

**LEGAL NOTICE-ADVERTISEMENT**

**TOWN OF LEDYARD, CONNECTICUT**

**REQUEST FOR PROPOSALS**

**[LPS-2020-1](#)**

**Ledyard High School  
Asbestos Abatement Services  
February 27, 2020**

The Town of Ledyard will receive sealed bids for [Asbestos Abatement Services](#) until [2:00 PM](#) on [February 27, 2020](#). At that time proposals will be opened in public and read Aloud.

The documents comprising the Request for Proposals may be obtained from [Wayne Donaldson, Ledyard Public Schools, 4 Blonder Boulevard, Ledyard, CT 06339](#) during the hours of [8:00 AM – 3:00 PM](#) Monday through Friday or on the Town's website, [www.Ledyard.net](#). Click on [District, Finance, Bids/RFPs, 2020-21](#).

The Town of Ledyard reserves the rights to amend or terminate this Request for Proposals, accept all or any part of a proposal, reject all proposals, waive any informalities or non-material deficiencies in a proposal, and award the proposal to the proposer that, in the Town's judgment, will be in the Town's best interests

TOWN OF LEDYARD, CONNECTICUT

REQUEST FOR PROPOSALS FOR  
[LEDYARD HIGH SCHOOL](#)  
[ASBESTOS ABATEMENT](#)

Proposal Number: [LPS-2020-1](#)  
Proposal Opening Date: [February 27, 2020](#)  
Proposal Opening Time: [2:00 PM](#)  
Proposal Opening Place: [LEDYARD PUBLIC SCHOOLS, 4 BLONDER PARK ROAD,  
LEDYARD , CT 06339,  
CENTRAL OFFICE CONFERENCE ROOM](#)

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The Town of Ledyard is seeking proposals for Asbestos Abatement at Ledyard High School, located at 24 Gallup Hill Road, Ledyard, CT, to be completed before August 14, 2020

One (1) original and **two (2)** plus one (1) copy on a USB drive copies of sealed proposals must be received in the [Ledyard Public Schools, Central Office conference Room, 4 Blonders Boulevard, Ledyard, CT 06339](#) by the date and time noted above. The Town of Ledyard (the "Town") will not accept submissions by e-mail or fax. The Town will reject proposals received after the date and time noted above.

All interested parties MUST attend the Mandatory Pre-Proposal Conference Site Visit on [February 10, 2020 2:30 PM](#), at Ledyard High School, 24 Gallup Hill Road, Ledyard, CT, where access to the work area contained in the scope of this project shall be granted to those with proper documentation and protective equipment to enter the tunnels. For questions regarding these requirements, contact Samuel C. Kilpatrick III, via email: [samkilpatrick@ledyard.net](mailto:samkilpatrick@ledyard.net).

The documents comprising this Request for Proposals may be obtained from [Wayne Donaldson, Ledyard Public Schools, 4 Blonder Boulevard, Ledyard, CT 06339](#) during the hours of 8:00 AM – 3:00 PM Monday through Friday or on the Town's website, [www.Ledyard.net/purchasing](http://www.Ledyard.net/purchasing), under Bids and Requests for Proposals. **Each proposer is responsible for checking the Town's website to determine if the Town has issued any addenda and, if so, to complete its proposal in accordance with the RFP as modified by the addenda.**

Proposals must be held firm and cannot be withdrawn for sixty (60) calendar days after the opening date.

The Town reserves the rights to amend or terminate this Request for Proposals, accept all or any part of a proposal, reject all proposals, waive any informalities or non-material deficiencies in a proposal, and award the proposal to the proposer that, in the Town's judgment, will be in the Town's best interests.

This Request for Proposals (“RFP”) includes:

- Standard Instructions to Proposers
- Specifications
- Insurance Requirements
- Proposal Form
- Proposer’s Legal Status Disclosure
- Proposer’s Certification Concerning Equal Employment Opportunities and Affirmative Action Policy
- Hold Harmless Agreement
- Proposer’s Non Collusion Affidavit
- Proposer’s Statement of References
- State of Connecticut Bidders Qualification Statement
- State of Connecticut Contractor Verification
- Sample Contract
- Appendix A – Prevailing Wage Rates

## TOWN OF LEDYARD, CONNECTICUT

### STANDARD INSTRUCTIONS TO PROPOSERS

#### 1. INTRODUCTION

The Town of Ledyard (the "Town") is soliciting proposals for the **Ledyard High School (LHS) Asbestos Abatement**. This RFP is not a contract offer, and no contract will exist unless and until a written contract is signed by the Town and the successful proposer.

Interested parties should submit a proposal in accordance with the requirements and directions contained in this RFP. **Proposers are prohibited from contacting any Town employee, officer or official concerning this RFP, except as set forth in Section 6, below. A proposer's failure to comply with this requirement may result in disqualification.**

If there are any conflicts between the provisions of these Standard Instructions to Proposers and any other documents comprising this RFP, these Standard Instructions to Proposers shall prevail.

#### 2. RIGHT TO AMEND OR TERMINATE THE RFP OR CONTRACT

The Town may, before or after proposal opening and in its sole discretion, clarify, modify, amend or terminate this RFP if the Town determines it is in the Town's best interest. Any such action shall be effected by a posting on the Town's website, [www.ledyard.net](http://www.ledyard.net). **Each proposer is responsible for checking the Town's website to determine if the Town has issued any addenda and, if so, to complete its proposal in accordance with the RFP as modified by the addenda.**

If this RFP provides for a multi-year agreement, the Town also reserves the right to terminate the Contract at the end of the last fiscal year for which funds have been appropriated, and the Town shall have no obligation or liability to the successful proposer for any unfunded year or years.

### **3. KEY DATES**

Mandatory Pre-Proposal Conference or Site Visit:	<b>February 10, 2020 2:30 PM</b>
Proposal Opening:	February 27, 2020 2:00 PM
Phone Interviews (if necessary):	February 28, 2020 1:00 PM
Preliminary Notice of Award:	March 3, 2020 2:00 PM
Contract Execution:	March 16, 2020 2:00 PM
Pre-Construction Meeting:	March 31, 2020 10:00 AM

Preliminary Notice of Award, Contract Execution, and Pre-Construction Meeting dates are anticipated, not certain, dates.

### **4. OBTAINING THE RFP**

All documents that are a part of this RFP may be obtained from [Wayne Donaldson, Ledyard Public Schools, 4 Blonder Boulevard, Ledyard, CT 06339](#) during the hours of 8:00 AM – 3:00 PM Monday through Friday or on the Town's website, [www.Ledyard.net](http://www.Ledyard.net), click on District/Finance/Bids and RFPs.

### **5. PROPOSAL SUBMISSION INSTRUCTIONS**

Proposals must be received in the [Ledyard Public Schools, Central Office Conference Room, 4 Blonders Boulevard, Ledyard, CT 06339](#), prior to the date and time the proposals are scheduled to be opened publicly. Postmarks prior to the opening date and time do **NOT** satisfy this condition. The Town will not accept submissions by e-mail or fax. Proposers are solely responsible for ensuring timely delivery. The Town will **NOT** accept late proposals.

One (1) original and two (2) copies, one (1) copy on a USB drive of all proposal documents must be submitted in sealed, opaque envelopes clearly labeled with the proposer's name, the proposer's address, the words "**BID SUBMISSION,**" and the "**LEDYARD HIGH SCHOOL ASBESTOS ABATEMENT**", "**LPS-2020-1**" and "**OPENING February 27, 2020**". The Town may decline to accept proposals submitted in unmarked envelopes that the Town opens in its normal course of business. The Town may, but shall not be required to, return such proposal documents and inform the proposer that the proposal documents may be resubmitted in a sealed envelope properly marked as described above.

Proposal prices must be submitted on the Proposal Form included in this RFP. All blank spaces for proposal prices must be completed in ink or be typewritten; proposal prices must be stated in both words and figures. The person signing the Proposal Form must initial any errors, alterations or corrections on that form. Ditto marks or words such as "SAME" shall not be used in the Proposal Form.

Proposals may be withdrawn personally or in writing provided that the Town receives the withdrawal prior to the time and date the proposals are scheduled to be opened. Proposals are considered valid, and may not be withdrawn, cancelled or modified, for sixty (60) days after the opening date, to give the Town sufficient time to review the proposals, investigate the proposers' qualifications, secure any required municipal approvals, and execute a binding contract with the successful proposer.

An authorized person representing the legal entity of the proposer must sign the Proposal Form and all other forms included in this RFP.

## **6. QUESTIONS AND AMENDMENTS**

Questions concerning the process and procedures applicable to this RFP are to be submitted in **writing** (including by e-mail or fax) and directed **only to**:

Name: Wayne Donaldson  
Department: Board Of Education  
E-mail: [wdonaldson@ledyard.net](mailto:wdonaldson@ledyard.net)  
Fax: 860-464-8589

Questions concerning this RFP's Specifications are to be submitted in **writing** (including by e-mail or fax) and directed **only to**:

Name: Wayne Donaldson  
Department: Board of Education  
E-mail: [wdonaldson@ledyard.net](mailto:wdonaldson@ledyard.net)  
Fax: 860-464-8589

**Proposers are prohibited from contacting any other Town employee, officer or official concerning this RFP. A proposer's failure to comply with this requirement may result in disqualification.**

The appropriate Town representative listed above must receive any questions from proposers no later than seven (7) business days before the proposal opening date. That representative will confirm receipt of a proposer's questions by email. The Town will answer all written questions by issuing one or more addenda, which shall be a part of this RFP and the resulting Contract, containing all questions received as provided for above and decisions regarding same.

At least four (4) calendar days prior to proposal opening, the Town will post any addenda on the Town's website [www.ledyard.net/purchasing](http://www.ledyard.net/purchasing) **Each proposer is responsible for**

**checking the website to determine if the Town has issued any addenda and, if so, to complete its proposal in accordance with the RFP as modified by the addenda.**

No oral statement of the Town, including oral statements by the Town representatives listed above, shall be effective to waive, change or otherwise modify any of the provisions of this RFP, and no proposer shall rely on any alleged oral statement.

**7. ADDITIONAL INFORMATION**

The Town reserves the right, either before or after the opening of proposals, to ask any proposer to clarify its proposal or to submit additional information that the Town in its sole discretion deems desirable.

**8. COSTS FOR PREPARING PROPOSAL**

Each proposer's costs incurred in developing its proposal are its sole responsibility, and the Town shall have no liability for such costs.

**9. OWNERSHIP OF PROPOSALS**

All proposals submitted become the Town's property and will not be returned to proposers.

**10. FREEDOM OF INFORMATION ACT**

All information submitted in a proposal or in response to a request for additional information is subject to disclosure under the Connecticut Freedom of Information Act as amended and judicially interpreted. A proposer's responses may contain financial, trade secret or other data that it claims should not be public (the "Confidential Information"). A proposer must identify specifically the pages and portions of its proposal or additional information that contain the claimed Confidential Information by visibly marking all such pages and portions. Provided that the proposer cooperates with the Town as described in this section, the Town shall, to the extent permitted by law, protect from unauthorized disclosure such Confidential Information.

If the Town receives a request for a proposer's Confidential Information, it will promptly notify the proposer in writing of such request and provide the proposer with a copy of any written disclosure request. The proposer may provide written consent to the disclosure, or may object to the disclosure by notifying the Town in writing to withhold disclosure of the information, identifying in the notice the basis for its objection, including the statutory exemption(s) from disclosure. The proposer shall be responsible for defending any complaint brought in connection with the nondisclosure, including but not only appearing before the Freedom of Information Commission, and providing witnesses and documents as appropriate.

## 11. REQUIRED DISCLOSURES

Each proposer must, in its Proposal Form, make the disclosures set forth in that form. A proposer's acceptability based on those disclosures lies solely in the Town's discretion.

## 12. QUALIFICATIONS AND REFERENCES

Prospective bidders shall either hold a current DAS Contractor Prequalification Certificate", or include a signed and notarized Bidder's Qualification Statement and submit the Proposer's Statement of References form included in this RFP. Prospective bidders shall also provide three references of work completed in the past three years of comparable size and complexity.

## 13. LEGAL STATUS

If a proposer is a corporation, limited liability company, or other business entity that is required to register with the Connecticut Secretary of the State's Office, it must have a current registration on file with that office. The Town may, in its sole discretion, request acceptable evidence of any proposer's legal status. Each proposer must complete and submit the Proposer's Legal Status Disclosure form included in this RFP.

## 14. PROPOSAL (BID) SECURITY

Each proposal must be accompanied by a certified check of the proposer or a proposal (bid) bond with a surety acceptable to the Town in an amount equal to at least **TEN PERCENT (10%)** of the proposal amount. The proposal (bid) bond shall be written by a company or companies licensed to issue bonds in the State of Connecticut, which company or companies shall have at least an "A-" VIII policyholders rating as reported in the latest edition of Best Publication's Key Rating Guide. The successful proposer, upon its refusal or failure to execute and deliver the Contract, certificate(s) of insurance, W-9 form, performance security or other documents required by this RFP within **ten (10) business days** of written notification of preliminary award, unless the Town otherwise agrees in writing, shall forfeit to the Town, as liquidated damages for such failure or refusal, the security submitted with its proposal.

Upon the successful proposer's execution of the Contract in the form enclosed with this RFP, the Town shall return the proposal security to the successful proposer and to all other proposers.



## **15. PRESUMPTION OF PROPOSER'S FULL KNOWLEDGE**

Each proposer is responsible for having read and understood each document in this RFP and any addenda issued by the Town. A proposer's failure to have reviewed all information that is part of or applicable to this RFP, including but not only any addenda posted on the Town's website, shall in no way relieve it from any aspect of its proposal or the obligations related thereto.

Each proposer is deemed to be familiar with and is required to comply with all federal, state and local laws, regulations, ordinances, codes and orders that in any manner relate to this RFP or the performance of the work described herein.

By submitting a proposal, each proposer represents that it has thoroughly examined and become familiar with the scope of work outlined in this RFP, and it is capable of performing the work to achieve the Town's objectives. If applicable, each proposer shall visit the site, examine the areas and thoroughly familiarize itself with all conditions of the property before preparing its proposal.

## **16. SUBSTITUTION FOR NAME BRANDS**

The proposer must attach detailed information concerning deviations from any name brands specified in the RFP and explain in detail how the substitution compares with the name brand's specifications. The Town in its sole discretion shall decide whether the substitution is acceptable.

## **17. TAX EXEMPTIONS**

The Town is exempt from the payment of federal excise taxes and Connecticut sales and use taxes. Federal Tax Exempt #06-6001630.

## **18. INSURANCE**

The successful proposer shall, at its own expense and cost, obtain and keep in force at least the insurance listed in the Insurance Requirements that are a part of this RFP. The Town reserves the right to request from the successful proposer a complete, certified copy of any required insurance policy.

## **19. PERFORMANCE SECURITY**

The successful proposer shall furnish **a performance bond**, covering the faithful performance of the Contract (the "Performance Security"). The Performance Security shall be **the full amount of the Contract price** and in a form reasonably acceptable to the Town. **The Performance Security shall be issued by a company licensed by the State of Connecticut that has at least an "A-" VIII policyholders rating according to Best Publication's latest edition Key Rating Guide.** The cost of the Performance Security shall be included in the proposal price.

Should the submitted proposal exceed \$100,000 in aggregate price, in addition to the Performance Security, the successful proposer shall furnish a bond covering the successful proposer's payment to its subcontractors and suppliers of all obligations arising under the Contract (the "Payment Bond"). The Payment Bond shall be (a) in the full amount of the Contract price; (b) in a form reasonably acceptable to the Town; and (c) issued by a company licensed by the State of Connecticut that has at least an "A-" VIII policyholders rating according to Best Publication's latest edition Key Rating Guide. The cost of the Payment Bond shall be included in the proposal price.

## **20. DELIVERY ARRANGEMENTS**

The successful proposer shall deliver, handle, and maintain control of all items that are the subject of the RFP, at its sole cost and expense, to, from, and within the location(s) listed in the Specifications.

