\$58.93
For apprentice rates see "Apprentice- LINEMAN"						
HEAVY EQUIPMENT OPERATOR <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	09/01/2019	\$47.01	\$8.00	\$13.22	\$0.00	\$68.23
For apprentice rates see "Apprentice- LINEMAN"						
JOURNEYMAN LINEMAN <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	09/01/2019	\$51.71	\$8.00	\$15.55	\$0.00	\$75.26

**Apprentice - LINEMAN (Outside Electrical) - West Local 42**

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

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

**Notes:**

**Apprentice to Journeyworker Ratio:1:2**

TELEDATA CABLE SPLICER <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	02/04/2019	\$30.73	\$4.70	\$3.17	\$0.00	\$38.60
TELEDATA LINEMAN/EQUIPMENT OPERATOR <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	02/04/2019	\$28.93	\$4.70	\$3.14	\$0.00	\$36.77
TELEDATA WIREMAN/INSTALLER/TECHNICIAN <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	02/04/2019	\$28.93	\$4.70	\$3.14	\$0.00	\$36.77
TRACTOR-TRAILER DRIVER <i>OUTSIDE ELECTRICAL WORKERS - WEST LOCAL 42</i>	09/01/2019	\$44.67	\$8.00	\$12.55	\$0.00	\$65.22

**Additional Apprentice Information:**

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

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

All steps are six months (1000 hours.)

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

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

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

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

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**FORM FOR GENERAL BID**

**Bidder shall fill in all blank spaces.**

**Failure to complete any portion of the " FORM FOR GENERAL BID " may disqualify the bidder.**

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

BIDDER \_\_\_\_\_

BIDS DUE: **2:00 PM on Tuesday, July 21, 2020**

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

The undersigned proposes to furnish all labor, materials, and equipment required and incidental and pay all bonds, taxes, and permits required for the carrying out of the work for the **Community House – Roof and Balustrade Replacement** in accordance with the drawings and specifications prepared by Hill-Engineers, Architects, Planners, Inc. for the contract price as specified below and outlined herein and subject to the additions and deductions heretofore provided for in the specifications.

The bidder acknowledges receipt of the following addenda:

\_\_\_\_\_

**(Continued on next page)**

**BASE BID:**

Provide the cost for the base bid work that encompasses the replacement of the rubber roof system and appurtenances, and the replacement ornamental railing and appurtenances.

**BASE BID \$** \_\_\_\_\_

\_\_\_\_\_  
(Base Bid Written in Words)

**BID ALTERNATE NO.1:**

Provide the cost for Alternate 1 that encompasses the replacement of the copper fascia and appurtenances on the porch and building. All provisions of the original contract documents apply and shall be enforced for the work

**BID ALTERNATE NO.1 \$** \_\_\_\_\_

\_\_\_\_\_  
(Bid Alternate No.1 Written in Words)

**BID ALTERNATE NO.2:**

Provide the cost for Alternate 2 that encompasses the replacement of the copper gutters and downspouts and appurtenances on the building. All provisions of the original contract documents apply and shall be enforced for the work

**BID ALTERNATE NO.2 \$** \_\_\_\_\_

\_\_\_\_\_  
(Bid Alternate No.2 Written in Words)

**BID TOTAL:**

\_\_\_\_\_  
(Sum of Base Bid, Bid Alternate No.1 and Bid Alternate No.2)

The undersigned agrees that for any extra work, the contract price shall be increased by the actual cost of the work in place plus \_\_\_\_\_ percent of the actual cost added to cover all profit and overhead for the General Contractor's work OR plus \_\_\_\_\_ percent of the actual cost added to cover all profit and overhead for all Subcontractor's work.

For any work deleted, the contract price shall be reduced by the actual cost of the work in place. Any adjustment for work added or deducted after the contracts have been signed will be adjusted upon instructions as outlined in the specifications.

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**UNIT PRICE (Not part of base bid and bid alternate award calculation):**Change order Roof sheathing (plank) replacement

In the event of rotted wood roof sheathing being discovered upon removal of the existing roof system, provide a unit price for the removal, preparation, and replacement repair materials for the affected area per one (1) square foot. The repair material shall be appropriate/compatible for the roof sheathing construction.

**Unit Price \$ \_\_\_\_\_ Square Ft**

*(Unit price per Square Foot, numeric)*

\_\_\_\_\_ Dollars Per Square Foot

*(Unit price per Square Foot written in words)*



The sub-division of the proposed contract price is as follows:

ITEM 1      The work of the Contractor, being all work other than that covered by Item 2, \$ \_\_\_\_\_.

ITEM 2      Sub-bids as follows:

<u>SUBTRADE</u>	<u>SECTIONS</u>	<u>SUB-BIDDER</u>	<u>AMOUNT</u>	<u>BONDS REQUIRED</u> <u>INDICATE</u> <u>YES/NO</u>
_____	_____	_____	\$ _____	_____
_____	_____	_____	\$ _____	_____
_____	_____	_____	\$ _____	_____
_____	_____	_____	\$ _____	_____
_____	_____	_____	\$ _____	_____

TOTAL OF ITEM 2 .....\$ \_\_\_\_\_

The undersigned agrees that each of the above-named sub-bidders will be used for the work indicated at the amount stated, unless a substitution is made.

The undersigned agrees that if he is selected as contractor, he will within five days, Saturdays, Sundays and legal holidays excluded, after presentation thereof by the awarding authority, execute a contract in accordance with the terms of this general.

The undersigned agrees that if he is selected as General Contractor, he will within five days, Saturdays, Sundays and legal holidays excluded, after presentation thereof by the awarding authority, execute a contract in accordance with the terms of this general bid and furnish a Performance Bond and also a Labor and Materials or Payment Bond, each of a surety company qualified to do business under the laws of the Commonwealth of Massachusetts and satisfactory to the awarding authority and each in the sum of one hundred percent of the contract price, the premiums for which are to be paid by the general contractor and are included in the contract price.

The undersigned hereby certifies that he is able to furnish labor that can work in harmony with the Owner, A/E, and all other elements of labor employed or to be employed on the worksite. All employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and that he will comply fully with all laws and regulations applicable to awards made subject to Section 44A.

Date: \_\_\_\_\_

\_\_\_\_\_  
Name of General Bidder

(Affix corporate seal  
here if Bidder is a  
corporation)

By: \_\_\_\_\_  
Name of Person Signing Bid

\_\_\_\_\_  
Title

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

\_\_\_\_\_  
City and State                      Zip Code

\_\_\_\_\_  
Email

NOTE:     If the bidder is a corporation, indicate state of incorporation under signature, and affix corporate seal; if a partnership, give full names and residential addresses of all partners; and if an individual, give residential address if different from business address.

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CONTRACTOR'S AFFIDAVIT

The undersigned further certifies under the penalties of perjury that this bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this subsection the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity. The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the Commonwealth under the provisions of Section 29F of Chapter 29, or any other applicable debarment provisions of any other chapter of the General Laws or any rule or regulation promulgated thereunder.

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Signature

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Print Name of Bidder

---

Project Number

---

Business Address

---

Awarding Authority

---

Telephone Number

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The undersigned agrees that if selected, will within five days, Saturdays, Sundays and legal holidays excluded, after presentation thereof by the awarding authority, execute a contract in accordance with the terms of the General Contractor.

The undersigned agrees that if selected, will within five days, Saturdays, Sundays and legal holidays excluded, after presentation thereof by the awarding authority, execute a contract in accordance with the terms of this general bid and furnish a Performance Bond and also a Labor and Materials or Payment Bond, each of a surety company qualified to do business under the laws of the Commonwealth of Massachusetts and satisfactory to the awarding authority and each in the sum of one hundred percent of the contract price, the premiums for which are to be paid by the general contractor and are included in the contract price.

The undersigned hereby certifies that he/she is able to furnish labor that can work in harmony with the Owner, A/E, and all other elements of labor employed or to be employed on the worksite. All employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and that he/she will comply fully with all laws and regulations applicable to awards made subject to Section 44A.

The undersigned offers the following information as evidence for qualifications to perform work as bid in accordance with all requirements of the drawings and specifications:

1. Have been in business under the present business name for \_\_\_\_\_ years.
2. Failed to complete any work awarded? (Check one below.)
  - Yes
  - No

The undersigned further certifies under the penalties of perjury that this bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this subsection the word "person" shall mean any natural person, joint venture, partnership, corporation or other business or legal entity. The undersigned further certifies under penalty of perjury that the said undersigned is not presently debarred from doing public construction work in the Commonwealth under the provisions of Section 29F of Chapter 29, or any other applicable debarment provisions of any other chapter of the General Laws or any rule or regulation promulgated thereunder.

The undersigned hereby agrees that all prices contained herein shall be valid for a period not exceeding thirty (30) days (weekends and holidays not included) from date of the General Bid opening.

Date: \_\_\_\_\_

\_\_\_\_\_  
Name of Sub-Bidder

(Affix corporate seal  
here if Bidder is a  
corporation)

By: \_\_\_\_\_  
Name of Person Signing Sub-Bid

\_\_\_\_\_  
Title

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

\_\_\_\_\_  
City and State                      Zip Code

**HAVE YOU SUPPLIED WITH YOUR BID SUBMISSION FORMS THE  
FOLLOWING 'BIDDER'S QUALIFICATIONS AND REFERENCES FORMS'?**

YES \_\_\_\_\_, NO \_\_\_\_\_

**BIDDER'S QUALIFICATIONS AND REFERENCES FORM**

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

1.FIRM NAME: \_\_\_\_\_

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

3. INCORPORATED?

\_\_\_\_\_ YES

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

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

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

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

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

5.LIST ALL CONTRACTS CURRENTLY ON HAND, SHOWING CONTRACT AMOUNT AND ANTICIPATED DATE OF COMPLETION:

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

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

\_\_\_\_\_ YES

\_\_\_\_\_ NO

IF YES, WHERE AND WHY?

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

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

IF YES, PROVIDE DETAILS.

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

8.

LIST YOUR VEHICLES/EQUIPMENT AVAILABLE FOR THIS CONTRACT:

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9.

IN THE SPACES FOLLOWING, PROVIDE INFORMATION REGARDING **CONTRACTS COMPLETED BY YOUR FIRM LISTING ONLY PROJECTS OF SIMILAR NATURE TO THE PROJECT BEING BID**. A MINIMUM OF TWO (S) CONTRACTS SHALL BE LISTED. PUBLICLY BID CONTRACTS ARE PREFERRED.

PROJECT NAME: \_\_\_\_\_

OWNER: \_\_\_\_\_

CITY/STATE: \_\_\_\_\_

DOLLAR AMOUNT: \$ \_\_\_\_\_ DATE COMPLETED: \_\_\_\_\_

PUBLICLY BID? \_\_\_\_\_ YES \_\_\_\_\_ NO

TYPE OF WORK?: \_\_\_\_\_

CONTACT PERSON: \_\_\_\_\_ TELEPHONE #: (\_\_\_\_) \_\_\_\_\_

CONTACT PERSON'S RELATION TO PROJECT?: \_\_\_\_\_

(i.e., contract manager, purchasing agent, etc.)

PROJECT NAME: \_\_\_\_\_

OWNER: \_\_\_\_\_

CITY/STATE: \_\_\_\_\_

DOLLAR AMOUNT: \$ \_\_\_\_\_ DATE COMPLETED: \_\_\_\_\_

PUBLICLY BID? \_\_\_\_\_ YES \_\_\_\_\_ NO

TYPE OF WORK?: \_\_\_\_\_

CONTACT PERSON: \_\_\_\_\_ TELEPHONE #: (\_\_\_\_) \_\_\_\_\_

CONTACT PERSON'S RELATION TO PROJECT?: \_\_\_\_\_

(i.e., contract manager, purchasing agent, etc.)

PROJECT NAME: \_\_\_\_\_

OWNER: \_\_\_\_\_

CITY/STATE: \_\_\_\_\_

DOLLAR AMOUNT: \$ \_\_\_\_\_ DATE COMPLETED: \_\_\_\_\_

PUBLICLY BID? \_\_\_\_\_ YES \_\_\_\_\_ NO

TYPE OF WORK?: \_\_\_\_\_

CONTACT PERSON: \_\_\_\_\_ TELEPHONE #: (\_\_\_\_) \_\_\_\_\_

CONTACT PERSON'S RELATION TO PROJECT?: \_\_\_\_\_

(i.e., contract manager, purchasing agent, etc.)

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

---

10.

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

DATE: \_\_\_\_\_

BIDDER: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

PRINTED NAME: \_\_\_\_\_ TITLE: \_\_\_\_\_

*( End Bid Submission Form )*



*(End – Forms for Bid)*

Chapter 223 (Sections 35 and 36) of the Acts and Resolves of 1983 enacted the Revenue Enforcement and Protection Program, which became effective July 1, 1983. One aspect of the law requires that the providers of goods and services attest, under penalties of perjury, that they are in compliance with all laws of the Commonwealth of Massachusetts relating to taxes.

To comply with this requirement, the Attestation of Taxes must be signed and submitted with the bid to the Awarding Authority.

Any person failing to sign the Attestation of Taxes shall not be allowed to obtain, renew, or extend a license, permit, or public contract.

Pursuant to M.G.L. Chapter 62c, Section 49A, I hereby certify, under the penalties of perjury, that I, to the best of my knowledge and belief, have filed all state tax returns and paid all state taxes as required by law.

Signed under penalties of perjury this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

Signature and title of responsible company officer:

Corporate Seal (Affix Below)

WEEKLY PAYROLL RECORDS REPORT  
& STATEMENT OF COMPLIANCE

PR - 1

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

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

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

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

**WEEKLY PAY ROLL REPORT FORM**

Company Name: \_\_\_\_\_  Prime Contractor

Project Name: \_\_\_\_\_  Subcontractor

Awarding Auth.: \_\_\_\_\_ List Prime Contractor: \_\_\_\_\_

Work Week Ending: \_\_\_\_\_ Employer Signature: \_\_\_\_\_

Final Report \_\_\_\_\_ Print Name & Title: \_\_\_\_\_

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

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

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- Item 1. Equipment, materials or supplies required to be furnished by the contractor shall be received, unloaded, and stored at the risk of the contractor until incorporated in the work and accepted by the Owner. All freight charges for equipment, material, and supplies to be included in bid price.
- Item 2. The contractor shall submit to the Owner the name of its designated representative on the job site, and the names and addresses of all major material suppliers and any subcontractors.
- Item 3. The contractor shall comply with the occupational safety and health regulations and standards for construction promulgated under the Occupational Safety and Health Act of 1970 (P.L. 91-596). The contractor shall also comply with the Owner's safety and work rules at all times, including having adequate first aid and fire prevention equipment on the site, with personnel trained in their use.
- Item 4. The contractor will at all times keep the job site free from accumulation of rubbish and waste materials and on completion of the work will leave the job site in a clean condition.
- Item 5. The A/E shall have the authority to disapprove or reject work which is defective or unsatisfactory and does not meet the requirements of the contract documents, to require special inspection and testing of the work, and shall in all respect act as the Owner's agent to secure satisfactory work as intended by the contract documents.
- Item 6. The contractor shall invoice work under this contract on AIA Document G702 Application & Certificate for Payment and G703 Continuation Sheet. It is the Owner's intent to withhold 10% of the payment due the contractor as retainage until substantial completion.
- Item 7. The A/E will assist the Owner, as the Owner may require, in inspection of the work and management of the construction.
- Item 8. The Owner will issue communications to the contractor either direct or through the A/E.
- Item 9. The contractor will be given access to those portions of the site premises required for performance of the contract and will be responsible for the care and control thereof.

Item 10. No machinery, equipment or supplies will be furnished by the Owner to the contractor unless called for by the terms of the contract or specifically authorized by the Owner.

Item 11. The contractor shall exercise extreme care and caution in work near existing structures and machinery. Any utilities encountered during the work shall be protected and maintained in service by the contractor unless otherwise authorized by the Owner.

Item 12. The contractor shall at his own expense repair and replace all buildings, structures, equipment, utilities, sidewalks, curbs, drives, lawns, plants, trees and shrubbery damaged by the contractor during the course of the work.

Item 13. For contracts which provide payments based upon time and materials, the scope of the work must be defined in writing and invoiced separately as to labor and materials. Daily time sheets indicating each employee by name, trade or classification, hours worked, date of work, and job performed or description of work will be submitted daily, signed by the contractor's designated representative. A copy of each of the daily time sheets, daily equipment time sheets for equipment rentals, materials lists and suppliers invoices shall be submitted to the Owner with each invoice for the work performed.

Item 14. Insurance Requirements

The contractor shall purchase and maintain liability insurance coverage as set forth in the Standard General Conditions and as specified below.

Without limiting any of the other obligations or liabilities of the contractor, the contractor shall provide and maintain, until the work is completed and accepted by the Owner, minimum insurance coverages as follows:

Type of Coverage

LIMITS

**Worker's Compensation,  
including coverage under  
Longshoremen's and Harbor  
Worker's Act where applicable.**

Statutory

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<b>Employer's Liability</b>	<u>\$1,000,000</u>	
	Each Occurrence	
 <b>Comprehensive General Liability</b>		
Bodily Injury	<u>\$1,000,000</u>	
	Each Occurrence	
Property Damage including coverage for damage caused by blasting, collapse or structural injury and/or damage to underground utilities.	<u>\$1,000,000</u>	
	Each Occurrence	or total contract amount, whichever is greater
Products and Completed Operations	<u>\$1,000,000</u>	
	Each Occurrence	
 <b>Contractor's Protective Liability</b>		
Bodily Injury	<u>\$1,000,000</u>	
	Each Occurrence	
Property Damage	<u>\$1,000,000</u>	<u>\$1,000,000</u>
	Each Occurrence	Aggregate
 <b>Contractual Liability in Accordance with Agreement(s) between Owner and contractor.</b>		
Bodily Injury	<u>\$1,000,000</u>	
	Each Occurrence	
Property Damage	<u>\$1,000,000</u>	<u>\$1,000,000</u>
	Each Occurrence	Aggregate
 <b>Comprehensive Automobile Liability covering all owned, hired, and non-owned automotive equipment used by or with the permission of the Contractor including the loading and unloading thereof with the Owner included as an additional insured.</b>		

SUPPLEMENTARY CONDITIONS

SC - 4

Bodily Injury	<u>\$1,000,000</u> Each Person	<u>\$1,000,000</u> Each Occurrence
Property Damage		<u>\$1,000,000</u> Each Occurrence

Item 15. Standard General Conditions

Reference:

The contractor shall comply with the Owner-Contractor Agreement for Public Building Construction or Renovation'. A sample copy of the contract is included herein.

