

**TOWN OF RIDGEFIELD  
Office of the Town Engineer**

**RIDGEFIELD, CONNECTICUT**

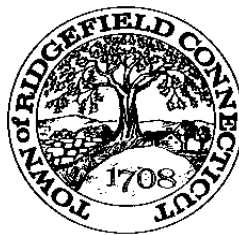
***Energy Conservation & Building  
Maintenance***

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***Highway Department Complex,  
Miscellaneous Painting Services  
60 South Street, Ridgefield, Connecticut***

**October, 2017**

**DETAILED SPECIFICATIONS:**  
**BIDDING REQUIREMENTS**  
**PROJECT DESCRIPTION**



**RUDY MARCONI  
FIRST SELECTMAN**

**CHARLES R. FISHER, P.E., L.S.  
TOWN ENGINEER**

**Bid Number 2018-11**

# LEGAL NOTICE

## INVITATION to BID

The **Town of Ridgefield** invites all interested parties to submit sealed bids on the following:

**BID DUE DATE:** October 20, 2017  
**BID DUE TIME:** 11:00 AM  
**BID ITEM:** Energy Conservation & Building  
Maintenance, Highway Department  
Complex, Miscellaneous Painting Services,  
60 South Street, Ridgefield CT  
**BID NUMBER:** 2018-11

Terms and conditions as well as the description of items being bid are stated in the specifications. **Specifications may be obtained at the following address:**

**Town of Ridgefield  
Kenneth Sandberg  
400 Main Street  
Ridgefield, CT. 06877  
203 - 431 – 2720**

The return bid envelope must be marked and addressed to the following:

**TOWN OF RIDGEFIELD  
DIRECTOR OF PURCHASING  
BID NUMBER: 2018-11  
400 MAIN STREET  
RIDGEFIELD, CT. 06877**

Bids must be received no later than the date and time stated above at the Purchasing Director's office on the second floor. **For further information,** please call **Kenneth Sandberg** at (203) 431-2720 or E-Mail at **[purchasing@ridgefieldct.org](mailto:purchasing@ridgefieldct.org)**

**Bid Documents available at [www.ridgefieldct.org](http://www.ridgefieldct.org) in the Purchasing section under Departments**

**Results may be viewed at [www.ridgefieldct.org](http://www.ridgefieldct.org) in the Purchasing Section under Departments after the bid opening.**





The information depicted on this map is for planning purposes only. It is not adequate for legal boundary definition, regulatory interpretation, or parcel-level analyses.

## Location Plan, Highway Department, 60 South Street

8/5/2016 11:58:50 AM



1:2400  
1"=200'



Town of Ridgefield  
Office of the Town Engineer  
Energy Conservation & Building Maintenance

Highway Department Complex Miscellaneous Painting Services

**Project Scope**

The project consists of the exterior painting and repair of the three maintenance buildings within the Highway Department complex located at 60 South Street. Included are the main office/garage/rifle range building (Garage 1), the maintenance/garage building (Garage 2), and the wooden salt storage building. In general, the Contractor shall provide all labor, materials, tools, and equipment necessary to completely prepare, repair and make ready for painting, prime, and paint where described at the subject building. The lump sum price bid on this project shall include payment for, but not be limited to, the following:

1. Power wash the exterior surfaces subject to painting, then sand and scrape all loose paint.
  2. The Contractor shall complete any carpentry necessary to repair and/or secure any rot, overly weathered, or loose siding materials as determined in the field. The Contractor shall also complete any work necessary to repair any damaged masonry. The Contractor shall supply all materials required to complete the repairs which shall be included with the lump sum price.
    - a. Garage 1: Remove and replace 12 sheets of T 1-11 at exterior stairwell. Remove and replace 4 sheets of T 1-11 at lower exit door and 1 sheet of T 1-11 on ceiling area at the lower exit door. Remove and replace 2 sheets of T 1-11 at front of building, top left corner. Repair soffits as required. Replace drip caps and edges as necessary. Caulk as necessary. Repair all damaged masonry as required.
    - b. Garage 2: Remove and replace 4 sheets of T 1-11 at side facing the Sewage Treatment Plant. Remove and replace 8 sheets of T 1-11 at front of building facing Garage 1. Repair soffits as required. Replace drip caps and edges as necessary. Caulk as necessary. Repair all damaged masonry as required.
    - c. Wood framed salt storage shed: Remove and replace 4 sheets of T 1-11 on southerly side. Caulk as necessary.
- Galvanized nails and screws shall be used to secure the panels. Portland cement and new concrete blocks shall be used for all masonry repairs.
3. Apply one coat exterior primer for new wood surfaces then two coats exterior paint or stain, best quality, over all surfaces including exterior entry doors and overhead doors. Colors are to be determined by the Engineer in the field.
    - a. Garage 1: All wood and block surfaces semi-gloss paint or stain, overhead doors flat paint.
    - b. Garage 2: All wood, block, and metal surfaces semi-gloss paint or stain, overhead doors flat paint.
    - c. Wood framed salt storage shed: All wood surfaces semi-gloss stain.



4. The Contractor shall observe all manufacturer's required application temperatures and weather conditions.
5. Contractor to protect all roof areas and grounds against paint and paint products and cleanup as work proceeds.
6. The Contractor shall abide by any and all applicable environmental laws and regulations.
7. The Contractor shall provide sanitary facilities for his workers. The Contractor's employees are prohibited from entering the buildings except under emergency circumstances.
8. The Contractor's attention is directed to the November, 2013 "Limited Lead-Based Paint Screening Report" attached to these specifications.
9. The public shall be protected from the Contractor's painting operations at all times.
10. All work, excluding emergency repairs, shall be conducted Monday through Friday between the hours of 7:00 AM and 6:00 PM.
11. Site cleanup upon completion.
12. The Contractor shall coordinate his work so as to not interfere with the use of the facilities.

The Contractor shall obtain all necessary permits and pay all associated fees.

The Contractor is responsible to familiarize himself with all aspects of the existing conditions prior to submitting a bid. By submitting a bid, the Contractor acknowledges that he has visited the site and is aware of the conditions involved in meeting the project's intent. Arrangements for visiting the site may be made by contacting Brian Hubbard, Building Maintainer, at 203-994-0347 during normal business hours or Kenneth Sandberg, Purchasing Director, at 203-431-2720 during normal business hours.

It is the Contractor's responsibility to determine the exact amount of effort required to meet the project's intent and reflect that effort in his submitted lump sum bid. The Contractor shall submit on his letterhead the total lump sum price for all work described within these specifications broken down for each building. The contract award will be based on the lowest total lump sum bid.