## **21. AWARD CRITERIA; SELECTION; CONTRACT EXECUTION**

All proposals will be publicly opened and read aloud as received on the date, at the time, and at the place identified in this RFP. Proposers may be present at the opening.

The Town reserves the right to correct, after proposer verification, any mistake in a proposal that is a clerical error, such as a price extension, decimal point error or FOB terms. If an error exists in an extension of prices, the unit price shall prevail. In the event of a discrepancy between the price quoted in words and in figures, the words shall control.

The Town reserves the rights to accept all or any part of a proposal, reject all proposals, and waive any informalities or non-material deficiencies in a proposal. The Town also reserves the right, if applicable, to award the purchase of individual items under this RFP to any combination of separate proposals or proposers.

The Town will accept the proposal that, all things considered, the Town determines is in its best interests. Although price will be an important factor, it will not be the only basis for award. Due consideration may also be given to a proposer's experience, references, service, ability to respond promptly to requests, past performance, and other criteria relevant to the Town's interests, including compliance with the procedural requirements stated in this RFP.

The Town will not award the proposal to any business that or person who is in arrears or in default to the Town with regard to any tax, debt, contract, security or any other obligation.

The Town will select the proposal that it deems to be in the Town's best interest and issue a Preliminary Notice of Award to the successful proposer. The award may be subject to further discussions with the proposer. **The making of a preliminary award to a proposer does not provide the proposer with any rights and does not impose**

**upon the Town any obligations. The Town is free to withdraw a preliminary award at any time and for any reason. A proposer has rights, and the Town has obligations, only if and when a Contract is executed by the Town and the proposer.**

If the proposer does not execute the Contract within ten (10) business days of the date of the Preliminary Notice of Award, unless extended by the Town, the Town may call any proposal security provided by the proposer and may enter into discussions with another proposer.

The Preliminary Notice of Award and Contract Execution dates in Section 3's Key Dates are anticipated, not certain, dates.

## **22. AFFIRMATIVE ACTION, AND EQUAL OPPORTUNITY**

Each proposer must submit a completed Proposer's Certification Concerning Equal Employment Opportunities and Affirmative Action Policy form included with this RFP. Proposers with fewer than ten (10) employees should indicate that fact on the form and return the form with their proposals.

## **23. NONRESIDENT REAL PROPERTY CONTRACTORS**

If the successful proposer is a "nonresident contractor" as defined in Conn. Gen. Stat. § 12-430(7)(A) as amended, it shall comply fully with the provisions of § 12-430(7) and, prior to execution of the Contract, shall furnish the Town with proof that it is a "verified contractor" within the meaning of General Statutes Section 12-430(7) or that it has posted a bond with the Commissioner of Revenue Services in compliance with General Statutes Section 12-430(7). The successful proposer agrees to defend, indemnify, and hold harmless the Town, its employees, officers, officials, agents, volunteers and independent contractors, including any of the foregoing sued as individuals (collectively, the "Town Indemnified Parties"), from any and all taxes, interest and penalties that the State of Connecticut asserts are due with respect to the successful proposer's activities under the Contract.

The successful proposer shall also be required to pay any and all attorney's fees incurred by the Town Indemnified Parties in enforcing any of the successful proposer's obligations under this section, whether or not a lawsuit or other proceeding is commenced, which obligations shall survive the termination or expiration of the Contract.

## **24. COMPLIANCE WITH IMMIGRATION LAWS**

By submitting a proposal, each proposer confirms that it has complied, and during the term of the Contract will comply, with the Immigration Reform and Control Act (“IRCA”) and that each person it provides under the Contract will at all times be authorized for employment in the United States of America. Each proposer confirms that it has a properly completed Employment Eligibility Verification, Form I-9, for each person who will be assigned under the Contract and that it will require each subcontractor, if any, to confirm that it has a properly completed Form I-9 for each person who will be assigned under the Contract.

The successful proposer shall defend, indemnify, and hold harmless the Town, its employees, officers, officials, agents, volunteers and independent contractors, including any of the foregoing sued as individuals (collectively, the “Town Indemnified Parties”), against any and all proceedings, suits, actions, claims, damages, injuries, awards, judgments, losses or expenses, including fines, penalties, punitive damages, attorney’s fees and costs, brought or assessed against, or incurred by, the Town Indemnified Parties related to or arising from the obligations under IRCA imposed upon the successful proposer or its subcontractor. The successful proposer shall also be required to pay any and all attorney’s fees and costs incurred by the Town Indemnified Parties in enforcing any of the successful proposer’s obligations under this provision, whether or not a lawsuit or other proceeding is commenced, which obligations shall survive the termination or expiration of the Contract.

## **25. NON COLLUSION AFFIDAVIT**

Each proposer shall submit a completed Proposer’s Non Collusion Affidavit that is part of this RFP.

## **26. CONTRACT TERMS**

The following provisions will be mandatory terms of the Town’s Contract with the successful proposer. If a proposer is unwilling or unable to meet any of these Contract Terms, the proposer must disclose that inability or unwillingness in its Proposal Form (see Section 11 of these Standard Instructions to Proposers):

### **a. DEFENSE, HOLD HARMLESS AND INDEMNIFICATION**

The successful proposer agrees, to the fullest extent permitted by law, to defend, indemnify, and hold harmless the Town, its employees, officers, officials, agents, volunteers and independent contractors, including any of the foregoing sued as individuals (collectively, the “Town Indemnified Parties”), from and against all proceedings, suits, actions, claims, damages, injuries, awards, judgments, losses or expenses, including attorney’s fees, arising out of or relating, directly or indirectly, to the successful proposer’s malfeasance, misconduct, negligence or failure to meet its obligations under the RFP or the Contract. The successful proposer’s obligations under this section shall not be limited in any way by any limitation on the amount or type of the successful proposer’s insurance. **Nothing in this section shall obligate the successful**

proposer to indemnify the Town Indemnified Parties against liability for damage arising out of bodily injury to persons or damage to property caused by or resulting from the negligence of the Town Indemnified Parties.

In any and all claims against the Town Indemnified Parties made or brought by any employee of the successful proposer, or anyone directly or indirectly employed or contracted with by the successful proposer, or anyone for whose acts or omissions the successful proposer is or may be liable, the successful proposer's obligations under this section shall not be limited by any limitation on the amount or type of damages, compensation or benefits payable by the successful proposer under workers' compensation acts, disability benefit acts, or other employee benefits acts.

The successful proposer shall also be required to pay any and all attorney's fees incurred by the Town Indemnified Parties in enforcing any of the successful proposer's obligations under this section, which obligations shall survive the termination or expiration of this RFP and the Contract.

**As a municipal agency of the State of Connecticut, the Town will NOT defend, indemnify, or hold harmless the successful proposer.**

b. ADVERTISING

The successful proposer shall not name the Town in its advertising, news releases, or promotional efforts without the Town's prior written approval.

If it chooses, the successful proposer may list the Town in a Statement of References or similar document required as part of its response to a public procurement. The Town's permission to the successful proposer to do so is not a statement about the quality of the successful proposer's work or the Town's endorsement of the successful proposer.

c. W-9 FORM

The successful proposer must provide the Town with a completed W-9 form before Contract execution.

d. PAYMENTS

Proposers are encouraged to offer discounts for early payment. All other payments are to be made 30 days after the appropriate Town employee receives and approves the invoice, unless otherwise specified in the Specifications.

In each of its contracts with subcontractors or materials suppliers, the successful proposer shall agree to pay any amounts due for labor performed or materials furnished not later than thirty (30) days after the date the successful proposer receives payment from the Town that encompasses the labor performed or materials furnished by such subcontractor or material supplier. The successful proposer shall also require in each of its contracts with subcontractors that such subcontractor shall, within thirty (30) days of

receipt of payment from the successful proposer, pay any amounts due any sub-contractor or material supplier, whether for labor performed or materials furnished.

Each payment application or invoice shall be accompanied by a statement showing the status of all pending change orders, pending change directives and approved changes to the Contract. Such statement shall identify the pending change orders and pending change directives, and shall include the date such change orders and change directives were initiated, additional cost and/or time associated with their performance and a description of any work completed. The successful proposer shall require each of its subcontractors and suppliers to include a similar statement with each of their payment applications or invoices.

e. TOWN INSPECTION OF WORK

The Town may inspect the successful proposer's work at all reasonable times. This right of inspection is solely for the Town's benefit and does not transfer to the Town the responsibility for discovering patent or latent defects. The successful proposer has the sole and exclusive responsibility for performing in accordance with the Contract.

f. REJECTED WORK OR MATERIALS

The successful proposer, at its sole cost and expense, shall remove from the Town's property rejected items, commodities and/or work within 48 hours of the Town's notice of rejection. Immediate removal may be required when safety or health issues are present.

g. MAINTENANCE AND AVAILABILITY OF RECORDS

The successful proposer shall maintain all records related to the work described in the RFP for a period of five (5) years after final payment under the Contract or until all pending Town, state and federal audits are completed, whichever is later. Such records shall be available for examination and audit by Town, state and federal representatives during that time.

h. SUBCONTRACTING

Prior to entering into any subcontract agreement(s) for the work described in the Contract, the successful proposer shall provide the Town with written notice of the identity (full legal name, street address, mailing address (if different from street address), and telephone number) of each proposed subcontractor. The Town shall have the right to object to any proposed subcontractor by providing the successful proposer with written notice thereof within seven (7) business days of receipt of all required information about the proposed subcontractor. If the Town objects to a proposed subcontractor, the successful proposer shall not use that subcontractor for any portion of the work described in the Contract.

All permitted subcontracting shall be subject to the same terms and conditions as are applicable to the successful proposer. The successful proposer shall remain fully and solely liable and responsible to the Town for performance of the work described in the

Contract. The successful proposer also agrees to promptly pay each of its subcontractors within thirty (30) days of receipt of payment from the Town or otherwise in accordance with law. The successful proposer shall assure compliance with all requirements of the Contract. The successful proposer shall also be fully and solely responsible to the Town for the acts and omissions of its subcontractors and of persons employed, whether directly or indirectly, by its subcontractor(s).

i. PREVAILING WAGES

State law may require that wages paid on an hourly basis to any person performing the work of any mechanic, laborer or worker under the Contract and the amount of payment or contribution paid or payable on behalf of each such person to any employee welfare fund, as defined in Conn. Gen. Stat. § 31-53, as amended, shall be at a rate equal to the rate customary or prevailing for the same work in the same trade or occupation in the Town. A successful proposer who is not obligated by agreement to make payment or contribution on behalf of such persons to any such employee welfare fund shall pay to each mechanic, laborer or worker as part of such person's wages the amount of payment or contribution for such person's classification on each pay day. Upon Contract award, the successful proposer must certify under oath to the State Labor Commissioner the pay scale to be used by the successful proposer and its subcontractors.

j. PREFERENCES

The successful proposer shall comply with the requirements of Conn. Gen. Stat. § 31-52(b), as amended. Specifically, the successful proposer agrees that in the employment of labor to perform the work under the Contract, preference shall be given to citizens of the United States who are, and have been continuously for at least three (3) months prior to the date of the Contract, residents of the labor market area (as established by the State of Connecticut Labor Commissioner) in which such work is to be done, and if no such qualified person is available, then to citizens who have continuously resided in Windham County for at least three (3) months prior to the date hereof, and then to citizens of the State who have continuously resided in the State at least three (3) months prior to the date of the Contract.

k. WORKERS COMPENSATION

Prior to Contract execution, the Town will require the tentative successful proposer to provide a current statement from the State Treasurer that, to the best of her knowledge and belief, as of the date of the statement, the tentative successful proposer was not liable to the State for any workers' compensation payments made pursuant to Conn. Gen. Stat. § 31-355.

l. SAFETY

The successful proposer and each of its permitted subcontractors shall furnish proof that each employee performing the work of a mechanic, laborer or worker under the Contract has completed a course of at least ten (10) hours in construction safety and health approved by the federal Occupational Safety and Health Administration or has completed

a new miner training program approved by the Federal Mine Safety and Health Administration. Such proof shall be provided with the certified payroll submitted for the first week each such employee, mechanic, laborer, or worker begins work under the Contract.

m. COMPLIANCE WITH LAWS

The successful proposer shall comply with all applicable laws, regulations, ordinances, codes and orders of the United States, the State of Connecticut and the Town related to its proposal and the performance of the work described in the Contract.

n. LICENSES AND PERMITS

The successful proposer certifies that, throughout the Contract term, it shall have and provide proof of all approvals, permits and licenses required by the Town and/or any state or federal authority. The successful proposer shall immediately and in writing notify the Town of the loss or suspension of any such approval, permit or license.

o. CESSATION OF BUSINESS/BANKRUPTCY/RECEIVERSHIP

If the successful proposer ceases to exist, dissolves as a business entity, ceases to operate, files a petition or proceeding under any bankruptcy or insolvency laws or has such a petition or proceeding filed against it, the Town has the right to terminate the Contract effective immediately. In that event, the Town reserves the right, in its sole discretion as it deems appropriate and without prior notice to the successful proposer, to make arrangements with another person or business entity to provide the services described in the Contract.

p. AMENDMENTS

The Contract may not be altered or amended except by the written agreement of both parties.

q. ENTIRE AGREEMENT

It is expressly understood and agreed that the Contract contains the entire agreement between the parties, and that the parties are not, and shall not be, bound by any stipulations, representations, agreements or promises, oral or otherwise, not printed or inserted in the Contract or its attached exhibits.

r. VALIDITY

The invalidity of one or more of the phrases, sentences or clauses contained in the Contract shall not affect the remaining portions so long as the material purposes of the Contract can be determined and effectuated.



**END OF STANDARD INSTRUCTIONS TO PROPOSER TOWN OF  
LEDYARD, CONNECTICUT**

**SPECIFICATIONS FOR  
[LHS ASBESTOS ABATEMENT](#)**

**PROPOSAL #LPS-2020-1**

**STATE GRANT/LOAN AGREEMENT**

The goods and services described in this Request [are](#) reimbursable in part from the State. By submitting a proposal, each proposer agrees to be bound by and comply with each and every applicable provision of the DAS State School Construction Grant procedures and applicable agreements. DAS State School Construction Grant procedures and applicable agreements **are available at** <http://www.ct.gov/dcs/cwp/view.asp?a=4217&q=507514>

s. CONNECTICUT LAW AND COURTS

The Contract shall be governed by and construed in accordance with the internal laws (as opposed to the conflicts of law provisions) of the State of Connecticut, and the parties irrevocably submit in any suit, action or proceeding arising out of the Contract to the jurisdiction of the United States District Court for the District of Connecticut or of any court of the State of Connecticut, as applicable.

t. NON-EMPLOYMENT RELATIONSHIP

The Town and the successful proposer are independent parties. Nothing contained in the Contract shall create, or be construed or deemed as creating, the relationships of principal and agent, partnership, joint venture, employer and employee, and/or any relationship other than that of independent parties contracting with each other solely for the purpose of carrying out the terms and conditions of the Contract. The successful proposer understands and agrees that it is not entitled to employee benefits, including but not limited to workers compensation and employment insurance coverage, and disability. The successful proposer shall be solely responsible for any applicable taxes.