Item 17. Work time/days for construction:

The contractor shall coordinate the project with the Owner representative such that all of the work is not in conflict with the building operations.

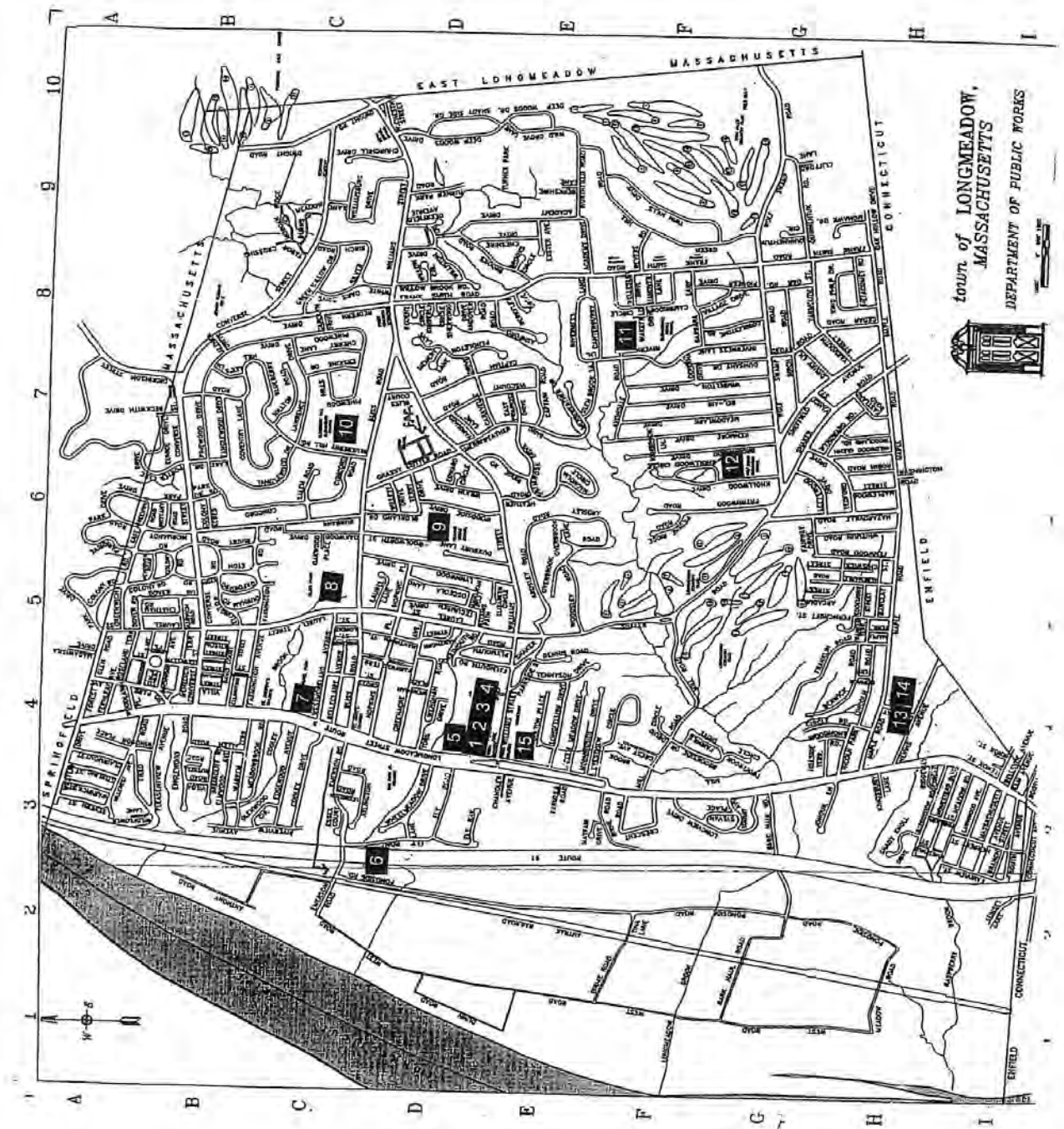


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<b><u>DRAWING NUMBER</u></b>	<b><u>TITLE</u></b>
G-001 Rev C	TITLE SHEET
G-002 Rev B	CHAPTER 34 REPORT
A-101 Rev C	ROOF DEMOLITION AND NEW BALUSTRADE PLANS
A-102 Rev B	ROOF PLAN
A-201 Rev C	BALUSTRADE ELEVATIONS
A-501 Rev C	ROOFING DETAILS
A-502 Rev B	GUTTER AND DOWNSPOUT REPLACEMENT

**Project Site Locus Plan:**

**LOCATION 1, 735 Longmeadow Street, Longmeadow, MA 01106**



## **SAMPLE OWNER-CONTRACTOR AGREEMENT**

(To be completed upon contract award)

**TOWN OF LONGMEADOW, MASSACHUSETTS**  
**OWNER-CONTRACTOR AGREEMENT**  
**FOR PUBLIC BUILDING CONSTRUCTION OR RENOVATION**

THIS AGREEMENT made this \_\_\_ day of July in the year Two Thousand and twenty, between TBD, with a usual place of business at TBD hereinafter called the CONTRACTOR, and the Town of Longmeadow, Massachusetts acting by its Town Manager and/or Select Board, with a usual place of business at 20 Williams Street, Longmeadow, MA 01106, hereinafter called the OWNER.

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

1. Scope of Work

The Contractor shall furnish all labor, materials, equipment and insurance to perform all work required for the project known as Community House Roof and Balustrade Replacement, in strict accordance with the Contract Documents and all related Drawings and Specifications per IFB packet, ATTACHMENT A: Invitation for Bid (IFB) Community House Roof and Balustrade Replacement, dated July 2, 2020; and issued addenda (if any).... The said Documents, Specifications, Drawings and any general supplementary conditions are incorporated herein by reference and are made a part of this Agreement.

2. Contract Price

The Owner shall pay the Contractor for the performance of this Agreement, subject to additions and deductions provided herein, in current funds, the sum of \$\_\_\_\_\_ per bid price proposal specifications, ATTACHMENT B, signed \_\_\_\_\_, and dated \_\_\_\_\_.

3. Commencement and Completion of Work and Liquidated Damages

It is agreed that time is of the essence of this Agreement. The Contractor shall commence and prosecute the work under this Agreement upon execution hereof and shall obtain Substantial Completion of the Scope of Work on or **before October 15, 2020**.

A. Definition of Term: The Term "Substantial Completion" shall mean the date certified by the Owner when construction is sufficiently complete, in accordance with the Contract Documents, so the Owner may occupy the project, or designated portion(s) thereof, for the use for which it is intended.

- B. Time as Essential Condition: It is understood and agreed that the commencement of and substantial completion of the work are essential conditions of this Agreement. It is further agreed that time is of the essence for each and every portion of the Contract Documents wherein a definite and certain length of time is fixed for the performance of any act whatsoever; and where under the Contract Documents any additional time is allowed for the completion of any work, the new time fixed by such extension shall be of the essence of this Agreement. It is understood and agreed that the times for the completion of the work are reasonable, taking into consideration the average climatic range and usual industrial conditions prevailing in this locality.
- C. Progress and Completion: Contractor shall commence work promptly upon execution of this Agreement and shall prosecute and complete the work regularly, diligently and uninterruptedly at such a rate of progress as will insure Substantial Completion within the stipulated number of calendar days.
- D. Liquidated Damages: It is expressly agreed between the Contractor and the Owner that the Contractor will be responsible for all damages which may arise due to the Contractor's failure to substantially complete the work within the above specified time. If the Contractor shall neglect, fail or refuse to complete the work within the specified number of days, or any extension thereof authorized by the Owner, Contractor agrees, as a part of the consideration for the execution of this Contract by the Owner, to pay the Owner the amount specified herein, not as a penalty, but as liquidated damages for such breach of contract as hereinafter set forth, for each and every calendar day that the Contractor shall be in default of Substantial Completion after the date specified in the Agreement. Due to the impracticability and extreme difficulty of fixing and ascertaining the actual damages the Owner would in such event sustain, said amount is agreed to be the amount of damages which the Owner would sustain, and said amount shall be retained from time to time by the Owner from current periodic estimates. The amount of liquidated damages shall be \$100.00 per calendar day for each day after the date of Substantial Completion.

4. Performance of the Work

- A. Direction of the Work: The Contractor shall supervise and direct the Work, using his best skills and attention which shall not be less than such state of skill and attention generally rendered by the contracting profession for projects similar to the Project in scope, difficulty and location. The Contractor shall maintain adequate supervisory personnel at the project site during the performance of the Work. He shall be solely responsible for all construction means, methods, techniques, sequences and procedures and for coordinating all portions of the Work under the Agreement.
- B. Responsibility for the Work: (1) The Contractor shall be responsible to the Owner for the acts and omissions of his employees, Subcontractors and their agents and employees, and other persons performing any of the Work under a contract with the Contractor. This

obligation shall also extend to the presence on the Site of suppliers of materials or equipment, their employees, contractors, and agents engaged in the work.

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

C. Permits and Fees: Unless otherwise expressly provided, the Contractor shall secure and pay for all permits and fees, licenses and inspections necessary for the proper execution and completion of the Work which are customarily secured after execution of the Agreement and which are legally required at the time the bids are received, and the same shall at all times be the property of the Owner and shall be delivered to the Owner upon completion of the Project. Permits that would be obtained from the Town of Longmeadow Building Department shall be provided at no charge to the Contractor.

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

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

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

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

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

- F. Progress Schedule: The Contractor, immediately after being awarded the Contract, shall prepare and submit for the Owner's information an estimated progress schedule for the Work. The progress schedule shall be related to the entire Project to the extent required by the Contract Documents, and shall provide for expeditious and practicable execution of the Work.
- G. Drawings, Specifications and Submittals:
- (1) The Contractor shall maintain at the site for the Owner one record copy of all Drawings, Specifications, Addenda, Change Orders and other Modifications, and "As-Built" Drawings and Specifications in good order and marked currently to record all changes made during construction, and approved Shop Drawings, Product Data and Samples. These shall be delivered to the Owner upon completion of the Work.
  - (2) By approving and submitting Shop Drawings, Product Data and Samples, the Contractor represents that he has determined and verified all materials, field measurements, and field construction criteria related thereto, or will do so, and that he has checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents.
  - (3) The Contractor shall not be relieved of responsibility for any deviation from the requirements of the Contract Documents by the Owner's approval of Shop Drawings, Product Data or Samples unless the Contractor has specifically informed the Owner in writing of such deviation at the time of submission and the Owner has given written approval to the specific deviation. The Contractor shall not be relieved from responsibility for errors or omissions in the Shop Drawings, Product Data or Samples by the Owner's approval thereof.
  - (4) The Contractor shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data or Samples, to revisions other than those requested by the Owner on previous submittals.
  - (5) No portion of the Work requiring submission of a Shop Drawing, Product Data or Sample shall be commenced until the submittal has been approved by the Owner. All such portions of the Work shall be in accordance with approved submittals.
- H. Protection of the Work and Owner's Property: The Contractor shall at all times safely guard the Owner's property from injury or loss in connection with this Agreement. He shall at all times safely guard and protect his own work, and that of adjacent property from damage. The Contractor shall replace or make good any such damage, loss or injury. The Contractor shall clean the work area and restore it to its original condition upon completion of the work.

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

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

5. Equal Employment Opportunity

The Contractor is directed to comply with all applicable State Laws, Ordinances, Bylaws, and rules and regulations regarding affirmative action/equal employment opportunity requirements. Failure of the Contractor to comply with any such law, rule or regulation shall constitute grounds for the Owner to terminate the Agreement.

6. Site Information Not Guaranteed; Contractor's Investigation

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

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



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

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

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

7. Project Architect or Engineer

There is not \_\_\_\_\_, There is X is a project architect-engineer for this project who is Jamie Reinhardt, of Hill Engineers Architects Planners. Except as otherwise indicated in the Contract Documents, the Architect/Engineer shall be a representative of the Owner and the Contractor shall direct all communications, questions and comments on the work and the performance thereof to the Architect/Engineer. Except as otherwise provided, the Architect/Engineer shall have all the authority of the Owner set forth in the Contract Documents. In general, the Architect/Engineer shall have the authority to review the performance of the work, reject work which is defective or otherwise does not comply with the Contract Documents and to order the Contractor to remedy defective work and take such actions which are necessary to make the work conform to the Contract Documents.

8. Wage Rates

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

The schedules of prevailing wage rates are included in the Contract Documents. Wage Request Number: 20200630-023

9. Payments to the Contractor

Within fifteen (15) days after receipt from the Contractor of a periodic estimate requesting payment of the amount due for the preceding month, the Owner shall have fifteen (15) days to make payment for:

- A. The work performed during the preceding month.
- B. The materials not incorporated in the Work but delivered and suitably stored at the site (or at some location agreed upon in writing) to which the Contractor has title, or to which a Subcontractor has title and has authorized the Contractor to transfer title to the Owner.
- C. Less the following retention items:
  - 1. A retention based on an estimate of the fair value of the Owner's claims against the Contractor.
  - 2. A retention for direct payments to Subcontractors, if any, based on demands for same in accordance with the provisions of Section 39F of Chapter 30 of the General Laws.
  - 3. A retention not exceeding five percent (5%) of the approved amount of the periodic payment.
- D. After the receipt of a periodic estimate requesting final payment and within sixty-five (65) days after the Contractor fully completes the Work, or substantially completes the Work so that the value of the Work remaining to be done is, on the estimate of the Owner, less than 1% of the original Contract Price, or substantially completes the Work and the Owner takes possession or occupancy, whichever occurs first, the Owner shall pay the Contractor the entire balance due on the Contract less:
  - 1. A retention based on an estimate of the fair value of the Owner's claims against the Contractor and of the cost of completing the incomplete and unsatisfactory items of work.
  - 2. A retention for direct payments to Subcontractors, if any, based on demands of same in accordance with the provisions of Section 39F of Chapter 30 of the General Laws, or based on the record of payments by the Contractor to the Subcontractors under this Contract if such record of payment indicates that the Contractor has not paid Subcontractors as provided in Section 39F of Chapter 30 of the General Laws.

If the Owner fails to make payment as herein provided, there shall be added to each such payment, daily interest at the rate of 3 percentage points above the rediscount rate than charged by the Federal Reserve Bank of Boston, commencing on the first day after said payment is due, and continuing until the payment is delivered or mailed to the Contractor; provided that no interest shall be due, in any event, on the amount of a periodic estimate for final payment until fifteen (15) days after receipt of such a periodic estimate by the Owner as provided in the first paragraph of this Article. The Contractor agrees to pay to each subcontractor a portion of any such interest paid in accordance with the amount due each subcontractor.

The Owner may make changes in any periodic estimate submitted by the Contractor and the payment due on said periodic estimate shall be computed in accordance with the changes so made, and such changes and any requirements for a corrected periodic estimate shall not affect the due date for the periodic payment or the date for the commencement of interest charges on the amount of the periodic payment computed in accordance with the changes made, as provided herein; provided further, that the Owner may, within seven (7) days after receipt, return to the Contractor for correction, any periodic estimate which is not in acceptable form or which contains computations not arithmetically correct, and in that event, the date of receipt of such periodic estimate shall be the date of receipt of the corrected periodic estimate in proper form and with arithmetically correct computations. The date of receipt of a periodic estimate received on a Saturday shall be the first working day thereafter.

- E. Changes in the Work: No changes in the work covered by the approved Contract Documents shall be made without prior written approval of the Owner. Charges or credits for the work covered by the approved change shall be determined by one or more, or a combination of the following methods:
- (a) Unit bid prices previously approved.
  - (b) An agreed lump sum.
  - (c) The actual cost of:
    - (1) Labor.
    - (2) Materials entering permanently into the work.
    - (3) The ownership or rental cost of construction equipment during the time of use on the extra work.
    - (4) Power and consumable supplies for the operation of power equipment.
    - (5) Wages to be paid.
- F. Claims for Additional Costs: If the Contractor wishes to make a claim for an increase in the Contract Sum, he shall give the Owner written notice thereof within twenty days after

the occurrence of the event giving rise to such claim. This notice shall be given by the Contractor before proceeding to execute the Work, except in an emergency endangering life or property. No such claim shall be valid unless so made. Any change in the Contract Sum resulting from such claim shall be authorized by Change Order.

10. Final Payment, Effect

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

11. Contract Documents

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

- Invitation to Bid
- Instructions to Bidders
- This Contract Form
- Bid Form
- Labor & Materials Payment Bond, 100%
- Performance Bond, 100%
- Non-Collusion Certificate
- Tax Compliance Certificate
- Clerk's Certificate of Corporate Vote
- Certificate of Insurance
- General Conditions
- Supplementary General Conditions
- General Requirements
- Specifications and Addenda
- Contract Drawings
- Schedule of Prevailing Wages

12. Terms Required By Law

This Agreement shall be considered to include all terms required to be included in it by the Massachusetts General Laws, and all other laws, as though such terms were set forth in full herein.

