

TOWN OF GLASTONBURY

INVITATION TO BID

<u>BID #</u>	<u>ITEM</u>	<u>DATE &amp; TIME REQUIRED</u>
GL-2020-02	Barn Roof Replacement	August 22, 2019 @ 11:00 a.m.

The Town of Glastonbury is seeking bids for Barn Roof Replacement on multiple barns located at 222 Old Maids Lane, Glastonbury, CT 06033.

**A non-mandatory pre-bid meeting and site walk through will be held at the Barns located at 222 Old Maids Lane adjacent to the Nayaug Elementary School, Glastonbury, CT 06033 on August 13, 2019 at 9:00 a.m. Bidders are encouraged to attend.**

Bid Forms, Plans and Specifications may be obtained from the Town's website at [www.glastonbury-ct.gov](http://www.glastonbury-ct.gov) at no cost. Bids will be received only at the Office of the Purchasing Agent, Town Hall (second level), 2155 Main Street, Glastonbury, CT 06033, Attention: Mary F. Visone, Purchasing Agent, at which time they will be publicly opened and read aloud. **No late bids will be accepted.**

Prevailing Wages: The contractor must comply with Section 31-53 of the Connecticut General Statutes as amended, including annual adjustments in prevailing wages.

Bid Security shall be issued payable to the "Town of Glastonbury" in the form of a certified check or Bid Bond in an amount not less than 10% of the total amount of the base bid. The Bid Bond must be issued by a surety company licensed in the State of Connecticut. Cashier's checks will not be accepted.

The Town reserves the right to waive informalities or reject any part of, or the entire bid, when said action is deemed to be in the best interest of the Town.

The Town of Glastonbury is an Affirmative Action/Equal Opportunity Employer. Minority/Women/Disadvantaged Business Enterprises are encouraged to bid.

Mary F. Visone  
Purchasing Agent

**TOWN OF GLASTONBURY  
BARN ROOF REPLACEMENT  
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**BID #GL-2020-02**

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**TOWN OF GLASTONBURY  
BARN ROOF REPLACEMENT  
GENERAL CONSTRUCTION SPECIFICATIONS**

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1. Sealed bids (**one original and one copy**) on the attached Bid Forms will be received at the Office of the Purchasing Agent, Town Hall, 2155 Main Street, Glastonbury, Connecticut, 06033 (second level). At the designated time of opening, they will be publicly opened, read, recorded and placed on file.
2. Whenever it is deemed to be in the best interest of the Town, the Town Manager, Purchasing Agent or designated representative shall waive informalities in any and all bids. The right is reserved to reject any bid, or any part of any bid, when such action is deemed to be in the best interest of the Town of Glastonbury.
3. Bidders shall submit a bid on a lump sum basis for the options specified in the Base Bid and any alternates. The basis of award will be based upon the sum of the Base Bid line items plus any alternates selected by the Owner of the lowest qualified, responsible and responsive bidder. Bidders shall submit bids based on the following options on the Bid Proposal form:

**Option #A:** Architectural Asphalt Shingles

**Option #B:** Metal Roof Panels

Bidders may bid on either option or both options on the bid proposal form if qualified. The Town reserves the right to award either Option #A or Option #B as deemed in the Town's best interest.

4. Bids will be carefully evaluated as to conformance with stated specifications.
5. The envelope enclosing your bid should be clearly marked by your company name and address, bid number, time of bid opening, and date.
6. Specifications must be submitted complete in every detail and, when requested, samples shall be provided. If a bid involves any exception from stated specifications, they must be clearly noted as exceptions, underlined, and attached to the bid.
7. The Bid Documents contain the provisions required for the requested item. Information obtained from an officer, agent, or employee of the Town or any other person shall not affect the risks or obligations assumed by the Bidder or relieve him/her from fulfilling any of the conditions of the bid.
8. Each Bidder is held responsible for the examination and/or to have acquainted themselves with any conditions at the job site which would affect their work before submitting a bid. Failure to meet these criteria shall not relieve the Bidder of the responsibility of completing the bid without extra cost to the Town of Glastonbury.
9. Any bid may be withdrawn prior to the above-scheduled time for the opening of bids or authorized postponement thereof. Any bid received after the time and the date specified shall not be considered. No bidder may withdraw a bid within sixty (60) days after the actual date of the opening thereof. Should there be reasons why a bid cannot be awarded within the specified period, the time may be extended by mutual agreement between the Town and the Bidder.
10. Each bid must be accompanied by a bid bond payable to the Town for ten percent (10%) of the total amount of the bid. The bid bond of the successful bidder will be retained until the payment bond and performance bond have been executed and approved. A certified check may be used in lieu of a

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bid bond. The Town of Glastonbury will not be liable for the accrual of any interest on any certified check submitted. Cashier's checks will not be accepted.

11. A 100% Performance bond and a 100% Payment bond are required of the successful bidder. The bonds shall cover all aspects of the specification and shall be delivered to the Purchasing Agent prior to the issuance of a purchase order. The Performance and Payment Bonds will be returned upon the delivery and acceptance of the bid items.
12. The Bidder agrees and warrants that in the submission of this sealed Bid, they will not discriminate or permit discrimination against any person or group of persons on the grounds of race, color, religion, national origin, sex, or physical disability including, but not limited to blindness, unless it is shown by such Bidder that such disability prevents performance of that which must be done to successfully fulfill the terms of this sealed Bid or in any manner which is prohibited by the laws of the United States or the State of Connecticut: and further agrees to provide the Human Relations Commission with such information requested by the Commission concerning the employment practices and procedures of the Bidder. An Affirmative Action Statement will be required by the successful Bidder.
13. Bidder agrees to comply with all of the latest Federal and State Safety Standards and Regulations and certifies that all work required in this bid will conform to and comply with said standards and regulations. Bidder further agrees to indemnify and hold harmless the Town for all damages assessed against the Town as a result of Bidder's failure to comply with said standards and/or regulations.
14. All correspondence regarding any purchase made by the Town of Glastonbury shall reference the Town purchase order number. Each shipping container shall clearly indicate both purchase order number and item number.
15. Bidder is required to review the Town of Glastonbury Code of Ethics adopted July 8, 2003 and effective August 1, 2003 and revised October 29, 2013 and effective November 8, 2013. Bidder shall acknowledge that they have reviewed the document in the area provided on the bid / proposal response page (BP). The selected Bidder will also be required to complete and sign an Acknowledgement Form prior to award. The Code of Ethics and the Acknowledgement Form can be accessed at the Town of Glastonbury website at [www.glastonbury-ct.gov](http://www.glastonbury-ct.gov). Upon entering the website click on **Bids & Proposals Icon**, which will bring you to the links for the **Code of Ethics** and the **Consultant Acknowledgement Form**. If the Bidder does not have access to the internet a copy of these documents can be obtained through the Purchasing Department at the address listed within this bid / proposal.
16. Any bidder, in order to be considered, shall be engaged primarily in the business of construction with for minimum of five (5) years, prior experience with **roof replacement** and have a valid contractor's license in the State of Connecticut.
17. **Non-Resident Contractors (IF APPLICABLE):Resident Contractors:**

Upon award the Town is required to report names of nonresident (out of state) Contractors to the State of Connecticut, Department of Revenue Services (DRS) to ensure that Employment Taxes and other applicable taxes are being paid by Contractors. **A single surety bond for 5% of the entire contract price is required to be filed with DRS by any unverified nonresident prime or general**

**contractor (if awarded) where the contract price for the project is \$250,000 or more.** The contractor will be required to promptly furnish to the Town a copy of the **Form AU-968 - Certificate of Compliance** issued by the State of Connecticut, DRS. See State of Connecticut **Notice SN 2012 (2)**.

18. Bidder shall include on a sheet(s) attached to its proposal a complete disclosure of all past and pending mediation, arbitration and litigation cases that the bidder or its principals (regardless of their place of employment) have been involved in for the most recent five years. Please include a statement of the issues in dispute and their resolution. Acceptability of Bidder based upon this disclosure shall lie solely with the Town.
19. Bidder or its principals, regardless of their place of employment, shall not have been convicted of, nor entered any plea of guilty, or nolo contendere, or otherwise have been found civilly liable or criminally responsible for any criminal offense or civil action. Bidder shall not be in violation of any State or local ethics standards or other offenses arising out of the submission of bids or proposals, or performance of work on public works projects or contracts.
20. After award of Contract, Owner will require the Contractor's Schedule of Values, which shall be submitted at the preconstruction meeting. The Schedule of Values must accurately reflect job costs and include a complete breakdown of material and labor costs.
21. Prevailing Wage Rates:

Bidders shall comply with State Statutes concerning Employment and Labor Practices, if applicable, and Section 31-53 of the Connecticut General Statutes, as amended (Prevailing Wages). Wage Rate Determination for this project from the State of Connecticut is included in the Bid Documents. Certified payrolls for site labor shall be submitted weekly to the Town's Representative or his designee on the correct State of Connecticut form. The Town reserves the right to, without prior notice, audit payroll checks given to workers on site in order to ascertain that wages and fringe benefits are being paid as required by the State of Connecticut. Please make special note of the State requirement to adjust wage and fringe benefit rates on each July 1<sup>st</sup> following the original published rates.

NOTE that bidder is to include in its bid proposal all costs required by such annual increases in the PREVAILING RATES. No Escalation Clauses are to be included in the bidder's proposal and no Escalation Clauses will be in the Contract Agreement. Bidder is to anticipate any future increases and include these costs in its quotation.

Contractor's invoices will not be paid if certified payrolls are incomplete, incorrect or not received in a timely manner.

All Apprentices must be registered with the State of Connecticut and their number shall not exceed the number allowed by law. Otherwise, all workers must be paid at least the Journeyman rate listed including benefits.

OSHA SAFETY AND HEALTH CERTIFICATION: Effective July 1, 2009: Any Mechanic, Laborer, or Worker, who performs work in a classification listed on the prevailing wage rate schedule on any public works project covered under C.G.S. Section 31-53, both on site and on or in

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the public building, must have completed a federal OSHA Safety and Health course within the last 5 years.