CHANGE ORDERS

Under no circumstances shall the proposer anticipate or plan upon change orders to the existing specification. If the contractor believes the specification does not adhere to the scope and sequence of their proposed work, the contractor should take exception to the bid specification under the bid response Exceptions to or Modifications or Clarifications of the RFP. Please refer to the draft contract for more information on Change Orders

January 31, 2019

**ASBESTOS ABATEMENT SPECIFICATION  
AND  
PROJECT DESIGN**

*For*

Tunnels

**State Project No. 072-0095 CV**

Ledyard High School  
24 Gallup Hill Road  
Ledyard, CT 06339  
**860-464-9255**

Prepared for:

Ledyard Public Schools  
4 Blonder Boulevard  
Ledyard, CT 06339

Summer 2019

Prepared By and **Acting Asbestos Management Coordinator:**

Christopher J. Eident, CIH, CSP, RS  
Licensed Asbestos Project Designer  
800.247.7724

Mystic Air Quality Consultants, Inc.  
1204 North Road, Groton, CT. 06340

Chris Eident, CSP, CIH, Asbestos Project Designer  
State of Connecticut License Number 000015

**Building Official:** Randy Dalton

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

**Fire Marshal:** James Mann

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

**Section 504 Official:** Mary-Beth Hubbard

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

**Local Health Official:** Stephen Mansfield

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



**SUMMARY: The work involves removing all asbestos pipe fitting insulation and all damaged and stained fiberglass pipe insulation including all debris from the throughout all tunnels in the school using full containment asbestos work practices. No school activities will be allowed during the entire abatement.**

## PART 1 General

- 1.1 Scope - This specification covers the abatement of asbestos dust and debris from disturbance of building materials that have previously been determined to contain asbestos.
  - 1.1.1 Asbestos has been classified by the Federal Government as a carcinogenic (cancer producing) material. To comply with governmental requirements and minimize employee exposure, controls are necessary wherever there is a potential for exposure to airborne fibers.
  - 1.1.2 All work and work areas shall be in conformance with the requirements of EPA regulations (40 CFR Part 763, when applicable), NESHAPS regulations (40 CFR 61 Subpart M) OSHA regulations (29 CFR 1910.1001 and 1926.1101), and Connecticut Department of Public Health Asbestos Regulations.
  - 1.1.3 Deviations from these specifications require the written approval of the building owner.
  - 1.1.4 The contractor must be on the approved list of licensed asbestos abatement contractors on file at the State of Connecticut Department of Public Health. The Contractor must also demonstrate on time completion for his/her last three contracts. You must provide the names and phone numbers of the last three building owners for whom you have performed asbestos removals.
  - 1.1.5 The Contractor selected to execute the work shall, before the actual execution, notify the Asbestos Consultant of any discrepancies or errors that might have been discovered in the specifications for the purpose of making such corrections or adjustments as may be necessary. If it should appear that the work called for is not in accordance with State, local, or Federal laws or ordinances, the Contractor shall immediately notify the Asbestos Consultant before proceeding. No work shall be performed if uncertainties exist.
  - 1.1.6 **There will be a mandatory pre-bid meeting at the site.** Anyone entering the tunnels must have asbestos awareness training, and must wear full Tyvek coveralls and must wear P-100 respirators (and must be fit tested and medically qualified to wear respirators).

## 1.2 DESCRIPTION OF WORK

### PROJECT:

**The work involves removing and replacing all asbestos pipe and pipe fitting insulation and damaged or contaminated fiberglass insulation (except the newer straight run white fiberglass insulation) in the tunnels using full containment asbestos work practices. The concrete tunnels ceilings vary in height are about 4-8 feet high and total 2,200 feet in length.** There is approximately 4,200 feet of pipe insulation to be abated and about 500 fittings plus debris on the concrete floors. **The Contractors must make their own estimates of exact quantities.** (See attached drawing and photos). Primary access is through the Boiler Room and there are other access sites in the building. There is standing water in some areas of the tunnels. The contractor will have to pump out any water through 5 micron filters to the septic system prior to setting up the

containments. The contractor must remove (or clean) any extraneous contaminated buildings materials such as extra cement blocks found in the tunnels (see photos). See attached drawing and full size drawings are available.

No school activities will be allowed during the abatement (a letter from the Superintendent must be on file stating no children will be allowed in the school during abatement).

**A licensed Asbestos Project Monitor representing the building owner shall be on-site during all abatement activities.**

The asbestos abatement contractor shall create an appropriately demarcated regulated area for this work in compliance with OSHA's 29 CFR 1926.1101. The regulated areas will consist of a negative pressure enclosure with a contiguous de-contamination personal entry system with posting to prevent unauthorized entry.

1.2.1.1 The work specified herein shall be the removal, encapsulation and/or enclosure of asbestos-containing materials by persons who are knowledgeable, qualified, and trained in the removal, treatment, handling, and disposal of asbestos-containing material, and the subsequent cleaning of the affected environment. These persons must comply with Federal and State regulations which mandate work practices, and be capable of performing the work of this contract.

1.2.1.2 The contractor shall supply all labor, materials, equipment, services, insurance and incidentals which are necessary or required to perform the work in accordance with the applicable governmental regulations and these specifications.

1.2.1.3 The Owner and/or Asbestos Contractor will retain a Project Monitor for their own interests.

### 1.3 TERMINOLOGY

1.3.1 Abatement - Procedures to control fiber release from asbestos-containing materials; includes removal, encapsulation, and enclosure.

1.3.2 Airlock - A system for permitting ingress and egress while assuring air movement to a contaminated area from an uncontaminated area.

1.3.3 Air Monitoring - The process of measuring the fiber content of a specific volume of air in a stated period of time.

1.3.4 Project Monitor – Project monitor means any licensed asbestos consultant who is certified as a project monitor and who functions as an on-site representative of the facility owner or other persons by overseeing the activities of the asbestos abatement contractor.

1.3.5 Amended Water – Clean water to which a surfactant has been added.

1.3.6 Asbestos - Asbestos is a name given to a number of naturally occurring fibrous \*silicates, the word asbestos being derived from the Greek word, similarly spelled, meaning inextinguish- able. There are two main varieties of asbestos; the serpentine form characterized by long, soft, flexible, and finely-polished strands which may be woven into a cloth, of which chrysotile is the primary representative, and the amphiboles, which occur as straight, needle- like fibers, of which crocidolite, amosite, anthophyllite, tremolite, and actinolite are the primary examples.

1.3.7 Asbestos Control Area - An area where asbestos abatement operations are performed which is isolated by physical boundaries to prevent the spread of asbestos dust, fibers, or debris.

- 1.3.8 Asbestos Fibers - Those particles with a length greater than five (5) micrometers (microns), and a length to diameter ratio (aspect ratio) of 3.1 or greater.
- 1.3.8.1 Asbestos Fibers Permissible Exposure Limit (PEL) - The employer shall ensure that no employee is exposed to an airborne concentration of asbestos, tremolite, anthophyllite, actinolite, or a combination of these materials in excess of 0.1 fibers per cubic centimeter of air as an eight (8) hour time weighted average (TWA) as determined by the method prescribed in appendix A to OSHA regulations 1910.1001 and 1926.1101, or by an equivalent method.
- 1.3.9 Authorized Visitor - Any person authorized by the Performing Party's Representative to enter the premises.
- 1.3.10 Building Owner - The owner or his authorized representative, which in this case is referred to as Performing Party's Representative.
- 1.3.11 Clean Room - An uncontaminated area or room which is a part of the worker decontamination enclosure with provisions for storage of workers' street clothes and protective equipment.
- 1.3.12 Curtained Doorway - A device to allow ingress or egress from one (1) room to another while permitting minimal air movement between the rooms, typically constructed by placing two (2) overlapping sheets of plastic over an existing or temporarily framed doorway, securing each along the top of the doorway, securing the vertical edge of one (1) sheet along one (1) vertical side of the doorway, and securing the vertical edge of the other sheet along the opposite vertical side of the doorway. Two (2) curtained doorways spaced a minimum of six (6) feet apart form an airlock.
- 1.3.13 Decontamination Enclosure System - A series of connected rooms, with curtained doorways between any two (2) adjacent rooms, for the decontamination of workers and of materials and equipment.
- 1.3.17 Equipment Decontamination Enclosure - That portion of a decontamination enclosure system designed for controlled transfer of materials and equipment, typically consisting of a washroom and a holding area.
- 1.3.18 Equipment Room - A contaminated area/room which is part of the worker decontamination enclosure with provisions for storage of contaminated clothing and equipment.
- 1.3.19 Fixed Object - A unit of equipment or furniture in the work areas which cannot be removed from the work area.
- 1.3.20 Friable Asbestos Material - Any material that contains more than 1% asbestos by weight, that can be crumbled, pulverized or reduced to powder when dry, by hand pressure, and which releases asbestos particles to the environment. Covering by an impermeable, intact surface precludes friability.
- 1.3.22 HEPA Filter - A high efficiency particulate air (HEPA) filter in compliance with ANSI Z9.2- 1979.
- 1.3.23 HEPA Vacuum Equipment - Vacuum equipment with a HEPA filter system for filtering the effluent air from the unit.
- 1.3.24 Holding Area - A chamber in the equipment decontamination enclosure located between the washroom and an uncontaminated area. The holding area comprises an air lock.
- 1.3.25 Mini-Enclosure - Not Applicable
- 1.3.26 Movable Object - A unit of equipment or furniture in the work area which can be removed from the work area.

1.3.27 Negative Air Pressure Equipment - A portable local exhaust system equipped with HEPA filtration used to create negative pressure in a contaminated area (negative with respect to adjacent uncontaminated areas) and capable of maintaining a constant, low velocity air flow into contaminated from adjacent uncontaminated areas.

1.3.27 NESHAP - National Emission Standards for Hazardous Air Pollutants, including asbestos, administered by the EPA.

1.3.29 NIOSH - National Institute for Occupational Safety and Health.

1.3.30 Plasticize - To cover floors and walls with plastic sheeting as herein specified.

1.3.31 Removal - All herein specific procedures necessary to remove asbestos-containing materials from the designated areas and to dispose of these materials at an acceptable site.

1.3.36 Wet Cleaning - The process of eliminating asbestos contamination from building surfaces and objects by using cloths, mops, or other cleaning tools which have been dampened with water, and by afterwards disposing of these cleaning items as asbestos contaminated waste.

1.3.37 Work Area - Designated rooms, spaces, or areas of the project in which asbestos abatement actions are to be undertaken or which may become contaminated as a result of such abatement actions. A contained Work Area is an area which has been sealed, plasticized, and equipped with a decontamination enclosure system. A non-contained Work Area is an isolated or controlled access work area which has not been plasticized nor equipped with a decontamination enclosure system.

1.3.38 Worker Decontamination Enclosure System - That portion of a decontamination enclosure system designated for controlled passage of workers, and other personnel and authorized visitors, typically consisting of a Clean Rm., a Shower Rm. & an Equipment Rm.

1.4 APPLICABLE DOCUMENTS REFERENCES - The current issue of each document shall govern. Where conflict among requirements shall apply, the most stringent will take precedence.

#### 1.4.1 REFERENCES -

1.4.1.1 EPA 560/5-85-024, June 1985, Guidance for Controlling Friable Asbestos-Containing Material in Buildings. ("Purple Book").

1.4.1.2 EPA 20T-2003, July 1990, Managing Asbestos in Place: A Building Owner's Guide to Operations and Maintenance Programs for Asbestos-Containing Materials. ("Green Book").

1.4.1.3 NBS (National Bureau of Standards) 83-25688 Guidelines for Assessment and Abatement of Asbestos-Containing Materials in Buildings.

1.4.2.1 Title 29 Code of Federal Regulations, Part 1910.1001 and 1926.1101 cover asbestos. Part 1910.134 - covers respirators use. Occupational Safety and Health Administration (OSHA), U.S. Department of Labor.

1.4.2.2 Title 40, Code of Federal Regulations, part 61, Subparts A and E, National Emission Standards for Hazardous Air Pollutants. U.S. Environmental Protection Agency (EPA).

1.4.2.3 State of Connecticut Department of Public Health, "Licensure & Training Requirements for Persons Engaged in Asbestos Abatement

and Asbestos Consultation Services” (20-440-1 through 20-440-9).

1.4.2.4 State of Connecticut Department of Public Health and Addiction Services, “Standard for Asbestos Abatement” (19a-332a-1 through 19a-332a-16).

1.4.2.5 Title 40, Code of Federal Regulations, part 763, Subpart (Schools) E, Asbestos- Containing Materials in Schools, (ASHERA), when applicable

1.4.2.7 State of Connecticut Department of Public Health Asbestos Containing Materials In-Schools Rule, which is applicable

1.4.2.8 All State, County, and City codes and ordinances as applicable.

1.4.2.9 National Codes and Standards

A. ASTM-American Society for Testing and Materials

B. ANSI-American National Standards Institute

1.ANSI Z9.2 Fundamentals Governing the Design and Operation of Local Exhaust Systems.

C. ULI-Underwriters Laboratories Inc.

1.5 **SUBMITTALS AND NOTICES**

1.5.1 Prior to Commencement of Work:

1.5.1.1 Submit notification to the following agencies in the stipulated amount of time before work commences on the project(Please note that any notifications shall be submitted to Building Owner for review prior to submittal to any outside agencies):

A. Submit notification to the Regional USEPA, Coordinator, not fewer than ten working (10) days before work commences on the project .

Director, Enforcement Division  
Air & Hazardous Materials Division  
Pesticides & Toxic Substances Branch  
USEPA Region 1  
JFK Federal Building  
Boston, Mass. 02203

B. Send written notice of proposed abatement work with project particulars as applicable to Environmental Health Section, Department of Public Health, State of Connecticut, not fewer than ten (10) working days before work commences on the project.

Chief - Environmental Health Services  
Department of Public Health  
Indoor Air Program - Asbestos & Radon  
410 Capitol Avenue MS# 12 AIR  
Hartford, CT 06134

For asbestos abatement projects from which asbestos waste will be disposed of in the State of Connecticut -



A. Send written notice of proposed abatement work with project particulars as applicable to Environmental Health Section, Department of Public Health, State of Connecticut, not fewer than ten (10) working days before work commences on the project.

Chief - Environmental Health Services  
Department of Public Health  
Indoor Air Program - Asbestos & Radon  
410 Capitol Avenue MS# 51AIR  
Hartford, CT 06134

For asbestos abatement projects from which asbestos waste will be disposed of in the State of Connecticut -

Department of Energy and Environmental Protection  
79 Elm Street  
Hartford, CT 06106-5127

The minimum information required on all of the submittals includes the following:

- (1) The name, address and telephone number of the asbestos Contractor
- (2) The name, address and telephone number of the facility owner;
- (3) The exact location of the facility;
- (4) The nature of the asbestos abatement;
- (5) The type of asbestos abatement activity;
- (6) A description of the facility including the size, age and use of the facility;
- (7) The amount of asbestos-containing material to be removed, enclosed or encapsulated or contained in the facility or part thereof to be demolished;
- (8) The scheduled starting and completion dates;
- (9) A description of the work practices to be followed as per RCSA Section 19a-332a-5 to Section 19a-332a-13;
- (10) The name and the location of the authorized asbestos disposal facility where asbestos-containing materials will be disposed.

1.5.1.3 Submit proof satisfactory to the Owner that all required permits, site locations, arrangements for transport and disposal of asbestos-containing or contaminated materials, supplies, and the like have been obtained.

1.5.1.6 Submit documentation to the Owner indicating that each employee has instruction on the hazards of asbestos exposure, on use and fitting of respirators, on protective dress, on use of showers, on entry and exit from work areas, and on all aspects of work procedures and protective measures and understands this instruction. Also submit verification that all employees have received medical examinations and appropriate fit testing as required by OSHA regulations.

1.5.1.6.1 Please note: The State of Connecticut and EPA Model Accreditation Plan requires each worker and supervisor to have copies of his or her initial training course certificate, current refresher training course certificate and State of Connecticut issued worker or supervisor certificate.