13. Indemnification

The Contractor shall indemnify and hold harmless the Owner from and against any and all claims, damages, losses, and expenses, including attorney's fees, arising out of the performance of this Agreement when such claims, damages, losses, and expenses are caused, in whole or in part, by the acts, errors, or omissions of the Contractor or his employees, agents, subcontractors or representatives.

14. Insurance

The Contractor shall purchase and maintain such insurance as will protect both the Owner and the Contractor from claims which may arise under the Agreement, including operations performed for the named insured by independent contractors and general inspection thereof by the named insured. In addition, the Contractor shall require its subcontractors to maintain such insurance. Coverage shall be 1,000,000.00 aggregate provided for:

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

The limits of liability for coverage required under the preceding paragraph shall be as required by the Owner.

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

15. Notice

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

16. Termination

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

17. Miscellaneous

- A. Royalties and Patents: The Contractor shall pay all royalties and license fees. He shall defend all suits or claims for infringement of any patent rights and shall save the Owner harmless from loss on account thereof, except that the Owner shall be responsible for all such loss when a particular design, process or the product of a particular manufacturer or manufacturers is specified; but if the Contractor believes or has reason to believe that the design, process or product specified is an infringement of a patent, he shall be responsible for such loss unless he promptly gives such information to the Owner, and thereafter the Owner insists on the use of the design, process or products specified.
- B. Assignment: The Contractor shall not assign or transfer any of its rights, duties or obligations under this Agreement without the written approval of the Owner.
- C. Governing Law: This Agreement shall be governed by and construed in accordance with the law of the Commonwealth of Massachusetts.
- D. Safety and Protection: Protection of the Work and Owner's Property: The Contractor shall at all times safely guard the Owner's property from injury or loss in connection with this Agreement. The contractor shall at all times safely guard and protect their own work, and that of adjacent property from damage. The Contractor shall replace or make good any such damage, loss or injury. The Contractor shall clean the work area and restore it to its original condition upon the completion of the work. The Contractor shall comply with all applicable OSHA, State and municipal regulations and requirements for services and facilities in the performance of all requirements of this contract. OSHA safety requirements and training certification shall be adhered to for all personnel working on Town property.

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

**( PROVIDE AN INSURANCE CERTIFICATE NAMING LONGMEADOW AS INSURED)**

This is to certify that the \_\_\_\_\_ (Company) has issued the policies listed below, that these policies are written in accordance with the Company's standard policies and endorsements, except as indicated below or as noted in the attachments hereto, which policies and endorsements will be made available to OWNER upon request, that they provide coverage and limits of liability shown with respect to the insurance indicated, that they are in force on this date, that all deductible amounts are indicated below, and that this Certificate is furnished in accordance with and for the purpose of satisfying the requirements of OWNER in connection with the award and performance of a contract or agreement between the Town of \_\_\_\_\_ (OWNER) and

1. Name of Insured \_\_\_\_\_
2. Address of Insured \_\_\_\_\_
3. Location and Description of Work \_\_\_\_\_  
 \_\_\_\_\_ Project Contract No. \_\_\_\_\_

Coverage and Limits of Liability  
(at least as shown below)

Policy Number	Effective Date	Expiration Date	Each Occurrence		Aggregate
			Bodily Injury Liability	Property Damage Liability	

A. *Owners Protective Liability has been issued at the expense of Above Insured to \_\_\_\_\_ (Owner)*  
 \_\_\_\_\_ \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000

B. *Comprehensive General Liability*  
 \_\_\_\_\_ \$1,000,000 \$1,000,000 \$1,000,000 \$1,000,000  
 Including: 1. Operations/Premises 2. XCU 3. Products/Completed Operations  
 4. Contractual as Below 5. Independent Contractors  
 6. Broad Form Property Damage 7. Personal Injury

C. *Auto Liability* Each Each Each  
 Including: 1. All Owned Person Accident Accident  
 2. Hired \$1,000,000 \$1,000,000 \$1,000,000  
 3. Non-owned

D. *Workman's Compensation* Compensation Statutory State(s)  
 \_\_\_\_\_ Coverage B Limit \$1,000,000 if Applicable

E. *Umbrella Liability* \$ \_\_\_\_\_ Aggregate

F. *Builder's Risk Insurance - "All Risk" Completed Value Form*  
 \$ \_\_\_\_\_  
 \_\_\_\_\_ As Specified in Contract or Agreement



# TECHNICAL SPECIFICATIONS

## DIVISION 1 – GENERAL REQUIREMENTS

SECTION 01 10 00

SUMMARY

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Contract description.
- B. Work by Owner.
- C. Contractor's use of site.
- D. Work sequence.
- E. Owner occupancy.
- F. Specification Conventions.

1.2 CONTRACT DESCRIPTION

- A. Work of the Project includes:

The complete removal of the exiting wood balustrade and appurtenances and replacement with new as indicated on the project Drawings.

The complete removal of the existing roof membrane and insulation, down to the roof sheathing, and replacement with new as indicated on the project Drawings. Providing new insulation (rigid foam and blown-in).

New work to interface with the removal and reinstallation of the lower area of an existing slate shingle roof.

- B. Regulated material: Report on roof core sample is provided.
- C. Work of the Contract is identified in the Bid Section of the specifications.

1.3 WORK BY OWNER

- A. The Owner will award a contract for the project commencing on the date established in the post-bid conference.
- B. Owner will remove and retain possession of the following items before start of work:
  - 1. The fire department will vacate all vehicles, equipment and devices.

1.4 CONTRACTOR'S USE OF SITE

- A. Access to Site: Shall be instructed by the Owner.

- B. Emergency Building Exits During Construction: Shall be coordinated with the approval by the Owner.
- C. Construction Operations: Shall be instructed by the Owner.
- D. Time Restrictions for Performing Interior Work: Shall be instructed by the Owner.
- E. Utility Outages and Shutdown: Shall be coordinated with the approval by the Owner.

1.5 WORK SEQUENCE

- A. Construct Work to accommodate Owner's occupancy requirements during construction period, coordinate construction schedule and operations with the Owner/Architect.

1.6 OWNER OCCUPANCY

- A. The Owner will occupy the premises during the entire period of construction.
- B. Cooperate with Owner to minimize conflict, and to facilitate Owner's operations.
- C. Contractor to comply with the Town noise ordinance. With the agreement by the Town, the building may be opened and or closed outside of the scheduled/posted hours. Contractor is reminded that the building will remain in operation and will work with the Fire Department and Longmeadow representative to minimize disruption and to coincide with operations.

1.7 SPECIFICATION CONVENTIONS

- A. These specifications are written in imperative mood and streamlined form. This imperative language is directed to the Contractor, unless specifically noted otherwise. The words “shall be” are included by inference where a colon (:) is used within sentences or phrases.

END OF SECTION

SECTION 01 30 00

ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Coordination and project conditions.
- B. Preconstruction meeting.
- C. Progress meetings.
- D. Cutting and patching.
- E. Special procedures.

1.2 COORDINATION AND PROJECT CONDITIONS

- A. Coordinate scheduling, submittals, and Work of various sections of Project Manual to ensure efficient and orderly sequence of installation of interdependent construction elements.
- B. Verify utility requirements and characteristics of operating equipment are compatible with building utilities. Coordinate work of various sections having interdependent responsibilities for installing, connecting to, and placing in service, operating equipment.
- C. Coordinate space requirements, supports, and installation of electrical Work indicated diagrammatically on Drawings. Follow routing shown for pipes, ducts, and conduit, as closely as practicable; place runs parallel with lines of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs.
- D. Coordinate completion and clean-up of Work of separate sections in preparation for Substantial Completion.
- E. After Owner occupancy of premises, coordinate access to site for correction of defective Work and Work not in accordance with Contract Documents, to minimize disruption of Owner's activities.

1.3 PRECONSTRUCTION MEETING

- A. Architect/Engineer will schedule meeting after Notice of Award.
- B. Attendance Required: Owner, Architect/Engineer, and Contractor.
- C. Agenda:
  - 1. Submission of executed bonds and insurance certificates.

2. Distribution of Contract Documents.
  3. Submission of list of Subcontractors, list of products, schedule of values, and progress schedule.
  4. Designation of personnel representing parties in Contract, Owner, and Architect/Engineer.
  5. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, Change Orders, and Contract closeout procedures.
  6. Scheduling.
- D. Contractor shall record minutes and distribute copies within two days after meeting to participants, with copy to Architect/Engineer, Owner, and those affected by decisions made.

#### 1.4 PROGRESS MEETINGS

- A. Schedule and administer meetings throughout progress of the Work at maximum bi-monthly intervals.
- B. Attendance Required: Job superintendent, major subcontractors and suppliers, Owner, Architect/Engineer, as appropriate to agenda topics for each meeting.
- C. Contractor shall record minutes and distribute copies within two days after meeting to participants, with copy to Architect/Engineer, Owner, and those affected by decisions made.

#### PART 2 PRODUCTS - Not Used

#### PART 3 EXECUTION

##### 3.1 CUTTING AND PATCHING

- A. Employ skilled and experienced installer to perform cutting and patching.
- B. Execute cutting, fitting, and patching to complete Work.
- C. Execute work by methods to avoid damage to other Work, and to provide proper surfaces to receive patching and finishing.
- D. Restore Work with new products in accordance with requirements of Contract Documents.
- E. Maintain integrity of construction; completely seal voids.
- F. Refinish surfaces to match adjacent finishes. For continuous surfaces, refinish to nearest intersection; for assembly, refinish entire unit.

- G. Identify hazardous substances or conditions exposed during the Work to Architect/Engineer for decision or remedy.

### 3.2 SPECIAL PROCEDURES

- A. Materials: As specified in product sections; match existing with new products and salvaged products for patching and extending work.
- B. Employ skilled and experienced installer to perform alteration work.
- C. Cut, move, or remove items as necessary for access to alterations and renovation Work. Replace and restore at completion.
- D. Remove unsuitable material not marked for salvage, including rotted wood, corroded metals, and deteriorated masonry and concrete. Replace materials as specified for finished Work.
- E. Remove debris and abandoned items from area and from concealed spaces.
- F. Prepare surface and remove surface finishes to permit installation of new work and finishes.
- G. Remove, cut, and patch Work in manner to minimize damage and to permit restoring products and finishes to original condition.
- H. Refinish existing visible surfaces to remain in renovated rooms and spaces, to renewed condition for each material, with neat transition to adjacent finishes.
- I. Where new Work abuts or aligns with existing, provide smooth and even transition. Patch Work to match existing adjacent Work in texture and appearance.
- J. When finished surfaces are cut so that smooth transition with new Work is not possible, terminate existing surface along straight line at natural line of division and submit recommendation to Architect/Engineer for review.
- K. Patch or replace portions of existing surfaces which are damaged, lifted, discolored, or showing other imperfections.
- L. Finish surfaces as specified in individual product sections.

END OF SECTION

SECTION 01 33 00

SUBMITTAL PROCEDURES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Submittal procedures.
- B. Construction progress schedules.
- C. Product data.
- D. Shop drawings.
- E. Samples.
- F. Certificates.
- G. Manufacturer's instructions.

1.2 SUBMITTAL PROCEDURES

- A. Transmit each submittal with separate transmittal identifying the product.
- B. Identify Project, Contractor, subcontractor and supplier; pertinent drawing and detail number, and specification section number, appropriate to submittal.
- C. Apply Contractor's stamp, signed or initialed certifying that review, approval, verification of products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with requirements of the Work and Contract Documents.
- D. Schedule submittals to expedite Project, and deliver to Architect/Engineer. Coordinate submission of related items.
- E. For each submittal for Architect/Engineer review, allow one (1) week excluding delivery time to and from Contractor.
- F. Identify variations from Contract Documents and product or system limitations which may be detrimental to successful performance of completed Work.
- G. Allow space on submittals for Contractor and Architect/Engineer review stamps.
- H. When revised for resubmission, identify changes made since previous submission.
- I. Distribute copies of reviewed submittals as appropriate. Instruct parties to promptly report inability to comply with requirements.

- J. Submittals not requested will not be recognized or processed.
- K. Provide Architect with Contractor's overnight delivery account number so that Architect may return reviewed submittal by overnight service.

### 1.3 CONSTRUCTION PROGRESS SCHEDULES

- A. Submit preliminary outline Schedules within (10) ten days after date of established in Notice to Proceed for coordination with Owner's requirements. After review, submit detailed schedules within (10) ten days modified to accommodate revisions recommended by Architect/Engineer and by Owner.
- B. Submit revised Progress Schedules every (2) weeks.
- C. Distribute copies of reviewed schedules to Project site file, subcontractors, suppliers, and other concerned parties.
- D. Instruct recipients to promptly report, in writing, problems anticipated by projections indicated in schedules.

### 1.4 PRODUCT DATA

- A. Product Data: Submit to Architect/Engineer for review for limited purpose of checking for conformance with information given and design concept expressed in Contract Documents.
- B. Submit number of copies Contractor requires, plus two copies Architect/Engineer will retain.
- C. Mark each copy to identify applicable products, models, options, and other data. Supplement manufacturers' standard data to provide information specific to this Project.
- D. Indicate product utility and electrical characteristics, utility connection requirements, and location of utility outlets for service for functional equipment and appliances.
- E. After review, produce copies and distribute in accordance with SUBMITTAL PROCEDURES article and for record documents described in Section 01 70 00 - Execution and Closeout Requirements.

### 1.5 SHOP DRAWINGS

- A. Shop Drawings: Submit to Architect/Engineer for review for limited purpose of checking for conformance with information given and design concept expressed in Contract Documents.
- B. When required by individual specification sections, provide shop drawings signed and sealed by professional engineer responsible for designing components shown on shop drawings.
  - 1. Include signed and sealed calculations to support design.



2. Submit drawings and calculations in form suitable for submission to and approval by authorities having jurisdiction.
  3. Make revisions and provide additional information when required by authorities having jurisdiction.
- C. After review, produce copies and distribute in accordance with SUBMITTAL PROCEDURES article and for record documents described in Section 01 70 00 - Execution and Closeout Requirements.
- D. See Drawings for additional requirements, photograph.

#### 1.6 SAMPLES

- A. Samples: Submit to Architect/Engineer for review for limited purpose of checking for conformance with information given and design concept expressed in Contract Documents.
- B. Samples For Selection as Specified in Product Sections:
1. Submit to Architect/Engineer for aesthetic, color, or finish selection.
  2. Submit samples of finishes from full range of manufacturers' standard colors, textures, and patterns for Architect/Engineer selection.
- C. Submit samples to illustrate functional and aesthetic characteristics of Products, with integral parts and attachment devices. Coordinate sample submittals for interfacing work.
- D. Include identification on each sample, with full Project information.
- E. Submit number of samples specified in individual specification sections; Architect/Engineer will retain (2) two samples.
- F. Reviewed samples which may be used in the Work are indicated in individual specification sections.

#### 1.7 CERTIFICATES

- A. When specified in individual specification sections, submit certification by manufacturer, installation/application subcontractor, or Contractor to Architect/Engineer, in quantities specified for Product Data.
- B. Indicate material or product conforms to or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.
- C. Certificates may be recent or previous test results on material or Product, but must be acceptable to Architect/Engineer.

1.8 MANUFACTURER'S INSTRUCTIONS

- A. When specified in individual specification sections, submit printed instructions for delivery, storage, assembly, installation, adjusting, and finishing, to Architect/Engineer for delivery to Owner in quantities specified for Product Data.
- B. Indicate special procedures, perimeter conditions requiring special attention, and special environmental criteria required for application or installation.

END OF SECTION

SECTION 01 60 00

PRODUCT REQUIREMENTS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Products.
- B. Product delivery requirements.
- C. Product storage and handling requirements.
- D. Product options.
- E. Product substitution procedures.
- F. Equipment electrical characteristics and components.

1.2 PRODUCTS

- A. Furnish products of qualified manufacturers suitable for intended use. Furnish products of each type by single manufacturer unless specified otherwise.
- B. Do not use materials and equipment removed from existing premises, except as specifically permitted by Contract Documents.
- C. Furnish interchangeable components from same manufacturer for components being replaced.

1.3 PRODUCT DELIVERY REQUIREMENTS

- A. Transport and handle products in accordance with manufacturer's instructions.
- B. Promptly inspect shipments to ensure products comply with requirements, quantities are correct, and products are undamaged.
- C. Provide equipment and personnel to handle products by methods to prevent soiling, disfigurement, or damage.

1.4 PRODUCT STORAGE AND HANDLING REQUIREMENTS

- A. Store and protect products in accordance with manufacturers' instructions.
- B. Store with seals and labels intact and legible.
- C. Store sensitive products in weather tight, climate controlled, enclosures in an environment favorable to product.

- D. Cover products subject to deterioration with impervious sheet covering. Provide ventilation to prevent condensation and degradation of products.
- E. Arrange storage of products to permit access for inspection. Periodically inspect to verify products are undamaged and are maintained in acceptable condition.

#### 1.5 PRODUCT OPTIONS

- A. Products Specified by Naming One or More Manufacturers with Provision for Substitutions: Submit request for substitution for any manufacturer not named in accordance with the following article.

#### 1.6 PRODUCT SUBSTITUTION PROCEDURES

- A. Substitutions may be considered when a product becomes unavailable through no fault of Contractor.
- B. Document each request with complete data substantiating compliance of proposed Substitution with Contract Documents.
- C. Substitution Submittal Procedure:
  - 1. Submit Shop Drawings, Product Data, and certified test results attesting to proposed product equivalence. Burden of proof is on proposer.

END OF SECTION

SECTION 01 70 00

EXECUTION AND CLOSEOUT REQUIREMENTS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Closeout procedures.
- B. Final cleaning.
- C. Protecting installed construction.
- D. Project record documents.
- E. Spare parts and maintenance products.
- F. Maintenance service.