22. Each Bidder shall submit a list of similar projects completed within the last three years. In order to be eligible for consideration, the Bidder must have successfully completed a minimum of five (5) similar projects within the last three (3) years. Please provide project name and contact information for project coordinator (name, title, address, phone number). Please also provide contract value.
23. Compliance with Town Ordinance Prohibiting Natural Gas Waste & Oil Waste From Natural Gas Extraction Activities or Oil Extraction Activities: If this bid is for the construction, repair or maintenance of Town owned and/or maintained roads or real property within the Town related to either (a) the purchase or acquisition of materials by the Town to be used to construct, repair or maintain any Town owned and/or maintained road or real property within the Town or (b) the performance of services for the Town to construct, repair or maintain any Town owned and/or maintained road or real property within the Town, the Bidder shall provide the following signed statement to the Town in its bid response, which shall be a certification under penalty of perjury by the Bidder:

“The undersigned Bidder, \_\_\_\_\_, hereby submits a bid for materials, equipment and/or services for the Town of Glastonbury. The bid is for bid documents titled **Barn Roof Replacement**.

The undersigned Bidder hereby certifies under penalty of perjury that in connection with the bid and, if it is awarded the purchase order or contract by the Town, in connection with any purchase order or contract: (1) no materials containing natural gas waste or oil waste from natural gas extraction activities or oil extraction activities shall be provided to the Town or shall be used in providing any services to the Town by the undersigned Bidder or any contractor, sub-contractor or agent of the undersigned Bidder; (b) nor will the undersigned Bidder or any contractor, subcontractor or agent of the undersigned Bidder apply any natural gas waste or oil waste from natural gas extraction activities or oil extraction activities to any publicly owned and/or maintained road or real property within the Town of Glastonbury in performing its obligations under the purchase order or contract. The undersigned Bidder hereby agrees and acknowledges that this requirement shall be a term of the purchase order or contract, if it awarded the purchase order or contract by the Town, and any breach of this provision shall be a breach of the purchase order or contract.”

24. For technical questions regarding this Bid, please contact David Sacchitella, Building Superintendent, at (860) 652-7706, email [dave.sacchitella@glastonbury-ct.gov](mailto:dave.sacchitella@glastonbury-ct.gov). For administrative questions regarding this Bid, please contact Mary F. Visone, Purchasing Agent at (860) 652-7588, email [purchasing@glastonbury-ct.gov](mailto:purchasing@glastonbury-ct.gov). The request must be received at least five (5) business days prior to the advertised response deadline. All questions, answers, and/or addenda, as applicable, will be posted on the Town’s website at [www.glastonbury-ct.gov](http://www.glastonbury-ct.gov) (Upon entering the website click on Bids & Proposals Icon; click the Bid Title to view all bid details and document links). It is the respondent’s responsibility to check the website for addenda prior to submission of any proposal.

**IMPORTANT:**

- Failure to comply with general rules may result in disqualification of the Bidder.
- Municipal projects are exempt from Federal Excise Taxes, as well as, State of Connecticut Sales, Use and Service Taxes and should not be include in the Bidder’s proposal.

**01.00 WORKMANSHIP, MATERIALS AND EMPLOYEES**

- 01.01 Wherever in this contract the word “Engineer” is used, it shall be understood as referring to the Building Superintendent of the Town of Glastonbury acting personally or through any assistants duly authorized.
- 01.02 The entire work described herein shall be completed in accordance with the plans and specifications to the full intent and meaning of the same. Unless otherwise specified, all materials incorporated in the permanent work shall be new, and both workmanship and material shall be of good quality. The Contractor shall, if required, furnish satisfactory evidence as to the kind and quality of materials.
- 01.03 The wording “furnish”, “install”, “construct”, “furnish and install”, or any similar terms, unless specifically noted to the contrary, shall include all labor, materials, water, tools, equipment, light, power, transportation, and any other services required for the completion of the work.
- 01.04 The Contractor shall at all times enforce strict discipline and good order among his employees, and shall seek to avoid employing on the work any unfit person or anyone not skilled in the work assigned to him.

**02.00 SUPERINTENDENT**

- 02.01 The Contractor shall keep on the work during its progress, in the absence of the Contractor, a competent Superintendent. The Superintendent shall be acceptable to the Engineer and shall fully represent the Contractor. All directions given to the Superintendent shall be binding as if given to the Contractor.

**03.00 PRECONSTRUCTION MEETING**

- 03.01 A Preconstruction Meeting will be held with the Engineer, Contractor, and any other interested parties prior to commencing any work. The Engineer shall arrange the meeting based on a mutually convenient time.

**04.00 PERMITS**

- 04.01 All permits, licenses, and fees required for the performance of the Contract work shall be secured and paid for by the Contractor. The local building permit fees will be waived.

**05.00 PROPERTY ACCESS**

- 05.01 The Contractor shall take all proper precautions to protect from injury or unnecessary interference, and provide proper means of access to abutting property where the existing access is cut off by the Contractor.
- 05.02 The Contractor shall take all proper precautions to protect persons from injury or unnecessary inconvenience and leave an unobstructed way along the public and private places for travelers, vehicles, and access to hydrants.

05.03 The Contractor shall make arrangements with the adjacent property owners for such trespass as he may reasonably anticipate in the performance of the work. All such arrangements shall be reported, in writing, to the Engineer.

**06.00 PROTECTION OF THE PUBLIC AND OF WORK AND PROPERTY**

06.01 The Contractor shall continuously maintain adequate protection of all work from damage, and shall take all reasonable precautions to protect the Town from injury or loss arising in connection with the Contract.

06.02 The Contractor shall adequately protect adjacent private and public property as provided by law and the Contract Documents.

06.03 The Contractor shall make good any damage, injury, or loss of work and to the property of the Town resulting from lack of reasonable protective precautions.

06.04 The building involved will be occupied during the work and fully operational. The Contractor may be required to adjust his work schedule should the work have an adverse impact on operations. There will be no modification of the bid price should a schedule adjustment be required.

**07.00 EXISTING IMPROVEMENTS**

07.01 The Contractor shall conduct his work so as to minimize damage to existing improvements designated to remain. Except where specifically stated otherwise in the specifications, drawings, or as directed by the Engineer, it will be the responsibility of the Contractor to restore to their original condition, as near as practical, all improvements on public or private property. This shall include:

- a. Property within and adjacent to the work area such as shrubs, walks, driveways, fences, etc.
- b. Utility mains, ducts, poles, and services. The Contractor is hereby notified that utilities, if/where shown on the plans, are at approximate locations. These locations are subject to possible errors in the source of information and errors in transcription. The Contractor shall make certain of the exact location of all mains, ducts, poles, and services prior to excavation.

**08.00 SEPARATE CONTRACTS**

08.01 The Engineer reserves the right to let other contracts in connection with this work. The Contractor shall afford other contractors reasonable opportunity for the introduction and storage of their materials and the execution of their work, and shall properly connect and coordinate his work with theirs. Wherever work being done by the Town of Glastonbury forces or by other contractors is contiguous to work covered by this Contract, the respective rights of the various interests involved shall be established by the Engineer to secure the completion of the various portions of the work.

**09.00 INSPECTION OF WORK**

09.01 The Town shall provide sufficient personnel for the inspection of the work.



09.02 The Engineer shall at all times have access to the work whenever it is in preparation or progress, and the Contractor shall provide proper facilities for such access and for inspection.

09.03 If the specifications or the Engineer's instructions require any work to be specially tested or approved, the Contractor shall give the Engineer timely notice of its readiness for inspection and, if the inspection is by another authority other than the Engineer, of the date fixed for such inspection. Inspections by the Engineer shall be made promptly. If any work should be covered up without approval or consent of the Engineer, it must, if required by the Engineer, be uncovered for examination and properly restored at the Contractor's expense.

09.04 Re-inspection of any work may be ordered by the Engineer. If such work is found to be in accordance with the Contract Documents, the Town shall pay the cost of re-inspection and replacement. If such work is not in accordance with the Contract Documents, the Contractor shall pay such cost.

**10.00 RIGHT TO INCREASE OR DECREASE WORK**

10.01 The Town shall have the right to increase or decrease the amount of work herein specified as may be required.

**11.00 RIGHT OF ENGINEER TO STOP WORK FOR WEATHER CONDITIONS**

11.01 Should the work, in the opinion of the Engineer, be in danger by reason of inclemency of weather, or could not be finished in time to prevent such danger, the Contractor shall cease operations upon order of the Engineer, and shall not resume them until ordered to do so by the Engineer when the weather conditions are favorable. The Contractor shall, upon such orders, discontinue work, remove all materials or appliances for or in use upon the work, and place the premises in proper condition for use by the public during the time the work is suspended as herein provided, without cost to the Town.

**12.00 CONTRACTOR TO BE RESPONSIBLE FOR IMPERFECT WORK OR MATERIALS**

12.01 Any faithful work or imperfect material that may be discovered before the acceptance and the payment of the work shall be corrected upon the order of the Engineer. The acceptance and payment of the work does not in any manner relieve the Contractor of his obligation to construct work in the proper manner and the use of materials herein specified.

**13.00 TOWN MAY NOTIFY CONTRACTOR IF WORK IS NOT CARRIED ON SATISFACTORILY**

13.01 If, in the opinion of the Engineer, the Contractor is not proceeding with the work at a sufficient rate of progress so as to finish in the time specified, or has abandoned said work, or is not complying with the terms and stipulations or the Contract and specifications, the Engineer may serve notice on the Contractor to adopt such methods as will ensure the completion of the work in the time specified.

13.02 If, within five days after the Engineer has notified the Contractor that his work is not being carried on satisfactorily as before mentioned, the Engineer shall have the right to annul the

Contract and manage the work under the direction of the Engineer, or re-let, for the very best interest of the Town as a new contract, the work under said new Contract shall be considered the responsibility of the defaulting Contractor.

- 13.03 Additional costs incurred over and above the original Contract shall be borne by the Performance Bond.

**14.00 DEDUCTIONS FOR UNCORRECTED WORK**

- 14.01 If the Engineer deems it inexpedient to correct work that has been damaged or that was not done in accordance with the Contract, an equitable deduction from the Contract price shall be made there for.

- 14.02 The Contractor shall promptly remove from the premises all materials condemned by the Engineer as failing to meet Contract requirements, whether incorporated in the work or not, and the Contractor shall promptly replace and re-execute his own work in accordance with the Contract and without expense to the Town, and shall bear the expense of making good all work by other contractors destroyed or damaged by such removal or replacement.

- 14.03 If the Contractor does not remove such condemned work and materials as promptly as possible after written notice, the Engineer may remove them and store the materials at the expense of the Contractor.

**15.00 CLEANING UP**

- 15.01 The Contractor must remove all debris of every description as the work progresses and leave the surroundings in a neat and orderly condition to the satisfaction of the Engineer.

- 15.02 Upon completion, and before acceptance and final payment, the Contractor shall remove from the site all equipment, forms, surplus material, rubbish and miscellaneous debris and leave the site in a neat and presentable condition.