The Town reserves the right to eliminate any item, quantity, or portion of the work that it deems to be in the best interest of the Town.

Any inconsistencies shall be reported to the Town Engineer. The Town Engineer shall make the final decision on any inconsistencies and their intent.

The Contractor shall submit with his bid the following information:

- (a) Insurance certificates
- (b) Hold Harmless Agreement
- (c) Contractor's Qualification Statement
- (d) Contractor's List of Subcontractors

- (e) Signed bid proposal on the Contractor's letterhead listing total bid sum broken down for each building.
- (f) Project Schedule

# **TOWN OF RIDGEFIELD CONNECTICUT**

## **BOARD OF SELECTMEN**

### **INSTRUCTIONS TO BIDDERS**

1. Submit proposals in a sealed envelope plainly marked with bid number to identify this particular proposal.
2. Withdrawals of or amendments to bids received later than the time and date specified for bid opening will not be considered.
3. The Board of Selectmen of the Town of Ridgefield reserves the right to accept or reject any or all options, bids or proposals; to waive any technicality in any bid or part thereof, and to accept any bid deemed to be in the best interest of the Town of Ridgefield, Connecticut.
4. Bidders may be present at the opening of bids.
5. Bids may be held by the Town of Ridgefield for a period not to exceed sixty (60) days from the opening of bids for the purpose of reviewing the bids and investigating the qualifications of bidders prior to the awarding of the contract.
6. Insurance requirements, if any, must be submitted with the bid. This includes any Hold Harmless requirements as well as Certificates of Insurance for the full amounts specified. **Unauthorized changes** to these forms, i.e. adding, striking out and/or changing any words, language or limits **will cause the bidder to be disqualified.**

**Please Note:** Certificates of Insurance, if required, MUST name the Town of Ridgefield as **Additional Insured**. Failure to do so will mean disqualification from the Bid. There will no exceptions.

7. **Permits:** It is the Contractor's responsibility to obtain any necessary permits prior to the start of construction. All work shall be completed in compliance with the latest edition of the prevailing fire prevention and building codes in effect in the State of Connecticut, the latest edition of the State of Connecticut Department of Transportation Standard Specifications for Roads, Bridges and Incidental Construction, Town of

Ridgefield Road Construction Standards, or as set forth in these specifications.

8. **Emergency Work:** The Contractor shall file with the Engineer a telephone number of a person authorized by him who may be contacted regarding emergency work at the job site that may be required during non-working hours for reasons of public safety. The person shall be readily available and have full authority to deal with any emergency that may occur.
9. **Sales Tax:** In accordance with the provisions of Special Act No. 77-98, as amended, and Section 12-412(a) of the Connecticut General Statutes, sales of tangible personal property and services to the Town are not subject to the Connecticut Sales and Use Tax, and such tax shall not be included as part of the bid.
12. **Contractor's Qualification Statement:** The Contractor's Qualification Statement must be filled out as part of the bid package and the experience and references listed therein will be one of the determining factors in the awarding of the bid.
13. **Hold Harmless Agreement:** In order for the bid to be considered valid, the Contractor **must** sign the enclosed hold harmless agreement. Bids submitted without the signed hold harmless agreement will be rejected.
14. **Prevailing Wage Rates:** This project **is not** subject to the State of Connecticut's prevailing wage rates.
15. **SBE/MBE and Contract Compliance Requirements:** This project **is not** subject to the State of Connecticut SBE/MBE set aside and contract compliance requirements.
16. **Time of Completion:** All work must be completed within **60 days** weather dependent from receipt of the notice to proceed
17. **Bonds:** Payment and Performance bonds are not required for this bid.
18. **Bid Bond:** A Bid Bond is not required for this bid.
19. **Project Location:** The project is located at on Town of Ridgefield property at 60 South Street, Ridgefield, Connecticut.
20. Questions regarding bid procedures should be directed to Kenneth Sandberg, Director of Purchasing at 203-431-2720.
21. **Bid Submissions:** The following items shall be submitted for a bid to be considered complete:



- (a) Insurance certificates
- (b) Hold Harmless Agreement
- (c) Contractor's Qualification Statement
- (d) Contractor's List of Subcontractors
- (e) Signed bid proposal on the Contractor's letterhead listing total bid sum broken down for each building.
- (f) Project Schedule

## **Supplemental Information for Bidders and General Contract Provisions**

### **1. PREPARATION OF PROPOSALS**

Proposals must be made upon forms contained herein or as directed elsewhere. The blank spaces in the Proposal must be filled in correctly where indicated. The Bidder must state the prices for which he proposes to do each item of the work contemplated. In case of discrepancy where both words and the numerals are requested, the words shall govern. Ditto marks are not considered writing or printing and shall not be used. The Bidder shall sign his Proposal correctly. If the Proposal is made by an individual, his name, post office addresses and telephone number must be shown. If made by a firm, partnership, or corporation, the Proposal must be signed by an official of the firm, partnership, or corporation authorized to sign contracts, and must show the post office address and telephone number of the firm, partnership, or corporation. Failure to do so may disqualify the bid.

Each bid must be submitted in a sealed envelope bearing on the outside the name of the Bidder, post office address, bid number, and name of the project for which the bid is submitted. If forwarded by mail, the sealed envelope containing the bid must be enclosed in another envelope addressed to: The Director of Purchasing, Town Hall, 400 Main Street, Ridgefield, CT 06877.

All information shall be entered in ink or by typewriter. Mistakes may be crossed out and corrections inserted before submission of your bid. The person signing the bid shall initial corrections in ink.

Corrections and/or modifications received after the closing time specified will not be accepted.

### **2. SUBMISSION OF PROPOSALS**

Descriptive literature containing complete specifications must accompany each bid. If a bidder wishes to furnish additional information, more sheets may be added.

### **3. INCURRING COSTS**

The Town of Ridgefield is not liable for any cost incurred for the preparation of proposals or submission of samples by the firms submitting proposals for the work requested in this bid document or request for proposals.

### **4. FAMILIARITY WITH THE WORK**

Each bidder is considered to have examined the work to fully acquaint him with the exact existing conditions relating to the work and has fully informed himself as to the work involved and the difficulties and restrictions attending the performance of this bid. The submission of a bid will be considered as conclusive evidence that the bidder has made such examination.

**5. CONSIDERATION OF PRIOR SERVICE**

Previous performance, quality of service and merchandise will be considered.