1.2 CLOSEOUT PROCEDURES

- A. Submit written certification that Contract Documents have been reviewed, Work has been inspected, and that Work is complete in accordance with Contract Documents and ready for Architect/Engineer's review.
- B. Submit final Application for Payment identifying total adjusted Contract Sum, previous payments, and sum remaining due.

1.3 FINAL CLEANING

- A. Execute final cleaning prior to final project assessment.
- B. Clean interior surfaces exposed to view and; remove temporary labels.
- C. Clean equipment and fixtures to sanitary condition with cleaning materials appropriate to surface and material being cleaned.
- D. Remove waste and surplus materials, rubbish, and construction facilities from the project area.

1.4 PROTECTING INSTALLED CONSTRUCTION

- A. Protect installed Work and provide special protection where specified in individual specification sections.
- B. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
- C. Protect finished floors from traffic, dirt, wear, damage, or movement of heavy objects.

## 1.5 PROJECT RECORD DOCUMENTS

- A. Maintain on site one set of the following record documents; record actual revisions to the Work:
  - 1. Drawings.
  - 2. Specifications.
  - 3. Addenda.
  - 4. Change Orders and other modifications to the Contract.
  - 5. Reviewed Shop Drawings, Product Data, and Samples.
  - 6. Manufacturer's instruction for assembly, installation, and adjusting.
- B. Ensure entries are complete and accurate, enabling future reference by Owner.
- C. Store record documents separate from documents used for construction.
- D. Record information concurrent with construction progress, not less than weekly.
- E. Specifications: Legibly mark and record at each product section description of actual products installed, including the following:
  - 1. Manufacturer's name and product model and number.
  - 2. Product substitutions or alternates utilized.
  - 3. Changes made by Addenda and modifications.
- F. Record / Shop Drawings: Legibly mark each item to record actual construction including:
  - 1. Field changes of dimension and detail.
  - 2. Details not on original Contract drawings.
- G. Submit documents to Architect/Engineer with claim for final Application for Payment.

## 1.6 SPARE PARTS AND MAINTENANCE PRODUCTS

- A. Furnish spare parts, maintenance, and extra products in quantities specified in individual specification sections.
- B. Deliver to and place in location as directed by Owner; obtain receipt prior to final payment.

## 1.7 MAINTENANCE SERVICE

- A. Furnish service and maintenance of all components installed for (1) one year from date of Substantial Completion.
- B. Examine system components at frequency consistent with reliable operation. Clean, adjust, and lubricate as required.
- C. Include systematic examination, adjustment, and lubrication of components. Repair or replace parts whenever required. Use parts produced by manufacturer of original component.

END OF SECTION

SECTION 02 41 19

SELECTIVE STRUCTURE DEMOLITION

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes:
  - 1. Demolishing designated building equipment and fixtures.
  - 2. Demolishing designated construction.
  - 3. Cutting and alterations for completion of the Work.
  - 4. Removing designated items for reuse and Owner's retention.
  - 5. Protecting items designated to remain.
  - 6. Removing demolished materials.

1.2 SUBMITTALS

- A. Section 01 33 00 – Submittal Procedures: Requirements for submittals.
- B. Demolition Schedule: Indicate overall schedule and interruptions required for utility and building services.
- C. Shop Drawings:
  - 1. Indicate demolition and removal sequence.

1.3 CLOSEOUT SUBMITTALS

- A. Section 01 70 00 – Execution of Closeout Requirements: Requirements for submittals.

1.4 QUALITY ASSURANCE

- A. Conform to applicable code for demolition work, dust control, products requiring electrical disconnection and re-connection.
- B. Conform to applicable code for procedures when hazardous or contaminated materials are discovered.
- C. Obtain required permits from authorities having jurisdiction.
- D. Perform Work in accordance with State, and Municipality standard.

1.5 PRE-INSTALLATION MEETINGS

- A. Convene minimum one week prior to commencing work of this section.

1.6 SEQUENCING

- A. Section 01 10 00 – Summary: Requirements for sequencing.

- B. Contractor shall sequence activities to expedite the Work.
- C. Owner will conduct salvage operations before demolition begins to remove materials Owner chooses to retain.

#### 1.7 SCHEDULING

- A. Section 01 33 00 – Submittal Procedures: Requirements for scheduling.
- B. Cooperate with the Owner in scheduling noisy, dusty and odor producing operations and waste removal that may impact Owners operation and occupancy in adjoining spaces.
  - 1. It may/will be necessary to perform Work on Saturdays and Sundays.
- C. Coordinate utility and building service interruptions with Owner.
  - 1. Do not disable or disrupt building fire or life safety systems without three (3) days prior written notice to Owner.
  - 2. Schedule tie-ins to existing systems to minimize disruption.
  - 3. Coordinate Work to ensure fire alarms, smoke detectors, emergency lighting, exit signs and other life safety systems remain in full operation in occupied areas.

#### 1.8 PROJECT CONDITIONS

- A. Conduct demolition to minimize interference with adjacent and occupied building areas.
- B. Cease operations immediately if structure appears to be in danger and notify Architect/Engineer. Do not resume operations until directed.

### PART 2 PRODUCTS

Not Used.

### PART 3 EXECUTION

#### 3.1 PREPARATION

- A. Notify affected utility companies before starting work and comply with their requirements.
- B. Mark location and termination of utilities.
- C. Erect, and maintain temporary barriers and security devices at work locations, including warning signs and lights, and similar measures, for protection of the Owner, and existing improvements indicated to remain.
- D. Seal all openings and provide ventilation to prevent odors passing into the occupied spaces of the building.



### 3.2 SALVAGE REQUIREMENTS

- A. Coordinate with Owner to identify building components and equipment required to be removed and delivered to Owner.
- B. Tag components and equipment Owner designates for salvage.
- C. Protect designated salvage items from demolition operations until items can be removed.
- D. Carefully remove building components and equipment indicated to be salvaged.
- E. Disassemble as required to permit removal from building.
- F. Package small and loose parts to avoid loss.
- G. Mark equipment and packaged parts to permit identification and consolidation of components of each salvaged item.
- H. Prepare assembly instructions consistent with disassembled parts. Package assembly instructions in protective envelope and securely attach to each disassembled salvaged item.
- I. Deliver salvaged items to Owner. Obtain signed receipt from Owner.

### 3.3 DEMOLITION

- A. Conduct demolition to minimize interference with adjacent and occupied building areas.
- B. Maintain protected egress from and access to adjacent existing buildings at all times.
- C. Disconnect and remove designated utilities within demolition areas.
- D. Cap and identify abandoned utilities at termination points when utility is not completely removed. Annotate Record Drawings indicating location and type of service for capped utilities remaining after demolition.
- E. Demolish in orderly and careful manner. Protect existing improvements.
- F. Carefully remove building components indicated to be reused.
  - 1. Disassemble components as required to permit removal.
  - 2. Package small and loose parts to avoid loss.
  - 3. Mark components and packaged parts to permit reinstallation.
  - 4. Store components, protected from construction operations, until reinstalled.
- G. Remove demolished materials from site except where specifically noted otherwise. Do not burn or bury materials on site.
- H. Remove materials as Work progresses. Upon completion of Work, leave areas in clean condition.

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- I. Remove temporary Work.
- J. Protect all materials and equipment remaining.

END OF SECTION

SECTION 07 21 26

BLOWN INSULATION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Ceiling: Loose insulation pneumatically placed into joist spaces through access holes.

1.2 REFERENCE STANDARDS

A. ASTM International:

1. ASTM C739 - Standard Specification for Cellulosic Fiber Loose-Fill Thermal Insulation.
2. ASTM C764 - Standard Specification for Mineral Fiber Loose-Fill Thermal Insulation.
3. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
4. ASTM E970 - Standard Test Method for Critical Radiant Flux of Exposed Attic Floor Insulation Using a Radiant Heat Energy Source.

B. U.S. Code of Federal Regulations:

1. 16 CFR 1209 - Interim Safety Standard for Cellulose Insulation.
2. 16 CFR 1404 - Cellulose Insulation.

C. Underwriters Laboratories of Canada:

1. ULC S102.2 - Surface Burning Characteristics of Flooring, Floor Coverings, and Miscellaneous Materials and Assemblies.

1.3 COORDINATION

- A. Section 013000 - Administrative Requirements: Requirements for coordination.

1.4 SUBMITTALS

- A. Section 013300 - Submittal Procedures: Requirements for submittals.

- B. Product Data: Submit manufacturer information on product characteristics, performance criteria, and limitations.

- C. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.

- D. Manufacturer Instructions: Submit procedure for preparation and installation.

#### 1.5 QUALITY ASSURANCE

- A. Furnish and label cellulose loose-fill insulation according to 16 CFR 1209 and 16 CFR 1404.
- B. Surface-Burning Characteristics of Insulation Installed in Concealed Locations:
  - 1. Cellulose Loose-Fill Insulation: Maximum 450 smoke-developed index when tested according to ASTM E84.
  - 2. Other Loose-Fill Insulation: Maximum 25/450 flame-spread/smoke-developed index when tested according to ASTM E84.
- C. Apply label from agency approved by authority having jurisdiction to identify each package of cellulose loose-fill insulation.

#### 1.6 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing products specified in this Section with minimum three (3) years' documented experience.

#### 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Section 01 60 00 - Product Requirements: Requirements for transporting, handling, storing, and protecting products.
- B. Inspection: Accept materials on Site in manufacturer's original packaging and inspect for damage.
- C. Store materials according to manufacturer instructions.
- D. Protection:
  - 1. Protect materials from moisture and dust by storing in clean, dry location remote from construction operations areas.
  - 2. Provide additional protection according to manufacturer instructions.

### PART 2 - PRODUCTS

#### 2.1 SYSTEM DESCRIPTION

- A. Materials: Provide continuity of thermal barrier at building enclosure elements.

## 2.2 BLOWN INSULATION

### A. Manufacturers:

1. National Fiber, Cel-Pak or architect approved equal.

## 2.3 COMPONENTS

### A. Fiber Fill Insulation:

1. Description:
  - a. Type: Cellulose fiber.
  - b. Bulk for pneumatic placement.
2. Comply with ASTM C739.

### B. Ventilation Baffles: Formed, of plastic, metal or cardboard.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Section 01 70 00 - Execution of Closeout Requirements: Requirements for application examination.
- B. Verify that substrate, adjacent materials, and insulation are dry and ready to receive insulation.
- C. Verify light fixtures have thermal cutout device to restrict overheating in soffit or ceiling spaces.
- D. Verify that spaces are unobstructed to allow for placement of insulation.

### 3.2 INSTALLATION

- A. Equipment Access: Drill holes for access ports to the diameter necessary for product installation. Seal opening with wood plug upon completion
- B. Place insulation pneumatically, tight in joist spaces.
- C. Baffles and Services:
  1. Provide baffles to limit the flow of the insulation to the area of work. Place insulation against baffles.
  2. Place insulation against and behind mechanical and electrical services within plane of insulation.

- D. Completely fill intended spaces, leaving no gaps or voids.
- E. Installation Standards: Install Work according to manufacturer standards.

### 3.3 CLEANING

- A. Section 01 70 00 - Execution of Closeout Requirements: Requirements for cleaning.
- B. Remove loose insulation residue.

### 3.4 ATTACHMENTS

- A. Refer to the project drawings for the area of roof to be insulated with blown insulation.
- B. Spaces: Provide insulation between ceiling joists to fill the existing joist cavity.

END OF SECTION

SECTION 07 31 26

SLATE ROOFING SHINGLES

## General Installation Guidelines for Natural Quarried Roofing Slate

Version 1.5, October, 2017



**Slate Roofing Contractors Association of North America, Inc.**

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## **INTRODUCTION**

These Installation Guidelines have been developed and produced for the general public by professional slate roofing contractor members of the Slate Roofing Contractors Association of North America, Inc., a 501c6 non-profit international trade association, via a peer-reviewed, consensus-based committee process taking place over an extended period of time. These Installation Guidelines, if followed, are designed to produce a long-lasting, weathertight slate roof for most basic applications. Refer to the SRCA Section 07310 “Slate Shingles” for architectural specifications.

### **PART 1 — GENERAL PROJECT PREPARATION AND EXECUTION**

#### **1.1. CONTRACTORS**

A. It is recommended that prospective contractors have foremen or supervisors who have a minimum of five years of professional experience in installing natural quarried slate roofing and who can provide a resume listing successful completion of slate roof installations of similar size and scope.

B. Contractors shall furnish all insurance, permits, labor, materials, equipment, apparatus, tools, transportation and services necessary for, and incidental to, the proper installation and completion of the slate roof. This work may include removing and properly disposing off-site of existing slate roofing or other shingles, if any; installing underlayment; installing new sheet metal flashings, and installing new or salvaged roofing slate to cover the entire existing slate roof area, leaving a very long term, damage resistant, weatherproof roof.

C. Contractors shall use workmen who are trained and experienced in laying slate, installing metal flashing, and all other skills needed to satisfactorily complete the project as specified, or use workmen who are under the full-time supervision of a foreman or supervisor with such training and experience.

D. Contractors shall use workmen familiar with the use of slate hammers for punching and nailing slate shingles, slate rippers for removing slates already installed, slate cutters for trimming and cutting slate shingles, slater’s stakes used with slate hammers that have a cutting shank, roof brackets and scaffolding for staging the roof, and hook ladders for accessing areas of the roof not staged.

#### **1.2. CONTRACT DOCUMENTS**

A. Contractors will provide contract documents that include detailed specifications for all materials and installation styles, including, but not limited to slate types, thicknesses, colors, and



origins; nail types and lengths; underlayment types and weights; headlaps; ridge style; valley style; flashing materials, including weights, types and sizes of metals.

B. Contract documents shall also include a detailed warranty (see Section 1.8). It is recommended that this SRCA General Roofing Installation Guidelines for Natural Quarried Slate document be attached to the contract as an addendum.

### **1.3. MATERIALS DELIVERY AND STORAGE**

A. Slate roofing shingles shall be delivered on manufacturer's skids with intact labels indicating source whenever possible.

B. Rolled underlayments shall be stored on end and manufacturer's recommendations for job-site storage and protection shall be followed.

C. Materials shall not be stored on existing fire escapes, in areas that may obstruct the ingress or egress of essential doorways or walkways, or on low-slope roofs or other roof slopes where the weight of the materials may damage the roof structure.

### **1.4 CODES AND REGULATIONS**

A. Contractor shall comply with all federal, state, local and contractual regulations regarding specific installations, and abide by applicable building, safety and health codes related to construction practices or use of equipment.

B. Contractor shall comply with the regulations of local governing Historical Societies and the National Registry of Historic Properties, when applicable.

### **1.5 PROTECTION OF ROOF SURFACES**

A. Workers shall not damage slates by walking on them.

B. The roof shall be properly staged to allow safe work surfaces, such as with roof brackets and scaffold-grade planks, that prevent unnecessary foot traffic on the slates.

C. Where foot traffic is unavoidable, roof ladders, hook ladders, chicken ladders, foam pads or other such devices should be used to protect the slates.

### **1.6 INSURANCE**

A. Contractor shall carry Liability Insurance and Workers Compensation Insurance according to state requirements.

B. Contractor will provide, upon request, Certificates of Insurance to Owner prior to the execution of any work.

### **1.7 CLEAN UP**

- A. Tools, equipment, surplus materials, slate scraps, and debris resulting from the slate roof installation shall be organized and cleaned up, or removed and properly disposed of, on a daily basis.
- B. Gutters and roof areas will be cleaned of debris at the end of each work day and upon completion of the work.
- C. Dust and dirt may infiltrate into the attic space during installation or removal of roofing slate. Owner shall be advised to remove any valuable items from the attic space and/or to cover such items with plastic, tarps, or other suitable covering prior to the commencement of any work.

### **1.8 WARRANTY**

- A. Contractor shall warranty a new slate roof installation, covering both material and labor for defects that may occur, for a minimum period of five years.
- B. Owner shall visually inspect the Work on an annual basis and report to the contractor any observed defects that are covered by the warranty.
- C. The contractor cannot be held responsible for damage caused by other persons or by unusual and damaging weather events such as large hail, strong winds, lightning, flooding, earthquakes, excessive snow and ice buildup, or other “acts of God.”
- D. Contractor's warranty terms shall be clearly detailed in the contract documents.
- E. An extended service maintenance agreement is recommended beyond the warranty period.

### **1.9 EXTRA MATERIAL**

- A. Contractor shall provide for the Owner two percent of field slates used in the Work as maintenance stock for future repairs.
- B. The maintenance stock is to be placed in storage in a location at the work site to be determined by the Owner.

## **PART 2 — ROOFING SLATE**

### **2.1 PROCUREMENT**

- A. Procure new roofing slates from known sources so that additional matching supplies can be obtained if needed. A single quarry source is recommended.
- B. Slates shall be supplied by manufacturers that are experienced in the production of roofing slate and that quarry or mine high-quality rock specifically selected for roofing grade applications.

Provide manufacturer's warranty in writing. Substitution of slates with slates from other sources shall not be permitted without written approval from the Owner or architect.

C. Slates shall be identified and labeled according to the quarry source and location. For example, foreign slates shall not be misrepresented as domestic slates.

D. When ordering field slates, whenever possible, also procure the starter slates from the same manufacturer, punched for nail holes to allow the starter slates to be laid back side out. The starter slates should be the same width as the field slates (when uniform width slates are used), and long enough to allow for a minimum headlap of three inches on the starter course.

E. Refer to [http://slateroofers.org/sources\\_new\\_slate.html](http://slateroofers.org/sources_new_slate.html) for sources of new roofing slate.

## 2.2 QUALITY CONTROL

A. Slates shall conform to ASTM C 406 and shall be Grade S1 (minimum 575 lbf breaking load<sup>1</sup>, maximum 0.25% absorption<sup>2</sup>, and maximum 0.002 inches depth of softening<sup>3</sup>).