**16.00 ROYALTIES AND PATENTS**

- 16.01 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 Town of Glastonbury harmless from loss on account hereof, except that the Town of Glastonbury shall be responsible for all such loss when a particular manufacturer, product, or process is specified by the Town of Glastonbury.

**17.00 ERRORS OR CONFLICT IN DRAWINGS AND SPECIFICATIONS**

- 17.01 The Contractor shall immediately notify the Owner/Engineer should he find any errors or conflicts in the contract documents. The Owner/Engineer shall render his interpretation or instruction in writing on the items as soon as possible.

- 17.02 Any work undertaken by the Contractor containing possible errors or conflicts will be done at his own risk unless he has received prior written approval from the Owner/Engineer.

17.03 The Contractor shall be responsible for estimating and supplying all quantities, and where clarification or additional information is required, a request in writing to the Owner/Engineer shall be made. No extra charge or compensation will be allowed the Contractor unless there is a change in scope or dimension of the project resulting in need for extra material, equipment and/or labor. Said differences are to be handled under Article 18.

**18.00 EXTRA WORK AND EXTRA COST**

18.01 The Owner, without invalidating the contract documents, may order extra work or make changes by altering, adding to or deducting from the work, the contract price being adjusted accordingly. All such work shall be executed under the conditions of the original contract except that any claim of extension of time caused thereby shall be adjusted at the time of ordering the change.

18.02 No extra work or change shall be performed unless in pursuance of a written order from the Owner/Engineer, with the agreed price prior to the commencement of the work, and no claim for an addition to the contract price shall be valid unless so ordered.

18.03 The value of any such work or change shall be determined, in one or more of the following ways:

- a) By estimate and acceptance on a lump sum.
- b) By unit prices named in the contract or subsequently agreed upon.
- c) By cost and percentage or by cost and a final fee.

**19.00 SUBSTITUTIONS**

19.01 The Contractor shall use materials as specified unless material list is of an open nature. Material other than specified will be permitted only after written application, including four (4) copies of specifications, is made by the Contractor and written approval received from the Engineer or Owner.

The material installed in the job site shall be new and of the quality specified.

The manufacturer's recommendation shall be followed for the installation of all equipment.

**20.00 PRODUCT SUBMITTALS**

20.01 Prior to ordering materials, the Contractor shall submit submittals as specified in the detailed specification sections. Three (3) copies of the submittals shall be forwarded to the Engineer for review and approval.

20.02 Submittals shall indicate specification Section for each product. Submittals not containing all the required information shall be returned to the contractor for re-submittal.

**21.00 OWNER'S ACCEPTANCE**

21.01 Within seven (7) days of the Contractor's notification that the installation is substantially complete, the Owner's authorized representative shall inspect the installation. The Owner, with the Contractor, shall take necessary steps to inspect the installation. Upon completion of the inspection, the Owner or the Owner's authorized representative may either accept the work

outright or prepare a "Punch List" that upon completion by the Contractor and acceptance by the Owner will signify final acceptance provided that all other applicable terms and provisions of the Contract have been completed to the Owner's satisfaction.

**22.00 RESPONSIBILITY FOR MAINTENANCE**

22.01 It will be the Contractor's responsibility to maintain the work as specified in the detailed specifications during the warranty period.

**23.00 SERVICE BY THE CONTRACTOR**

23.01 The Contractor shall maintain the work as specified during the warranty period.

**24.00 WARRANTY**

24.01 The guarantee shall be as specified in the respective sections of the specification.

24.02 The Contractor shall be responsible for the repair and/or replacement of all defective work and materials. All repair work shall be completed in a timely fashion.

24.04 Should the Contractor not respond promptly, the Owner may take any action he deems necessary to repair the defect and prevent further damage to his property, including the hiring of another contractor, or the repairing of such a defect with material supplied by the Contractor. In this event, the Contractor shall be liable for expenses incurred and property damages suffered by the Owner.

**01.00 NOTICE TO CONTRACTOR**

01.01 Intent of Contract:

The scope of the work shall include all labor, materials and equipment needed to provide and install new roofs, complete and ready for use, as described in the plans and specifications for *Barn Roof Replacement* in Glastonbury, CT.

Structures included in the base bid are **Barns 11 and 6** as shown on attached photo. An alternate includes a structure labeled **Short Barn**. These are all located at 222 Old Maids Lane in Glastonbury.

All work shall conform to current building codes including uplift resistance for the selected system. Included in the work will be temporary protections while the work is taking place. Work shall also include clean up, secure on site storage (as necessary) and all safety requirements.

**02.00 COMMUNICATIONS**

02.01 All notices, demands, requests, instructions, approvals, proposals, and claims must be in writing.

02.02 Any notice to, or demand upon, the Contractor shall be sufficiently given if delivered at the office of the Contractor stated on the signature page of the Agreement (or at such other office as the Contractor may, from time to time, designate) in a sealed, postage-prepaid envelope or delivered with charges prepaid to any telegraph company for transmission, in each case addressed to such office.

02.03 All papers required to be delivered to the Town shall, unless otherwise specified in writing to the Contractor, be delivered to the Building Superintendent, 2143 Main Street, Glastonbury, CT 06033, and any notice to, or demand upon, the Town shall be delivered at the above address in a sealed, postage-prepaid envelope or delivered with charges prepaid to any telegraph company for transmission, in each case addressed to such office or to such other representatives of the Town, or to such other address as the Town may subsequently specify in writing to the Contractor for such purpose.

02.04 Any such notice shall be deemed to have been given as of the time of actual delivery or, in case of mailing, when the same should have been received in due course of post or, in the case of telegrams, at the time of actual receipt, as the case may be.

**03.00 WORK BY OTHERS**

03.01 Private utilities, contractors, developers or other parties may be expected to be working within the Contract area during this Contract. It shall be the responsibility of the contractor to coordinate his work with the work being done by others in order that the construction shall proceed in an efficient and logical manner. The Contractor shall have no claim or claims whatever against the Town, the Engineer, or other parties due to delays or other reasons caused by the work by others or his failure to coordinate such work.

**04.00 CONTRACTOR'S WORK AND STORAGE AREA**

04.01 The Contractor shall contact the Town to determine if any specific locations will be designated, or gain its approval prior to using any area for storage of equipment, materials and trailers during the period of this Contract. The Contractor shall confine his work/storage area to the limits as designated or approved and shall be responsible for the security of the work/storage area. Upon completion of the Contract, the Contractor shall remove all equipment and materials, except as otherwise specified, and restore the site to its original condition as approved by the Engineer and at no cost to the Town.

**05.00 DISPOSAL AREA**

05.01 The Tryon Street Bulky Waste Facility will be available to the Contractor, at no charge, for disposal of materials that are accepted at that facility. No materials containing lead-based paint of any level shall be dumped at the Tryon Street facility. The Contractor is required to obtain a disposal area for all other unsuitable or surplus materials at no cost to the Town.

**06.00 DUST CONTROL**

06.01 During the progress of the work, the Contractor shall conduct his operations and maintain the area of his activities so as to minimize the creation and dispersion of dust. If the Engineer decides that it is necessary to use water or calcium chloride for more effective dust control, the Contractor shall furnish and spread the material, as directed, without additional compensation.

**07.00 PROTECTION OF EXISTING UTILITIES**

07.01 Before starting any excavation, the Contractor shall submit to the Engineer plans or details showing the proposed method the Contractor will use to support and protect all existing utilities during construction. The furnishing of such plans and details shall not serve to relieve the Contractor of any responsibility for the proper conduct of the work.

07.02 There will be no extra payment for submitting plans or details for supporting and protecting all existing utilities during construction.

**08.00 TIME FOR COMPLETION/NOTICE TO PROCEED**

08.01 Within ten (10) calendar days after the date of the Notice of Award, the Contractor must provide the appropriate insurance certificates to the Town Purchasing Agent and shall be issued a Notice to Proceed and a Purchase Order prior to initiating any work on the project.

08.02 Work shall commence within thirty (30) days of the date of the Notice to Proceed/Purchase Order.

08.03 After the work has begun, it will continue in an orderly fashion and shall be fully completed within 45 consecutive calendar days from the date of commencement. The Engineer reserves the right to extend the contract an additional thirty (30) days by mutual written agreement.

08.04 Because the facilities remain open during the installation period, the Contractor shall make every reasonable effort to complete the installation as expeditiously as possible.

**09.00 MEASUREMENT AND PAYMENT**

- 09.01 All direct, indirect, or incidental costs of work and/or services required by these specifications shall be included in the Lump Sum price.
- 09.02 Monthly progress payments will be made, based on the approved Schedule of Values, for work that has progressed in accordance with the contract documents, subject to a deduction of five percent (5%) of the amount of the application for payment to be retained by the Owner until completion of the entire contract in an acceptable manner and two and one half percent (2.5%) until the applicable one year warranty period has expired and all required inspections have been completed and results have been submitted and approved by the Engineer.

**10.00 COMPLIANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS**

- 10.01 This award of bid is subject to the conformance of the Contractor to all Federal, State, and Local laws, statutes, regulations, ordinances or other requirements that are applicable to the type of work contained in these specifications.

**INSURANCE**

The Bidder shall, at its own expense and cost, obtain and keep in force during the entire duration of the Project or Work the following insurance coverage covering the Bidder and all of its agents, employees and sub-contractors and other providers of services and shall name the **Town of Glastonbury and its employees and agents as an Additional Insured** on a primary and non-contributory basis to the Bidders Commercial General Liability and Automobile Liability policies. All policies shall contain a waiver of subrogation. **These requirements shall be clearly stated in the remarks section on the Bidder's Certificate of Insurance.** Insurance shall be written with insurance carriers approved in the State of Connecticut and with a minimum Best's Rating of A-VIII. In addition, all carriers are subject to approval by the Town. Minimum Limits and requirements are stated below:

- 1) Worker's Compensation Insurance:
  - Statutory Coverage
  - Employer's Liability
  - \$1,000,000 each accident/\$1,000,000 disease-policy limit/\$1,000,000 disease each employee
  - A Waiver of Subrogation shall be provided in favor of the Town of Glastonbury and its employees and agents
  
- 2) Commercial General Liability:
  - Including Premises & Operations, Products and Completed Operations, Personal and Advertising Injury, Contractual Liability and Independent Contractors.
  - Limits of Liability for Bodily Injury and Property Damage  
Each Occurrence \$1,000,000  
Aggregate \$2,000,000 (The Aggregate Limit shall apply separately to each job.)
  - A Waiver of Subrogation shall be provided in favor of the Town of Glastonbury and its employees and agents
  
- 3) Automobile Insurance:
  - Including all owned, hired, borrowed and non-owned vehicles
  - Evidence a Combined Single Limit of Liability for Bodily Injury and Property Damage: Per Accident \$1,000,000
  - A Waiver of Subrogation shall be provided in favor of the Town of Glastonbury and its employees and agents

The Bidder shall direct its Insurer to provide a Certificate of Insurance to the Town before any work is performed. The Contractor shall be responsible to notify the Town 30 days in advance with written notice of cancellation or non-renewal. The Certificate shall evidence all required coverage including the Additional Insured on the General Liability and Auto Liability policies. The Bidder shall provide the Town copies of any such insurance policies upon request.