**6. ADDENDA AND INTERPRETATIONS & ALTERNATE PROPOSALS**

At the time of the opening of bids each bidder will be presumed to have inspected the work and to have read and to be thoroughly familiar with all of the Contract Documents (including all addenda). The failure or omission of any bidder to receive or examine any form, instruction or document shall in no way relieve any bidder from any obligation in respect to his bid.

If any person contemplating submitting a proposal is in doubt as to the true meaning of any part of these specifications, he may submit a written request for an interpretation to the Purchasing Director. No interpretations as to the meaning of the plans, specifications or other Contract Documents will be made to any bidder orally. Every request for such interpretation should be in writing addressed to the Town of Ridgefield, Director of Purchasing, 400 Main Street, Ridgefield, Connecticut 06877, and to be given consideration, must be received at least five (5) days prior to the date fixed for the opening of Bids. Any and all such interpretations and any supplementary instructions will be in the form of written Addenda to the Specifications which, if issued, will be mailed by Registered Mail with Return Receipt Requested to all prospective bidders at the respective addresses furnished for such purposes, not later than three (3) days prior to the date fixed for the opening of bids. Failure of any bidder to receive any such Addendum or interpretations shall not relieve any bidder from any obligations under his bid as submitted. All Addenda so issued shall become part of the Contract Documents. Oral explanations will not be binding on the Town.

The specifications listed are to be interpreted as meaning the minimum acceptable by the Town of Ridgefield. Bidders are requested to submit quotations on the basis of these specifications. Alternative bids providing a broader scope and/or services than requested in these specifications may receive consideration providing such equipment and/or service is clearly explained. Any exceptions to the specifications requested herein must be clearly noted in writing and are to be included as a part of your bid proposal. If none are included it will be assumed that there are none.

Definition of the word "complete" means that each unit of the equipment proposed shall include all appurtenances, fasteners, parts, accessories, and services ordinarily catalogued.

An item equal to that named or described in the specifications may be furnished by the Bidder, except where expressly noted as "no substitutions." The naming of any commercial name, trademark, or other identification shall not be construed to exclude any item of any manufacturer not mentioned by name, nor limit competition, but shall establish a standard of equality only. An item shall be considered equal to the item so

named or described if:

- a. It is at least equal in quality, durability, appearance, strength and design.
- b. It will perform at least equally the function imposed by the design for the work being contracted for or the material being purchased.
- c. It conforms substantially, even with deviations, to the detailed requirements for the item in the specifications.

The Bidder shall hold the Town of Ridgefield, its officers, agents, servants, and employees, harmless from liability of any nature or kind because of use of any copyrighted or uncopyrighted compositions, secret process, patented or unpatented inventions, articles or appliances furnished or used under this bid, and agrees to defend, at his own expense, any and all actions brought against the Town of Ridgefield or himself because of the unauthorized use of such articles.

#### **7. QUOTATION LIMITATION**

Bidders shall offer only **ONE ITEM AND PRICE** for each line item bid. If an or-equal item is to be bid, the bidder is to select the brand and model that meets or exceeds the specified item, and submit his bid for that item.

#### **8. ESTIMATE OF WORK**

For bidding purposes, the work has been subdivided into unit price items. The quantities shown are to be considered as approximate only. The Purchasing Agent does not expressly or by implication agree that the actual quantity will correspond therewith, but reserves the right to increase or decrease the amount of any item or portion of the work as deemed necessary.

#### **9. SAMPLES**

Samples of articles, when required shall be furnished free of cost of any sort to the Town of Ridgefield. Samples received may be retained by the Town for future comparison. Samples which are not destroyed by testing, or which are not retained for future comparison will be returned upon request at the bidder's expense.

#### **10. WITHDRAWAL OF BID**

Bidders may withdraw their proposals at any time prior to the bid date. No agent/broker shall withdraw or cancel their proposal for a period of sixty (60) days after the bid closing date. The successful agent/broker shall not withdraw, cancel or modify their proposal.

#### **11. POWER OF ATTORNEY**

Attorneys-in-fact who sign contract bonds must file, with each bond, a certified and effectively dated copy of their power of attorney.

## **12. SUBCONTRACTORS**

Each bidder contemplating the use of any subcontractor shall submit a list of subcontractors as listed on the Bid Form. The apparent low bidder shall file with the Town of Ridgefield, within five (5) days after the date of bid opening, a complete list of the names and addresses of competent, responsible and qualified subcontractors who are actually to perform major portions of the work. This in no way restricts or limits the requirement that all subcontractors must be approved by the Town. Subcontractors listed on the Bid Form or those previously approved may not be changed without the approval of the Town of Ridgefield. Local subcontractors, material suppliers, and labor in the Town of Ridgefield should be considered and sought insofar, as is practical in the performance of this project.

## **13. QUALIFICATION OF BIDDER**

In determining the qualifications of a bidder, the Town may consider his record in the performance of any contracts for similar work into which he may have previously entered; and the Town expressly reserves the right to reject the bid of such bidder if such record discloses that such bidder, in the opinion of the Town, has not properly performed such contracts or has habitually, and without just cause, neglected the payment of bills or has otherwise disregarded his obligations to subcontractors, suppliers, state or local codes, men or employees of subcontractors. The Town may make such investigation as he deems necessary to determine the ability of the bidder to perform the work and the bidder shall furnish to the Town all such information and data for this purpose as the Town may request. The Town reserves the right to reject any bid if the evidence submitted by or the investigation of such bidder fails to satisfy the Town that such bidder is properly qualified, or that such bidder misrepresented material facts in the bid documents.

## **14. DISQUALIFICATION OF BIDDERS**

More than one proposal from an individual, firm, partnership, corporation, or an association under the same or different names will not be considered. Reasonable grounds for believing that any Bidder is interested in more than one proposal for the work contemplated will cause the rejection of all proposals in which such Bidder is interested. Any or all proposals in which such Bidder is interested will be rejected if there is reason for believing that collusion exists among the Bidders and all participants in such collusion will not be considered in future proposals for the same work. Proposals in which the prices are obviously unbalanced may be rejected. No Contract will be awarded except to competent Bidders capable of performing the class of work contemplated.

## **15. DELIVERY**

Inasmuch as this work concerns a needed public improvement, the provisions of this bid relating to the time of delivery, performance and completion of the work are of the essence of this bid. Accordingly, the successful bidder shall commence work **upon receipt of the signed Purchase Order** unless the Town shall authorize or direct a further

delay. Time of delivery shall be stated as the number of calendar days following receipt of the Purchase Order by the Bidder to receipt of the goods or services by the Town of Ridgefield. Prices quoted must include delivery to the Town of Ridgefield as specified on the Purchase Order. No charges will be allowed for parking, crating, freight, express or cartage unless specifically stated and included in this bid.