*[<sup>1</sup>ASTM C120, Test Methods of Flexure Testing of Slate (Breaking Load, Modulus of Rupture, Modulus of Elasticity); <sup>2</sup>ASTM C 121, Test Method for Water Absorption of Slate; <sup>3</sup>ASTM C 217, Test Method for Weather Resistance of Slate]*

B. All slate shall be hard, dense, sound rock of natural cleft with chamfered (beveled) edges. No broken or cracked slate shall be used, although broken slates may be cut into smaller, unbroken pieces.

C. Slates up to 3/8" in thickness shall be punched for nail holes; slates over 3/8" in thickness may be drilled and countersunk, for a minimum of two nail holes each. The holes punched in the slates shall be the correct diameter to provide a snug fit for the shank of the roofing nails. Slates shall be punched back to front (except starter slates, which are punched front to back). Slates shall be punched on the thinner end if there is a variation in the thickness along the length of the slate.

D. Rectangular slates with broken corners on the exposed end shall be rejected if a corner is broken off greater than 1.5 inches in either direction, although such slates may be used for cutting into smaller pieces.

E. Curvature of slates shall not exceed 1/8 inch over a distance of 12 inches. Curved slates shall be trimmed and punched to permit them to be laid with the convex side facing up.

F. Defects in slates such as "knuckles," "knots," "knurls" and "cramps" which protrude above the surface of the slates shall be positioned such that they remain on the exposed top surface of the slate after installation. Knots, knurls and cramps shall not be permitted on the back or covered portions of the slates unless removed by grinding beforehand. A slate shall be rejected if a surface defect adversely affects the proper laying of the slate.

- G. Slates shall be free of pyrite inclusions that can visibly leach rust stains onto the roof.
- H. Slates shall not have carbon-bearing bands known as “ribbons” as these are considered defects that undermine the longevity of the slate.
- I. Nail holes are to be positioned no more than 1.5” in from the side edges of the slate. Nail holes must be positioned approximately 2/3 the distance from the bottom of the slate when using standard 3” headlap. The top of the underlying slate shall not be penetrated by the slating nails.

## **2.3 INSTALLATION STYLES**

- A. Slate installation styles may include, but are not limited to:
  - 1. A “standard” pattern where all of the slates are the same length and width, although these can include slates of differing colors and shapes;
  - 2. A “random width” style where the slates are the same length, but differing widths;
  - 3. A “textural” style where thicknesses, textures, colors, lengths, widths and types of slate may be blended for architectural effect;
  - 4. A “graduated” style where thicker or longer slates are installed near the eaves and the slates gradually decrease in size as they near the top of the roof;
  - 5. A “staggered butt” style where slates of varying lengths are installed in such a manner that the exposed butts are staggered.
- B. When mixed, graduated, or textural slate styles are to be installed, or slates with mixed colors, sizes, types and/or thicknesses, the quantities of the various sizes and types of slates and the layout patterns of the slates are to be clearly specified in the contract documents.
- C. If necessary, build mockups to demonstrate aesthetic effects and to set quality standards.
  - 1. Use materials specified for the project in the mockup.
  - 2. Retain mockup for duration of the project.
  - 3. Approved mockups may become part of the completed work.

## **PART 3 — GENERAL MATERIALS**

### **3.1 ROOFING UNDERLAYMENT**

- A. Cover surfaces to be slated with roofing underlayment to weather in the building, when needed.

B. Roofing underlayment shall, at a minimum, comply with ASTM D 226 asphalt-saturated organic felt, Type II, No. 30, unperforated.

C. Felt shall be installed horizontally with sections overlapped toward eaves or drains by a minimum of two inches and at ends by a minimum of six inches. The felt shall overlap hips and ridges by approximately 12 inches. All felt shall be preserved unbroken, tight, and whole.

D. Felt shall be secured with minimum 1" electro-galvanized roofing nails along laps, ends, and in the field as necessary to properly hold the felt in place and to protect the building from water infiltration until covered with slate.

E. The maximum length of exposure for felts prior to slating shall be one month. When the felt must be left for long periods before the slates can be installed, the exposed nail heads are to be skimmed over with a thin layer of trowel grade roof mastic to prevent leakage around the nail heads.

F. When self-adhesive underlayment is used along eaves or elsewhere, it shall be covered with felt.

G. On slopes from 4:12 to 12:12, a half-lapped double layer of No. 30 felt is recommended when the felt is not going to be slated over immediately. Slopes over 12:12 may use a single layer of felt as may any slope that is to be slated within a few days.

H. Additional underlayment may also be used in ice-dam prone areas, such as Type II felt installed on top of the existing felt, with a layer of trowel-grade roof mastic spread evenly underneath the additional felt layer.

### **3.2 NAILS**

A. Nails shall be solid copper, smooth-shank roofing nails, minimum 11 gauge, minimum 1.25" length. Copper nails 2.5" or longer shall be minimum 10 gauge. Alternatively, Type 304 smooth-shank stainless steel roofing nails can be used, not less than 1.25" long.

B. Hot-dipped galvanized smooth-shank roofing nails may be utilized when specified.

C. Nail length is to be approximately twice the thickness of the slates plus one inch. Nails are to fully embed into the roof decking material without more than 1/4" nail length being exposed on the underside of the roof decking. When the underside of the roof decking is exposed, such as at overhanging eaves, the nails shall be long enough to penetrate the roof decking, but not so long that they may be visibly driven through.

D. Recommended nail lengths are as follows when 1" or thicker roof deck is utilized:

1. 3/16"-1/4" thick slates are to be fastened with 1.5" nails.

2. 3/8" thick slates are to be fastened with 1.75" nails.
3. 1/2" thick slates are to be fastened with 2" nails.
4. 3/4" thick slates are to be fastened with 2.5" nails.
5. 1" thick slates are to be fastened with 3" nails.

### **3.3 FLASHING**

- A. Flashing shall be minimum 16 ounce copper conforming to ASTM B 370, minimum 28 gauge stainless steel, or minimum 4 lb. sheet lead. Twenty ounce copper flashing is recommended.
- B. Flashing shall be installed where there are roof plane intersections, where the roof abuts walls, parapets, dormers and chimneys, or where there are roof penetrations.
- C. All flashings and fasteners are to be galvanically compatible metals.
- D. Additional flashing guidelines are available from SMACNA's "Architectural Sheet Metal Manual" and the publication "Copper and Common Sense" by Revere Copper Products.

### **3.4 MASTIC**

- A. Roof mastic shall be non-asbestos fibered asphalt cement complying with ASTM D 4586.
- B. Roof mastic shall be designed for trowel application.

### **3.5 SLATE HOOKS**

- A. Slate hooks shall be minimum three inches long, solid copper or stainless steel.
- B. Standard slate hooks are for use with slate of commercial standard thickness only. Custom slate hooks may be fabricated for use with thicker slates.

### **3.6 CANTS**

- A. Wood cants for installing underneath the starter course of slate shingles shall be minimum 1/4 inch by 1 inch lath or other solid, glue-free wood. Alternatively, minimum 16 ounce copper or 28 gauge stainless steel edging with a built-in cant may be used.
- B. When installing standard thickness slates (3/16" to 1/4" thick) the cant should be approximately 1/4" to 3/8". Thicker slates will require a thicker cant.

### **3.7 ROOF DECKING**

- A. The roof deck shall be a minimum of 3/4" thick wood. Solid, glue-free wood is recommended.
- B. Nailable concrete and gypsum concrete may also be suitable roof decking materials.

C. Minimum 3/4" glue-free slating lath or skip sheathing can be spaced on rafters as a nailing substrate.

D. Minimum 3/4" glue-free boards, slating lath or skip sheathing can be installed over glued or laminated roof decks to provide a suitable nailing substrate.

E. Surfaces to which the roof slates are to be applied shall be in a suitable condition or shall be repaired to a condition satisfactory for slating. All surfaces to be slated shall be swept clean of any debris.

## **PART 4 — SLATE EXECUTION**

### **4.1 FASTENERS**

A. All standard slates shall be fastened with minimum two roofing nails fastened above the head of the underlying slate and as far from the center of the slate as is practical.

B. Larger, heavier slates may need four nails per slate.

C. Screws shall not be used when fastening slates.

D. Slates overlapping sheet metal shall have the nails placed so as to not puncture the metal.

E. Exposed nail heads are not permissible except where unavoidable. Any exposed nail heads shall be sealed with gaskets or approved sealants. The application of slate dust to cover exposed sealants is recommended.

F. Nails shall not be driven in so far as to produce an excessive strain on the slates, and shall instead be driven to a depth such that the nail heads lie within the counter-sunk nail hole and do not rub excessively against the overlying slates.

G. Use of pneumatic or electric nail guns to install slate shingles shall not be permitted.

H. Slates shall not be bedded in roof mastic or other adhesives except where absolutely necessary such as at exposed edges in high-wind areas.

I. Ridges and hips shall be installed without exposed fasteners.

J. If a slating nail is installed in a crack or hole in the sheathing, it shall be renailed properly.

### **4.2 HEADLAP**

A. All standard field slates shall be installed with a minimum 3" head lap when the roof slope is 8:12 up to 20:12.

B. Less than an 8:12 slope down to 4:12, the slates shall be installed with a minimum 4" headlap.

- C. Installing roofing slates on slopes less than 4:12 is not recommended.
- D. On slopes 20:12 or greater, slates may be installed with a 2" headlap.
- E. Headlaps may be increased at ice-dam prone or poor drainage areas.

#### **4.3 EAVES SLATES, EDGE SLATES AND STARTER COURSES**

- A. Eave slates shall be laid to provide a minimum 1.5" projection beyond the furthest extent of the fascia, cornice, crown molding, metal drip edge, trim, or other construction material at the eaves.
- B. Rake edge (gable end) slates shall extend 1" beyond the furthest extent of the gable trim, fascia or edge.
- C. Slates at the eaves shall be doubled by first installing a slate starter or under-eave course installed back side up (chamfered side down). The first course of slate shall be laid over the starter course so that the drip edges of both courses align flush. The first course of slates shall break side-butt joints with the starter course side-butt joints by not less than 3". The second course of slates must overlap the starter course by a minimum of 3" and not less than the general headlap of the field slates along the eaves [see Figure 1].
- D. The starter course of slates is to be canted to allow the starter slates to be tilted to the same angle as the field slates.

#### **4.4 SLATE INSTALLATION**

- A. Slate shall be installed starting at the bottom or eaves and proceeding toward the ridge or top.
- B. All slates will be installed following chalk lines marking the top edge of each course of slates, whenever possible.
- C. When supplied on pallets, slates are not to be used from one pallet at a time, but are to be used from all pallets simultaneously in order to blend the various pallets uniformly on the roof.
- D. Slate side-butt joints shall be positioned as near the mid-point of the underlying slates as possible, and not less than 3" from the underlying side-butts. Each slate course shall break butt-joints laterally by a minimum of 3", if possible, with the underlying or overlying courses.
- E. When installed, slates shall be laid side-to-side with a maximum 1/8" gap between slates, on average, unless otherwise specified.
- F. Slate will be neatly fitted around any pipes, ventilators, and other roof penetrations.
- G. Slates are to be cut from the back side in order to preserve the chamfered edge on the front exposed surface. Use of grinders, saws, or other mechanical means to cut and trim roofing slates



shall not be permitted unless the slates maintain a chamfered appearance along the exposed sawn edges. At the apex of slated hips and ridges, and at the juncture of a closed valley, the chamfered edge may, as an option, be reversed to create a tighter fitting joint.

H. Slates along valleys shall be cut in neat and straight lines. Valley slates are to be cut on the back side of the slate to maintain a chamfered slate edge when along an open valley.

I. Contractor shall visually and manually inspect the slates when roof brackets are removed to make sure no slates were broken by the roof scaffolding. Upon completion, all slate shall be sound, unbroken, un-cracked, whole and clean, showing no exposed roof cement.

J. Individual slates that must be installed in the field of the roof after the installation is complete, such as where a roof bracket had been removed or where a repair has been made, shall be installed using stainless steel or copper slate hooks or the “nail and hidden bib” installation method where standard nailing is not possible. The top of bib flashings shall extend to the top of the head of the underlying slate.

K. Contractors shall keep the building weatherproof and make every reasonable attempt to complete the project on schedule. Work is to be scheduled when weather conditions allow the work to be performed according to manufacturer’s recommendations and in compliance with warranty requirements.

L. Temporary roof coverings, tarps, or other materials shall remain available onsite in the event that the work must be ceased suddenly due to weather conditions and the roof needs to be weathered in until such time as the work may be continued.

## **PART 6 — REFERENCE INFORMATION**

### **6.1 ASTM REFERENCES**

ASTM A167 — Type 304 Terne coated stainless steel, 0.015 inch (0.38 mm) thick stainless steel core material, coated with 0.092 lb/sq ft (450 g/sq m) Terne alloy on both sides

ASTM A666 — Type 304 stainless steel, soft annealed 2D finish (unless harder temper is required for forming or performance), 0.0156 inch (0.4 mm) thick

ASTM B101 — Specification for Lead-Coated Copper Sheet and Strip for Building Construction

ASTM B370 — Specification for Copper Sheet and Strip for Building Construction

ASTM B749 — Specification for Lead and Lead Alloy Strip, Sheet, and Plate Products

ASTM C406 — Specification for Roofing Slate

ASTM C920 — Specification for Elastomeric Joint Sealants

ASTM C1311 — Specification for Solvent Release Sealants

ASTM D312 — Specification for Asphalt Used in Roofing

ASTM D1079 — Standard Terminology Relating to Roofing, Waterproofing, and Bituminous Materials

ASTM D1970 — Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection

ASTM D2626 — Specification for Asphalt-Saturated and Coated Organic Felt Base Roofing Sheet

ASTM D2822 Specification for Asphalt Roof Cement, Asbestos-Containing

ASTM D3019 — Specification for Lap Cement Used with Asphalt Roll Roofing, Non Fibered, Asbestos, Fibered, and Non Asbestos Fibered

ASTM D4022 — Specification for Coal Tar Roof Cement, Asbestos Containing

ASTM D4586 — Specification for Asphalt Roof Cement, Asbestos-Free.

ASTM D4869 — Specification for Asphalt-Saturated Organic Felt Underlayment for Steep Slope Roofing.

ASTM F1667 — Specification Standard for Driven Fasteners

## **6.2 SLATE GRADES**

- A. ASTM C 406 Grade S1: Expected service life in excess of 75 years.
- B. ASTM C 406 Grade S2: Expected service life 40-75 years.
- C. ASTM C 406 Grade S3: Expected service life 20-40 years.

## **6.3 SLATE THICKNESSES, SIZES AND COLORS**

### A. Thicknesses

- 1. Standards; Nominal 3/16 inch (5 mm) to 1/4 inch (7 mm)
- 2. Quarters; Nominal 1/4 inch (7 mm) to 3/8 inch (10 mm)
- 3. Heavies; Nominal 3/8 inch (10 mm) to 1/2 inch (13 mm)
- 4. Extra Heavies; Nominal 1/2 inch (13 mm) to 3/4 inch (19 mm)

### B. Standard Slate Sizes

Town of Longmeadow – Community House  
Roof and Balustrade Replacement  
Hill Ref. No.: TOL-7-011

1. 24" L X 14" W (610 mm X 356mm)
2. 24" L X 12" W (610 mm X 305 mm)
3. 22" L X 12" W (559 mm X 305 mm)
4. 22" L X 11" W (559 mm X 279 mm)
5. 20" L X 14" W (508 mm X 356 mm)
6. 20" L X 12" W (508 mm X 305 mm)
7. 20" L X 11" W (508 mm X 279 mm)
8. 20" L X 10" W (508 mm X 254 mm)
9. 18" L X 14" W (457 mm X 356 mm)
10. 18" L X 12" W (457 mm X 305 mm)
11. 18" L X 11" W (457 mm X 279 mm)
12. 18" L X 10" W (457 mm X 254 mm)
13. 18" L X 9" W (457 mm X 229 mm)
14. 16" L X 14" W (406 mm X 356 mm)
15. 16" L X 12" W (406 mm X 305 mm)
16. 16" L X 11" W (406 mm X 279 mm)
17. 16" L X 10" W (406 mm X 254 mm)
18. 16" L X 9" W (406 mm X 229 mm)
19. 16" L X 8" W (406 mm X 203 mm)
20. 14" L X 10" W (356 mm X 254 mm)
21. 14" L X 9" W (356 mm X 229 mm)
22. 14" L X 8" W (356 mm X 203 mm)
23. 14" L X 7" W (356 mm X 178 mm)
24. 12" L X 10" W (305 mm X 254 mm)
25. 12" L X 9" W (305 mm X 229 mm)

Town of Longmeadow – Community House  
Roof and Balustrade Replacement  
Hill Ref. No.: TOL-7-011

26. 12" L X 8" W (305 mm X 203 mm)

27. 12" L X 7" W (305 mm X 178 mm)

28. 12" L X 6" W (305 mm X 152 mm)

C. North American Roofing Slate Colors

1. Unfading Black
2. Semi-Weathering Gray/Black
3. Unfading Gray
4. Semi-Weathering Gray
5. Unfading Purple
6. Semi-Weathering Purple
7. Unfading Mottled Green and Purple
8. Unfading Green
9. Semi-Weathering Green (Sea Green, Gray/Green)
10. Unfading Red

**6.4. SLATE EXPOSURES AND HEADLAPS**

When Using 3" and 4" Headlaps (showing number of slates per square)