**INDEMNIFICATION**

To the fullest extent permitted by law, the Bidder shall indemnify and hold harmless the Town of Glastonbury and its consultants, agents, and employees from and against all claims, damages, losses and expenses, direct, indirect or consequential (including but not limited to fees and charges of engineers, attorneys and other professionals and court and arbitration costs) to the extent arising out of or resulting from the performance of the Bidder's work, provided that such claim, damage, loss or expense is caused



**TOWN OF GLASTONBURY  
BARN ROOF REPLACEMENT  
INSURANCE REQUIREMENTS**

**BID #GL-2020-02**

in whole or in part by any negligent act or omission by the Bidder, or breach of its obligations herein or by any person or organization directly or indirectly employed or engaged by the Bidder to perform or furnish either of the services, or anyone for whose acts the Bidder may be liable.



**TOWN OF GLASTONBURY \* 2155 MAIN STREET \* GLASTONBURY \* CT**

**BID / PROPOSAL NO:** GL-2020-02 **DATE DUE:** August 22, 2019

**DATE ADVERTISED:** August 6, 2019 **TIME DUE:** 11:00 AM

**NAME OF PROJECT:** Barn Roof Replacement

In compliance with this Invitation to Bid, the Bidder hereby proposes to provide goods and/or services as per this solicitation in strict accordance with the Bid Documents, within the time set forth therein, and at the prices submitted with their bid response.

It is the responsibility of the Bidder to clearly mark the outside of the bid envelope with the Company name and Address, Bid Number, Date and Time of Bid Opening, and it also THE RESPONSIBILITY OF THE BIDDER TO CHECK THE TOWN'S WEBSITE BEFORE SUBMITTING BID FOR ADDENDA POSTED PRIOR TO BID OPENING.

**THE BIDDER ACKNOWLEDGES RECEIPT OF THE FOLLOWING ADDENDA AS REQUIRED:**

**Addendum #1** \_\_\_\_\_ (Initial/Date) **Addendum #2** \_\_\_\_\_ (Initial/Date) **Addendum #3** \_\_\_\_\_ (Initial/Date)

Other Items Required with Submission of Bid Proposal

The following bid checklist describes items required for inclusion with the above-referenced bid proposal package. It is provided for the convenience of the bidders and, therefore, should not be assumed to be a complete list.

\_\_\_\_\_ Bid Bond (10% of total bid amount).

\_\_\_\_\_ List of five (5) similar projects completed within last three (3) years.

\_\_\_\_\_ Acknowledgement of Addendums (as applicable).

\_\_\_\_\_ Acknowledgement of Code of Ethics on Bid Proposal page.

\_\_\_\_\_ Sealed bids, one original and one copy. Clearly marked envelope with Bid Number, Date, Time of opening, Bidder's Company Name and address.

\_\_\_\_\_ Disclosure of past and pending mediation, arbitration and litigation cases that the Bidder or its principals have been involved in for the most recent five years (if applicable).

\_\_\_\_\_ Copy of Bidder's Contractor's License (State of Connecticut).

\_\_\_\_\_ Warranty information

\_\_\_\_\_ Included Affidavit in compliance with Town ordinance prohibiting natural gas waste & oil waste from natural gas extraction activities or oil extraction activities as per Section 23 of the Information for Bidders.

Name of Bidder: \_\_\_\_\_



**Bidders shall ALSO provide unit prices for the following items:**

Roofing Shingles	s.f. installed	\$ _____
Roofing Metal	s.f. installed	\$ _____
Sheathing	s.f. installed	\$ _____
Ice/Water Shield	s.f. installed	\$ _____
Underlayment	s.f. installed	\$ _____
Temporary Tarp (40' X 60')	each installed	\$ _____

**NON-COLLUSION AFFIDAVIT:**

By submission of this bid, the Bidder certifies, and in the case of a joint bid each party thereto certifies as to their own organization that this bid has been arrived at independently without consultation, communication, or agreement as to any matter relating to this bid with any other Bidder or with any competitor.

**CODE OF ETHICS:**

I / We have reviewed a copy of the Town of Glastonbury's Code of Ethics and agree to submit a Consultant Acknowledgement Form if I /We are selected. Yes \_\_\_\_\_ No \_\_\_\_\_ \*

\*Bidder is advised that effective August 1, 2003, the Town of Glastonbury cannot consider any bid or proposal where the bidder has not agreed to the above statement.

\_\_\_\_\_  
Print Name, Title of Individual

\_\_\_\_\_  
Doing Business as (Trade Name)

\_\_\_\_\_  
Signature of Individual

\_\_\_\_\_  
Street Address

\_\_\_\_\_  
Date

\_\_\_\_\_  
City, State, Zip Code

\_\_\_\_\_  
E:mail Address

\_\_\_\_\_  
Telephone Number / Fax Number

(Seal – If bid is by a Corporation)  
Attest

**SECTION 06100**

**ROUGH CARPENTRY**

**PART I - GENERAL**

**1.01 RELATED DOCUMENTS**

The provisions of the Contract, the General Conditions, the Supplementary Conditions and other Division I Specification Sections, apply to the work in this section.

**1.02 RELATED SECTIONS:**

- A. Section - Metal Roof System
- B. Section - Shingles

**1.03 DELIVERY STORAGE AND HANDLING**

- A. Time delivery and installation of carpentry work to avoid delaying other trades whose work is dependent on or affected by the carpentry work. Keep materials dry during delivery
- B. Store lumber and plywood in stacks with provisions for air circulation within stacks. Protect bottom of stacks against contact with damp or wet surfaces.
- C. Protect exposed materials against water and wind. Remove damaged or unsuitable material from the job site.

**1.04 QUALITY ASSURANCE**

- A. Comply with governing codes and regulations. Use experienced installers.
- B. Lumber Standards: American Softwood Lumber Standard PS 20-70 by the U.S. Department of Commerce.
- C. Plywood Standards: U.S. product Standard PSI-74/ANSI A 199.1 or latest APA Performance Standards for American Plywood Association.
- D. Factory Marking: Mark each piece of lumber or plywood to indicate type, grade, agency providing inspection service.
- E. Size and Shape: Dress lumber 4 sides (S4S) and work to shapes and patterns shown. Nominal sizes shown and specified refer to undressed lumber dimensions. Detailed dimensions show actual lumber size required.

**1.05 SCOPE OF WORK**

- A. Replace all damaged decking, fascia in kind.

**PART II - PRODUCTS**

**2.01 DIMENSIONAL LUMBER AND PLYWOOD**

- A. Construction Lumber: Standard Grade Douglas Fir, Western Larch, Western Hemlock (WWPA or WCLB) or No. 2 dimension Southern Pine (SPIB).
- B. Exterior Type Plywood: APA Rated sheathing, EXT.
- C. Bucks, Nailers, Blocking, Etc.: No. 2 common grade of any WWPA or WCLA species or No. 2 Southern Pine (SPIB).
- D. Anchorage and Fastenings: Proper type, size material and finish for each application.
- E. Quality: Sound, seasoned, well manufactured materials of longest practical lengths and sizes to minimize joints. Free from warp which cannot be easily corrected by anchoring and attachment. Discard material with defects which would impair quality of work.

**PART III - EXECUTION**

**3.01 EXAMINATION**

- A. Verify measurements and dimensions shown before proceeding with carpentry work.
- B. Examine supporting structure and conditions under which carpentry work is to be installed. Do not proceed with installation until unsatisfactory conditions have been corrected.
- C. Correlate location of nailers, blocking and similar supports for attached work.
- D. Scribe and cope as required for accurate fit of carpentry work to other work.

**3.02 PROTECTION**

- A. Protect installed work from damage by other trades until acceptance of work.

**3.03 INSTALLATION**

- A. Provide all nailers, blocking and sleepers where shown on the drawings or required for attachment of other work. Minimum flashing height of eight (8) inches is required. Coordinate with location with other work involved; refer to shop drawings of such work.
- B. Attach to substrate securely as required to support applied loading. Countersink bolts and nuts flush with surfaces.
- C. Securely attach wood nailers to substrates in accordance with Factory Mutual Loss Prevention Data Sheet 1-49 and as required by recognized standards.
- D. Provide washers under bolt heads and nuts in contact with wood.

- E. Do not wax or lubricate fasteners that depend on friction for holding power.
- F. Select fasteners of size that will not penetrate members where opposite side will be exposed to view or will receive finish material.
- G. Make tight connections between members. Install fasteners without splitting of wood; predrill as required. Do not drive threaded friction type fasteners; turn into place. Tighten bolts and lag screws at installation and retighten as required for tight connections prior to closing in or at completion of work.

**END OF SECTION**

**SECTION 02 41 00  
SELECTIVE DEMOLITION**

**PART 1- GENERAL**

**1.01 IN GENERAL**

Drawings and general provisions of the Contract, including the Conditions of the Contract and Division 01 Specification Sections apply to this section.

**1.02 SUMMARY OF WORK**

This Section specifies requirements for the following Scope of Work:

- A. Remove existing roof systems including cedar shakes and a layer of asphalt shingles.
- B. Remove existing any rotted decking.
- C. Remove deteriorated roof decking in preparation for installing new decking. Base bids shall include 25% deck replacement for Barns 6 & 11 only. Final amount shall be adjusted based on the unit prices submitted in the bidder's proposal.

**1.03 JOB CONDITIONS**

- A. Remove only as much existing roofing as can be replaced with the new system and made 100% weathertight in the same day's operation, including flashing work.
- B. Provide temporary roof protection or coverings for delays in the work. Maintain watertight conditions at all time.
- C. The buildings will remain in use during construction. Provide temporary protection, barriers, warning lines and overhead protection to protect the building occupants, the public, the building, and the Owner's property during construction operations.
- D. Care shall be taken during the roof removal process so as not to damage the substrates. Decking damaged due to negligence during removal of existing roofing shall be replaced by the Contractor at no expense to the Owner.
- E. The use of 'Bobcat' type of tractors for the removal of the existing roof systems will not be allowed on any roof area within this contract.
- F. Coordinate work locations with the Owner as specified.