1.5.1.7 Post signs in and around the Work Area to comply with OSHA standard 29 CFR 1910.1001 and 1926.1101. Post one (1) copy of each of the following documents at the work site:

Title 29, Code of Federal Regulations, Part  
1910.1001 and 1926.1101 OSHA Asbestos Standards  
Title 40, Code of Federal Regulations, Part 61,  
Subpart M, National Emission Standard for  
Hazardous Air Pollutants  
Regulations of Connecticut State Agencies 19a-332a-1 to 16;  
20-440-1 to 20-440-9; 20-441; 19a-332e-1 to 19a-332e-2  
“Connecticut Asbestos-Containing Materials in School 19a-332e-2 to 19a-333-13”

- 1.5.1.8 The Owner and contractor must agree in writing on building and fixture condition prior to commencement of work. A photographic or videotaped record is required, unless waived by the Owner or Architect.
- 1.5.1.9 Submit manufacturer’s certification that vacuum, negative air pressure equipment, and other local exhaust/ventilation equipment conform to ANSI Z9.2-1979.
- 1.5.1.10 When rental equipment is to be used in removal areas or to transport waste materials, a copy of the written notification provided to the rental company informing them of the nature of use of the rented equipment shall be submitted to the Owner.
- 1.6 **PERSONAL PROTECTION**
  - 1.6.1 Prior to commencement of work, the workers shall be instructed and shall be knowledgeable in the use of asbestos abatement personal protective equipment.
  - 1.6.2 Respiratory protection shall meet the requirements of OSHA as presented in 29 CFR titled “Respiratory Protection” and CFR 1910.1001, and 1926.1101 titled “Asbestos”.
    - 1.6.2.1 The employer shall select and provide at no cost to the employee respirators which will provide adequate protection to the employee.
    - 1.6.2.2 Any feasible combination of engineering controls, work practices, and personal protective equipment and devices, may be used to reduce personnel exposure to asbestos.
    - 1.6.2.3 Proof that the average airborne concentration of asbestos fibers an employee will confront will not exceed the allowable limits shown above for the various types of respiratory devices must be determined by a project monitor retained by the contractor by applying sound scientific and/or engineering principles. An acceptable method would be through measuring exposures under all the various conditions that will be encountered by collecting personal samples of airborne asbestos within the affected employees’ breathing zones. Results of such studies shall be maintained at the work site.
  - 1.6.3 All individuals entering the Work Area shall wear prescribed protective clothing and respirators until the asbestos removal areas have passed clearance tests.
  - 1.6.4 Respiratory protection shall be worn by all person potentially exposed to asbestos from the initiation of the asbestos abatement project until all areas have been given clearance. Clearance shall be obtained by visual inspection and air monitoring conducted by the Project Monitor.
  - 1.6.5 Protective Clothing - Special clothing such as coveralls or whole body clothing,

head coverings, gloves, and foot coverings shall be provided and worn by personnel in work areas where concentrations of asbestos fibers in the air exceed the permissible ceiling concentration established by OSHA. The protective clothing and footwear shall be left in the Contaminated Equipment Room until the end of the asbestos abatement work, at which time all such items shall be thoroughly cleaned of all asbestos-containing material. Disposable type protective clothing, when used, shall be disposed of as contaminated waste. Protective clothing required for other types of construction or industrial hazards are required as appropriate for the particular job.

1.6.6 Provide all authorized visitors with respirators, new filters, protective clothing, head gear, eye protection, footwear, and hard hats as in the procedures described herein and afford them the use of all facilities to hold them free of contamination of asbestos fibers.

1.6.7 Provide and post, in the Equipment Room and the Clean Room, the decontamination and work procedures to be followed by workers, as described in Section 1.6.8 of these specifications.

### 1.6.8 WORKER PROTECTION PROCEDURES

1.6.8.1 Each worker and authorized visitor without exception shall, upon entering the job site: remove street clothes in the Clean Change Room and put on a NIOSH approved respirator with new filters, and clean protective clothing before entering the Equipment Room or the Work Area.

1.6.8.2 Each time he/she leaves the Work Area, each worker and authorized visitor shall: vacuum gross contamination from clothing before leaving the Work Area; proceed to the Equipment Room and remove all clothing except respirator; still wearing the respirator, proceed naked to the showers; clean the outside of the respirator with soap and clean water while showering; remove the respirator; thoroughly shampoo and wash themselves; remove filters and wet them and dispose of filters in the leaktight container provided for the purpose; and wash and rinse the inside of the respirator. After showering, the individual proceeds to the Clean Room.

1.6.8.3 Following showering and drying off, each worker and authorized visitor shall proceed directly to the Clean Change Room and dress in street clothes at the end of each day's work, or before eating, smoking, or drinking. Before re-entering the Work Area from the Clean Change Room, each worker and authorized visitor shall put on a clean respirator with filters and shall dress in clean protective clothing, except that worker intending to rewear protective clothing stored in the Equipment Room shall enter the Equipment Room wearing only respirators.

1.6.8.4 Contaminated work footwear shall be stored in the equipment room when not in use in the work area. Upon completion of asbestos abatement, dispose of footwear as contaminated waste or clean thoroughly inside and out using soap and clean water before removing from work area or from equipment and access areas. Store contaminated protective clothing in the equipment room for reuse or place in receptacles for disposal with other asbestos-contaminated materials.

1.6.8.5 Workers removing waste leaktight containers from the Equipment Contamination Enclosure shall enter the Holding Area from outside wearing a respirator and dressed in clean disposable coveralls. No worker shall use this system as a means to leave or enter the Washroom or the Work Area.

1.6.8.6 The color of the disposable clothing worn outside the Work Area shall be a different color than the disposable clothing worn inside the Work Area.

1.6.8.7 Workers shall not eat, drink, smoke, or chew gum or tobacco while in the Work Area.

1.6.8.8 Workers shall be fully protected with respirators and protective clothing immediately prior to the first disturbance of asbestos contaminated materials and until final clean-up is completed.

## 1.7 EQUIPMENT REMOVAL PROCEDURES

1.7.1 Clean surfaces of contaminated containers and equipment thoroughly by vacuuming and wet sponging or wiping before moving such items into the decontamination enclosure for final cleaning and removal to uncontaminated areas. Ensure that personnel do not leave Work Area through the Equipment Decontamination Enclosure.

## PART 2 MATERIALS AND EQUIPMENT

### 2.1 MATERIALS

2.1.1 Deliver all materials in the original packages, containers, or bundles bearing the name of the manufacturer and the brand name.

2.1.2 Delivery and storage of materials and equipment shall be under the direct control of the Contractor in areas to be approved by the Owner, Architect or Project Monitor. These shall be stacked, stored, disposed of or otherwise handled on the premises by the Contractor, but be available to all subcontractors employed on the project. The Contractor shall post all necessary signs and provide all temporary enclosures and guards as required for the full protection of workmen and the building.

2.1.1.2 Damaged or deteriorating materials shall not be used and shall be removed from the premises. Material that becomes contaminated with asbestos shall be decontaminated or disposed of as asbestos waste.

2.1.2 Use plastic sheet of four (4) mil thickness unless otherwise specified, in sizes to minimize the frequency of joints. Use single layer of six (6) mil polyethylene to create critical barriers where appropriate for size, configuration, and space to critical. A double layer of four (4) mil polyethylene shall be used on the walls. Use at least two layers of six (6) mil polyethylene to construct the decontamination entry system of multiple chambers as described elsewhere of a minimum of three (3), and up to five (5) or six (6), sections and/or airlocks. A double layer of six (6) mil polyethylene shall be used on floors.

2.1.2.1 Polyethylene bags shall be six (6) mil and of sufficient size for the application.

2.1.2.2 Duct tape of five (5) inches long (minimum), will be used to secure filled plastic bags.

2.1.3 Tape will be used that is capable of sealing joints in adjacent plastic sheets and for attachment of plastic sheet to finished or unfinished surfaces of dissimilar materials and capable of adhering under both dry and wet conditions, including use of amended water.

2.1.4 Surfactant (wetting agent) - shall consist of fifty (50) percent polyoxyethylene ether and fifty (50) percent polyoxyethylene ester, concentration of one (1) ounce surfactant to five (5) gallons of clean water or as directed by manufacturer.

2.1.5 Impermeable leaktight containers are to be used to receive and retain any asbestos-containing or contaminated materials until disposal at an acceptable disposal site. (The leaktight containers shall be

labeled in accordance with OSHA standards 29 CFR 1910.1001 and 1926.1101). Containers must be both air and watertight. All loading zone and container storage areas shall be posted.

2.1.6 Labels & signs required by OSHA standards 29 CFR 1910.1001 and 1926.1101 will be used.

2.1.7 Encapsulants shall be sprayed using airless spray equipment in accordance with the manufacturer's instructions.

2.1.8 Use asbestos-free materials to provide the degree of fire protection required by the applicable Building Code and/or Fire Safety Code.

2.1.9 Thermal or acoustical insulation material used for patching or replacement must provide performance characteristics equivalent to or better than the original.

2.1.10 HEPA filtered local exhaust ventilation shall be utilized during the installation of enclosures and supports where asbestos-containing materials may be disturbed.

## 2.2 TOOLS AND EQUIPMENT

2.2.1 Provide suitable tools for asbestos removal, encapsulation and enclosure.

2.2.1.1 The Contractor shall have available air monitoring equipment of type and quantity to monitor operations and conduct personnel exposure surveillance per OSHA requirements.

2.2.1.2 The Contractor shall have available sufficient inventory or dated purchase orders for materials necessary for the job including protective clothing, respirators, filter cartridges, plastic sheeting of proper size and thickness, duct tape, air filters and sample filter cassettes.

2.2.1.3 The Contractor shall have available power cables or sources such as generators (where required).

2.2.1.4 The Contractor shall have available shower stalls and plumbing to support the project that includes sufficient hose length and drain system. Wastewater shall be filtered through a series of progressively smaller pore size filters down to 5 microns to avoid rapid initial clogging of filtration system by larger particles.

2.2.1.5 No air movement system or air filtering equipment shall discharge unfiltered air outside the Work Area.

2.2.1.6 Ladders and/or scaffolds are to be of adequate length and sufficient quantity to support work schedule.

2.2.1.7 Other Materials - provide all other materials such as lumber, nails and hardware, which may be required to construct and dismantle the decontamination area and the barriers that isolate the Work Area.

2.2.1.8 Air filtering equipment shall meet HEPA requirement and be of sufficient capacity to cause four (4) air changes per hour within the work area exhausting the filtered air so as to maintain a negative inside (work area) pressure and of sufficient flow through the decontamination chambers so as to prevent escape of airborne fibers.

2.2.1.9 Vehicle Storage - No construction vehicles shall be stored, serviced, washed or flushed out in a location where leaks, spillage, waste materials, cleaners or waters will flow or be otherwise introduced into wetlands, reservoirs or watercourses.

2.2.1.10 Sanitary Accommodations - Sanitary accommodations must be placed where directed; they shall be maintained in a clean, well ventilated and sanitary condition at all times.

### **PART 3 EXECUTION**

#### **3.1 PREPARATION**

##### **3.1.1 WORK AREAS**

3.1.1.1 The Contractor shall provide for, furnish and maintain temporary connections to existing clean water supply and electrical utilities for the use of water and power for lighting, heating or services required for the full performance of the work, and be responsible for the same. In accordance with the following paragraphs, no charges will be assessed for the use of reasonable amounts of water or electricity. Any subcontractors shall also be allowed the full use of these utilities.

a. Water - Water may be obtained free of charge, with the Contractor providing all temporary connections for its distribution and removal of the same after the completion of the project. Water must be from a clean source.

b. Electricity - Electricity shall be provided at no charge from existing power sources. Contractor shall check on the adequacy of power supply prior to making connections.

3.1.1.2 Shut down and isolate heating, cooling, and ventilating air systems to prevent contamination and fiber dispersal to other areas of the structure. During the work, vents within the Work Area shall be sealed with tape and plastic sheeting.

3.1.1.3 clean movable objects within the proposed work areas using HEPA vacuum equipment and/or wet cleaning methods as appropriate and remove such objects from work areas to a temporary location.

3.1.1.4 Pre-clean fixed objects within the work areas, using HEPA vacuum equipment and/or wet cleaning methods as appropriate, and enclose with minimum six (6) mil plastic sheeting sealed with tape.

3.1.1.5 Clean the proposed work areas using HEPA vacuum equipment or wet cleaning methods as appropriate. Do not use methods that raise dust, such as dry sweeping or vacuuming with equipment not equipped with HEPA filters.

3.1.1.8 Provide airlocks at entrances to and exits from the work areas. Provide clear plastic vision ports where appropriate for inspection.

3.1.1.9 Maintain emergency and fire exits from the work area, or establish alternative exits satisfactory to fire officials.

##### **3.1.2 DECONTAMINATION ENCLOSURE SYSTEMS:**

3.1.2.1 Build suitable Building Code conforming framing as described herein at shop drawing submittal stage. Portable pre-fab units, if utilized, must be submitted for review and approval by the Architect and Project Monitor before start of construction. Submittal shall include, but not be limited to, a floor plan layout complying to schematic layout bound herein, showing dimensions, materials, sizes, thickness, plumbing, electric outlets, etc.

3.1.2.1.1 In all cases access between contaminated and uncontaminated rooms or areas shall be through an airlock. In all cases access between any two (2) rooms within the decontamination enclosure system shall be through a curtained doorway.

3.1.2.2. Worker Decontamination Enclosure: Construct a workers' decontamination enclosure system contiguous to the work area consisting of five (5) totally enclosed chambers to conform with standard drawings bound herein as follows:

3.1.2.2.1 An Equipment Room with two (2) curtained doorways, one (1) to the work area and one (1) to the airlock.

3.1.2.2.2 A Shower Room with two (2) curtained doorways, one (1) to each airlock. Plastic on Shower Room and adjoining equipment and clean rooms shall be non-transparent. Showers shall be provided and used at all asbestos removal operations.

3.1.2.2.3 The Shower Room shall contain at least one (1) shower with hot and cold or warm clean water. Careful attention shall be paid to the shower enclosure to ensure against leaking of any kind. Ensure a supply of soap and towels at all times in the shower room.

3.1.2.2.4 A Clean Room with one (1) curtained doorway into the airlock and one (1) entrance or exit to non-contaminated areas of the building. The Clean Room shall have sufficient space for storage of the workers' street clothes, towels, and other non-contaminated items. Joint use of this space for other functions such as offices, storage of equipment, materials, or tools shall be prohibited.

3.1.2.3 Equipment Decontamination Enclosure: Provide or construct an Equipment Decontamination Enclosure system consisting of two (2) totally enclosed Chambers as follows:

3.1.2.3.1 A Washroom, constituting an airlock, with a curtained doorway to a designated staging area of the Work Area and a curtained doorway the Holding Area.

3.1.2.3.2 A Holding Area, constituting an airlock, with a curtained doorway to the Washroom and a curtained doorway to an uncontaminated area.

### 3.1.2 DECONTAMINATION ENCLOSURE SYSTEMS:

3.1.2.1 Build suitable Building Code conforming framing as described herein at shop drawing submittal stage. Portable pre-fab units, if utilized, must be submitted for review and approval by the Owner or the Owner's representative before start of construction. Submittal shall include, but not be limited to, a floor plan layout complying to schematic layout bound herein, showing dimensions, materials, sizes, thickness, plumbing, electric outlets, etc.

3.1.2.1.1 In all cases access between contaminated and uncontaminated rooms or areas shall be through a decontamination unit. In all cases access between any two (2) rooms within the decontamination enclosure system shall be through a curtained doorway.

3.1.2.2. Worker Decontamination Enclosure: Construct a workers' decontamination enclosure system contiguous to the work area consisting of five (5) totally enclosed chambers to conform with standard drawings bound herein as follows:

3.1.2.2.1 An Equipment Room with two (2) curtained doorways, one (1) to the work area and one (1) to the airlock.

3.1.2.2.2 A Shower Room with two (2) curtained doorways, one (1) to each airlock. Plastic on Shower Room and adjoining equipment and clean rooms shall be non-transparent. Showers shall be provided and used at all asbestos removal operations.

3.1.2.2.3 The Shower Room shall contain at least one (1) shower with hot and cold or warm water. Careful attention shall be paid to the shower enclosure to ensure against leaking of any kind. Ensure a supply of soap and towels at all times in the shower room.

3.1.2.2.4 A Clean Room with one (1) curtained doorway into the airlock and one (1) entrance or exit to non-contaminated areas of the building. The Clean Room shall have sufficient space for storage of the workers' street clothes, towels, and other non-contaminated items. Joint use of this space for other functions such as offices, storage of equipment, materials, or tools shall be prohibited.