Slate Size (in.)	Exposure (3" H.L.)	Slates/Square	Exp. (4" Headlap)	Slates/Square
6x10	3 1/2"	686	3"	800
7x10	3 1/2"	588	3"	686
8x10	3 1/2"	514	3"	600
6x12	4 1/2"	533	4"	600
7x12	4 1/2"	457	4"	515
8x12	4 1/2"	400	4"	450
9x12	4 1/2"	355	4"	400
10x12	4 1/2"	320	4"	360
7x14	5 1/2"	374	5"	412
8x14	5 1/2"	327	5"	360
9x14	5 1/2"	290	5"	320
10x14	5 1/2"	261	5"	288
12x14	5 1/2"	218	5"	240
8x16	6 1/2"	277	6"	300
9x16	6 1/2"	246	6"	256
10x16	6 1/2"	222	6"	230
12x16	6 1/2"	185	6"	192
9x18	7 1/2"	213	7"	221
10x18	7 1/2"	192	7"	199
11x18	7 1/2"	175	7"	187
12x18	7 1/2"	160	7"	171
10x20	8 1/2"	170	8"	180

Town of Longmeadow – Community House  
Roof and Balustrade Replacement  
Hill Ref. No.: TOL-7-011

11x20	8 1/2"	154	8"	164
12x20	8 1/2"	141	8"	150
14x20	8 1/2"	121	8"	129
11x22	9 1/2"	138	9"	146
12x22	9 1/2"	126	9"	134
14x22	9 1/2"	109	9"	115
12x24	10 1/2"	114	10"	120
14x24	10 1/2"	98	10"	103

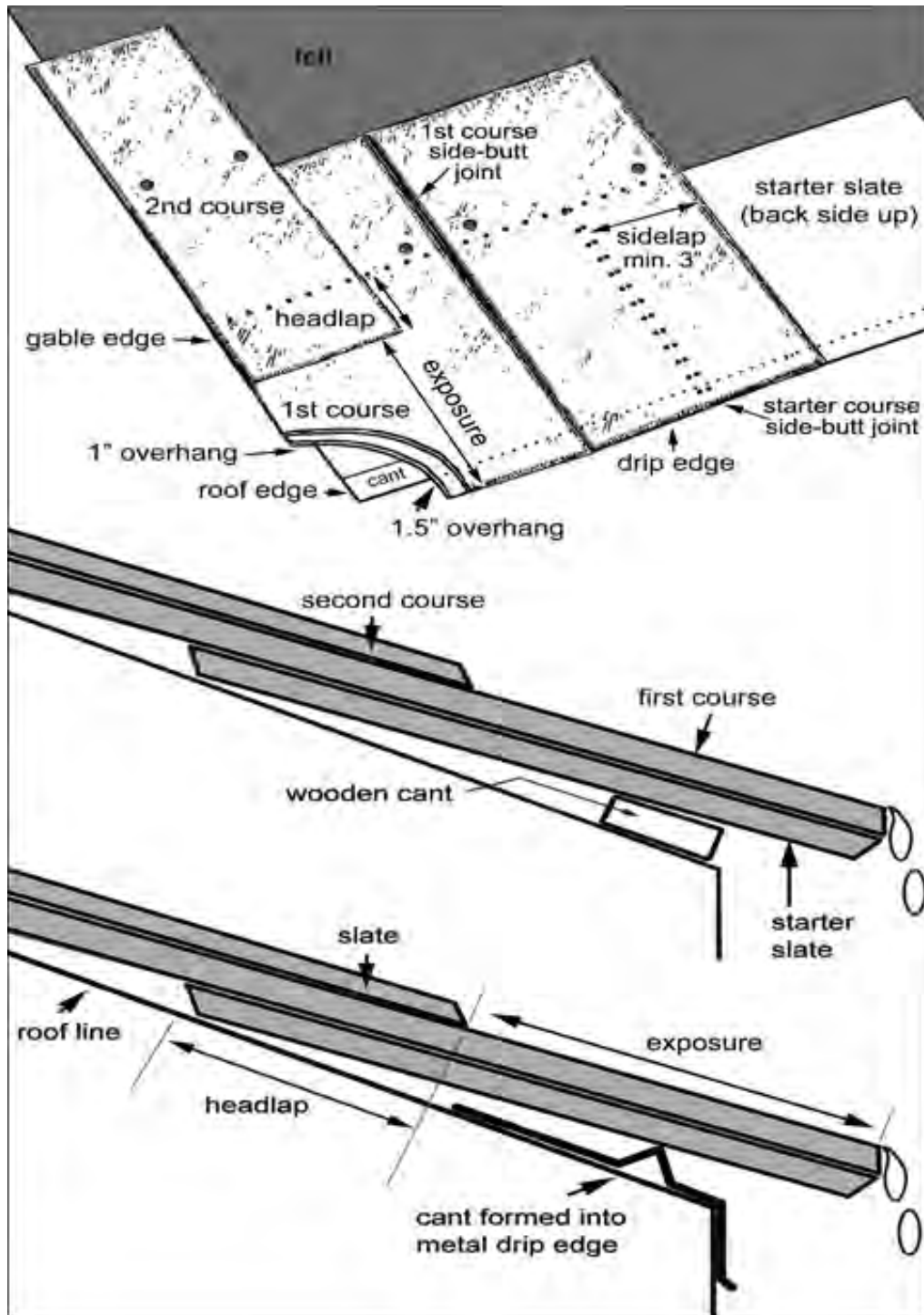


Fig. 1

END OF SECTION

SECTION 075403

SHEET MEMBRANE ROOFING - FULLY ADHERED

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Existing wood decking.
2. Insulation.
3. Base flashings.
4. Cant strips.
5. Sheet membrane roofing.
6. Counterflashings.

1.2 REFERENCE STANDARDS

A. ASTM International:

1. ASTM C177 - Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus.
2. ASTM C578 - Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.
3. ASTM C1289 - Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board.
4. ASTM C1371 - Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers.
5. ASTM C1549 - Standard Test Method for Determination of Solar Reflectance Near Ambient Temperature Using a Portable Solar Reflectometer.
6. ASTM D412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension.
7. ASTM D624 - Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers.
8. ASTM D746 - Standard Test Method for Brittleness Temperature of Plastics and Elastomers by Impact.
9. ASTM D822 - Standard Practice for Filtered Open-Flame Carbon-Arc Exposures of Paint and Related Coatings.
10. ASTM D1004 - Standard Test Method for Tear Resistance (Graves Tear) of Plastic Film and Sheeting.
11. ASTM D4434 - Standard Specification for Poly(Vinyl Chloride) Sheet Roofing.
12. ASTM D4637 - Standard Specification for EPDM Sheet Used in Single-Ply Roof Membrane.
13. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
14. ASTM E108 - Standard Test Methods for Fire Tests of Roof Coverings.



15. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials.
16. ASTM E408 - Standard Test Methods for Total Normal Emittance of Surfaces Using Inspection-Meter Techniques.
17. ASTM E903 - Standard Test Method for Solar Absorptance, Reflectance, and Transmittance of Materials Using Integrating Spheres.
18. ASTM E1918 - Standard Test Method for Measuring Solar Reflectance of Horizontal and Low-Sloped Surfaces in the Field.
19. ASTM E1980 - Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces.

B. FM Global:

1. FM DS 1-28 - Wind Design.
2. FM 4450 - Approval Standard for Class 1 Insulated Steel Deck Roofs.

C. Intertek Testing Services (Warnock Hersey Listed):

1. WH - Certification Listings.

D. National Roofing Contractors Association:

1. NRCA - The NRCA Roofing and Waterproofing Manual.

E. Single Ply Roofing Institute:

1. SPRI ES-1 - Wind Design Standard for Edge Systems Used with Low Slope Roofing Systems.

F. UL:

1. UL - Fire Resistance Directory.
2. UL 790 - Standard Test Methods for Fire Tests of Roof Coverings.
3. UL 1256 - Fire Test of Roof Deck Constructions.
4. UL 1897 - Uplift Tests for Roof Covering Systems.

1.3 COORDINATION

- A. Section 01 30 00 - Administrative Requirements: Requirements for coordination.

1.4 PREINSTALLATION MEETINGS

- A. Section 01 30 00 - Administrative Requirements: Requirements for preinstallation meeting.

1.5 SUBMITTALS

- A. Section 01 33 00 - Submittal Procedures: Requirements for submittals.

- B. Product Data: Submit characteristics of membrane materials, adhesives, seaming materials, flashing materials, and insulation.
- C. Shop Drawings:
  - 1. Indicate setting plan for tapered insulation, joint and termination detail conditions, and conditions of interface with other materials.
- D. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.
- E. Field Quality-Control Submittals: Indicate results of Contractor-furnished tests and inspections.
- F. Qualifications Statements:
  - 1. Submit qualifications for manufacturer and applicator.
  - 2. Submit manufacturer's approval of applicator.

#### 1.6 QUALITY ASSURANCE

- A. Perform Work according to NRCA Roofing and Waterproofing Manual and manufactures recommendations .
- B. Manufacturer's Inspection:
  - 1. Furnish manufacturer services before start of Work of this Section to verify substrate acceptability and review installation procedures and completed Work, such that specified warranty can be issued.
  - 2. Promptly and satisfactorily repair unsatisfactory conditions disclosed by manufacturer's Site visits.
- C. Perform Work according to manufacturer roofing systems standards.

#### 1.7 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing products specified in this Section with minimum five (5) years' documented experience.
- B. Applicator: Company specializing in performing Work of this Section with minimum five (5) years' documented experience and approved by manufacturer.

#### 1.8 DELIVERY, STORAGE, AND HANDLING

- A. Inspection: Accept materials on Site in manufacturer's original packaging and inspect for damage.
- B. Deliver products in manufacturer's original containers, dry, undamaged, and with seals and labels intact.

- C. Store products in weather protected environment, clear of ground and moisture.
- D. Protect foam insulation from direct exposure to sunlight.

## 1.9 WARRANTY

- A. Furnish 20-year manufacturer's warranty, including coverage of materials and installation resulting from failure to resist penetration of moisture.

## PART 2 - PRODUCTS

### 2.1 DESCRIPTION

- A. Sheet Membrane Roofing System: One-ply sheet membrane system with insulation, and adhesive-applied membrane.

### 2.2 PERFORMANCE AND DESIGN CRITERIA

- A. Low-Slope Membrane Roof Edge Securement: Conform to SPRI ES-1 for wind speeds determined by the Code.
- B. Roof Assembly Classification:
  - 1. FM Class 1 4475 construction, windstorm classification of 1-90.
  - 2. Comply with FM DS 1-28.
- C. Uplift Resistance:
  - 1. Uplift Pressure Resistance: 90 psf.
  - 2. Comply with UL 1897.

### 2.3 SINGLE PLY ROOFING - FULLY ADHERED

- A. Manufacturers:
  - 1. Firestone Roofing Systems (Basis of Design)
- B. Insulation:
  - 1. Polyisocyanurate:
    - a. Comply with ASTM C1289, Type II, Class 4.
    - b. Provide uncoated polymer-bonded glass-fiber mat faces on both major surfaces.
    - c. Board Thickness: to match existing thickness.
    - d. Board Edges: Square.

- C. Flexible Flashings:
  - 1. Material: EPDM.
  - 2. Color: Black.
  - 3. As manufactured by the system manufacturer.
  
- D. Membrane:
  - 1. Material:
    - a. EPDM Rubber, 60 mil: Comply with ASTM D4637, Type I.
  - 2. Reinforcement: Reinforced.
  - 3. Color: Black.
  
- E. Seaming Materials: As recommended by membrane manufacturer.
  
- F. Washer Disc: Membrane material with adhesive backing.
  
- G. Battens: As recommended by membrane manufacturer.
  
- H. Adhesive Materials:
  - 1. Surface Conditioner:
    - a. Compatible with membrane.
  - 2. Membrane Adhesives: As recommended by membrane manufacturer.
  - 3. Insulation Adhesive: As recommended by insulation manufacturer.
  - 4. Thinner and Cleaner:
    - a. As recommended by adhesive manufacturer.
    - b. Compatible with sheet membrane.
  
- I. Counterflashings: copper metal.

## 2.4 ACCESSORIES

- A. Fiber Cant and Tapered Edge Strips:
  - 1. Material: Asphalt-impregnated wood fiberboard.
  - 2. Configuration: Preformed to tapered edge strip.
  
- B. Insulation Joint Tape:
  - 1. Description: Asphalt treated, glass-fiber reinforced.
  - 2. Width: 6 inches.
  - 3. Self-adhering.
  
- C. Roofing Nails:

1. Type: Galvanized, hot dipped, or non-ferrous type.
  2. Size and Configuration: As required to suit application.
- D. Insulation Fasteners:
1. Appropriate for purpose intended.
  2. Length: As required for thickness of material plus metal washers.
- E. Sealants: As recommended by membrane manufacturer.
- F. Strip Reglet Devices:
1. Material: Galvanized steel.
  2. Maximum possible lengths per location.
  3. Furnish attachment flanges.
- G. Walkway Pads:
1. Size: 30X30 inch, where indicated on the Drawings.
- H. Stack Boots: Flexible boot and collar for pipe stacks through membrane.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Section 01 70 00 - Execution and Closeout Requirements: Requirements for application examination.
- B. Verify that surfaces and Site conditions are ready to receive Work.
- C. Verify that deck is supported and secure.
- D. Verify that deck is clean and smooth, free of depressions, waves, or projections, properly sloped to drains, valleys, or eaves, and suitable for installation of roof system.
- E. Verify that substrate is acceptable to membrane manufacturer.
- F. Verify that deck surfaces are dry and free of snow or ice.
- G. Verify that roof openings, curbs, pipes, sleeves, ducts, and vents are solidly set and that wood cant strips wood nailing strips and reglets are in place.

#### 3.2 PREPARATION

- A. Wood Deck:
  1. Verify that wood decking joints are flat and tight.
  2. Seal decking joints with tape.

3. Fill knot holes with latex filler.

### 3.3 APPLICATION

#### A. Insulation Application:

1. Apply adhesive to deck and embed insulation into adhesive with full contact.
2. Apply adhesive to top surface of insulation.
3. Embed second layer of insulation into adhesive, with joints staggered minimum 6 inches from joints of first layer.
4. Place constant thickness first layer and tapered thickness insulation second layer to required slope pattern.
5. Minimum Total Insulation Thickness: To match existing insulation thickness in every respect and provide positive drainage to gutter system using top layer of tapered insulation system.
6. Cut insulation to fit neatly to perimeter blocking and around penetrations through roof.
7. Cut boards to slope for distance of 24 inches back from roof drains for positive drainage.
8. Apply no more insulation than can be covered with membrane in same day.
9. Tape insulation joints.

#### B. Membrane Application:

1. Apply primer.
2. Install according to manufacturer's printed instructions.
3. Roll out membrane, free from air pockets, wrinkles, or tears, and firmly press sheet into place without stretching.
4. Bond sheet to substrate, except those areas directly over or within 3 inches of control or expansion joint.
5. Sealing:
  - a. Overlap edges and ends in accordance with manufacturers requirements.
6. Seal membrane around roof penetrations.

#### C. Flashings and Accessories:

1. Apply flexible flashings to seal membrane to vertical elements.
2. Secure to nailing strips at 4 inches o.c. and reglets.
3. Pads:
  - a. Install walkway pads as specified on roofing drawings.

#### D. Application Standards: Install Work according to firestone roofing systems standards.

### 3.4 FIELD QUALITY CONTROL

- #### A. Section 01 70 00 - Execution and Closeout Requirements: Requirements for testing, adjusting, and balancing.

- B. Require weekly site attendance of roofing manufacturer representative throughout the installation of Work of this Section.

### 3.5 CLEANING

- A. Section 01 70 00 - Execution of Closeout Requirements: Requirements for cleaning.
- B. Where finished surfaces are soiled by Work of this Section, consult surfaces manufacturer for cleaning advice and conform to manufacturer's documented instructions.
- C. Repair or replace defaced or disfigured finishes caused by Work of this Section.

### 3.6 PROTECTION

- A. Section 01 70 00 - Execution of Closeout Requirements: Requirements for protecting finished Work.
- B. Protect building surfaces against damage from roofing Work.
- C. Do not permit traffic over unprotected floor surfaces.

END OF SECTION

SECTION 077123

GUTTERS AND DOWNSPOUTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Gutters and downspouts.
2. Splash pans.
3. Downspouts.

B. Related Requirements:

1. Section 076100 - Sheet Metal Roofing: Gutters and downspouts.

1.2 REFERENCE STANDARDS

A. American Architectural Manufacturers Association:

1. AAMA 2603 - Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels.

B. ASTM International:

1. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
2. ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
3. ASTM B32 - Standard Specification for Solder Metal.
4. ASTM B370 - Standard Specification for Copper Sheet and Strip for Building Construction.

C. Copper Development Association Inc.:

1. CDA-A4050 - Copper in Architecture - Design Handbook.

D. National Roofing Contractors Association:

1. NRCA - The NRCA Roofing Manual.

E. Sheet Metal and Air Conditioning Contractors:

1. SMACNA - Architectural Sheet Metal Manual.



1.3 COORDINATION

- A. Section 01 30 00 - Administrative Requirements: Requirements for coordination.
- B. Coordinate Work of this Section with roof edge construction and downspout discharge pipe inlet.

1.4 SUBMITTALS

- A. Section 01 33 00 - Submittal Procedures: Requirements for submittals.
- B. Product Data: Submit manufacturer information regarding components, materials, and finishes.
- C. Shop Drawings: Indicate locations, configurations, jointing methods, fastening methods, locations, and installation details.
- D. Samples: Submit two (2) samples, 6 long, illustrating component design, finish, color, and configuration.
- E. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.
- F. Manufacturer Instructions: Submit detailed instructions on installation requirements, including storage and handling procedures.
- G. Qualifications Statement:
  - 1. Submit qualifications for manufacturer and installer.

1.5 QUALITY ASSURANCE

- A. Perform Work according to NRCA Roofing Manual and SMACNA Manual.