**1.04 SUBMITTALS**

- A. Submit a detailed Removal Plan to the Owner and Engineer to include the following:
  - 1. Proposed means and methods to be utilized in the legal removal, handling, transportation, and disposal of the existing roof systems and related debris, including asbestos and lead containing materials.
  - 2. Proposed locations of chutes, dumpsters, cranes, hoists, and other temporary equipment or facilities required for demolition work.
  - 3. Proposed methods for interior and exterior protection and clean-up during removal and re-roofing operations.
  - 4. Schematic plan showing anticipated daily work areas and sequence so as to allow the Owner to notify occupants below.

**1.05 REMOVAL AND DISPOSAL EQUIPMENT**

- A. Conveyances: Buggies or wheelbarrows used on roofs to transport removed debris to chutes or crane apparatus location shall be limited to 3/8 cubic yard capacity.
- B. Chutes: Provide enclosed chutes for debris transfer from roof areas to dumpsters. Debris shall not spill from the bottom of the chute directly onto the ground. Direct chutes into an approved construction debris container (dumpster). Control and contain dust and noise from falling debris by use of breaks in vertical alignment of chute or tarps covering dumpster. Provide a hose with a nozzle connected to an adequate water supply, near chute outlet, to wet debris as necessary for dust control. (If applicable)
- C. Hoists/Cranes: Provide hoists or cranes to remove debris and transport materials to and from the roof. Materials shall be properly secured to prevent loose materials/debris from breaking loose from hoisting apparatus. Debris to be transported from the roof shall be placed directly in approved construction debris containers. Proper protection of wall areas for their entire height shall be provided in the form of heavy duty tarps secured or affixed to exterior walls directly adjacent to or under the area of hoisting.
- D. Mechanical cutting equipment: Roof cutting equipment, if used, shall be equipped with operable blade depth setting mechanisms in order to control the cutting depth of the blade and alleviate the potential of damaging the structural deck during cutting operations. (Not Applicable)
- E. Tarps to be set at the ground along the base of the removal area to minimize debris being imbedded into surrounding areas.

**PART 2 – MATERIALS**

**NOT USED**

**PART 3 EXECUTION**

**3.01 GENERAL**

During the removal of existing roofing and related materials, the Contractor shall report to the Owner areas of damaged, deteriorated or otherwise unsuitable structural deck or substrates uncovered during the work. Do not cover or remove unacceptable deck or substrates areas until reviewed by the Owner. Provide temporary protection to the areas in question. Use care in the removal of roof systems so as not to damage the substrates.

**3.02 REMOVALS**

- A. Remove and dispose of existing roof cover, insulation and flashing systems. (Shingled roof only)
- B. Remove and dispose of existing deteriorated perimeter wood blocking as indicated in preparation for new wood blocking. The intent of the project is to reuse as much of the original wood blocking as practical.

**3.03 ROOF DECK REMOVAL (Shingle roof only)**

- A. Areas requiring decking replacement shall first be reviewed with the Owner and prior to removal. At that time, the extent (and dimensions) of replacement for this area shall be defined.
- B. Supply all tarps, warning lines and other means necessary to protect the building interior from damage, as well as the occupants.
- C. Removals shall include extending between two (2) support members while ensuring that adjacent panels also extend two (2) supports minimum.
- D. The limits of deck removal shall be defined with a clean, straight saw-cut through the decking or at current roof deck panel joints. Remove areas of deteriorated decking by cutting to the nearest support. Support the deteriorated panel sections during cutting and lift out once free.
- E. Clear all debris from deck surface and flutes prior to removing deteriorated decking.

**3.04 CLEAN-UP AND DISPOSAL**

Upon completion of the work of this Section and following removal of debris from roof levels, leave site in clean condition satisfactory to Owner on a daily basis in accordance with Division 1 requirements. Clean-up shall include disposal of all items and materials not required to remain the property of the Owner, as well as debris and rubbish resulting from demolition operations. Dispose of debris in accordance with applicable regulations at an approved landfill.

**END OF SECTION**

**SECTION 07310**

**ARCHITECTURAL ASPHALT SHINGLES**

**PART I - GENERAL**

**1.1 SCOPE OF WORK**

- A. The asphalt shingle system shall not consist of less than one layer of Aqua-Shield basesheet and premium grade, UL Class 'A' fire-rated and UL wind rated, multi-reinforced premium asphalt composition shingle.
- B. Remove existing shingle roof system (2) and related materials, and dispose according to local, state and federal requirements. Replace rotted decking in kind.
- C. Install Aqua-Shield Ice and watershield sheet directly to roof deck and to all valleys and perimeter.
- D. Install new .028 standard drip and rake edge.

**1.2 RELATED SECTIONS**

- A. Drawings and general provisions of the Contract, including General Supplementary Conditions and Division 1 Specification Sections apply to this section.
- B. Related work specified elsewhere:
  - 1. Rough Carpentry
  - 2. Sheet Metal Flashing and Trim
  - 3. Roof Specialty and Accessory Items.

**1.3 REFERENCE STANDARDS**

- A. Asphalt Roofing Manufacturer's Association (ARMA)
- B. American Society for Testing Materials (ASTM)  
ASTM D 3018- Asphalt Shingles
- C. National Roofing Contractor's Association (NRCA)  
Roofing and Waterproofing Manual-Steep Roofing
- D. Underwriters' Laboratories (UL):
  - 1. UL-263 Fire Tests of Building Constructions and Materials.

2. UL-580 Tests for Uplift Resistance of Roof Assemblies.
3. UL-790 Tests for Fire Resistance of Roof Covering Materials.

#### 1.4 SUBMITTALS

- A. Underwriter's Laboratories (UL) Certification  

UL 790: The test report shall clearly show a rating of **Class A** roofing material.
- B. Certificates. Evidence of acceptance of shingle manufacturer stating their acceptance of the specification for compliance with their shingle system.
- C. Product Data. Indicate shingles, underlayment and accessory materials or other proposed materials.
- D. Manufacturer's Installation Manual: Including installation sequence, special instructions, and Material Safety Data Sheets (MSDS).
- E. Samples: Provide full scale samples of the following materials and system components. Samples shall be of identical material type, thickness, width, and material grade as the system specified for this project. Sample shall be the color chosen for the project.

#### 1.5 ALTERNATE MANUFACTURERS

- A. Manufacturer Approval: The materials outlined in this Materials and Methods Specification are the type of materials to be used on this project. This specification is based on the performance characteristics of the system identified in section 2.1. Alternate manufacturers must gain approval 10 business days prior to the bid opening by submitting all items in section 1.5 B. Bidder will not be allowed to change materials after the bid opening date. Failure of a shingle system to meet all requirements of this specification will result in forfeiture of the bid award.
- B. Alternate Manufacturers: If the bidder wishes to propose an alternate manufacturer and/or material than that specified, the following manufacturer criteria must be submitted. Alternate systems will not be considered for approval unless each of these items has been submitted for review at least 10 business days prior to bid opening:
  1. Submit each item listed in section 1.4 (A through D) for evaluation of the proposed system.
  2. Tests shall have been made for identical systems within the ranges of specified performance criteria.
  3. A list of a minimum of five (5) jobs where the proposed alternate material was used under similar conditions. The reference list shall include date of project, size of project, project address, and telephone number of architect/owner contact.
  4. A financial statement demonstrating a current ratio of 3:1 (current assets to current liabilities).

5. A written statement from the manufacturer stating that they will provide the building owner with a daily site inspection for a minimum of one (1) hour by an experienced, full time employee of the company.
6. A written statement from a corporate officer of the manufacturing company stating that he or she has reviewed the specifications and confirms that the proposed system meets or exceeds all performance requirements listed.
7. A copy of manufacturer's 30 year material warranty.

#### **1.6 INSTALLER QUALIFICATIONS**

- A. Successful contractor is required to maintain a full-time supervisor/foreman who is on the job-site at all times during installation of new roof system. Foreman must have a minimum of five (5) years experience with the installation of system similar to that specified.
- B. If required, installer shall submit work experience and evidence of adequate financial responsibility. The owners representative reserves the right to inspect facilities in determining qualifications.

#### **1.7 DELIVERY, STORAGE, AND HANDLING**

- A. Manufacturer's responsibility:
  1. Deliver the products in manufacturer's original containers, with wrappers in a dry undamaged condition with seals and labels intact. Include test report data necessary.
- B. Installer's responsibility:
  1. Store materials in weather protected environment clear of the ground and moisture.
  2. Store rolled goods on end on a clean, sound pallet. Materials shall be protected against moisture.
  3. Do not store more materials on the roof than can be installed within two days.
  4. Inspect materials upon delivery. Reject and remove physically damaged or marred material from project site.

#### **1.8 WARRANTIES**

- A. Owner shall receive ONE (1) WARRANTY from manufacturer of shingles covering ALL of the following criteria. Multiple warranties are NOT acceptable.
  1. Installer's 2 year warranty covering workmanship from deck to underlayment to shingles.
  3. Manufacturer's Limited Warranty: Shingles shall come with and be warranted by the material manufacturer for a period of 30 years.

4. Warranties shall commence on date of substantial completion.

## **PART II - PRODUCTS**

### **2.1.1 PREMIUM GRANULE SHINGLES**

### **2.1.2 RELATED MATERIALS**

- A. Hip and ridge material to be made of the same material of the shingles or sheet metal.
- B. Underlayment. Underlayment shall be a No. 30 non perforated felt.
- C. Self-adhering modified bitumen underlayment. Aqua-Shield Membrane
- D. Nails. Nails shall be 11 gauge wire minimum, 5/16 inch head minimum and length to give proper penetration. (longer nails will be necessary for hip and ridge application)
- E. Plastic Cement. Trowel grade asphalt based roof cement for use as edge and valley sealant.

## **PART III - EXECUTION**

### **3.1 PREPARATION**

- A. Pre-roofing conference: Prior to beginning roofing work, a pre-roofing conference shall be held to review work to be accomplished.
  1. Specifier, contractor, a manufacturer's representative, and all other subcontractors who have equipment penetrating roof or whose work involves access to roof shall be present.