**3.1.2.3 Equipment Decontamination Enclosure: Provide or construct an Equipment Decontamination Enclosure system consisting of two (2) totally enclosed chambers as follows:**

**3.1.2.3.1 A Washroom, constituting an airlock, with a curtained doorway to a designated staging area of the Work Area and a curtained doorway the Holding Area.**

**3.1.2.3.2 A Holding Area, constituting an airlock, with a curtained doorway to the Washroom and a curtained doorway to an uncontaminated area.**

**3.1.2.3.3 Shower water must be drained, collected and filtered through a system with at least 5.0 micron particulate size collection capability before disposal in the sanitary system. Contaminated filters are to be disposed of as asbestos waste.**

**3.1.2.4 SEPARATION OF WORK AREAS FROM OCCUPIED AREAS**

School will not be in session so normal containment practices will be used.

**3.1.2.5 MAINTENANCE OF ENCLOSURE SYSTEMS**

3.1.2.5.1 Visually inspect enclosures at the beginning of each work period.

3.1.2.5.3 Use chemical test smoke methods to test effectiveness of barriers when directed by the air sampling professional.

3.1.2.5.4 Create pressure differential between work areas and occupied areas by the use of negative air pressure equipment. Description: high efficiency particulate (HEPA) filtration systems shall be equipped with filtration equipment in compliance with ANSI Z9.2-1979. The equipment shall be sized to provide four (4) air changes per hour in the Work Area. No air movement system or air filtering equipment shall discharge asbestos fibers or unfiltered air outside the Work Area. Automatic shutdown of system and/or warning lights to indicate improper pressure drop across filters shall be incorporated into equipment to prevent operation of equipment if filters are overloaded or ruptured.

**3.2 ASBESTOS REMOVAL**

**3.2.1 PREPARE SITE**

3.2.2 Spray asbestos materials with amended water, using airless spray equipment capable of providing a "mist" application to reduce the release of fibers. The asbestos material shall be sprayed with water mist containing a wetting agent to enhance penetration. A fine spray of the amended water shall be applied to reduce fiber release preceding the removal of the asbestos material.

3.2.3 In order to maintain indoor asbestos concentrations at a minimum, the wet asbestos must be removed in manageable sections. Materials shall not be allowed to dry out. Material drop shall not exceed 8 feet. For heights up



to 15 feet provide inclined chutes or scaffolding to intercept drop. For heights exceeding 15 feet provide enclosed dust-proof chutes.

3.2.4 Seal filled containers. Place danger labels on containers in accordance with OSHA standard 29 CFR 1910.1001 (g) (2) if not already pre-printed on containers. Clean external surfaces of containers thoroughly by wet sponging in the designated area. Move containers to Washroom, wet clean each container thoroughly and move to Holding Area by workers who have entered from uncontaminated areas dressed in clean coveralls. Ensure that workers do not enter from uncontaminated areas into the Washroom or the Work Area; ensure that contaminated workers do not exit the Work Area through the Equipment Decontamination Enclosure System.

3.2.5 After completion of stripping work, all surfaces from which asbestos has been removed shall be wet brushed, using a nylon brush, wet wiped and sponged or cleaned by an equivalent method to remove all visible material (wire brushes are not permitted). During this work the surfaces being cleaned shall be kept wet.

3.2.6 Apply a thin coat of encapsulant to cleaned surfaces and to plastic barriers after cleaning.

3.2.7 Clean up shall be in accordance with Section 3.5

3.2.8 If at any time during asbestos removal, should the air sampling professional suspect contamination of areas outside the work area, he/she shall stop all abatement work until the Contractor takes steps to decontaminate these areas and eliminate causes of such contamination. Unprotected individuals shall be prohibited from entering contaminated areas until air sampling and visual inspections certify decontamination.

### 3.5 CLEAN-UP AND FINAL VISUALS

3.5.1 Remove visible accumulations of asbestos material and debris. Wet clean or HEPA vacuum all surfaces within the Work Area.

3.5.2 An inspection by the building owner or his designate shall be conducted with the containment barriers in place. If the building owner or his representative finds visible accumulations of dust or bulk asbestos containing materials in the Work Area, the Contractor shall repeat the cleaning until the work area is in compliance, at the Contractor's expense. The visual inspection will detect incomplete work, damage caused by the abatement activity, and inadequate clean-up of the worksite.

### 3.2 ASBESTOS DECONTAMINATION

3.2.8 If at any time during asbestos removal, should the project monitor suspect contamination of areas outside the work area, he shall stop all abatement work until the contractor takes steps to decontaminate these areas and eliminate causes of such contamination. Unprotected individuals shall be prohibited from entering contaminated areas until air sampling and visual inspections certify decontamination.

### 3.3 CLEAN-UP

Remove visible accumulations of dust debris. Clean all surfaces with a HEPA filtered vacuum. An inspection by the Project Monitor shall be conducted. If the Project Monitor finds visible accumulations of dust or bulk asbestos containing materials in the work Area, the Contractor shall repeat the cleaning until the work area is deemed cleaned.

### 3.4 CLEARANCE TESTING

Aggressive TEM air sampling using leaf blowers and fans will be conducted in a minimum of 5 areas. The clean-up will be considered complete and the areas safe former-occupancy if all of the samples are below seventy structures per square millimeter (70 s/sq mm) the detection limit.

### 3.6 DISPOSAL OF ASBESTOS-CONTAINING MATERIALS AND

## **ASBESTOS-CONTAMINATED WASTE**

- 3.6.1 In Connecticut disposal of asbestos materials and asbestos waste must be authorized by the Office of Solid Waste Management pursuant to Section 22a-209-8(1) of the administrative regulations of the Department of Environmental protections, Solid Waste Management Unit, and the Connecticut General Statutes, Section 22a-220 entitled "Municipal Provisions for Solid Waste Disposal. Toxic or Hazardous Waste Disposal." The first step in obtaining authorization is to contact the office in writing with detailed information relating to the quantities, types, sources, generator and hauler of asbestos wastes to; be disposed. The Office of Solid Waste Management will provide assistance by contacting and making arrangements with a landfill owner and/or operator for disposal. Authorization will be given if it can be assured that the asbestos waste will be handled and disposed of in accordance with the following requirements.

### **3.8 AIR MONITORING AND ANALYSIS**

- 3.8.1 The following schedule may be utilized for air sampling during the project by the Project Monitor (in addition to OSHA monitoring by the contractor):
- 3.8.2 Pre-abatement sampling - A sufficient number of air samples may be collected prior to the start of abatement activities in order to determine prevalent airborne concentrations.
- 3.8.3 Sampling during the abatement project may include:

The following schedule of samples shall be required on daily basis, once abatement activities begin. (The following are recommendations. The size of the abatement activity will impact on the number of samples necessary to adequately monitor the Contractor's activities. Decisions on the number of samples and locations are to be made by the Air Sampling Professional. A guideline is a follows.

2 Area Samples (outside the work area in uncontaminated areas of the building;  
One of these shall be at the entrance to the worker decontamination enclosure).

1 Area Sample (outside the building)

1 Area Sample (at the exhaust of negative pressure ventilation equipment).

3.8.4 Post-abatement (clearance) air sampling shall be conducted following the cleaning phase of work, once the no visible residue criterion has been met. A minimum of five samples shall be collected aggressively (with portable fans or blowers circulating air in the Work Area to simulate actual use conditions) to determine post-abatement air concentrations. An adequate volume of air to provide accuracy to 0.010 fibers/cc is required for PCM and greater than 1,199 liters for TEM.

3.8.5 Air samples will be analyzed with the appropriate microscopy. In schools, per the EPA AHERA regulation, transmission electron microscopy will be used to analyze final air samples for containments in which more than 160 square feet or 260 linear feet of asbestos-containing materials were abated. In schools, per the EPA AHERA regulation, phase contrast microscopy will be used to analyze final air samples for containments in which less than 160 square feet or 260 linear feet of asbestos-containing materials were abated.

3.8.6 Air samples will be analyzed with the appropriate microscopy. In buildings other than schools, per the State of Connecticut regulations, transmission electron microscopy will be used to analyze final air samples for containments in which more than 1500 square feet or 500 linear feet of asbestos-containing materials were abated. In buildings other than schools, per the State of Connecticut regulations, phase contrast microscopy will be used to analyze final air samples for containments in which less than 1500 square feet or 500 linear feet of asbestos-containing materials were abated.

3.8.7 Contractor Responsibility

Air sampling shall be conducted by the Contractor, as necessary, to assure that workers are using appropriate respiratory protection in accordance with OSHA Standard 1910.1001 and 1926.1101

- 3.8.7 Documentation of air sampling results must be recorded at the work site within twenty-four (24) hours and be available for review until the job is complete. Upon completion of the job, these are to be forwarded to the Building Owner for inclusion with project records.
- 3.8.9 Documentation of sample analysis must include as a minimum; sample identification; total sample duration; sample flow rate; total air volume; total fibers counted (with work sheets); total fields counted; blank filter analysis; reticule field area; and concentration of fibers per cubic centimeter. Analytical results must include calculation of detection limits as given in Appendix G of Environmental Protection Agency Publication EPA 560/5-85-024, June 1985 Guidance for Controlling Friable Asbestos-Containing Materials in Building; of any typical environmental conditions.
- 3.8.10 Air sampling analysis must be performed by individuals trained in the National Institute for Occupational Safety and Health (NIOSH) 582 course on Asbestos Air Sampling and Analysis, associated with a laboratory approved and certified by the American Industrial Hygiene Association (AIHA). Documentation of individual air sample analysis qualifications must be provided to the Owner or the Architect. Labs analyzing any sample taken on the job must be certified by the State of Connecticut Department of Public Health.

## **PART 2.00 – GENERAL Replacement of removed and missing Pipe Insulation**

### 1.01 SCOPE

- A. The work covered by this specification consists of furnishing all labor, equipment, materials and accessories, and performing all operations required, for the correct fabrication and installation of thermal insulation applied to the following commercial piping systems, in accordance with applicable project specifications and drawings, subject to the terms and conditions of the contract:
  - 1. Chilled water systems from 35F (2C) to 65F (18C)
  - 2. Heating systems (steam, steam condensate, hot water), ambient up to 450F (232C)
  - 3. Domestic and service hot water systems, ambient up to 180F (82C)

### 1.02 REFERENCES

- A. Thermal insulation materials shall meet the property requirements of one or more of the following specifications as applicable to the specific product or end use:
  - 1. American Society for Testing of Materials Specifications:
    - a. ASTM C 547, "Standard Specification for Mineral Fiber Pipe Insulation"
    - b. ASTM C 585, "Standard Practice for Inner and Outer Diameters of Rigid Thermal Insulation for Nominal Sizes of Pipe and Tubing (NPS System)"
    - c. ASTM C 1136, "Standard Specification for Flexible, Low Permeance Vapor Retarders for Thermal Insulation"

### 1.03 DEFINITIONS

- A. The term "mineral fiber" as defined by the above specifications includes fibers manufactured of glass, rock, or slag processed from a molten state, with or without binder.

### 1.04 SYSTEM PERFORMANCE

- A. Insulation materials furnished should meet the minimum thickness requirements of National Voluntary Consensus Standard 90.1 (1999), "Energy Efficient Design of New Buildings," of the American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE). However, if other factors such as condensation control or personnel protection are to be considered, the selection of the thickness of insulation should satisfy the controlling factor.
- B. Insulation materials furnished and installed hereunder shall meet the fire hazard requirements of applicable building codes when tested in composite form per one of the following nominally equivalent test methods:
  - 1. American Society for Testing of Materials                      ASTM E 84
  - 2. Underwriters' Laboratories, Inc.                                      UL 723, CAN/ULC-S102-M88
  - 3. National Fire Protection Association                                      NFPA 255

1.05 QUALITY ASSURANCE

- A. Insulation materials and accessories furnished and installed hereunder shall, where required, be accompanied by manufacturers' current submittal or data sheets showing compliance with applicable specifications listed in Section 1.02 above.
- B. Insulation materials, including all weather and vapor barrier materials, closures, hangers, supports, fitting covers, and other accessories, shall be furnished and installed in strict accordance with project drawings, plans, and specifications.
- C. Insulation materials and accessories shall be installed in a workmanlike manner by skilled and experienced workers who are regularly engaged in commercial insulation work.

1.06 DELIVERY AND STORAGE OF MATERIALS

- A. All of the insulation materials and accessories covered by this specification shall be delivered to the job site and stored in a safe, dry place with appropriate labels and/or other product identification.
- B. The contractor shall use whatever means are necessary to protect the insulation materials and accessories before, during, and after installation. No insulation material shall be installed that has become damaged in any way. The contractor shall also use all means necessary to protect work and materials installed by other trades.
- C. If any insulation material has become wet because of transit or job site exposure to moisture or water, the contractor shall not install such material, and shall remove it from the job site. An exception may be allowed in cases where the contractor is able to demonstrate that wet insulation when fully dried out (either before installation or afterward following exposure to system operating temperatures) will provide installed performance that is equivalent in all respects to new, completely dry insulation. In such cases, consult the insulation manufacturer for technical assistance.

**PART 2.00 - PRODUCTS**

2.01 PIPE INSULATION

- A. Molded pipe insulation shall be manufactured to meet ASTM C 585 for sizes required in the particular system. It shall be of a type suitable for installation on piping systems as defined in section 1.01 SCOPE above.

Molded fibrous glass pipe insulation shall comply with the requirements of ASTM C 547. One of the following types shall be used:

1. For indoor systems operating at temperatures from 0°F (-18 °C) to +850 °F (454 °C):
  - a. **Fiberglas® Pipe Insulation**, Owens Corning Fiberglas Pipe Insulation or equivalent with factory applied all-service jacket (ASJ) and two-component adhesive closure system, rated for a service temperature of 850F (454C). For large pipe sizes where SSL-II is not available, the single adhesive SSL closure may be substituted. Circumferential joints shall be sealed by butt strips having a two-component sealing system. Stapling is not required to complete the closure. When self sealing lap systems are used, sufficient thickness of insulation shall be used to maintain the outer surface temperature of the operating system below +150F (65C). Manufacturer's data regarding thickness constraints in relation to operating temperature shall be followed.

When multiple layers are required, all inner layer(s) shall be No Wrap.

On cold systems, vapor barrier performance is extremely important. All penetrations of the ASJ and exposed ends of insulation shall be sealed with vapor barrier mastic. If humidities in excess of 90% are expected, the ASJ shall be protected with either a mastic coating or a Suitable vapor retarding outer jacket. Vapor seals at butt joints shall be applied at every fourth pipe section joint and at each fitting to provide isolation of water incursion.

2. For systems operating at temperatures to +850F (232C) and always above the ambient temperature:
    - a. **No Wrap Pipe Insulation** rated for maximum operating temperature of 850F (454C) may be installed using appropriate banding materials and then covered with either metal or PVC jacketing or otherwise jacketed and/or finished in accordance with details shown.
  3. For piping equal to or larger than 10" (250 mm) diameter operating at temperatures up to +650F (343C) and where moderate abuse resistance is required, the following may be installed:
    - a. **Owens Corning Pipe and Tank Insulation**, fiber glass insulation, maximum operating temperature of 650F (343C), end-grain factory-adhered to an ASJ all-service jacket. All joints shall be stapled then (1) sealed with mastic or (2) closed with 3" (75 mm) pressure-sensitive tape matching the ASJ jacket.
- B. Fittings and valves shall be insulated with pre-formed fiberglass fittings, fabricated sections of Owens Corning Fiberglas Pipe Insulation, Owens Corning Pipe and Tank Insulation, Owens Corning blanket insulation, or insulating cement. Thickness shall be equal to adjacent pipe insulation. Finish shall be with pre-formed PVC fitting covers or as otherwise specified on contract drawings.