Time of delivery may be considered in the award.

## **16. PAYMENT**

The Town, after inspection and acceptance of workmanship, and in consideration of the faithful performance by the Bidder of all and singular his covenants, promises, and agreements contained herein, agrees to pay the Bidder for the full completion by him of the work embraced in this Contract, within (30) Thirty Days of the receipt of the final invoice. When subcontractors or suppliers are utilized, the successful Bidder for this project shall be required to submit a Mechanics Lien Waiver, acceptable to the Town, with each progress payment and/or at time of final payment prior to any payment being made.

Time, in connection with any discount offered, will be computed from the date of delivery to the Town or from the date a correct invoice is received by the Town's Finance Department, if the latter date is later than the date of delivery. Prices will be considered as **NET**, if no cash or payment discount is shown.

The successful bidder shall submit invoices to the following address:

Town of Ridgefield  
Office of the Town Engineer  
66 Prospect Street  
Ridgefield, CT 06877

**IT IS UNDERSTOOD AND AGREED THAT SHOULD A BID BE ACCEPTED, IT WILL AUTOMATICALLY BECOME THE CONTRACT OR AN ADDENDUM TO ANY CONTRACT AGREED UPON.**

Notification of the bid award will be made by issuance of a purchase order. Bidders are to list their bids on the appropriate attached sheets. Bidders may attach a letter of explanation. A clear notification should be made on the standard bid sheets at the appropriate point of explanation that there is a letter of explanation attached. All bids must be NET prices.

The successful bidder shall submit an itemized invoice to the Town of Ridgefield for the work as described herein.

The bidder shall be required to submit a Mechanics Lien Waiver, acceptable to the Town of Ridgefield, with each progress payment and at time of final payment prior to any



payment being made.

At the time of award, the successful bidder shall be required to supply the Town of Ridgefield a Certificate of Good Standing, certifying that the corporation is in fact a valid corporation and presently licensed to conduct business in the State of Connecticut.

**17. SALES TAX**

Certain materials and supplies incorporated in the work of this project are exempt from Connecticut Sales Tax. The Bidder shall familiarize himself with current regulations of the State Tax Department. The tax on materials or supplies exempted by such regulations shall not be included as part of the bid. The Town will furnish the successful Bidder sales tax exemption authorization.

**18. CARE AND PROTECTION OF PROPERTY**

The Bidder shall take particular care to avoid damages to all private and public property and to private or public improvements within the Town's right of way. He shall make good any damages to the satisfaction of the Town. There shall be no additional compensation for the repair or restoration of private or public property improvements.

**19. COMPLIANCE WITH FEDERAL, STATE AND LOCAL CODES**

The Bidder shall be responsible for full compliance with any Federal, State and/or Local codes, laws, regulations and standards, as applicable.

**20. AWARD**

The Town of Ridgefield reserves the right to accept or reject any bid to best serve its interests, or to hold the bids for sixty (60) days before decision.

The Town reserves the right to reject any and all bids (or any part thereof), to waive defects in proposals, or to accept any proposal deemed to be in its best interest.

**Exceptions will be considered to the specification provided, providing they are listed and fully explained on a separate page entitled "EXCEPTIONS TO SPECIFICATIONS"**

Each exception will be considered as to its degree of impact and total effect on the bid. The purchaser shall determine which (if any taken) exceptions are acceptable, and this determination shall be final.

The Town of Ridgefield reserves the right:

- a. To award bids received on the basis of individual items, or groups of items, or on the entire list of items.
- b. To reject any or all bids, or any part thereof.

- c. To waive any informality in the bids.
- d. To accept the bid that is in the best interest of the Town of Ridgefield. The Purchasing Agent's decision shall be final.

**21. INSURANCE**

Insurance requirements are detailed under the attached "Insurance Requirements."

**22. GUARANTEE**

The bidder shall unconditionally guarantee for a period of one (1) year, except as specifically noted within these documents, from the date of acceptance, all materials, supplies, equipment, and services; including but not limited to its workmanship, delivery and installation. If within the guarantee period there are any defects or signs of deterioration the bidder shall repair, adjust or replace the item(s) to the complete satisfaction of the Town. These repairs, adjustments, or replacements are at the sole expense of the bidder and shall be made at such times that are agreeable to the Purchasing Agent so that it is least detrimental to instructional programs.

**23. PERMITS**

When required all licenses and permits for complying with any applicable Federal, State, and Municipal laws, codes, regulations in connection with the prosecution of the work shall be obtained by the Bidder, at no additional cost to the Town.

**24. NONDISCRIMINATION IN EMPLOYMENT**

The successful bidder shall agree and warrant that, in the performance of this contract, he will not discriminate or permit discrimination against any person or group of persons on the grounds of race, color, sex, religion, or national origin in any manner prohibited by State, Federal, County, or Municipal law. A certification of Non-Segregated Facilities and a Certification Regarding Equal Employment Opportunity shall be considered a part of this contract.

**25. MECHANICS LIEN WAIVERS**

The successful Bidder shall be required to submit a Mechanics Lien Waiver, acceptable to the Town of Ridgefield, with each progress payment, and/or at time of final payment, prior to any payment made.

Purchasing Department, Town of Ridgefield, 400 Main Street, Ridgefield, CT.  
06877  
203-431-2720 & purchasing@ridgefieldct.org

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## **APPENDIX - INSURANCE REQUIREMENTS**

Each bidder shall carry and maintain the following insurance coverage during the period of the contract : The Certificate of Insurance for the Limits of Liability stated below should be submitted with your bid to the Purchasing Department at Town Hall. **Bidders may not perform any work until all insurance requirements are met.**

1. **Comprehensive General Liability Insurance** as will protect him, the Town, and any subcontractor performing work covered by this Contract, from claims for damages for personal injury, including accidental or wrongful death, as well as claims for property damages, which may arise from operations under this Contract whether such operations be by himself or by any subcontractor or by anyone directly or indirectly employed by either of them. Liability insurance shall include premises and operations, products, contractual, owners, and contractors protective. The minimum amounts of such insurance shall be as follows:
  - Bodily Injury Liability and Property Damage Liability:  
**\$1,000,000 each occurrence.**
  - **The Town shall be named as an Additional Insured**  
This **MUST** be stated explicitly on the Certificate or you will be **disqualified**
2. **Worker's Compensation Insurance and Employer's Liability** for all of his employees, employed at the site and in case any work is sublet, the Contractor shall require the subcontractor similarly to provide Workmen's Compensation Insurance for all employees of the later unless such employees are covered by the protection afforded by the Contractor.
  - Worker's Compensation and Employer Liability:  
Statutory Limits
3. **Comprehensive Auto Liability Insurance:**
  - **Bodily Injury Insurance and Property Damage Insurance** covering the operation of all Motor Vehicles owned, hired and/or non-owned by the Contractor, or used by the Contractor in the Prosecution of the work under the Contract, shall be in the minimum of **\$1,000,000 each occurrence.**

All policies relating to this Contract shall be so written so that the Town shall be notified of cancellation or change at least thirty (30) days prior to the effective date for each policy and type of coverage except for nonpayment which shall be ten (10 ) days prior to the cancellation. Renewal certificate covering the renewal of all policies expiring during the life of the Contract shall be filed with the Town not less than ten (10) days before the expiration of such policies. Failure to do so will result in work stoppage and possible contract cancellation.