### **3.2 ROOFING INSTALLATION**

- A. Prepare roof for the installation of asphalt shingles, including:
  1. Protect all building surfaces against damage from roofing work.
  2. Clean roof deck and maintain free from all deleterious material during roofing application.
  3. Verify deck surface to be flat and joints tight.
  4. Erect proper safety equipment.
- B. Underlayment
  1. Starting at the eave, one layer of underlayment should be applied to the deck, perpendicular to the slope. All felt sheets should be lapped a minimum of two inches over the preceding felt sheet. End laps should be a minimum of 4 inches. The felts should be nailed under the lap only as necessary to hold the felts in place until the shingles are applied.

2. Ice and Water Shield - (Aqua-Shield). In all locations where the January mean temperature is 30 F or less a modified bitumen membrane should be substituted for the felt underlayment starting from the eaves to a point 6 feet inside the inside wall line of the building to serve as an ice shield.
3. Drip Edge. Metal drip edges should be provided directly beneath the shingles along eaves and rakes and applied directly to the edges of the deck. The underlayment should be positioned between the metal edge and the roof deck along the rake and over the metal edge along the eave.

**C. Shingle Installation**

1. General. Application shall be in accordance with the approved shingle manufacturer's latest printed specification and installation guides.
2. Starter Course. Before applying the first course of shingles, a row of shingles with the tabs removed should be applied along the eaves as the starter strip. Align starter course with the outer edge of the building, gutters or eaves as necessary.
3. Apply the first course of shingles flush with the starter course (end of tab) but without open tab joints overlapping starter joints (stagger). Nail shingles with four nails per shingle. Be sure it is laid perfectly straight, checking it regularly during application against a horizontal chalk line.
4. The second course should be started with a shingle from which half of the first tab has been removed. The shingles shall be overlapped so that there is a 5" or 6" exposure and shall remain constant throughout the entire application.
5. The third course should be started like the first course, then fourth like the second and so on throughout the entire application. This pattern allows the cutouts to be centered on the tabs of the shingles in the course of the following.
6. All shingles are to be nailed in place, no stapling is permitted.

**D. Hip and Ridge**

1. Shingles should be butted as they progress up either side of a hip or ridge. Individual shingle tabs the entire width of shingle should be cut, trimmed to a taper and bent lengthwise across their centers for use as a hip and ridge covering. Application of the hip and ridge covers should begin at the lower end of a hip or at either end of a ridge. The hip and ridge covers should leave a 5" or 6" exposure and be applied in shingle fashion.

**END OF SECTION**

**SECTION 07410  
METAL ROOF PANELS**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Standing seam metal roofing system.
- B. Standing seam metal roofing accessories.
- C. Metal roofing accessories.

**1.2 RELATED SECTIONS**

- A. Section 05400 - Cold-Formed Metal Framing: Structural framing supporting metal roofing
- B. Section 06112 - Framing and Sheathing: Plywood roof deck substrate.
- C. Section 06150 - Wood Decking.
- D. Section 07220 - Roof and Deck Insulation.
- E. Section 07620 - Sheet Metal Flashing and Trim.
- F. Section 07714 - Gutters and Downspouts
- G. Section 07900 - Joint Sealers

**1.3 REFERENCES**

- A. ASTM A 240 - Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications.
- B. ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- C. ASTM A 792/A 792M - Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process.
- D. ASTM A 875 - Standard Specification for Steel Sheet, Zinc-5 % Aluminum Alloy-Coated by the Hot-Dip Process
- E. ASTM B 101 - Standard Specification for Lead-Coated Copper Sheet and Strip for Building Construction.
- F. ASTM B 209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
- G. ASTM B 370 - Standard Specification for Copper Sheet and Strip for Building Construction.
- H. ASTM D 226 - Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing.
- I. ASTM D 1056 - Standard Specification for Flexible Cellular Materials - Sponge or Expanded Rubber.



- J. ASTM D 2178 - Standard Specification for Asphalt Glass Felt Used in Roofing and Waterproofing.
- K. ASTM D 3575 - Standard Test Methods for Flexible Cellular Materials made from Olefin Polymers.
- L. ASTM E 84 - Standard Test for Surface Burning Characteristics of Building Materials.
- M. ASTM E 283 - Standard Test Method for Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.
- N. ASTM E 331 - Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
- O. ASTM E 1592 - Standard Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference.
- P. ASTM E 1646 - Standard Test Method for Water Penetration of Exterior Metal Roof Panel Systems by Uniform Static Air Pressure Difference.
- Q. ASTM E 1680 - Standard Test Method for Rate of Air Leakage Through Exterior Metal Roof Panel Systems.
- R. ASTM E 2140 - Standard Test Method for Water Penetration of Metal Roof Panel Systems by Static Water Pressure Head.
- S. AAMA 501.1 - Standard Test Method for Water Penetration of Windows, Curtain Walls and Doors Using Dynamic Pressure.
- T. ASCE 7 - Minimum Design Loads for Buildings and Other Structures.
- U. FM 4470 Approval Standard for Class 1 Panel Roofs.
- V. FM 4471 - Class 1 Panel Roof; Factory Mutual Research Corporation.
- W. UL 263 - Fire Tests of Building Constructions and Materials.
- X. UL 580 - Standard for Tests for Uplift Resistance of Roof Assemblies.
- Y. UL 790 - Standard Test Methods for Fire Tests of Roof Coverings.
- Z. UL 1897 - Uplift Test for Roof Covering Systems.
- AA. ICC-ES AC166 - Test Procedure for Wind Driven Rain Resistance of Metal Roof Coverings.
- BB. SMACNA - Architectural Sheet Metal Manual.
- CC. National Coil Coating Association (NCCA)
- DD. NRCA - The NRCA Roofing and Waterproofing Manual.

#### **1.4 DESIGN / PERFORMANCE REQUIREMENTS**

- A. Standing Seam Roofing System: R-Mer Span
  - 1. Thermal Expansion and Contraction:

- a. Completed metal roofing and flashing system shall be capable of withstanding expansion and contraction of components caused by changes in temperature without buckling, producing excess stress on structure, anchors or fasteners, or reducing performance ability.
  - b. Design temperature differential shall be not less than 200 degrees F.
  - c. Interface between panel and clip shall provide for unlimited thermal movement in each direction along the longitudinal direction.
  - d. Location of metal roofing rigid connector shall be at roof ridge unless otherwise approved by the Project Architect. Metal ridge connector may require design as per job conditions by specified manufacturer.
2. Uniform Wind Load Capacity:
- a. Installed roof system shall withstand negative (uplift) design wind loading pressures complying with the following criteria.
    - 1) Design Code: ASCE 7, Method 2 for Components and Cladding.
    - 2) Safety Factor: 1.67 after any load reduction or material stress increase.
    - 3) Category II Building with an Importance Factor of 1
    - 4) Wind Speed: 125 mph.
    - 5) Ultimate Pullout Value: 390 pounds per each of the two fasteners holding the panel anchor to the roof decking or framing system.
    - 6) Exposure Category: C.
    - 7) Design Roof Height: 33.25 feet.
    - 8) Minimum Building Width: 45 feet.
    - 9) Roof Pitch: 9 inches per foot.
    - 10) Roof Area Design Uplift Pressure:
      - a) Zone 1 - Field of roof 31.7 psf.
      - b) Zone 2 - Eaves, ridges, hips, and rakes 35.8 psf.
      - c) Zone 3 - Corners 35.8 psf.
  - b. ASTM E 1592: Capacity shall be determined using pleated airbag method in accordance with ASTM E 1592, testing of sheet metal roof panels. Allowable safe working loads shall be determined by dividing the ultimate test load by the safety factor specified above.
  - c. Underwriters' Laboratories, Inc., (UL), wind uplift resistance classification: Roof assembly shall be classified as Class 1-90, as defined by UL 580
  - d. FM 4471: Submit test report for negative wind uplift pressures no less than that specified. Roof system must have approval over the substrate specified.
3. Uniform Positive Load Capacity.
- a. Installed roof system shall be capable of resisting the following positive uniform roof loads: Roof Live Load of 20 psf; Roof Snow Load (Ground) of 30 psf.
  - b. Dead Load: Loading of the roof structure, due to tear off of existing, and/or installation of new roofing materials shall not exceed the present loading due to weight of the existing roofing system.
  - c. Installed roof system shall carry positive uniform design loads with a maximum system deflection of L/180 as measured at the rib (web) of the panel.
4. Underwriters' Laboratories, Inc., (UL):
- a. Underwriters' Laboratories, Inc., (UL) fire resistance P ratings for roof assemblies: If applicable, panel system shall be approved for use in an appropriate Construction Assembly, as defined by UL 263.
  - b. Underwriters' Laboratories, Inc., (UL) Class A fire rating per UL 790.
5. ASTM E 283: Static pressure air infiltration (doors, windows, curtain walls):
- a. Pressure Leakage Rate
    - 1) 1.57 PSF 0.0007 cfm/sq.ft.

- 2) 6.24 PSF 0.0002 cfm/sq.ft.
- 3) 20.0 PSF 0.0036 cfm/sq.ft.
6. ASTM E 331: Static pressure water infiltration (doors, windows, curtain walls):
  - a. Pressure Result:
    - 1) 5 Gal. /Hr. per S.F. and Static No Leakage
    - 2) Pressure of 20.0 Psf. for 15 minutes
7. ASTM E 1680: Static pressure air infiltration (roof panels):
  - a. Pressure Leakage Rate:
    - 1) 1.57 PSF 0.0012 cfm/sq.ft.
    - 2) 6.24 PSF 0.0001 cfm/sq.ft.
    - 3) 20.0 PSF 0.0011 cfm/sq.ft.
8. ASTM E 1646: Static pressure water infiltration (roof panels):
  - a. Pressure Result:
    - 1) 5 Gal. /Hr. per S.F. and Static No Leakage
    - 2) Pressure of 20.0 Psf for 15 minutes
9. Capacities for gauge, span or loading other than those tested may be determined by interpolation of test results within the range of test data. Extrapolations for conditions outside test range are not acceptable.
10. Water penetration (dynamic pressure): No water penetration, other than condensation, when exposed to dynamic rain and 70 mph wind velocities for not less than five minutes duration, when tested in accord with principles of AAMA 501.1.
11. Wind and wind driven rain resistance: No water penetration or panel movement when exposed to 110 mph wind velocities when tested in accordance with TAS 100.
12. Installed roof system assembly shall show that it can resist the calculated roof pressure in accordance with the test results of TAS 125.
13. Water penetration in low slope applications: No water penetration or panel movement when subject to 6 inch head of water for 6 hours when tested in accordance with the ASTM E 2140 and when subject to 6 inch head of water for 7 days when tested in accordance with the TAS 114 appendix G.
14. Submit third party validation of environmental claims, prepared UL Environment, for all metal roof panels containing recycled content and/or bio based content.