1.6 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing products specified in this Section with minimum (5) five years' documented experience.
- B. Installer: Company specializing in performing Work of this Section with minimum (3) three years' documented experience.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Section 01 60 00 - Product Requirements: Requirements for transporting, handling, storing, and protecting products.
- B. Inspection: Accept materials on Site in manufacturer's original packaging and inspect for damage.

C. Storage:

1. Store materials according to manufacturer instructions.
2. Prevent contact with materials capable of causing discoloration, staining, or damage.
3. Slope to drain.

D. Protection:

1. Protect materials from moisture and dust by storing in clean, dry location remote from construction operations areas.
2. Stack material to prevent twisting, bending, and abrasion, and to provide ventilation.
3. Provide additional protection according to manufacturer instructions.

## 1.8 EXISTING CONDITIONS

A. Field Measurements:

1. Verify field measurements prior to fabrication.
2. Indicate field measurements on Shop Drawings.

## 1.9 WARRANTY

- A. Section 01 70 00 - Execution and Closeout Requirements: Requirements for warranties.
- B. Furnish (20) twenty year warranty for gutter and downspout finishes.

## PART 2 - PRODUCTS

### 2.1 PERFORMANCE AND DESIGN CRITERIA

- A. Sizing: To match the existing in every respect. This is a historic structure and the existing appearance is required to be maintained.

### 2.2 GUTTERS AND DOWNSPOUTS

A. Manufacturers:

1. Manufactured or custom fabricated as required to match the existing components in every respect.

B. Description:

1. Gutters:
  - a. Material: Copper.
  - b. Profile: To match the existing and as indicated on Drawings.

2. Downspouts:
  - a. Material: Copper.
  - b. Profile: To match the existing and as indicated on Drawings.
3. Splash Pads:
  - a. Material: Precast concrete.
  - b. Minimum Compressive Strength: 3,000 psi at 28 days.
  - c. Minimum Air Entrainment: 5 percent.

## 2.3 MATERIALS

### A. Copper:

1. Comply with ASTM B370.
2. Type: Cold rolled.
3. Thickness: Match the existing.
4. Finish: Natural.

## 2.4 FABRICATION

### A. Forming of Sections:

1. Description:
  - a. Square and accurate in size.
  - b. Maximum possible lengths.
  - c. Free of distortion or defects detrimental to appearance or performance.
2. Shapes: As indicated on Drawings.
3. Allow for expansion at joints as required.

### B. Fabricate with required connection pieces.

### C. Hem exposed edges of metal.

### D. Soldering:

1. Tin edges of copper sheet to be soldered.
2. Solder shop-formed metal joints.
3. After soldering, remove flux, and wipe and wash solder joints clean.
4. Weather seal joints.

### E. Accessories: Solder watertight.

## 2.5 FINISHES

1. Natural.

## 2.6 ACCESSORIES

### A. Anchors and Supports:

1. Profile: To suit gutters and downspouts.
2. Anchoring Devices: Comply with CDA requirements or as recommended by manufacturer, whichever is more stringent.
3. Supports:
  - a. Gutters: Furnish bracket and straps.
  - b. Downspouts: Furnish brackets and straps.

### B. Fasteners: Copper, same material and finish as gutters and downspouts, with soft neoprene washers.

### C. Solder:

1. Comply with ASTM B32.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Section 01 70 00 - Execution and Closeout Requirements: Requirements for installation examination.
- B. Verify that surfaces are ready to receive gutters and downspouts.

### 3.2 PREPARATION

- A. Section 01 70 00 - Execution and Closeout Requirements: Requirements for installation preparation.
- B. Paint concealed metal surfaces and surfaces in contact with dissimilar metals using protective backing paint to minimum dry film thickness of 15 mils.

### 3.3 INSTALLATION

#### A. Soldering:

1. Solder metal joints for full metal-surface contact.
2. After soldering, wash metal clean with neutralizing solution and rinse with water.

- B. Connect downspouts to existing system or discharge to splash pad. Set splash pads under downspouts, and secure in place.

END OF SECTION

## **APPENDIX INDEX**

### **APPENDIX 1:**

Report by ATC Environmental Consultant

### **APPENDIX 2:**

Mandatory Pre-Bid Conference Registered attendees from the March 25, 2019 mandatory pre-bid conference

### **APPENDIX 3:**

Additional Clarifications Regarding Scope of Work, Question & Response, Etc.

## **APPENDIX 1:**

### **Report by ATC Environmental Consultant:**

(Note: The ATC report contains additional information not relevant to this bid. Reports regarding emergency fire escapes is not relevant to this project being bid.)

August 31, 2018

Mr. John Cloonan  
Facilities Director  
Town of Longmeadow  
Department of Public Works  
31 Pond Street  
Longmeadow, MA 01106

**Re: Community Building, 735 Longmeadow Street, Longmeadow MA  
Asbestos & Lead Paint Testing**

**Longmeadow Town Hall, Longmeadow, MA  
Lead Paint Testing**

Dear Mr. Cloonan:

Per your request, ATC Group Services LLC (ATC) performed a limited asbestos inspection of the EPDM Rubber Roof in front of the Community Building and lead paint testing of the fire escapes located at 735 Longmeadow Street, Longmeadow, MA. Lead paint testing was also performed on the fire escape at the Longmeadow Town Hall.

***ASBESTOS TESTING***

Mr. Edward Kolodziej conducted the asbestos roof inspection on August 24, 2018. Mr. Kolodziej is an accredited U.S. Environmental Protection Agency (EPA) and State of Massachusetts licensed asbestos inspector.

The following suspect asbestos-containing materials were sampled and analysis indicated **No Asbestos Detected** for all samples:

- Adhesive on Rubber Roof
- Paper on Insulation
- Adhesive on Rubber Roof - Flashing

All samples were analyzed via Polarized Light Microscopy (PLM). See attached lab analysis sheets for verification of results.

***LEAD-BASED PAINT (LBP) TESTING***

ATC performed limited lead paint testing of the fire escapes at the Community Building and the Longmeadow Town Hall. Outlined below is a description of ATC's testing methodology:

Pre-screening was performed utilizing an X-Ray Fluorescence Analyzer (XRF). All personnel who operate the portable XRF analyzer are trained by the manufacturer in safety measures and testing protocols. The instrument was calibrated prior to testing according to manufacturers and Massachusetts Department of Public Health (DPH) procedures. In accordance with the Occupational Safety and Health

Administration (OSHA) 29 CFR 1926.62 Regulations, an XRF can determine the presence of lead, however, not the absence of lead.

XRF measurements greater than or equal to one milligram per square centime ( $\geq 1.0 \text{ mg/cm}^2$ ) are considered to be covered with lead-based paint according to EPA and MA DPH definitions.

The following table summarizes the lead-based paint testing on the fire escapes.

<b>Lead Paint Testing Table Community Building &amp; Longmeadow Town Hall</b>			
<b>Building</b>	<b>Component</b>	<b>XRF Measurement</b>	<b>Comments</b>
Community Building	Fire Escape – Stringer	1.8	
Community Building	Fire Escape – Support	3.2	
Community Building	Fire Escape – Balustrade Trim	0.9	
Community Building	Fire Escape – Rail	1.4	
Community Building	Fire Escape – Plate	1.5	
Community Building	Fire Escape – Baseboard	1.1	
Community Building	Fire Escape (Small) – Stringer	2.5	
Community Building	Fire Escape (Small) – Baseboard	1.4	
Community Building	Fire Escape (Small) – Rail	2.9	
Community Building	Fire Escape (Small) – Balustrade Trim	1.3	
Community Building	Fire Escape (Small) – Plate, Front	0.4	
Community Building	Fire Escape (Small) – Plate, Rear	1.4	Underside
Town Hall	Fire Escape – Rail	1.2	
Town Hall	Fire Escape – Post	5.0	
Town Hall	Fire Escape – Baseboard	3.7	
Town Hall	Fire Escape – Stringer	2.7	
Town Hall	Fire Escape – Plate	0.2	
Town Hall	Fire Escape - Plate, Rear	2.8	Underside

***Conclusion & Recommendations***

Any suspect asbestos-containing material discovered during the course of renovation/demolition which is not included in this report shall be assumed to be asbestos-containing until further bulk sampling and analysis is performed.

All demolition work, which disturbs lead-containing materials, will be subject to OSHA 29 CFR 1926.62 “Lead in Construction Regulations”. Under OSHA, the employer is responsible for protection of their employees when performing renovation and/or demolition work which disturbs lead materials.



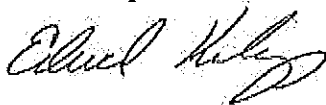
Compliance shall include written programs, medical monitoring, exposure assessment testing and engineering controls.

To comply with OSHA's Hazard Communication Standard, (29 CFR 1910.1200) workers shall be notified of the presence of lead or asbestos in building materials and trained on proper handling methods. This shall include, but not be limited to:

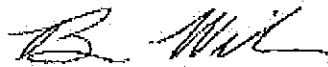
- wearing work clothes and gloves
- washing hands prior to eating
- not smoking or eating within the work area
- employing methods that minimize the generation of dust when disturbing materials to the extent practicable.

If you have questions or comments regarding the information in this report or if we can be of further assistance please do not hesitate to contact us at our West Springfield, MA Office at 413-781-0070.