Flanges, couplings and valve bonnets shall be covered with an oversized pipe insulation section sized to provide the same insulation thickness as on the main pipe section. An oversized insulation section shall be used to form a collar between the two insulation sections with low-density blanket insulation being used to fill gaps. Jacketing shall match that used on straight pipe sections. Rough cut ends shall be coated with suitable weather or vapor resistant mastic as dictated by the system location and service. On hot systems where fittings are to be left exposed, insulation ends should be beveled away from bolts for easy access.

On cold systems, particular care must be given to vapor sealing the fitting cover or finish to the pipe insulation vapor barrier. All valve stems shall be sealed with caulking to allow free movement of the stem but provide a seal against moisture incursion.

- C. Piping located outdoors and exposed to the weather shall be insulated as indicated above except the thickness shall be determined according to the worst weather extremes expected. The insulation shall then be protected with one of the following weatherproof finishes as indicated on contract drawings:
1. Metal jacketing shall be 0.016" (0.4 mm) minimum aluminum or stainless steel with moisture barrier, secured in accordance with the jacket manufacturer's recommendations. Joints shall be applied so they will shed water and shall be sealed completely.
  2. UV resistant PVC jacketing may be applied in lieu of metal jacketing provided jacketing manufacturer's limitations with regard to pipe size, surface temperature, and thermal expansion and contraction are followed.
  3. Fittings shall be insulated as prescribed above, jacketed with preformed fitting covers matching outer jacketing used on straight pipe sections, with all joints weather sealed.
  4. On outdoor chilled water and refrigerant lines, the insulation system shall be completely vapor sealed before the weather-resistant jacket is applied. The outer jacket shall not compromise the vapor barrier by penetration of fasteners, etc. Vapor stops at butt joints shall be applied at every fourth pipe section joint and at each fitting to provide isolation of water incursion.
- D. All piping shall be supported in such a manner that neither the insulation nor the vapor/weather barrier is compromised by the hanger or the effects of the hanger. In all cases, hanger spacing shall be such that the circumferential joint may be made outside the hanger. On cold systems, vapor barrier shall be continuous, including material covered by the hanger saddle.
1. Piping systems 3" (75 mm) in diameter or less, insulated with Owens Corning insulation, may be supported by placing saddles of the proper length and spacing under the insulation as designated in Owens Corning Pub. 1-IN-14210.
  2. For hot or cold piping systems larger than 3" (75 mm) in diameter, operating at temperatures less than +200F (93C) and insulated with fiber glass, high density inserts such as wood or foam with sufficient compressive strength shall be used to support the weight of the piping system. At temperatures exceeding +200F (93C), high temperature pipe insulation shall be used for high density inserts.
  3. Where pipe shoes and roller supports are required, insulation shall be inserted in the pipe shoe to minimize pipe heat loss. Where possible, the pipe shoe shall be sized to be flush with the outer pipe insulation diameter.
  4. Thermal expansion and contraction of the piping and insulation system can generally be taken care of by utilizing double layers of insulation and staggering both longitudinal and circumferential joints. Where long runs are encountered, expansion joints may be required where single layers of insulation are being used and should be so noted on the contract drawings.
  5. On vertical runs, insulation support rings shall be used as indicated on contract drawings.

## 2.02 ACCESSORY MATERIALS

- A. Accessory materials installed as part of insulation work under this section shall include (but not be limited to):

1. Closure Materials - Butt strips, bands, wires, staples, mastics, adhesives; pressure-sensitive tapes
2. Field-applied jacketing materials - Sheet metal, plastic, canvas, fiber glass cloth, insulating cement, PVC fitting covers
3. Support Materials - Hanger straps, hanger rods, saddles, support rings

## **PART 3.00 - EXECUTION**

### **3.01 SITE INSPECTION**

- A. Before starting work under this section, carefully inspect the site and installed work of other trades and verify that such work is complete to the point where installation of materials and accessories under this section can begin.
- B. Verify that all materials and accessories can be installed in accordance with project drawings and specifications and material manufacturers' recommendations.
- C. Verify, by inspecting product labeling, submittal data, and/or certifications which may accompany the shipments, that all materials and accessories to be installed on the project comply with applicable specifications and standards and meet specified thermal and physical properties.

### **3.02 PREPARATION**

- A. Ensure that all pipe and fitting surfaces over which insulation is to be installed are clean and dry.
- B. Ensure that insulation is clean, dry, and in good mechanical condition with all factory-applied vapor or weather barriers intact and undamaged. Wet, dirty, or damaged insulation shall not be acceptable for installation.
- C. Ensure that pressure testing of piping and fittings has been completed prior to installing insulation.

### **3.03 INSTALLATION**

#### **A. General**

1. Install all insulation materials and accessories in accordance with manufacturer's published instructions and recognized industry practices to ensure that it will serve its intended purpose.
2. Install insulation on piping subsequent to installation of heat tracing, painting, and acceptance tests.
3. Install insulation materials with smooth and even surfaces. Insulate each continuous run of piping with full-length units of insulation, with single cut piece to complete run. Do not use cut pieces or scraps abutting each other. Butt insulation joints firmly to ensure complete, tight fit over all piping surfaces.
4. Maintain the integrity of factory-applied vapor barrier jacketing on all pipe insulation, protecting it against puncture, tears or other damage. All staples used on cold pipe insulation shall be coated with suitable sealant to maintain vapor barrier integrity.

#### **B. Fittings**

1. Cover valves, fittings, and similar items in each piping system using one of the following:

- a. Mitered sections of insulation equivalent in thickness and composition to that installed on straight pipe runs.
- b. Insulation cement equal in thickness to the adjoining insulation.
- c. Owens Corning PVC Fitting Covers insulated with material equal in thickness and composition to adjoining insulation.

C. Penetrations

1. Extend piping insulation without interruption through walls, floors, and similar piping penetrations, except where otherwise specified.

D. Joints

1. Butt pipe insulation against hanger inserts. For hot pipes, it is recommended all joints be staggered when operating temperature is over 400F (204C) double layer. Seal jacketing according to type being used. For cold piping, seal self-sealing laps by firmly rubbing down surface of tape and flap.
2. All pipe insulation ends shall be tapered and sealed, regardless of service.

E. Vertical Piping

1. If specified on contract drawings, all insulated, exposed vertical piping within the building and all insulated piping exposed to the outdoors shall be additionally jacketed with 0.016" thick (0.4 mm) (minimum) aluminum. Vertical piping shall be protected to a height of 8'-0" (2.4 m) above the floor.

### 3.04 FIELD QUALITY ASSURANCE

- A. Upon completion of all insulation work covered by this specification, visually inspect the work and verify that it has been correctly installed. This may be done while work is in progress, to assure compliance with requirements herein to cover and protect insulation materials during installation.

### 3.05 PROTECTION

- A. Replace damaged insulation, which cannot be satisfactorily repaired, including insulation with vapor barrier damage and moisture-saturated insulation.
- B. The insulation contractor shall advise the general and/or the mechanical contractor as to requirements for protection of the insulation work during the remainder of the construction period, to avoid damage and deterioration of the finished insulation work.

### 3.06 SAFETY PRECAUTIONS

- A. Insulation contractor's employees shall be properly protected during installation of all insulation. Protection shall include proper attire when handling and applying insulation materials, and shall include (but not be limited to) disposable dust respirators, gloves, hard hats, and eye protection.
- B. The insulation contractor shall conduct all job site operations in compliance with applicable provisions of the Occupational Safety and Health Act, as well as with all state and/or local safety and health codes and regulations that may apply to the work.







Some contaminated construction materials to be removed



Water on concrete floor



Water on floor



Damaged asbestos fitting





Asbestos Pipe fitting debris

ADDITIONS AND RENOVATIONS  
LEDYARD HIGH SCHOOL CRITICAL NEEDS  
34 GALLUP HILL ROAD  
LEDYARD, VT

EGMIDES PLAN  
FIRST FLOOR  
PROJECT NO. 07972004  
PHASE 1/1/12

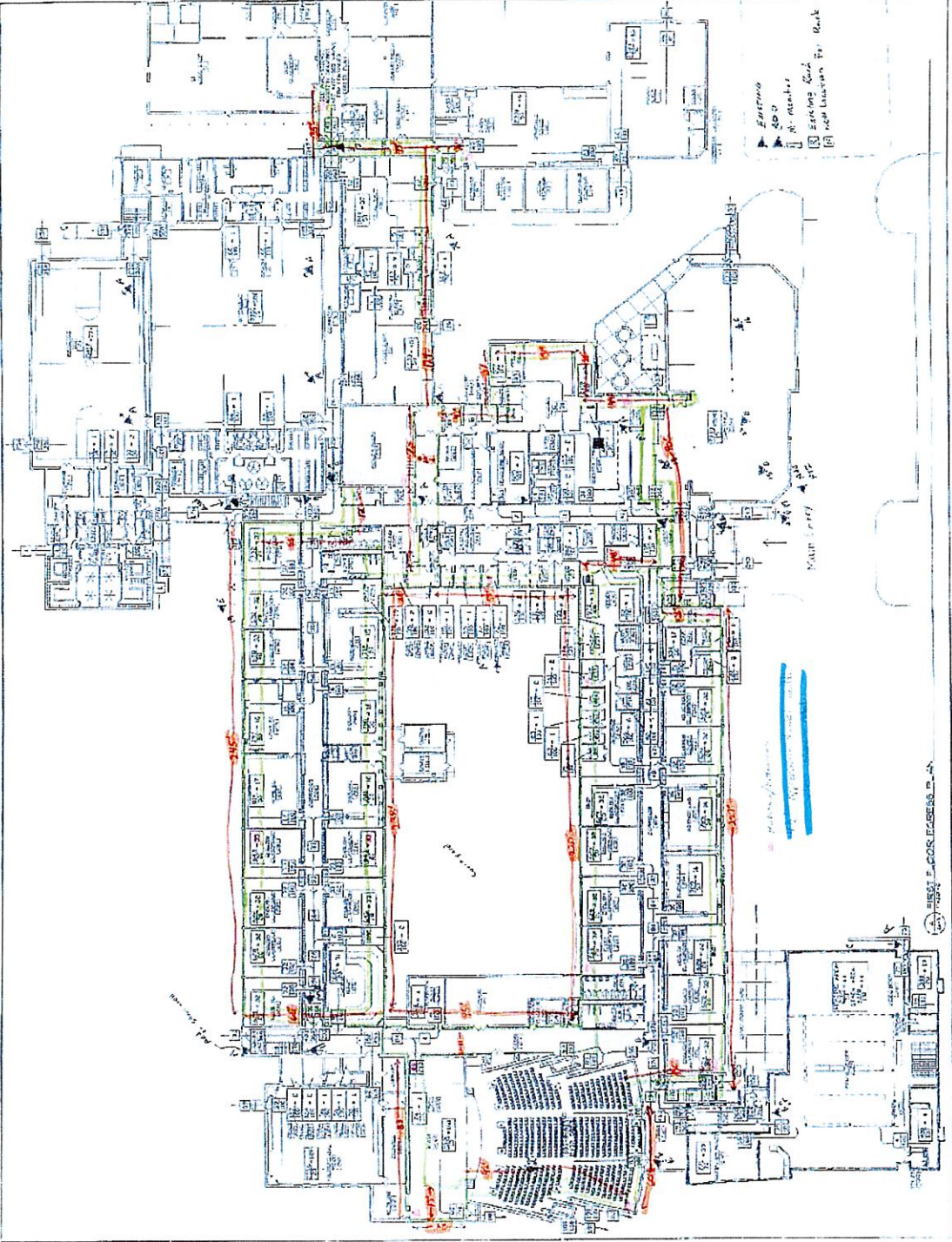
CONSULTANT:  
ARCHITECTS:  
**M-R-R-ROMING ASSOCIATES**  
ARCHITECTS ARCHITECTS ARCHITECTS  
100 STATE STREET  
LEWISBURGH, VT 05463

ENGINEER:  
**STURM & IRVING COMPANY**  
ENGINEERING ARCHITECTS  
100 STATE STREET  
LEWISBURGH, VT 05463  
PHONE: 802-255-2200  
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REVISIONS:  
DATE: JULY 25, 2012  
BY: [Signature]  
REASON: [Signature]

**okPark Architects**  
27 PARK AVENUE, SUITE 200  
LEWISBURGH, VT 05463  
PHONE: 802-255-2200  
FAX: 802-255-2201  
WWW.OKPARK.COM

AS BUILT  
G-3



**SPECIFICATIONS FOR**  
**LHS ASBESTOS ABATEMENT**  
**PROPOSAL #LPS-2020-1**

**3.3.1 CLEAN-UP**

After removal of all asbestos containing fittings, soils, and debris and after reinsulation of piping, the contractor should restore the site to original conditions. Clean fill shall be used to backfill areas if required. The contractor shall remove visible accumulations of dust debris both within the tunnels and pathways from the tunnels to the disposal containers outside the building. All surfaces shall be cleaned with a HEPA filtered vacuum. An inspection by the Project Monitor shall be conducted. If the Project Monitor finds visible accumulations of dust or bulk asbestos containing materials in the work Area, the Contractor shall repeat the cleaning until the work area is deemed cleaned.

External site modifications including plantings, grass, or pavement shall be restored to original conditions. All debris, dumpsters, and used equipment shall be disposed of promptly in accordance with the applicable federal, state or local ordinance at the contractor's sole expense. All equipment shall be removed from the work site within five (5) working days of the completion of the project

**3.4 CLEARANCE TESTING**

Aggressive TEM air sampling using leaf blowers and fans will be conducted in a minimum of 5 areas. The clean-up will be considered complete and the areas safe former-occupancy if all of the samples are below seventy structures per square millimeter (70 s/sq mm) the detection limit.

**3.6 DISPOSAL OF ASBESTOS-CONTAINING MATERIALS AND ASBESTOS-CONTAMINATED WASTE**

**3.6.2** In Connecticut disposal of asbestos materials and asbestos waste must be

authorized by the Office of Solid Waste Management pursuant to Section 22a-209-8(1) of the administrative regulations of the Department of Environmental protections, Solid Waste Management Unit, and the Connecticut General Statutes, Section 22a-220 entitled "Municipal Provisions for Solid Waste Disposal. Toxic or Hazardous Waste Disposal." The first step in obtaining authorization is to contact the office in writing with detailed information relating to the quantities, types, sources, generator and hauler of asbestos wastes to; be disposed. The Office of Solid Waste Management will provide assistance by contacting and making arrangements with a landfill owner and/or operator for disposal. Authorization will be given if it can be assured that the asbestos waste will be handled and disposed of in accordance with the following requirements. Copies of all authorized disposal records must be provided with project invoices prior to payment.



**TOWN OF LEDYARD, CONNECTICUT**

**INSURANCE REQUIREMENTS FOR  
LEDYARD HIGH SCHOOL ASBESTOS ABATEMENT**

**PROPOSAL #LPS-2020-1**

The successful Bidder shall be required to furnish to Ledyard Public Schools a certificate of insurance within thirty (30) days of notification of award. Any changes in insurance coverage will require thirty (30) days' notice to Ledyard Public Schools. Insurance coverage must include Ledyard Public Schools as an additional insured. The required insurance coverage is: Comprehensive form General Liability including premises/operations, underground explosion and collapse hazard, oil spills, completed products/operations, contractual independent contractors, broad form property damage, and personal injury.

Limits of Liability shall combine bodily injury and property damage: \$1,000,000; each occurrence. \$2,000,000; aggregate.

Automobile Liability including owned vehicles, hired vehicles, and non owned vehicles. Limits of liability shall combine bodily injury and property damage: \$1,000,000; each occurrence. \$2,000,000 aggregate.

Excess Liability-Umbrella Form. Limits of Liability shall combine bodily injury and property damage: \$1,000,000; each occurrence. \$2,000,000; aggregate.

Worker's Compensation Insurance. Limit of Liability shall be the statutory limit of: \$1,000,000 each accident.