## **1.5 SUBMITTALS**

- A. Submit under provisions of Section 01300.
- B. Product Data: Submit product data, test reports, and certifications in accordance with quality assurance and performance requirements specified herein.
- C. Design Loads: Submit manufacturer's minimum design load calculations according to ASCE 7, Method 2 for Components and Cladding. In no case shall the design loads be taken to be less than those specified herein.
- D. Dead Load Evaluation: Provide documentation from a licensed structural engineer of a structural evaluation of the roof structure and it's suitability for the new imposed roofing loads.
- E. Shop Drawings: Prepared specifically for this project; showing dimensions of metal roofing and accessories, fastening details and connections and interface with other products.
- F. LEED Submittals: Provide documentation of how the requirements of Credit will be met:
  1. List of proposed materials with recycled content. Indicate post-consumer recycled

- content and pre-consumer recycled content for each product having recycled content.
- 2. Product data and certification letter indicating percentages by weight of post-consumer and pre-consumer recycled content for products having recycled content.
- G. Selection Samples: For each finish product specified, two complete sets of samples representing manufacturer's full range of available colors and textures.
- H. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and textures.
- I. Manufacturer's Certificates: Certify products meet or exceed specified requirements.
- J. Closeout Submittals:
  - 1. Provide manufacturer's maintenance instructions that include recommendations for periodic checking and maintenance of installed roof system.
  - 2. Provide executed copy of manufacturer's warranty.

## **1.6 QUALITY ASSURANCE**

- A. Manufacturer Qualifications: Manufacturer shall have in place a documented, standardized quality control program such as ISO-9001 approval.
- B. Installer Qualifications: Certified and approved installer of the sheet metal roofing manufacturer.
- C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
  - 1. Finish areas designated by Owner.
  - 2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Owner.
  - 3. Refinish mock-up area as required to produce acceptable work.

## **1.7 PRE-INSTALLATION CONFERENCE**

- A. Convene a pre-roofing conference approximately two weeks before scheduled commencement of roofing system installation and associated work.
- B. Require attendance of installers of deck or substrate construction to receive roofing, installers of rooftop units and other work in and around roofing which must precede or follow roofing work including mechanical work, Owner, roofing system manufacturer's representative.
- C. Objectives include:
  - 1. Review foreseeable methods and procedures related to roofing work, including set up and mobilization areas for stored material and work area.
  - 2. Tour representative areas of roofing substrates, inspect and discuss condition of substrate, roof drains, curbs, penetrations and other preparatory work.
  - 3. Review structural loading limitations of deck and inspect deck for loss of flatness and for required attachment.
  - 4. Review roofing system requirements, Drawings, Specifications and other Contract Documents.
  - 5. Review and finalize schedule related to roofing work and verify availability of materials, installer's personnel, equipment and facilities needed to make progress and avoid delays.

6. Review required inspection, testing, certifying procedures.
7. Review weather and forecasted weather conditions and procedures for coping with unfavorable conditions, including possibility of temporary roofing.
8. Record conference including decisions and agreements reached. Furnish a copy of records to each party attending.

### **1.8 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- B. Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.
  1. Store materials above ground, on skids.
  2. Protect material with waterproof covering and allow sufficient ventilation to prevent condensation buildup or moisture entrapment on the materials.

### **1.9 PROJECT CONDITIONS**

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

### **1.10 WARRANTY**

- A. Warranty:
  1. 30 year, no dollar limit, warranty (R-Mer-Span), 20 year, no dollar limit, warranty (R-Mer-Loc).
  2. Provide installers 2 year warranty covering roofing system installation and water-tightness.

## **PART 2 PRODUCTS**

### **2.1 MANUFACTURERS**

- A. Acceptable Manufacturer: Garland Company, Inc. (The), which is located at: 3800 E. 91st St.; Cleveland, OH 44105; Toll Free Tel: 800-321-9336; Tel: 216-641-7500; Fax: 216-641-0633; Web:[www.garlandco.com](http://www.garlandco.com)
- B. Requests for substitutions will be considered in accordance with provisions of Section 01600.

### **2.2 STANDING SEAM METAL ROOFING**

- A. R-Mer Span:
  1. Width of Standing T-Seam Panel: 1 inch T-seam.
    - a. 18 inches.
  2. Standing Seam: 2-3/8 inch tall mechanically seamed with factory installed hot melt sealant in-seam cap. Panel/Cap is configured with a total of 4 layers of metal surrounding anchor clip.
  3. Panel Profile: Provided with minimum 1-1/2 inches wide elevated mesa's every 2 inches on center continuous throughout panel.
    - a. Slope: Open Purlins or Solid Substrate down to 1/4:12.

4. Panel material:
  - a. Galvanized steel 24 gauge, G90, smooth as per ASTM A 653.
5. Flashing and flat stock material: Fabricate in profiles indicated on Drawings of same material, thickness, and finish as roof system, unless indicated otherwise.
6. Coated Finish: (If applicable)
  - a. Exposed surfaces for coated panels:
  - b. Unexposed surfaces for coated panels shall be baked-on polyester coating with .20 to .30 dry film thickness (TDF).
7. Accessory Components:
  - a. Anchor Clips:
    - 1) Concealed Standard Anchor Clips: Clips 16 gauge galvanized steel, 1 piece clip with projecting legs for additional panel alignment and provision for unlimited thermal movement in each direction along the longitudinal dimension.
  - b. Fasteners:
    - 1) Concealed fasteners: Corrosion resistant steel fasteners (zinc plated, stainless steel or equal) designed to meet structural loading requirements.
    - 2) Exposed fasteners: Series 410 stainless steel fasteners or 1/8 inch diameter stainless steel waterproof rivets. All exposed fasteners shall be factory painted to match the color of the standing seam panels.
  - c. Closures: Factory precut closed cell foam meeting ASTM D 1056 or ASTM D 3575, enclosed in metal channel matching panels when used at hip, ridge, rake, and jamb.
  - d. Provide all miscellaneous accessories for complete installation.

### **2.3 STANDING SEAM METAL ROOFING ACCESSORIES**

- A. Framing Components:
  1. Hat Sections: Galvanized steel furring hat sections, 22 gauge minimum.

### **2.4 METAL ROOFING ACCESSORIES**

- A. R-Mer SS Sheet Stock: High gloss, factory painted aluminum
  1. Material and Thickness:
    - a. 24 gauge steel
  2. Color. (To be Determined)

## **PART 3 EXECUTION**

### **3.1 EXAMINATION**

- A. Examine surfaces to receive metal roofing. Notify the Owner in writing of any defective conditions encountered. Starting of work shall constitute acceptance of such conditions.
- B. Structural Deck Substrate:
  1. Inspect roof deck to verify deck is clean and smooth, free of depressions, waves, or projections, and properly sloped.
  2. Verify deck is dry and joints are solidly supported and fastened.
  3. Verify wood nailers are installed and correctly located. Do not use pressure-treated wood containing salt-based preservatives or materials corrosive to steel.
- C. Structural Framing Substrate:
  1. Verify primary and secondary framing members are installed and fastened, properly

aligned and sloped.

2. Verify damaged shop coatings are repaired with touch up paint.
- D. Verify roof openings, curbs, pipes, sleeves, ducts, or vents through roof are solidly set, reglets are in place, and nailing strips located.
- E. Correct defective conditions before beginning work.

### **3.2 INSTALLATION**

- A. Install in conformance with the NRCA Roofing and Waterproofing Manual and Manufacturers installation requirements.
- B. Form panel shape as indicated on Drawings, accurate in size, square, and free from distortion or defects.
- C. Install underlayment and eave protection sheet underlayment as recommended by the Manufacturer.
- D. Coordinate with installation of rigid board insulation as specified in Section 07200.
- E. Install all panels continuous from ridge to eave. Transverse seams are not permitted.
- F. Panel lengths that exceed maximum shipping lengths shall be field rolled on equipment owned by the panel manufacturer. Seam sealant must be factory applied.
- G. Exposed fasteners, screws and/or roof mastic are unacceptable and will be rejected. System configuration only allows for exposed fasteners at panel overlap, if required, and at trim details in accordance with the Manufacturer's requirements.
- H. Where not otherwise indicated conform to SMACNA details including flashings and trim.
- I. Install sealants where indicated to clean dry surfaces only without skips or voids..
- J. Install metal edge treatment in accordance with the manufacturer's instructions and the approved shop drawings.
- K. Install metal roofing accessories in accordance with the manufacturer's instructions and the approved shop drawings.

### **3.3 PROTECTION**

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION

Project: Barn Roof Replacement

**Minimum Rates and Classifications  
for Building Construction**

ID# : B 26378

**Connecticut Department of Labor  
Wage and Workplace Standards Division**

By virtue of the authority vested in the Labor Commissioner under provisions of Section 31-53 of the General Statutes of Connecticut, as amended, the following are declared to be the prevailing rates and welfare payments and will apply only where the contract is advertised for bid within 20 days of the date on which the rates are established. Any contractor or subcontractor not obligated by agreement to pay to the welfare and pension fund shall pay this amount to each employee as part of his/her hourly wages.