**HOLD HARMLESS AGREEMENT**

The undersigned covenants and agrees to and shall at all times indemnify, protect and save harmless the Town of Ridgefield from and against all costs or expenses resulting from any and all losses, damages, detriments, claims, demands, cost and charges including attorneys fees the Town of Ridgefield may directly or indirectly suffer, sustain or be subjected to by reason or on account of the work to be performed pursuant to this Contract or any activities in connection with said Contract whether such losses and damages be suffered or sustained by the Town of Ridgefield directly or by its employees, licenses or invitees or be suffered or sustained by other persons or corporations who may seek to hold the Town of Ridgefield liable therefore.

The Contractor shall comply with the Provisions of the Immigration Reform and Control Act of 1986 effective and enforceable as of June 6, 1987 which Act makes unlawful the hiring for employment or subcontracting individuals failing to provide documentation of legal eligibility to work in the United States. The Contractor shall hold the Town of Ridgefield harmless for the failure of the Contractor to comply with the provisions of said Act.

IN WITNESS WHEREOF, the parties hereto have set their hand and seal this on the \_\_\_\_\_ day of \_\_\_\_\_

Signed, Seated and Delivered in the  
Presence of:

Signed:

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

**CONTRACTOR'S QUALIFICATION STATEMENT**

List below references for similar projects, including all information requested. This page must be completed and submitted with the bid.

1. Client: \_\_\_\_\_

Project Address: \_\_\_\_\_

Approximate Value: \_\_\_\_\_ Date: Started \_\_\_\_\_ Completed \_\_\_\_\_

Contact: Name \_\_\_\_\_ Telephone \_\_\_\_\_

2. Client: \_\_\_\_\_

Project Address: \_\_\_\_\_

Approximate Value: \_\_\_\_\_ Date: Started \_\_\_\_\_ Completed \_\_\_\_\_

Contact: Name \_\_\_\_\_ Telephone \_\_\_\_\_

3. Client: \_\_\_\_\_

Project Address: \_\_\_\_\_

Approximate Value: \_\_\_\_\_ Date: Started \_\_\_\_\_ Completed \_\_\_\_\_

Contact: Name \_\_\_\_\_ Telephone \_\_\_\_\_

4. Client: \_\_\_\_\_

Project Address: \_\_\_\_\_

Approximate Value: \_\_\_\_\_ Date: Started \_\_\_\_\_ Completed \_\_\_\_\_

Contact: Name \_\_\_\_\_ Telephone \_\_\_\_\_

Company: \_\_\_\_\_ Bid Title: \_\_\_\_\_

Street: \_\_\_\_\_ Bid No.: \_\_\_\_\_

City, State: \_\_\_\_\_ Telephone No.: \_\_\_\_\_



**CONTRACTOR'S LIST OF SUBCONTRACTORS**

List below the subcontractors intended to be utilized for this project. This page must be completed and submitted with the bid.

1. Firm: \_\_\_\_\_

Firm's Address: \_\_\_\_\_

Contact: Name \_\_\_\_\_ Telephone \_\_\_\_\_

Type of Work to be Performed: \_\_\_\_\_

2. Firm: \_\_\_\_\_

Firm's Address: \_\_\_\_\_

Contact: Name \_\_\_\_\_ Telephone \_\_\_\_\_

Type of Work to be Performed: \_\_\_\_\_

3. Firm: \_\_\_\_\_

Firm's Address: \_\_\_\_\_

Contact: Name \_\_\_\_\_ Telephone \_\_\_\_\_

Type of Work to be Performed: \_\_\_\_\_

4. Firm: \_\_\_\_\_

Firm's Address: \_\_\_\_\_

Contact: Name \_\_\_\_\_ Telephone \_\_\_\_\_

Type of Work to be Performed: \_\_\_\_\_

Company: \_\_\_\_\_

Bid Title: \_\_\_\_\_

Street: \_\_\_\_\_

Bid No.: \_\_\_\_\_

City, State: \_\_\_\_\_

Telephone No.: \_\_\_\_\_

CONTRACTOR'S LIST OF SUBTRACTORS

Q-2

## SECTION 042000 - UNIT MASONRY

## PART 1 - GENERAL

## 1.1 SECTION REQUIREMENTS

- A. Allowances: Furnish face brick under the Face Brick Allowance specified in Section 012000 "Price and Payment Procedures."
- B. See Section 055000 "Metal Fabrications" for furnishing steel lintels and shelf angles for unit masonry.
- C. Submittals:
  - 1. Samples for decorative concrete masonry units concrete facing brick face brick hollow brick and colored mortar.
  - 2. Material Certificates: For each type of product indicated. Include statements of material properties indicating compliance with requirements.
- D. Sample Panels: Construct a sample wall panel approximately 48 inches long by 48 inches high to demonstrate aesthetic effects and set quality standards for materials and execution.

## PART 2 - PRODUCTS

## 2.1 UNIT MASONRY

- A. Comply with ACI 530.1/ASCE 6/TMS 602.

## 2.2 MASONRY UNITS

- A. Concrete Masonry Units: ASTM C 90; Density Classification, Normal Weight.
  - 1. Integral Water Repellent:
  - 2. Products:
    - a. ACM Chemistries; RainBloc.
    - b. BASF Aktiengesellschaft; Rheopel Plus.
    - c. Grace Construction Products, W. R. Grace & Co. - Conn.; Dry-Block.
  - 3. Special shapes for lintels, corners, jambs, sash, control joints, and other special conditions.
  - 4. Bullnose units for outside corners unless otherwise indicated.
- B. Decorative Concrete Masonry Units: ASTM C 90; Density Classification, Normal Weight.
  - 1. Finish: Exposed faces with ground finish.