**END OF INSURANCE REQUIREMENTS**

Town of Ledyard

TOWN OF LEDYARD, CONNECTICUT

PROPOSAL FORM

LEDYARD HIGH SCHOOL ASBESTOS ABATEMENT

PROPOSAL #LPS-2020-1 –BID PROPOSAL

PROPOSER'S FULL LEGAL NAME:

\_\_\_\_\_  
Pursuant to and in full compliance with the RFP, the undersigned proposer, having visited the site or property if applicable, and having thoroughly examined each and every document comprising the RFP, including any addenda, hereby offers and agrees as follows:

To provide the products and/or services specified in, and upon the terms and conditions of, the RFP for the total sum of \_\_\_\_\_/100 Dollars (write out in words) (\$\_\_\_\_\_).

ACKNOWLEDGEMENT

In submitting this Proposal Form, the undersigned proposer acknowledges that the price(s) include all labor, materials, transportation, hauling, overhead, fees and insurances, bonds or letters of credit, profit, security, permits and licenses, and all other costs to cover the completed work called for in the RFP. Except as otherwise expressly stated in the RFP, no additional payment of any kind will be made for work accomplished under the price(s) as proposed.

REQUIRED DISCLOSURES

1. Exceptions to or Modifications or Clarifications of the RFP
- 2.

\_\_\_\_\_ This proposal does not take exception to or seek to modify or clarify any requirement of the RFP, including but not only any of the Contract Terms set forth in Section 26 of the Standard Instructions to Proposers.

OR

\_\_\_\_\_ This proposal takes exception(s) to or seeks to modify or clarify certain of the RFP requirements, including but not only the following Contract Terms set forth in Section 26 of the Standard Instructions to

Proposers. **Attached is a sheet fully describing each such exception.**

2. State Debarment List

Is the proposer on the State of Connecticut's Debarment List?

Yes  
 No

3. Occupational Safety and Health Law Violations

Has the proposer or any firm, corporation, partnership or association in which it has an interest (1) been cited for three (3) or more willful or serious violations of any occupational safety and health act or of any standard, order or regulation promulgated pursuant to such act, during the three-year period preceding the proposal (provided such violations were cited in accordance with the provisions of any state occupational safety and health act or the Occupational Safety and Health Act of 1970, and not abated within the time fixed by the citation and such citation has not been set aside following appeal to the appropriate agency or court having jurisdiction) or (2) received one or more criminal convictions related to the injury or death of any employee in the three-year period preceding the proposal?

Yes  
 No

If "yes," attach a sheet fully describing each such matter.

4. Arbitration/Litigation

Has either the proposer or any of its principals (regardless of place of employment) been involved for the most recent ten (10) years in any pending or resolved arbitration or litigation?

Yes  
 No

If "yes," attach a sheet fully describing each such matter.

5. Criminal Proceedings

Has the proposer or any of its principals (regardless of place of employment) ever been the subject of any criminal proceedings?

Yes  
 No

If "yes," attach a sheet fully describing each such matter.

6. Ethics and Offenses in Public Projects or Contracts

Has either the proposer or any of its principals (regardless of place of employment) ever been found to have violated any state or local ethics law, regulation, ordinance, code, policy or standard, or to have committed any other offense arising out of the submission of proposals or bids or the performance of work on public works projects or contracts?

\_\_\_\_\_ Yes  
\_\_\_\_\_ No

If "yes," attach a sheet fully describing each such matter.

**PROPOSAL (BID) SECURITY**

I/we have included herein the required certified check or proposal (bid) bond in the amount of 10% of the proposal amount.

**NOTE:** THIS DOCUMENT, IN ORDER TO BE CONSIDERED A VALID PROPOSAL, MUST BE SIGNED BY A PRINCIPAL OFFICER OR OWNER OF THE BUSINESS ENTITY THAT IS SUBMITTING THE PROPOSAL. SUCH SIGNATURE CONSTITUTES THE PROPOSER'S REPRESENTATIONS THAT IT HAS READ, UNDERSTOOD AND FULLY ACCEPTED EACH AND EVERY PROVISION OF EACH DOCUMENT COMPROMISING THE RFP, UNLESS AN EXCEPTION IS DESCRIBED ABOVE.

BY \_\_\_\_\_  
TITLE:

\_\_\_\_\_  
(PRINT NAME)

\_\_\_\_\_ DATE: \_\_\_\_\_  
(SIGNATURE)

**END OF BASE BID PROPOSAL FORM**

**TOWN OF LEDYARD, CONNECTICUT**

**PROPOSER'S LEGAL STATUS DISCLOSURE**

Please fully complete the applicable section below, attaching a separate sheet if you need additional space.

For purposes of this disclosure, "permanent place of business" means an office continuously maintained, occupied and used by the proposer's regular employees regularly in attendance to carry on the proposer's business in the proposer's own name. An office maintained, occupied and used by a proposer only for the duration of a contract will not be considered a permanent place of business. An office maintained, occupied and used by a person affiliated with a proposer will not be considered a permanent place of business of the proposer.

**IF A SOLELY OWNED BUSINESS:**

Proposer's Full Legal Name \_\_\_\_\_

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

Mailing Address (if different from Street Address) \_\_\_\_\_

Owner's Full Legal Name \_\_\_\_\_

Number of years engaged in business under sole proprietor or trade name \_\_\_\_\_

Does the proposer have a "permanent place of business" in Connecticut, as defined above?

\_\_\_\_\_ Yes                      \_\_\_\_\_ No

If yes, please state the full street address (not a post office box) of that "permanent place of business."

\_\_\_\_\_

**IF A CORPORATION:**

Proposer's Full Legal Name \_\_\_\_\_

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

Mailing Address (if different from Street Address) \_\_\_\_\_

Owner's Full Legal Name \_\_\_\_\_

Number of years engaged in business \_\_\_\_\_

Names of Current Officers

\_\_\_\_\_  
President

\_\_\_\_\_  
Secretary

\_\_\_\_\_  
Chief Financial Officer

Does the proposer have a "permanent place of business" in Connecticut, as defined above?

\_\_\_\_\_ Yes                      \_\_\_\_\_ No

If yes, please state the full street address (not a post office box) of that "permanent place of business."

\_\_\_\_\_

**IF A LIMITED LIABILITY COMPANY:**

Proposer's Full Legal Name \_\_\_\_\_

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

Mailing Address (if different from Street Address) \_\_\_\_\_

Owner's Full Legal Name \_\_\_\_\_

Number of years engaged in business \_\_\_\_\_

Names of Current Manager(s) and Member(s)

\_\_\_\_\_  
Name & Title (if any)                      Residential Address (street only)

\_\_\_\_\_  
Name & Title (if any)                      Residential Address (street only)

\_\_\_\_\_  
Name & Title (if any)                      Residential Address (street only)

\_\_\_\_\_  
Name & Title (if any)                      Residential Address (street only)

\_\_\_\_\_  
Name & Title (if any)                      Residential Address (street only)

Does the proposer have a "permanent place of business" in Connecticut, as defined above?

\_\_\_\_\_ Yes                      \_\_\_\_\_ No

If yes, please state the full street address (not a post office box) of that "permanent place of business."

\_\_\_\_\_

**IF A PARTNERSHIP:**

Proposer's Full Legal Name \_\_\_\_\_

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

Mailing Address (if different from Street Address) \_\_\_\_\_

Owner's Full Legal Name \_\_\_\_\_

Number of years engaged in business \_\_\_\_\_

Names of Current Partners

\_\_\_\_\_  
Name & Title (if any) Residential Address (street only)

\_\_\_\_\_  
Name & Title (if any) Residential Address (street only)

\_\_\_\_\_  
Name & Title (if any) Residential Address (street only)

\_\_\_\_\_  
Name & Title (if any) Residential Address (street only)

Does the proposer have a "permanent place of business" in Connecticut, as defined above?

\_\_\_\_\_ Yes                      \_\_\_\_\_ No

If yes, please state the full street address (not a post office box) of that "permanent place of business."

\_\_\_\_\_

\_\_\_\_\_  
Proposer's Full Legal Name

\_\_\_\_\_  
(print)  
Name and Title of Proposer's Authorized Representative

\_\_\_\_\_  
(signature)  
Proposer's Representative, Duly Authorized

\_\_\_\_\_  
Date

TOWN OF LEDYARD, CONNECTICUT

[Ledyard High School Asbestos Abatement](#)

PROPOSAL LPS-2020-1

**HOLD HARMLESS AGREEMENT**

Contractor/organization agrees that it will indemnify and hold harmless the Ledyard Board of Education its respective officers, agents and employees from any loss, costs, damages, expenses, judgments and liability whatsoever kind or nature howsoever the same may be caused resulting directly or indirectly by any act or omission of the contractor, any subcontractor, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable resulting in bodily injury including sickness and death, personal injury or damage to property directly or indirectly, including the loss of use resulting there from as permitted by law unless and to the extent caused by the Ledyard Board of Education's willful acts.

I/we understand the conditions set forth within this instrument and agree to provide the required certification and will hold the Ledyard Board of Education harmless as outlined in the above statement.

CONTRACTOR/ORGANIZATION NAME

\_\_\_\_\_  
AUTHORIZED SIGNATURE

\_\_\_\_\_  
PRINTED NAME

\_\_\_\_\_  
AUTHORIZED SIGNATURE

\_\_\_\_\_  
PRINTED NAME

\_\_\_\_\_  
DATE

END OF LEGAL STATUS DISCLOSURE FORM



**TOWN OF LEDYARD, CONNECTICUT**

**Ledyard High School Asbestos Abatement**

**PROPOSER'S CERTIFICATION**

**Concerning Equal Employment Opportunities  
And Affirmative Action Policy**

I/we, the proposer, certify that:

- 1) I/we are in compliance with the equal opportunity clause as set forth in Connecticut state law (Executive Order No. Three, <http://www.cslib.org/exeorder3.htm>).
- 2) I/we do not maintain segregated facilities.
- 3) I/we have filed all required employer's information reports.
- 4) I/we have developed and maintain written affirmative action programs.
- 5) I/we list job openings with federal and state employment services.
- 6) I/we attempt to employ and advance in employment qualified handicapped individuals.
- 7) I/we are in compliance with the Americans with Disabilities Act.
- 8) I/we (check one):  
\_\_\_\_\_ have an Affirmative Action Program, or  
\_\_\_\_\_ employ 10 people or fewer.

\_\_\_\_\_  
Legal Name of Proposer

\_\_\_\_\_  
(Signature)  
Proposer's Representative, Duly Authorized

\_\_\_\_\_  
Name of Proposer's Authorized  
Representative

\_\_\_\_\_  
Title of Proposer's Authorized Representative

\_\_\_\_\_  
Date

**TOWN OF LEDYARD, CONNECTICUT**

**PROPOSER'S NON COLLUSION AFFIDAVIT**

**PROPOSAL FOR:**

**PROPOSAL NUMBER:**

The undersigned proposer, having fully informed himself/herself/itself regarding the accuracy of the statements made herein, certifies that:

- (1) the proposal is genuine; it is not a collusive or sham proposal;
- (2) the proposer developed the proposal independently and submitted it without collusion with, and without any agreement, understanding, communication or planned common course of action with, any other person or entity designed to limit independent competition;
- (3) the proposer, its employees and agents have not communicated the contents of the proposal to any person not an employee or agent of the proposer and will not communicate the proposal to any such person prior to the official opening of the proposal; and
- (4) no elected or appointed official or other officer or employee of the Town of Ledyard is directly or indirectly interested in the proposer's proposal, or in the supplies, materials, equipment, work or labor to which it relates, or in any of the profits thereof.

The undersigned proposer further certifies that this affidavit is executed for the purpose of inducing the Town of Ledyard to consider its proposal and make an award in accordance therewith.

\_\_\_\_\_  
Legal Name of Proposer

\_\_\_\_\_  
(signature)  
Proposer's Representative, Duly Authorized

\_\_\_\_\_  
Name of Proposer's Authorized Representative

\_\_\_\_\_  
Title of Proposer's Authorized Representative

\_\_\_\_\_  
Date

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_,  
20\_\_\_\_.

\_\_\_\_\_  
Notary Public  
My Commission Expires:

STATE OF CONNECTICUT BIDDER QUALIFICATION STATEMENT

SECTION 00 45 14  
GENERAL CONTRACTOR'S  
BIDDER QUALIFICATION STATEMENT

GENERAL CONTRACTOR  
BIDDER'S QUALIFICATION STATEMENT

All bidders are required to file this form, properly completed, WITH THEIR PROPOSAL. Failure of a bidder to answer any question or provide required information may be grounds for the awarding authority to disqualify and reject the bid. If a question or request for information does not pertain to your organization in any way, use the symbol "NA" (Not Applicable). Use additional 8 ½ x 11" sheets with your letterhead as necessary.

THE DEPARTMENT RESERVES THE RIGHT TO REQUEST ANY ADDITIONAL OR SUPPLEMENTAL INFORMATION NECESSARY TO COMPLETE ITS EVALUATION OF A BIDDER'S QUALIFICATION.

1. Indicate exactly the name by which this organization is known:

Name: \_\_\_\_\_

2. How many years has this organization been in business under its present business name?

Years \_\_\_\_\_

3. How many years has this organization been in business as a General Contractor?

Years: \_\_\_\_\_

4. Indicate all other names by which this organization has been known and the length of time known by

each name:

4.1 \_\_\_\_\_

4.2 \_\_\_\_\_

4.3 \_\_\_\_\_

5. This firm is a:

Corporation \_\_\_\_\_

Partnership \_\_\_\_\_

Sole Proprietorship \_\_\_\_\_

Joint Venture \_\_\_\_\_

Other \_\_\_\_\_

TOWN OF LEDYARD, CONNECTICUT

PROPOSAL #LPS-2020-1  
LEDYARD PUBLIC SCHOOLS

PROPOSER'S STATEMENT OF REFERENCES

Provide at least three (3) references of projects comparable in scope:

1. BUSINESS NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY, STATE \_\_\_\_\_  
TELEPHONE: \_\_\_\_\_  
INDIVIDUAL CONTACT NAME AND POSITION  
\_\_\_\_\_

2. BUSINESS NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY, STATE \_\_\_\_\_  
TELEPHONE: \_\_\_\_\_  
INDIVIDUAL CONTACT NAME AND POSITION  
\_\_\_\_\_

3. BUSINESS NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY, STATE \_\_\_\_\_  
TELEPHONE \_\_\_\_\_  
INDIVIDUAL CONTACT NAME AND POSITION  
\_\_\_\_\_

END OF STATEMENT OF REFERENCES

SECTION 00 45 14  
GENERAL CONTRACTOR'S  
BIDDER QUALIFICATION STATEMENT

PAGE 2 OF 5

6. Attach resumes of all supervisory personnel, such as Principals, Project Managers, and Superintendents, and Construction Scheduler (see Section 01 32 16 or 01 32 16.13 of the General Requirements, as applicable) who will be directly involved with the project on which you are now a bidder. Indicate their construction related training, certifications and licenses and the number of years of actual construction experience. Indicate the number of years of this actual construction experience which were in a Supervisory capacity.

7. List all sub-trades, which your firm customarily performs with own employees:

- 7.1 \_\_\_\_\_
- 7.2 \_\_\_\_\_
- 7.3 \_\_\_\_\_
- 7.4 \_\_\_\_\_
- 7.5 \_\_\_\_\_

8. All Construction Projects your organization has in process (attach separate sheets using the following format as necessary):

- 8.1 Specific Title & Location: \_\_\_\_\_
- 8.2 Contract Amount: \_\_\_\_\_
- 8.3 Description of your scope of work performed: \_\_\_\_\_
- 8.4 Owners Representative \_\_\_\_\_  
(Name) \_\_\_\_\_ Telephone Number \_\_\_\_\_

9. Has your organization ever failed to complete a contract, or has any officer or partner of your organization ever been an officer or partner of another organization that failed to complete a contract?