Project Number: GL-2020-02 Project Town:  
Glastonbury  
State# FAP#:

Project: Barn Roof Replacement

**CLASSIFICATION** **Hourly Rate** **Benefits**

1a) Asbestos Worker/Insulator (Includes application of insulating materials, protective coverings, coatings, & finishes to all types of mechanical systems; application of firestopping material for wall openings & penetrations in walls, floors, ceilings) 38.25 27.96

1b) Asbestos/Toxic Waste Removal Laborers: Asbestos removal and encapsulation (except its removal from mechanical systems which are not to be scrapped), toxic waste removers, blasters.\*\*See Laborers Group 7\*\*

1c) Asbestos Worker/Heat and Frost Insulator 40.21 30.99

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2) Boilermaker	38.34	26.01
3a) Bricklayer, Cement Mason, Concrete Finisher (including caulking), Stone Masons	34.72	32.55 + a
3b) Tile Setter	34.90	25.87
3c) Terrazzo Mechanics and Marble Setters	31.69	22.35
3d) Tile, Marble & Terrazzo Finishers	26.70	21.75
3e) Plasterer	33.48	32.06

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-----LABORERS-----

4) Group 1: Laborers (common or general), acetylene burners, concrete specialists, wrecking laborers, fire watchers.	30.75	20.84
4a) Group 2: Mortar mixers, plaster tender, power buggy operators, powdermen, fireproofers/mixer/nozzleman (Person running mixer and spraying fireproof only).	31.00	20.84
4b) Group 3: Jackhammer operators/pavement breaker, mason tender (brick), mason tender (cement/concrete), forklift operators and forklift operators (masonry).	31.25	20.84
4c) **Group 4: Pipelayers (Installation of water, storm drainage or sewage lines outside of the building line with P6, P7 license) (the pipelayer rate shall apply only to one or two employees of the total crew who primary task is to actually perform the mating of pipe sections) P6 and P7 rate is \$26.80.	31.75	20.84
4d) Group 5: Air track operator, sand blaster and hydraulic drills.	31.50	20.84

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4e) Group 6: Blasters, nuclear and toxic waste removal.	33.75	20.84
4f) Group 7: Asbestos/lead removal and encapsulation (except it's removal from mechanical systems which are not to be scrapped).	31.75	20.84
4g) Group 8: Bottom men on open air caisson, cylindrical work and boring crew.	29.03	20.84
4h) Group 9: Top men on open air caisson, cylindrical work and boring crew.	28.49	20.84
4i) Group 10: Traffic Control Signalman	18.00	20.84
5) Carpenter, Acoustical Ceiling Installation, Soft Floor/Vinyl Floor/Carpet Laying, Metal Stud Installation, Form Work and Scaffold Building, Drywall Hanging, Modular-Furniture Systems Installers, Lathers, Piledrivers, Resilient Floor Layers.	33.53	25.66

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5a) Millwrights	34.04	26.09
6) Electrical Worker (including low voltage wiring) (Trade License required: E1,2 L-5,6 C-5,6 T-1,2 L-1,2 V-1,2,7,8,9)	40.00	27.67+3% of gross wage
7a) Elevator Mechanic (Trade License required: R-1,2,5,6)	53.37	33.705+a+b

-----LINE CONSTRUCTION-----

Groundman	26.50	6.5% + 9.00
Linemen/Cable Splicer	48.19	6.5% + 22.00

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8) Glazier (Trade License required: FG-1,2)	38.18	21.80 + a
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9) Ironworker, Ornamental, Reinforcing, Structural, and Precast Concrete Erection	36.67	35.77
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----OPERATORS----

Group 1: Crane handling or erecting structural steel or stone, hoisting engineer 2 drums or over, front end loader (7 cubic yards or over), work boat 26 ft. and over and Tunnel Boring Machines. (Trade License Required)	40.97	24.80 + a
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Group 2: Cranes (100 ton rate capacity and over); Excavator over 2 cubic yards; Piledriver (\$3.00 premium when operator controls hammer); Bauer Drill/Caisson. (Trade License Required)	40.64	24.80 + a
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Group 3: Excavator; Backhoe/Excavator under 2 cubic yards; Cranes (under 100 ton rated capacity), Grader/Blade; Master Mechanic; Hoisting Engineer (all types of equipment where a drum and cable are used to hoist or drag material regardless of motive power of operation), Rubber Tire Excavator (Drott-1085 or similar); Grader Operator; Bulldozer Fine Grade. (slopes, shaping, laser or GPS, etc.). (Trade License Required)	39.88	24.80 + a
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Group 4: Trenching Machines; Lighter Derrick; Concrete Finishing Machine; CMI Machine or Similar; Koehring Loader (Skooper).	39.48	24.80 + a
Group 5: Specialty Railroad Equipment; Asphalt Paver; Asphalt Reclaiming Machine; Line Grinder; Concrete Pumps; Drills with Self Contained Power Units; Boring Machine; Post Hole Digger; Auger; Pounder; Well Digger; Milling Machine (over 24" Mandrell)	38.87	24.80 + a
Group 5 continued: Side Boom; Combination Hoe and Loader; Directional Driller; Pile Testing Machine.	38.87	24.80 + a
Group 6: Front End Loader (3 up to 7 cubic yards); Bulldozer (rough grade dozer).	38.55	24.80 + a
Group 7: Asphalt roller, concrete saws and cutters (ride on types), vermeer concrete cutter, Stump Grinder; Scraper; Snooper; Skidder; Milling Machine (24" and under Mandrell).	38.20	24.80 + a
Group 8: Mechanic, grease truck operator, hydroblaster; barrier mover; power stone spreader; welding; work boat under 26 ft.; transfer machine.	37.79	24.80 + a

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Group 9: Front end loader (under 3 cubic yards), skid steer loader regardless of attachments, (Bobcat or Similar): forklift, power chipper; landscape equipment (including Hydroseeder).	37.34	24.80 + a
Group 10: Vibratory hammer; ice machine; diesel and air, hammer, etc.	35.24	24.80 + a
Group 11: Conveyor, earth roller, power pavement breaker (whiphammer), robot demolition equipment.	35.24	24.80 + a
Group 12: Wellpoint operator.	35.18	24.80 + a
Group 13: Compressor battery operator.	34.58	24.80 + a
Group 14: Elevator operator; tow motor operator (solid tire no rough terrain).	33.41	24.80 + a

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Group 15: Generator Operator; Compressor Operator; Pump Operator; Welding Machine Operator; Heater Operator.	32.99	24.80 + a
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Group 16: Maintenance Engineer/Oiler.	32.32	24.80 + a
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Group 17: Portable asphalt plant operator; portable crusher plant operator; portable concrete plant operator.	36.76	24.80 + a
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Group 18: Power safety boat; vacuum truck; zim mixer; sweeper; (Minimum for any job requiring a CDL license).	34.26	24.80 + a
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-----PAINTERS (Including Drywall Finishing)-----

10a) Brush and Roller	34.62	21.80
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10b) Taping Only/Drywall Finishing	35.37	21.80
10c) Paperhanger and Red Label	34.12	21.05
10e) Blast and Spray	37.62	21.80
11) Plumber (excluding HVAC pipe installation) (Trade License required: P-1,2,6,7,8,9 J-1,2,3,4 SP-1,2)	43.62	32.06
12) Well Digger, Pile Testing Machine	37.26	24.05 + a
13) Roofer (composition)	37.60	20.65

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14) Roofer (slate & tile)	38.10	20.65
15) Sheetmetal Worker (Trade License required for HVAC and Ductwork: SM-1,SM-2,SM-3,SM-4,SM-5,SM-6)	37.98	38.31
16) Pipefitter (Including HVAC work) License required: S-1,2,3,4,5,6,7,8 B-1,2,3,4 D-1,2,3,4, G-1, G-2, G-8 & G-9)	(Trade	43.62 32.06

-----TRUCK DRIVERS-----

17a) 2 Axle	29.51	24.52 + a
17b) 3 Axle, 2 Axle Ready Mix	29.62	24.52 + a

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17c) 3 Axle Ready Mix	29.67	24.52 + a
17d) 4 Axle, Heavy Duty Trailer up to 40 tons	29.72	24.52 + a
17e) 4 Axle Ready Mix	29.77	24.52 + a
17f) Heavy Duty Trailer (40 Tons and Over)	29.98	24.52 + a
17g) Specialized Earth Moving Equipment (Other Than Conventional Type on-the-Road Trucks and Semi-Trailers, Including Euclids)	29.77	24.52 + a
18) Sprinkler Fitter (Trade License required: F-1,2,3,4)	43.92	15.84 + a

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19) Theatrical Stage Journeyman

25.76

7.34

## Project: Barn Roof Replacement

*Welders: Rate for craft to which welding is incidental.*

*\*Note: Hazardous waste removal work receives additional \$1.25 per hour for truck drivers.*

*\*\*Note: Hazardous waste premium \$3.00 per hour over classified rate*

***ALL Cranes: When crane operator is operating equipment that requires a fully licensed crane operator to operate he receives an extra \$4.00 premium in addition to the hourly wage rate and benefit contributions:***

***1) Crane handling or erecting structural steel or stone; hoisting engineer (2 drums or over)***

***2) Cranes (100 ton rate capacity and over) Bauer Drill/Caisson***

***3) Cranes (under 100 ton rated capacity)***

*Crane with 150 ft. boom (including jib) - \$1.50 extra*

*Crane with 200 ft. boom (including jib) - \$2.50 extra*

*Crane with 250 ft. boom (including jib) - \$5.00 extra*

*Crane with 300 ft. boom (including jib) - \$7.00 extra*

*Crane with 400 ft. boom (including jib) - \$10.00 extra*

All classifications that indicate a percentage of the fringe benefits must be calculated at the percentage rate times the "base hourly rate".

Apprentices duly registered under the Commissioner of Labor's regulations on "Work Training Standards for Apprenticeship and Training Programs" Section 31-51-d-1 to 12, are allowed to be paid the appropriate percentage of the prevailing journeymen hourly base and the full fringe benefit rate, providing the work site ratio shall not be less than one full-time journeyman instructing and supervising the work of each apprentice in a specific trade.

*The Prevailing wage rates applicable to this project are subject to annual adjustments each July 1st for the duration of the project.*

*Each contractor shall pay the annual adjusted prevailing wage rate that is in effect each July 1st, as posted by the Department of Labor.*

*It is the contractor's responsibility to obtain the annual adjusted prevailing wage rate increases directly from the Department of Labor's website.*

*The annual adjustments will be posted on the Department of Labor's Web page: [www.ct.gov/dol](http://www.ct.gov/dol). For those without internet access, please contact the division listed below.*

*The Department of Labor will continue to issue the initial prevailing wage rate schedule to the Contracting Agency for the project.*

*All subsequent annual adjustments will be posted on our Web Site for contractor access.*

*Contracting Agencies are under no obligation pursuant to State labor law to pay any increase due to the annual adjustment provision.*

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*Effective October 1, 2005 - Public Act 05-50: any person performing the work of any mechanic, laborer, or worker shall be paid prevailing wage*

All Person who perform work ON SITE must be paid prevailing wage for the appropriate mechanic, laborer, or worker classification.

All certified payrolls must list the hours worked and wages paid to All Persons who perform work ON SITE regardless of their ownership i.e.: (Owners, Corporate Officers, LLC Members, Independent Contractors, et. al)

Reporting and payment of wages is required regardless of any contractual relationship alleged to exist between the contractor and such person.

**~~Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clause (29 CFR 5.5 (a) (1) (ii)).**

Please direct any questions which you may have pertaining to classification of work and payment of prevailing wages to the Wage and Workplace Standards Division, telephone (860)263-6790.