2. Integral Water Repellent:
  3. Products:
    - a. ACM Chemistries; RainBloc.
    - b. BASF Aktiengesellschaft; Rheopel Plus.
    - c. Grace Construction Products, W. R. Grace & Co. - Conn.; Dry-Block.
  4. Special shapes for lintels, corners, jambs, sash, control joints, and other special conditions.
- C. Building (Common) Brick: ASTM C 62,.
- D. Hollow Brick: ASTM C 652, Grade SW Grade MW or SW,
1. Size: 5-5/8 inches thick by 3-5/8 inches high by 11-5/8 inches long.
  2. Special shapes for applications where stretcher units cannot accommodate special conditions, including those at corners, movement joints, bond beams, sashes, and lintels.
  3. Solid brick with exposed surfaces finished for ends of sills and caps.

## 2.3 MORTAR AND GROUT

- A. Mortar: ASTM C 270, proportion specification.
1. Use portland cement-lime mortar.
  2. Do not use calcium chloride in mortar.
  3. For masonry below grade or in contact with earth, use Type M.
  4. For reinforced masonry, use Type S.
  5. For exterior, above-grade, load-bearing and non-load-bearing walls and parapet walls; for interior load-bearing walls; for interior non-load-bearing partitions, and for other applications where another type is not indicated, use Type N.
  6. Colored Mortar: For decorative concrete masonry units concrete facing brick, use colored cement or cement-lime mix of color selected.
  7. Water-Repellent Additive: For mortar used with concrete masonry units made with integral water repellent, use product recommended by manufacturer of units.
- B. Grout: ASTM C 476 with a slump of 8 to 11 inches.
- C. Refractory Mortar: Ground fireclay mortar or other refractory mortar that passes ASTM C 199 test and is acceptable to authorities having jurisdiction.

## 2.4 REINFORCEMENT, TIES, AND ANCHORS

- A. Steel Reinforcing Bars: ASTM A 615/A 615M or ASTM A 996/A 996M, Grade 60.
- B. Joint Reinforcement: ASTM A 951.
1. Coating: Hot-dip galvanized at both interior and exterior walls.
  2. Wire Size for Side Rods: 0.148-inch diameter.
  3. Wire Size for Cross Rods: 0.148-inch diameter.
  4. Wire Size for Veneer Ties: 0.148-inch diameter.

5. For single-wythe masonry, provide either ladder design or truss design.
  6. For multiwythe masonry, provide ladder design with three side rods.
- C. Veneer Anchors: Hot-dip galvanized steel, two-piece adjustable masonry veneer anchors that allow vertical or horizontal adjustment but resist tension and compression forces perpendicular to plane of wall, for attachment over sheathing to studs, and acceptable to authorities having jurisdiction.
1. Products: One of the following:
    - a. Dayton Superior Corporation, Dur-O-Wal Division; D/A 213.
    - b. Heckmann Building Products Inc.; 315-D with 316 .
    - c. Hohmann & Barnard, Inc.; DW-10.
    - d. Wire-Bond; 1004, Type III.

## 2.5 MISCELLANEOUS MASONRY ACCESSORIES

- A. Compressible Filler: Premolded strips complying with ASTM D 1056, Grade 2A1.
- B. Preformed Control-Joint Gaskets: Designed to fit standard sash block and to maintain lateral stability in masonry wall; made from styrene-butadiene rubber or PVC.
- C. Weep Holes: Cellular-plastic extrusion, full height and width of head joint.
- D. Cavity Drainage Material: Free-draining polymer mesh, full depth of cavity with dovetail shaped notches that prevent mortar clogging.
1. Products: One of the following:
    - a. Advanced Building Products Inc.; Mortar Break.
    - b. Archovations, Inc.; CavClear Masonry Mat.
    - c. Dayton Superior Corporation, Dur-O-Wal Division; Polytite MortarStop.
    - d. Mortar Net USA, Ltd.; Mortar Net.
- E. Loose-Granular Perlite Insulation: ASTM C 549, Type II or IV.
- F. Molded-Polystyrene Insulation Units: ASTM C 578, Type I; specially shaped units designed for installing in cores of masonry units.
1. Products: One of the following:
    - a. Concrete Block Insulating Systems; Korfil.
    - b. Shelter Enterprises Inc.; Omni Core.
- G. Extruded-Polystyrene Board Insulation: ASTM C 578, Type IV or X.
- H. Polyisocyanurate Board Insulation: ASTM C 1289, Type I, Class 2; aluminum-foil faced.
- I. Proprietary Acidic Masonry Cleaner: Product expressly approved for intended use by cleaner manufacturer and manufacturer of masonry units.

1. Manufacturers: One of the following:

- a. Diedrich Technologies, Inc.
- b. EaCo Chem, Inc.
- c. ProSoCo, Inc.

## PART 3 - EXECUTION

## 3.1 INSTALLATION, GENERAL

- A. Cut masonry units with saw. Install with cut surfaces and, where possible, cut edges concealed.
- B. Mix units for exposed unit masonry from several pallets or cubes as they are placed to produce uniform blend of colors and textures.
- C. Matching Existing Masonry: Match coursing, bonding, color, and texture of existing masonry.
- D. Stopping and Resuming Work: Rack back units; do not tooth.
- E. Fill cores in hollow concrete masonry units with grout 24 inches under bearing plates, beams, lintels, posts, and similar items unless otherwise indicated.
- F. Build non-load-bearing interior partitions full height and install compressible filler in joint between top of partition and underside of structure above.
- G. Tool exposed joints slightly concave when thumbprint hard unless otherwise indicated.
- H. Keep cavities clean of mortar droppings and other materials during construction.
- I. Set firebox brick in full bed of refractory mortar with full head joints. Make joints approximately 1/8 inch wide and tool smooth.
- J. Set clay flue liners in full beds of refractory mortar to comply with ASTM C 1283.

## 3.2 LINTELS

- A. Install lintels where indicated.
- B. Minimum bearing of 8 inches at each jamb unless otherwise indicated.

## 3.3 FLASHING AND WEEP HOLES

- A. Install embedded flashing and weep holes in masonry at shelf angles, lintels, ledges, other obstructions to the downward flow of water in the wall, and where indicated.
- B. Place through-wall flashing on sloping bed of mortar and cover with mortar. Seal penetrations in flashing before covering with mortar.

1. Extend flashing 4 inches into masonry at each end and turn up 2 inches to form a pan.
- C. Trim wicking material used in weep holes flush with outside face of wall after mortar has set.