- NO
- YES

If yes, indicate the circumstances leading to the project failure and the name of the company which provided the bonding for the failed contract(s):

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

10. Has your organization ever had a contract terminated?

NO \_\_\_

YES \_\_\_

If yes indicate the circumstances leading to the project termination of contract(s):

---

---

11. Has your organization had any legal or administrative proceedings against the organization, or any officers, principals, partners, members, or employees of the organization currently pending or concluded adversely within the last five years, and any judicial or administrative sanctions that are still in effect against such organization, and any of its officers, principals, partners, members, or employees? (Exclude OSHA violations which are called for elsewhere in this statement.)

NO \_\_\_

YES \_\_\_

If yes, list and explain:

---

---

12. Has your organization had any disbarments or suspensions that have been imposed in the past five years or that was still in effect during the five year period or is still in effect?

NO \_\_\_

YES \_\_\_

If yes, list and explain; such list must include disbarments and suspensions of officers, principals, partners, members, and employees of your organization:

---

---

13. Has your organization had any other reason that precludes your organization or any officer, principal, partner, member, or employees thereof from bidding on a contract in Connecticut or any other jurisdiction?

NO \_\_\_

YES \_\_\_

If yes. list and explain:

---

---

SECTION 00 45 14  
GENERAL CONTRACTOR'S  
BIDDER QUALIFICATION STATEMENT

---

PAGE 4 OF 5

14. Has your organization had any willful or serious violations of any Occupational Safety and Health Act (OSHA) or of any standard, order or regulation promulgated pursuant to such act, during the three-year period preceding the bid, provided such violations were cited in accordance with the provisions of any State Occupational Safety and Health Act or Occupational Safety and Health Act of 1970?

NO

YES

If yes, list and explain; indicate whether these were abated within the time fixed by the citation or whether the citation was appealed. If appealed, what is the status or disposition?

15. Has your organization had any criminal convictions related to the injury or death of any employee in the three year period preceding the bid?

NO

YES

If yes, list and explain any such convictions:

16. Have there been any changes in your company's financial condition or business organization, which might affect your company's ability to successfully complete this contract?

NO

YES

If yes, list and explain:

---

CT DCS - 6000 - Bid Phase Forms- 09.01.11 PROJECT NO.: LPS-2020-1

Town of Ledyard

SECTION 00 45 14  
GENERAL CONTRACTOR'S  
BIDDER QUALIFICATION STATEMENT

PAGE 5 OF 5

Dated at \_\_\_\_\_

Signed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_

Name of Organization:

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

Signature \_\_\_\_\_  
(Print Name) \_\_\_\_\_

Notary Statement:

Mr./Mrs./Ms. \_\_\_\_\_ being duly sworn

Deposes and says that he/she is the \_\_\_\_\_  
of

(Position or Title)

\_\_\_\_\_, and that the answers to the  
Foregoing

(Firm Name)

Questions and all statements therein contained are true and correct.

Notary Public \_\_\_\_\_

My Commission Expires \_\_\_\_\_, 20\_\_

END OF SECTION

CT DCS • 6000 - Bid Phase Forms- 09.01.11 PROJECT NO.: LPS-2020-1

Town of Ledyard



**STATE OF CONNECTICUT  
Contractor Verification  
(in accordance with Public Act 16-67)**

**Directions to Contractor:** Connecticut law requires that any contractor applying or bidding for a contract (including individuals who are independent contractors) with a local or regional board of education, a governing council of a state or local charter school, or interdistrict magnet school operator require any employee with the contractor who would be in a position involving direct student contact to supply the contractor with the information provided in this form. Information may be collected either through a written communication or telephonically.

In addition, pursuant to Connecticut General Statutes (C.G.S.) § 10-233c, the contractor is required to contact – either telephonically or through written communication – any current or former employer of an employee if such employer was a local or regional board of education, a governing council of a state or local charter school, or interdistrict magnet school operator or if the employment caused the employee to have contact with children, to request any information concerning whether there was a finding of abuse or neglect or sexual misconduct against the employee. If the contractor receives any information indicating such a finding, or otherwise has knowledge of such a condition, the contractor must immediately forward such information to any local or regional board of education with which the contractor is under contract.

**Directions to Employee of Contractor:** Pursuant to Connecticut state law, employees of a contractor who would be in a position involving direct student contact must supply all of the information provided in Section 2 of this form.

**Section 1 – To be completed by Contractor**

Name	
Street address	
City, State, Zip Code	
Contact person	
Telephone number/email address	

**Section 2 – To be completed by Employee of Contractor**

**Part A.** Please list the name, address and telephone number of each current or former employer below, if such current or former employer was a local or regional board of education, a governing council of a state or local charter school, or interdistrict magnet school operator, or if such employment otherwise caused you to have contact with children.

Employer 1: Name \_\_\_\_\_ Address: \_\_\_\_\_ Phone \_\_\_\_\_

Employer 2: Name \_\_\_\_\_ Address: \_\_\_\_\_ Phone \_\_\_\_\_

Employer 3: Name \_\_\_\_\_ Address: \_\_\_\_\_ Phone \_\_\_\_\_

Employer 4: Name \_\_\_\_\_ Address: \_\_\_\_\_ Phone \_\_\_\_\_

Employer 5: Name \_\_\_\_\_ Address: \_\_\_\_\_ Phone \_\_\_\_\_

Employer 6: Name \_\_\_\_\_ Address: \_\_\_\_\_ Phone \_\_\_\_\_

Employer 7: Name \_\_\_\_\_ Address: \_\_\_\_\_ Phone \_\_\_\_\_

Employer 8: Name \_\_\_\_\_ Address: \_\_\_\_\_ Phone \_\_\_\_\_

Employer 9: Name \_\_\_\_\_ Address: \_\_\_\_\_ Phone \_\_\_\_\_

**Part B.** Please complete the questions below in their entirety.

Have you ever (check one):

Y  N

Been the subject of an abuse or neglect or sexual misconduct investigation by any employer, state agency or municipal police department (answer "no" if the investigation resulted in a finding that all allegations were unsubstantiated)?

Y  N

Been disciplined or asked to resign from employment or resigned from or otherwise separated from any employment while an allegation of abuse or neglect was pending or under investigation by the Department of Children and Families (the "department"), or an allegation of sexual misconduct was pending or under investigation or due to an allegation substantiated pursuant to section 17a-101g of abuse or neglect, or of sexual misconduct or a conviction for abuse or neglect or sexual misconduct?

Y  N

Had a professional or occupational license or certificate suspended or revoked or ever surrendered such a license or certificate while an allegation of abuse or neglect was pending or under investigation by the department or an investigation of sexual misconduct was pending or under investigation, or due to an allegation substantiated by the department of abuse or neglect or of sexual misconduct or a conviction for abuse or neglect or sexual misconduct

**Part C – Written Consent and Disclosure Authorization.**

I hereby authorize the entities I have listed in Section 2 of this form to release to the entity listed in Section 1 of this form the information required to be released by my previous employer pursuant to (C.G.S.) § 10-222c along with any related records. I hereby consent to and authorize disclosure by the State Department of Education of the information requested pursuant to C.G.S. § 10-222c, as amended by Public Act 16-67, and I hereby authorize the release by the State Department of Education of any related records. I further hereby release the above-named employer(s) and the State Department of Education from any and all liability of any kind that may arise from the disclosure or release of records requested pursuant to C.G.S. § 10-222c, as amended by Public Act 16-67.

\_\_\_\_\_  
Signature of Applicant

\_\_\_\_\_  
Date

**NOTES:**

The terms provided below are currently defined in state law as follows. Please note that statutes may be amended from time to time.

Sexual Misconduct means – “any verbal, nonverbal, written or electronic communication, or any other act directed toward or with a student that is designed to establish a sexual relationship with the student, including a sexual invitation, dating or soliciting a date, engaging in sexual dialog, making sexually suggestive comments, self-disclosure or physical exposure of a sexual or erotic nature and any other sexual, indecent or erotic contact with a student.” Connecticut General Statutes § 10-222c(k).

Abuse or neglect means – “abuse or neglect as described in Section 46b-120, and includes any violation of Sections 53a-70, 53a-70a, 53a-71, 53a-72a, 53a-72b or 53a-73a.” Connecticut General Statutes § 10-222c(k).

The Connecticut State Department of Education is an affirmative action/equal opportunity employer and does not discriminate on the basis of race, color, religion, sex, gender identity or expression, sexual orientation, marital status, national origin, ancestry, age, criminal record, political beliefs, genetic information, intellectual disability, past or present history of mental disability, learning disability, or physical disability, including, but not limited to, blindness or any other basis prohibited by Connecticut state and/or federal nondiscrimination laws.

**CONTRACT FOR Ledyard High School Asbestos Abatement Services**

This Contract is made as of the \_\_\_\_ day of \_\_\_\_\_, 20\_\_ (the "EffectiveDate"), by and between the Town of Ledyard, \_\_\_\_\_, Ledyard, Connecticut, a municipal corporation organized and existing under the laws of the State of Connecticut (the "Town"), and [name and address of successful proposer] (the "Contracting Party").

**RECITALS:**

WHEREAS, the Town has issued a Request for Proposals for **Ledyard High School Asbestos Abatement Services** (the "RFP"), a copy of which, along with any addenda, is attached as Exhibit A;

WHEREAS, the Contracting Party submitted a proposal to the Town dated \_\_\_\_\_ (the "Proposal"), a copy of which is attached as Exhibit B;

WHEREAS, the Town has selected the Contracting Party to perform the Work (as defined in Section 1 below); and

WHEREAS, the Town and the Contracting Party desire to enter into a formal contract for the performance of the Work.

NOW THEREFORE, in consideration of the recitals set forth above and the parties' mutual promises and obligations contained below, the parties agree as follows:

1. **Work:** The Contracting Party agrees to perform the Work described more fully in the attached Exhibits A and B [Note: if the Proposal has taken any exceptions to the RFP, this provision should be amended to include specific statements about whether the Town has accepted or rejected those exceptions – whether they are contrary to or in addition to the RFP's terms. (collectively, the "Work").

The Contracting Party also agrees to comply with all of the terms and conditions set forth herein and in the RFP, including but not only **all of the terms set forth in Section 26 (the "Contract Terms")** of the Standard Instructions to Bidders.

2. **Term:** [placeholder – will vary from contract to contract]

3. **Contract Includes Exhibits; Order of Construction:** The Contract includes the RFP (Exhibit A) and the Proposal (Exhibit B), which are made a part hereof. In the event of a conflict or inconsistency between or among this document, the RFP, and the Proposal, this document shall have the highest priority, the RFP the second priority, and the Proposal the third priority.

4. **Price and Payment:** [placeholder – will vary from contract to contract. ]

5. Right to Terminate: If the Contracting Party's fails to comply with any of the terms, provisions or conditions of the Contract, including the exhibits, the Town shall have the right, in addition to all other available remedies, to declare the Contract in default and, therefore, to terminate it and to resubmit the subject matter of the Contract to further public procurement. In that event, the Contracting Party shall pay the Town, as liquidated damages, the amount of any excess of the price of the new contract over the Contract price provided for herein, plus any legal or other costs or expenses incurred by the Town in terminating this Contract and securing a new contracting party.

6. No Waiver or Estoppel: Either party's failure to insist upon the strict performance by the other of any of the terms, provisions and conditions of the Contract shall not be a waiver or create an estoppel. Notwithstanding any such failure, each party shall have the right thereafter to insist upon the other party's strict performance, and neither party shall be relieved of such obligation because of the other party's failure to comply with or otherwise to enforce or to seek to enforce any of the terms, provisions and conditions hereof.

7. Notice: Any notices provided for hereunder shall be given to the parties in writing (which may be hardcopy, facsimile, or e-mail) and shall be effective upon receipt at their respective addresses set forth below:

If to the Town:

Ledyard Public Schools, Attention Samuel Kilpatrick  
4 Blonders Boulevard, Ledyard, CT 06339  
860-464-8589; samkilpatrick@ledyard.net

If to the Contracting Party:

*[name, address, fax and e-mail]*

8. Execution: This Contract may be executed in one or more counterparts, each of which shall be considered an original instrument, but all of which shall be considered one and the same agreement, and shall become binding when one or more counterparts have been signed by each of the parties hereto and delivered (including delivery by facsimile) to each of the parties.

9. Change Orders: Should changes in conditions occur due to no fault of the contractor that require changes to the specifications, scope, or sequence of the work, a written request should be made for a modification to this contract in writing to the address specified in Section 7. – Notice. Failure to properly inspect the premises during the inspection phase of the RFP does not constitute a change in conditions. Should the cost of the change order exceed the cost of the originally proposed work, the contractor markup and overhead may not exceed (10) percent; pass-through markup may not exceed (5) percent; under no circumstance shall the aggregate markup for overhead and exceed twenty (20) percent.

IN WITNESS THEREOF, the parties have executed this contract as of the last date signed below.

TOWN OF LEDYARD

By \_\_\_\_\_  
Name  
Its **Town Manager/First Selectman**,  
Duly Authorized  
Date: \_\_\_\_\_

[CONTRACTING PARTY LEGAL NAME]

By \_\_\_\_\_  
Its \_\_\_\_\_, Duly Authorized  
Date: \_\_\_\_\_

## Appendix A Prevailing Wage Rates

Minimum Rates and Classifications for  
Heavy/Highway Construction  
ID#: H 23459

### 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: 072-0095 CV

Project Town: Ledyard

**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.

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Classification	Hourly Rate	Hourly Benefit
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	\$29.30
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
-----LABORERS-----		
4) Group 1: Laborers (common or general), acetylene burners, carpenter tenders, 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
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/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
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
8) Glazier (Trade License required: FG-1,2)	\$37.18	\$21.05 + a
9) Ironworker, Ornamental, Reinforcing, Structural, and Precast Concrete Erection	\$36.67	\$35.77
-----OPERATORS-----		

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
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
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
Group 4: Trenching Machines; Lighter Derrick; Concrete Finishing Machine; CMI Machine or Similar; Koehring Loader (Skooper).	\$39.48	\$24.80 + a
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	\$38.87	\$24.80 + a
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
7: Asphalt roller, concrete saws and cutters (ride on types), vermeer concrete cutter, Stump Grinder; Scraper; Snooper; Skidder; Milling Machine (24	\$38.20	\$24.80 + a
8: Mechanic, grease truck operator, hydroblaster; barrier mover; power stone spreader; welding; work boat under 26 ft.; transfer machine.	\$37.79	\$24.80 + a

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
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
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
Group 15: Generator Operator; Compressor Operator; Pump Operator; Welding Machine Operator; Heater Operator.	\$32.99	\$24.80 + a
16: Maintenance Engineer/Oiler.	\$32.32	\$24.80 + a
Group 17: Portable asphalt plant operator; portable crusher plant operator; portable concrete plant operator.	\$36.76	\$24.80 + a
18: Power safety boat; vacuum truck; zim mixer; sweeper; (Minimum for any job requiring a CDL license).	\$34.26	\$24.80 + a
-----PAINTERS (Including Drywall Finishing)-----		
10a) Brush and Roller	\$33.62	\$21.05
10b) Taping Only/Drywall Finishing	\$34.37	\$21.05
10c) Paperhanger and Red Label	\$34.12	\$21.05
10e) Blast and Spray	\$36.62	\$21.05
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)	\$36.70	\$19.85
14) Roofer (slate & tile)	\$37.20	\$19.85
15) Sheetmetal Worker (Trade License required for HVAC and Ductwork:M-1,SM-2,SM-3,SM-4,SM-5,SM-6)	\$37.98	\$38.31
16) Pipefitter (Including HVAC work) (Trade 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 & G9)	\$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
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
19) Theatrical Stage Journeyman	\$25.76	\$7.34

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 boom including jib, 150 feet - \$1.50 extra.

Crane with boom including jib, 200 feet - \$2.50 extra.

Crane with boom including jib, 250 feet - \$5.00 extra.

Crane with boom including jib, 300 feet - \$7.00 extra.  
Crane with boom including jib, 400 feet - \$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 one apprentice in a specific trade.

Connecticut General Statute Section 31-55a: Annual Adjustments to wage rates by contractors doing state work

- 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.ctdol.state.ct.us](http://www.ctdol.state.ct.us).
- 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.

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 Persons 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.*