Sincerely,  
ATC Group Services LLC

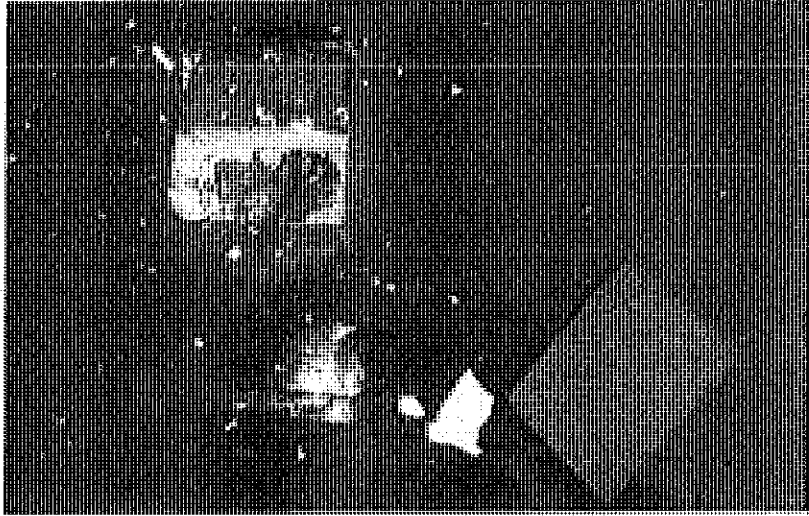


Edward Kolodziej  
Senior Project Manager  
MA Asbestos Inspector #AI073072

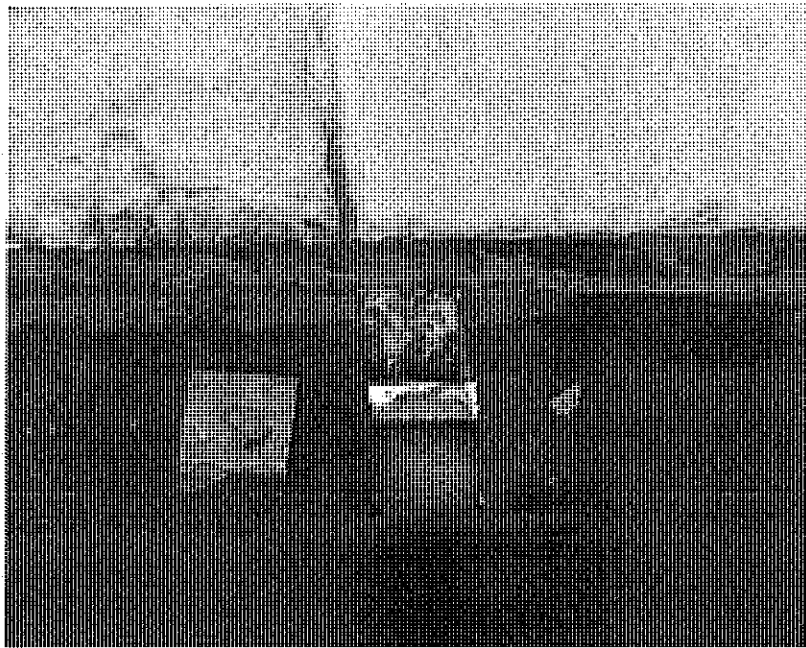


Brian Williams  
Branch Manager

***PHOTOGRAPHS***



**Figure 1- Community Bldg. Roof, Field**



**Figure 2- Community Bldg. Roof, Flashing**

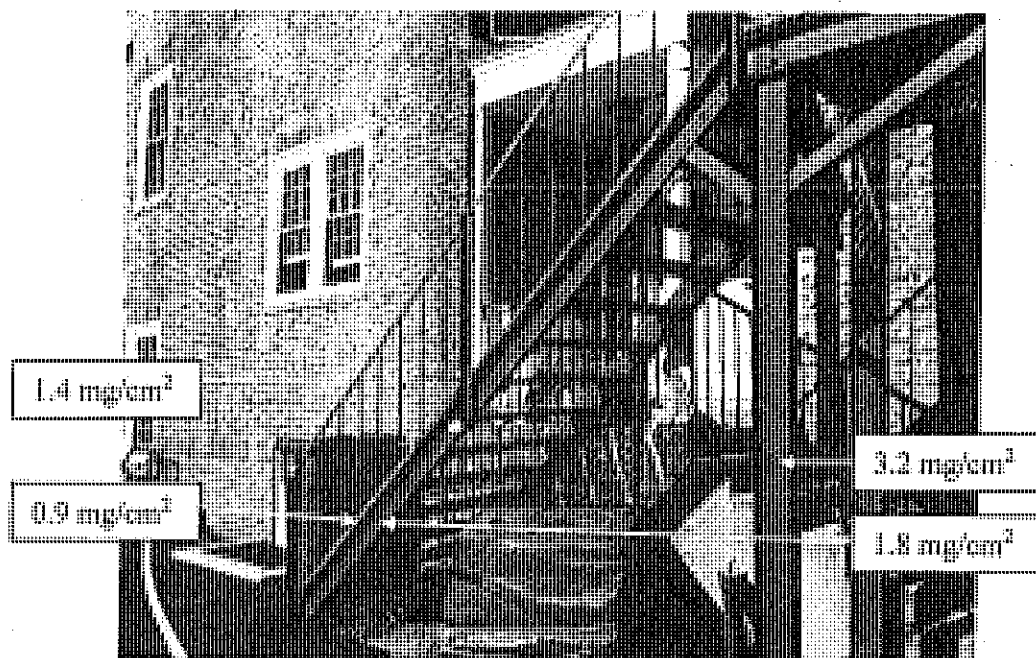


Figure 3 - Community Bldg. Fire Escape

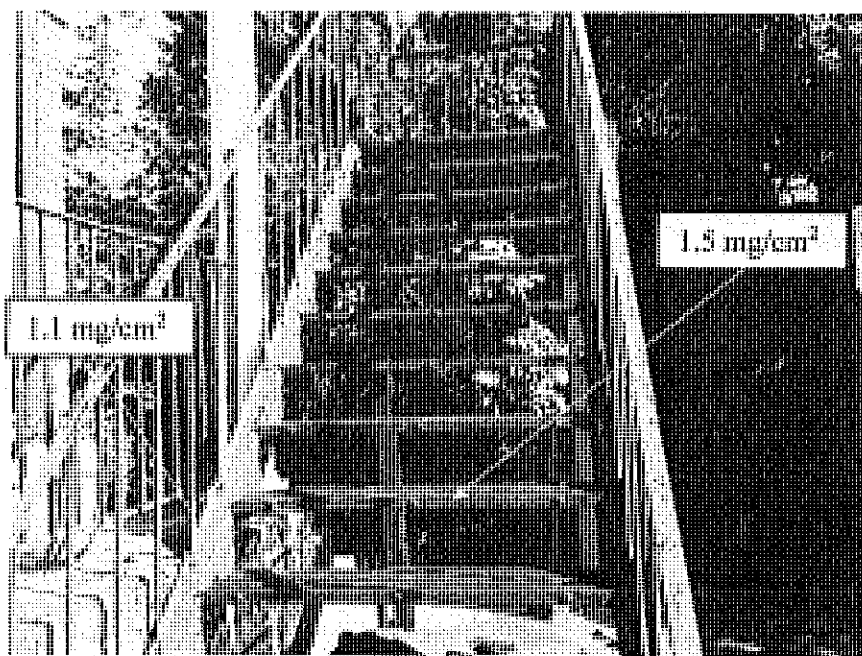


Figure 4 - Community Bldg. Fire Escape

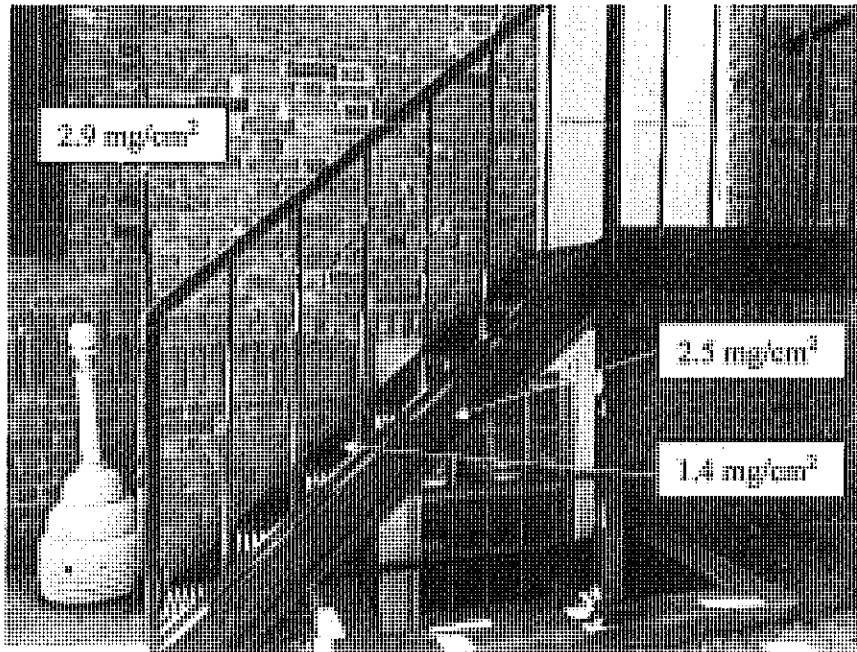


Figure 5 - Community Bldg. Small Fire Escape

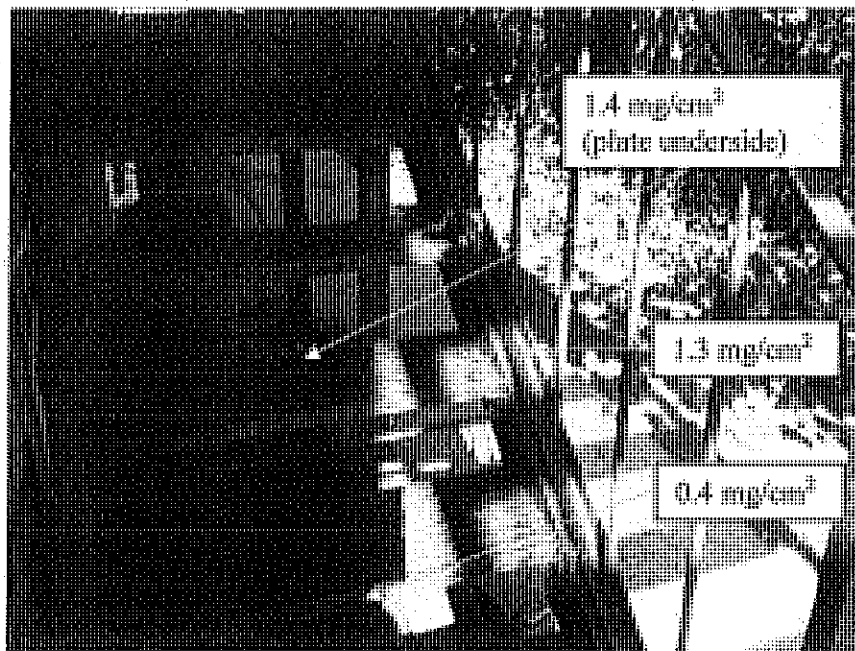


Figure 6 - Community Bldg. Small Fire Escape

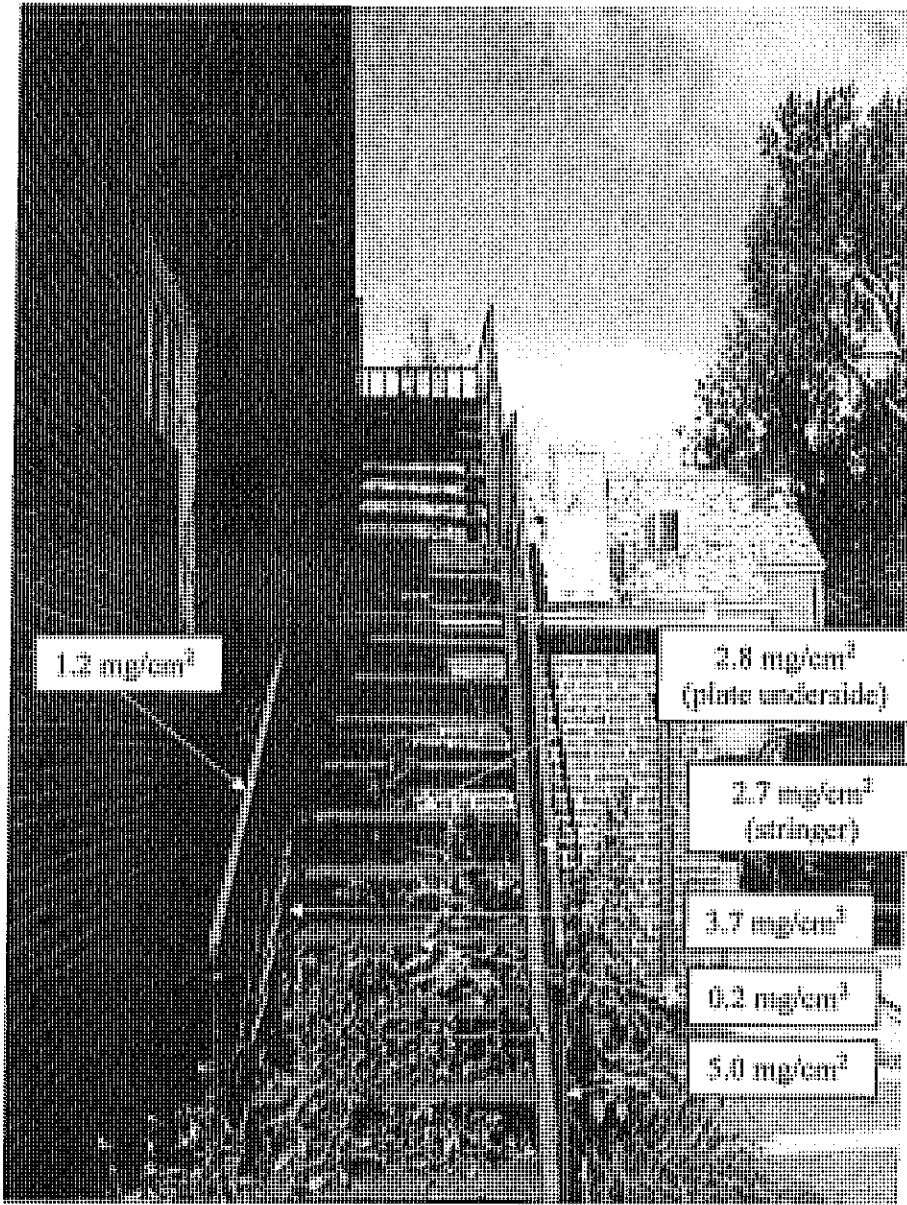


Figure 7 - Town Hall Fire Escape



# EMSL Analytical, Inc.

307 West 38th Street New York, NY 10018  
Tel/Fax: (212) 290-0051 / (212) 290-0058  
http://www.EMSL.com / manhattanlab@emsl.com

EMSL Order: 031823614  
Customer ID: ATC62  
Customer PO: 11-81-0030  
Project ID:

**Attention:** Edward Kolodziej  
ATC Group Services LLC  
73 William Franks Drive  
West Springfield, MA 01089  
**Phone:** (413) 426-6819  
**Fax:** (413) 781-3734  
**Received Date:** 08/27/2018 9:35 AM  
**Analysis Date:** 08/29/2018  
**Collected Date:** 08/24/2018  
**Project:** TOWN OF LONGMEADOW/ COMMUNITY BLDG., 735 LONGMEADOW STREET, LONGMEADOW, MA

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
CB-01A 031823614-0001	ROOF - ADHESIVE ON RUBBER ROOF	Black Fibrous Homogeneous	20% Cellulose 6% Glass	72% Non-fibrous (Other)	None Detected
CB-01B 031823614-0002	ROOF - ADHESIVE ON RUBBER ROOF	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
CB-02A 031823614-0003	ROOF - PAPER ON INSULATION/ ROOF DECK	Brown/Black Fibrous Homogeneous	45% Cellulose 10% Glass	45% Non-fibrous (Other)	None Detected
CB-02B 031823614-0004	ROOF - PAPER ON INSULATION/ ROOF DECK	Black Non-Fibrous Homogeneous	69% Cellulose 10% Glass	21% Non-fibrous (Other)	None Detected
CB-03A 031823614-0005	ROOF - ADHESIVE ON RUBBER ROOF-FLASHING	Black Non-Fibrous Homogeneous		25% Ca Carbonate 75% Non-fibrous (Other)	None Detected
CB-03B 031823614-0006	ROOF - ADHESIVE ON RUBBER ROOF-FLASHING	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Initial report from: 08/29/2018 18:50:15



**EMSL Analytical, Inc.**

307 West 38th Street New York, NY 10018  
Tel/Fax: (212) 290-0051 / (212) 290-0058  
http://www.EMSL.com / manhattanlab@emsl.com

EMSL Order: 031823614  
Customer ID: ATC62  
Customer PO: 11-81-0030  
Project ID:

**Attention:** Edward Kolodziej  
ATC Group Services LLC  
73 William Franks Drive  
West Springfield, MA 01089  
**Phone:** (413) 426-6819  
**Fax:** (413) 781-3734  
**Received Date:** 08/27/2018 9:35 AM  
**Analysis Date:** 08/29/2018  
**Collected Date:** 08/24/2018  
**Project:** TOWN OF LONGMEADOW/ COMMUNITY BLDG., 735 LONGMEADOW STREET, LONGMEADOW, MA

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk materials via EPA/600 (0513) Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

**Report Comments:**

Sample Receipt Date: 08/27/2018      Sample Receipt Time: 9:35 AM  
Analysis Completed Date: 08/29/2018      Analysis Completed Time: 4:56 PM

**Analyst(s):**

Johnny Calixto PLM (3)

Krystal Harris PLM (3)

**Samples Reviewed and approved by:**

James Hall, Laboratory Manager  
or other approved signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Initial report from: 08/29/2018 18:50:15





73 William Franks Drive  
West Springfield, MA, 01089  
Tel: 413-781-0070  
Fax: 413-781-3734

031823614  
Asbestos Bulk Sample Chain-of-Custody

Project Name: Town of Longmeadow Project Address: Community Bldg., 735 Longmeadow Street, Longmeadow, MA  
Project Number: \_\_\_\_\_ Project Manager: Edward Kolodziej

Sampled By: Edward Kolodziej Date: 8/22/2018 Results To: edward.kolodziej@atcassociates.com

Analysis Type: PLM Turnaround Time: 3 day Positive Stop:  Yes  No

Special Instructions or Comments:

Field ID	Sample Description	Location	Homogeneous Material
CB-01A	Adhesive on Rubber Roof	Roof	1
CB-01B	Adhesive on Rubber Roof	Roof	1
CB-02A	Paper on Insulation/Roof Deck	Roof	2
CB-02B	Paper on Insulation/Roof Deck	Roof	2
CB-03A	Adhesive on Rubber Roof - Flashing	Roof	3
CB-03B	Adhesive on Rubber Roof - Flashing	Roof	3

Relinquished By: [Signature] Date: 8/25/2018 Received By: Carlin Gomez Date: 8/27/18 9:35a  
Relinquished By: [Signature] Date: \_\_\_\_\_ Received By: \_\_\_\_\_ Date: \_\_\_\_\_

JCA 8/29/18

## **APPENDIX 2:**

### **Mandatory Pre-Bid Conference Registered attendees from the March 25, 2019 mandatory pre-bid conference:**

Those that registered on the sign in sheet at the March 25, 2019 original mandatory pre-bid conference for the same project are automatically registered for the re-bid mandatory conference and are not required to attend the re-bid mandatory pre-bid conference.

For other bidders not on the March 25, 2019 sign in sheet, A MANDATORY pre-bid conference for General Contract work will take place at 735 Longmeadow Street, Longmeadow, MA 01106. Gather at the front of the building on Tuesday, July 14, 2020 at 10:30AM for the mandatory conference. Bids received from those that have not had a representative register during the mandatory pre-bid conference will be rejected.



**MANDATORY PRE-BID CONFERENCE ATTENDANCE SIGN-IN SHEET**

**IFB: Community House Roof & Balustrade Replacement**

**MANDATORY PRE-BID CONFERENCE: Monday, March 25, 2019 at 1:30pm**

**Gather at Community House Auditorium, 735 Longmeadow St., Longmeadow, MA**

The individual picking up a bid/proposal packet is responsible for providing complete and legible information. Failure to provide complete and legible information may affect the successful delivery of any addenda that may be required to submit a successful bid/proposal.

COMPANY	COMPLETE ADDRESS	PHONE	E-MAIL ADDRESS (Preferred / fastest addenda method!)
 <p>Phone: 508-380-2359 Fax: 508-949-3939 email: jjswojciech@yahoo.com</p> <p><b>J.J.S.</b> <b>UNIVERSAL CONSTRUCTION COMPANY</b> ROOFING • WINDOWS • SIDING</p> <p>WOJCIECH M. SUDYKA 63 AIRPORT ROAD DUDLEY, MA 01571</p> <p>LICENSED &amp; INSURED FREE ESTIMATES</p>			
		<b>FAX</b>	<b>SIGNATURE:</b>
			<i>wojciech sudyka</i>
COMPANY	COMPLETE ADDRESS	PHONE	E-MAIL ADDRESS (Preferred / fastest addenda method!)
 <p><b>SILKTOWN ROOFING</b> MANCHESTER, CT</p> <p><b>PAUL ARCIERI</b> PROJECT MANAGER 860-647-0198 paularcieri@silktownroofing.com</p>			
		<b>FAX</b>	<b>SIGNATURE:</b>
			<i>Paul Arcieri</i>
COMPANY	COMPLETE ADDRESS	PHONE	E-MAIL ADDRESS (Preferred / fastest addenda method!)
 <p>Since 1960</p> <p><b>J.D. Rivet &amp; Co., Inc.</b> ROOFING • SHEETMETAL</p> <p>1635 PAGE BOULEVARD SPRINGFIELD, MA 01104 P.O. BOX 51068 INDIAN ORCHARD, MA 01151 TEL. (413) 543-5660 CELL. (413) 387-9800 FAX. (413) 543-3373 tluce@rivetroofing.com</p> <p><b>Tim Luce</b> PROJECT MANAGER WWW.RIVETROOFING.COM</p>			
		<b>FAX</b>	<b>SIGNATURE:</b>
			<i>Tim Luce</i>
COMPANY	COMPLETE ADDRESS	PHONE	E-MAIL ADDRESS (Preferred / fastest addenda method!)
 <p><b>Justin Gendron</b> Estimator</p> <p>23 College Street, Suite 8 South Hadley, MA 01075</p> <p>413-781-5651 office</p> <p>justin@larochelleconstruction.com larochelleconstruction.com</p>			
		<b>FAX</b>	<b>SIGNATURE:</b>
			<i>Justin Gendron</i>

**MANDATORY PRE-BID CONFERENCE ATTENDANCE SIGN-IN SHEET**

**IFB: Community House Roof & Balustrade Replacement**

**MANDATORY PRE-BID CONFERENCE: Monday, March 25, 2019 at 1:30pm**

**Gather at Community House Auditorium, 735 Longmeadow St., Longmeadow, MA**

*Neck & -  
Mans M.  
James R.*

The individual picking up a bid/proposal packet is responsible for providing complete and legible information. Failure to provide complete and legible information may affect the successful delivery of any addenda that may be required to submit a successful bid/proposal.

COMPANY	COMPLETE ADDRESS	PHONE	E-MAIL ADDRESS (Preferred / fastest addenda method!)
E5 Builders	45 Granite St Leominster MA 01453	978-788-4358	michaelb@E5builders.
NAME/CONTACT		FAX	SIGNATURE:
Michael Beardwin Roberto Silva			
COMPANY	COMPLETE ADDRESS	PHONE	E-MAIL ADDRESS (Preferred / fastest addenda method!)
Rockwell Roofing	44 Pond St Leominster MA	978 537-7825	Jennifer@ RockwellRoofing.com
NAME/CONTACT		FAX	SIGNATURE:
Kenny Heitz			
COMPANY	COMPLETE ADDRESS	PHONE	E-MAIL ADDRESS (Preferred / fastest addenda method!)
FLUWINGASSO	515 Converse Longmeadow	413567 9544	tom@flwingrcc. com
NAME/CONTACT		FAX	SIGNATURE:
Tom Flwing			
COMPANY	COMPLETE ADDRESS	PHONE	E-MAIL ADDRESS (Preferred / fastest addenda method!)
NAME/CONTACT		FAX	SIGNATURE:

## **APPENDIX 3:**

### **Additional Clarifications Regarding Scope of Work, Question & Response, Etc.:**

#### **1. Material Testing of sloping mastic at slate roof adjacent to the dormers:**

No testing of the sloping mastic has been performed at the slate roof adjacent to the dormers. Bidders are to assume that this is asbestos containing based on the age of the structure and thickness of the material in-place.

#### **2. Photos of Roof Cores:**

Photos of roof cores are provided on the following pages.

#### **3. Question and Response:**

**QUESTION:** What is the existing roof assembly

**RESPONSE:** See photos.

**QUESTION:** What is the insulation thickness of the new roof assembly.

**RESPONSE:** See existing and photos. The existing finish elevation must be maintained.

**QUESTION:** I would like to bid using Genflex, but if it will not be allowed, I want to know ahead of the time?

**RESPONSE:** The Town takes no exception to the proposed GenFlex Roofing System product.

**QUESTION:** I noticed that it mentions "rigid foam" as well as the cellulose in the summary section of the project manual. I do not see any specification for this rigid foam. Can you please point out where the thickness and type of rigid foam insulation is specified?

**RESPONSE:** See Addendum No.1 for the response.

**QUESTION:** Is there attic access to the area that is to receive the 7" blown in cellulose? If not, are we to cut holes in the roof deck to insulate? Or should we plan on cutting into the interior ceiling to insulate? Is there any existing insulation? If so, when what is it and how much is there?

**RESPONSE:** There is no known 'attic' space. It is not known if insulation is present. It is assumed that there is no insulation present. Contractor to see Note 5, Roof Plan 1/A-102 for access to cavity which states: Provide baffles as required for blown in insulation. Remove/replace roof sheathing as required for thorough insulation of the blown in insulation



2