### 3.4 PARGING

- A. Parge masonry walls, where indicated, in two uniform coats with a steel-trowel finish. Form a wash at top of parging and a cove at bottom. Damp cure parging for at least 24 hours.

### 3.5 FIELD QUALITY CONTROL

- A. Testing and Inspecting: Owner will engage special inspectors to perform tests and inspections required by authorities having jurisdiction.
  1. Inspections: Level 1 special inspections according to the IBC.
  2. Place grout only after inspectors have verified compliance of grout spaces and of grades, sizes, and locations of reinforcement.

### 3.6 CLEANING

- A. Clean masonry as work progresses. Remove mortar fins and smears before tooling joints.
- B. Final Cleaning: After mortar is thoroughly cured, clean exposed masonry.
  1. Wet wall surfaces with water before applying acidic cleaner, then remove cleaner promptly by rinsing thoroughly with clear water.
  2. Clean masonry with a proprietary acidic cleaner applied according to manufacturer's written instructions.

END OF SECTION 042000



## SECTION 061000 - ROUGH CARPENTRY

## PART 1 - GENERAL

## 1.1 SECTION REQUIREMENTS

- A. Submittals: ICC-ES evaluation reports for wood-preservative treated wood fire-retardant treated wood engineered wood products and metal framing anchors.

## PART 2 - PRODUCTS

## 2.1 WOOD PRODUCTS, GENERAL

- A. Certified Wood: Wood-based materials shall be certified as "FSC Pure" or "FSC Mixed Credit" according to FSC STD-01-001, "FSC Principles and Criteria for Forest Stewardship," and to FSC STD-40-004, "FSC Standard for Chain of Custody Certification."
- B. Lumber: Provide dressed lumber, S4S, marked with grade stamp of inspection agency.
- C. Engineered Wood Products: Acceptable to authorities having jurisdiction and for which current model code research or evaluation reports exist that show compliance with building code in effect for Project.
  - 1. Allowable Design Stresses: Engineered wood products shall have allowable design stresses, as published by manufacturer, that meet or exceed those indicated. Manufacturer's published values shall be demonstrated by comprehensive testing.

## 2.2 TREATED MATERIALS

- A. Preservative-Treated Materials: AWP A U1; Use Category UC2 for interior construction not in contact with the ground, Use Category UC3b for exterior construction not in contact with the ground, and Use Category UC4a for items in contact with the ground.
  - 1. Use treatment containing no arsenic or chromium.
  - 2. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent.
  - 3. Mark lumber with treatment quality mark of an inspection agency approved by the ALSC Board of Review.
- B. Provide preservative-treated materials for items indicated on Drawings, and the following:
  - 1. Wood cants, nailers, curbs, equipment support bases, blocking, stripping, and similar members in connection with roofing, flashing, vapor barriers, and waterproofing.
  - 2. Wood sills, blocking, furring, stripping, and similar concealed members in contact with masonry or concrete.
  - 3. Wood framing members that are less than 18 inches above the ground.
  - 4. Wood floor plates that are installed over concrete slabs-on-grade.

- C. Fire-Retardant-Treated Materials: Products with a flame-spread index of 25 or less when tested according to ASTM E 84, and with no evidence of significant progressive combustion when the test is extended an additional 20 minutes, and with the flame front not extending more than 10.5 feet beyond the centerline of the burners at any time during the test.
1. Use Exterior type for exterior locations and where indicated.
  2. Use Interior Type A unless otherwise indicated.
  3. For enclosed roof framing, framing in attic spaces, and where high-temperature fire-retardant treatment is indicated, provide material with design adjustment factors of not less than 0.85 for modulus of elasticity and 0.75 for extreme fiber in bending for Project's climatological zone.
  4. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent.
  5. Identify with appropriate classification marking of a testing and inspecting agency acceptable to authorities having jurisdiction.
- D. Provide fire-retardant treated materials for items indicated on Drawings.

## 2.3 FRAMING

- A. Certified Wood: Wood framing shall be certified as "FSC Pure" or "FSC Mixed Credit" according to FSC STD-01-001, "FSC Principles and Criteria for Forest Stewardship," and to FSC STD-40-004, "FSC Standard for Chain of Custody Certification."
- B. Dimension Lumber:
1. Maximum Moisture Content: 15 percent.
  2. Non-Load-Bearing Interior Partitions: Construction or No. 2: .
  3. Framing Other Than Non-Load-Bearing Interior Partitions: Construction or No. 2: .
  4. Exposed Framing: Provide material hand-selected for uniformity of appearance and freedom from characteristics, on exposed surfaces and edges, that would impair finish appearance, including decay, honeycomb, knot-holes, shake, splits, torn grain, and wane.
    - a. Species: As specified for framing other than non-load-bearing interior partitions.
    - b. Grade: Select Structural.
- C. Timbers 5-Inch Nominal Size and Thicker: Select Structural No. 1:
1. Maximum Moisture Content: 20 percent.
- D. Laminated-Veneer Lumber: Manufactured with exterior-type adhesive complying with ASTM D 2559. Allowable design values determined according to ASTM D 5456.
1. Manufacturers: One of the following:
    - a. Boise Cascade Corporation.
    - b. Finnforest USA.
    - c. Georgia-Pacific.
    - d. Jager Building Systems Inc.
    - e. Louisiana-Pacific Corporation.
    - f. Pacific Woodtech Corporation.

- g. Roseburg Forest Products Co.
- h. Standard Structures Inc.
- i. Stark Truss Company, Inc.
- j. West Fraser Timber Co., Ltd.
- k. Weyerhaeuser Company.

- 2. Extreme Fiber Stress in Bending, Edgewise: 2900 psi for 12-inch nominal- depth members.
- 3. Modulus of Elasticity, Edgewise: 2,000,000 psi.

## 2.4 MISCELLANEOUS LUMBER

- A. Miscellaneous Dimension Lumber: Construction, or No. 2 grade with 15 percent maximum moisture content of any species. Provide for nailers, blocking, and similar members.
- B. Utility Shelving: Eastern white, Idaho white, lodgepole, ponderosa, or sugar pine, Premium or 2 Common (Sterling): NeLMA, NLGA, WCLIB, or WWP; or Spruce-pine-fir, Select Merchantable or No. 1 Common: NeLMA, NLGA, WCLIB, or WWP; with 15 percent maximum moisture content.
- C. Concealed Boards: Eastern softwoods, No. 3 Common: NELMA; with 15 percent maximum moisture content.

## 2.5 PLYWOOD BACKING PANELS

- A. Equipment Backing Panels: Plywood, Exterior, AC, fire-retardant treated, not less than 3/4-inch nominal thickness.

## 2.6 MISCELLANEOUS PRODUCTS

- A. Fasteners: Size and type indicated. Where rough carpentry is exposed to weather, in ground contact, or in area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M.
  - 1. Power-Driven Fasteners: CABO NER-272.
  - 2. Bolts: Steel bolts complying with ASTM A 307, Grade A; with ASTM A 563 hex nuts and, where indicated, flat washers.
- B. Metal Framing Anchors: Structural capacity, type, and size indicated.
  - 1. Manufacturers: One of the following:
  - 2. Basis-of-Design Product: or a comparable product of one of the following:
    - a. Cleveland Steel Specialty Co.
    - b. KC Metals Products, Inc.
    - c. Phoenix Metal Products, Inc.
    - d. Simpson Strong-Tie Co., Inc.
    - e. USP Structural Connectors.

3. Use anchors made from hot-dip galvanized steel complying with ASTM A 653/A 653M, G60 coating designation for interior locations where stainless steel is not indicated.
  4. Use anchors made from stainless steel complying with ASTM A 666, Type 304 for exterior locations and where indicated.
- C. Sill Sealer: Closed-cell neoprene foam, 1/4 inch thick.
- D. Flexible Flashing: Self-adhesive product consisting of a butyl rubber compound, bonded to a backing sheet to produce an overall thickness of not less than 0.025 inch.

### PART 3 - EXECUTION

#### 3.1 INSTALLATION

- A. Set rough carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Locate nailers, blocking, and similar supports to comply with requirements for attaching other construction.
- B. Framing Standard: Comply with AF&PA's WCD 1, "Details for Conventional Wood Frame Construction," unless otherwise indicated.
- C. Do not splice structural members between supports unless otherwise indicated.
- D. Securely attach rough carpentry to substrates, complying with the following:
  1. CABO NER-272 for power-driven fasteners.
  2. Published requirements of metal framing anchor manufacturer.
  3. Table 2304.9.1, "Fastening Schedule," in the IBC.

END OF SECTION 061000

## SECTION 061600 - SHEATHING

## PART 1 - GENERAL

## 1.1 SECTION REQUIREMENTS

- A. Submittals: ICC-ES evaluation reports for preservative-treated plywood fire-retardant-treated plywood.

## PART 2 - PRODUCTS

## 2.1 WOOD PANEL PRODUCTS, GENERAL

- A. Plywood: DOC PS 1.
- B. Oriented Strand Board: DOC PS 2.
- C. Certified Wood: Wood-based materials shall be certified as "FSC Pure" or "FSC Mixed Credit" according to FSC STD-01-001, "FSC Principles and Criteria for Forest Stewardship," and to FSC STD-40-004, "FSC Standard for Chain of Custody Certification."

## 2.2 TREATED PLYWOOD

- A. Preservative-Treated Plywood: AWP A U1; Use Category UC2.
  - 1. Use treatment containing no arsenic or chromium.
  - 2. Kiln-dry plywood after treatment to a maximum moisture content of 15 percent.
- B. Provide preservative-treated plywood for items indicated on Drawings and plywood in contact with masonry or concrete or used with roofing, flashing, vapor barriers, and waterproofing.
- C. Fire-Retardant-Treated Plywood: Products with a flame-spread index of 25 or less when tested according to ASTM E 84, and with no evidence of significant progressive combustion when the test is extended an additional 20 minutes, and with the flame front not extending more than 10.5 feet beyond the centerline of the burners at any time during the test.
  - 1. Use Exterior type for exterior locations and where indicated.
  - 2. Use Interior Type A unless otherwise indicated.
  - 3. For roof sheathing and where high-temperature fire-retardant treatment is indicated, span ratings for temperatures up to 170 deg F shall be not less than span ratings specified.
  - 4. Identify with appropriate classification marking of a testing and inspecting agency acceptable to authorities having jurisdiction.
- D. Provide fire-retardant-treated plywood for items indicated on Drawings.

## 2.3 WALL SHEATHING

- A. Plywood Wall Sheathing: Exterior, Structural I sheathing.
- B. Oriented-Strand-Board Wall Sheathing: Exposure 1, Structural I sheathing.
- C. Paper-Surfaced Gypsum Wall Sheathing: ASTM C 1396/C 1396M, gypsum sheathing; with water-resistant-treated core.
  - 1. Manufacturers: One of the following:
    - a. American Gypsum.
    - b. G-P Gypsum Corporation.
    - c. LaFarge North America Inc.
    - d. National Gypsum Company.
    - e. Temple-Inland Inc.
    - f. United States Gypsum Co.
    - g.
- D. Glass-Mat Gypsum Wall Sheathing: ASTM C 1177/1177M.
  - 1. Products: One of the following:
    - a. CertainTeed Corporation; GlasRoc.
    - b. G-P Gypsum Corporation; Dens-Glass Gold.
    - c. National Gypsum Company; Gold Bond e(2)XP.
    - d. Temple-Inland Inc.; GreenGlass.
    - e. United States Gypsum Co.; Securock.
    - f.
- E. Cementitious Backer Units: ASTM C 1325, Type A.
  - 1. Products: One of the following:
    - a. C-Cure; C-Cure Board 990.
    - b. Custom Building Products; Wonderboard.
    - c. FinPan, Inc.; Util-A-Crete Concrete Backer Board.
    - d. USG Corporation; DUROCK Cement Board.
    - e.

## 2.4 ROOF SHEATHING

- A. Plywood Roof Sheathing: Exterior, Structural I sheathing.
- B. Oriented-Strand-Board Roof Sheathing: Exposure 1, Structural I sheathing.
  - 1. Manufacturers: One of the following:
    - a. Atlas Roofing Corporation.
    - b. Cornell Corporation.
    - c. Dow Chemical Company (The).



- d. Johns Manville; Berkshire Hathaway Inc.
- e. Rmax, Inc.

- C. Composite Nail Base Insulated Roof Sheathing: Polyisocyanurate foam with oriented strand board laminated to one face complying with ASTM C 1289, Type V.

## 2.5 MISCELLANEOUS PRODUCTS

- A. Fasteners: Size and type indicated.
  - 1. For roof and wall sheathing, provide fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M.
  - 2. Power-Driven Fasteners: CABO NER-272.
- B. Sheathing Joint-and-Penetration Treatment Materials:
  - 1. Sealant for Glass-Mat Gypsum Sheathing: Silicone emulsion sealant, recommended by tape and sheathing manufacturers for application indicated.
  - 2. Sheathing Tape for Glass-Mat Gypsum Sheathing: Self-adhering, glass-fiber tape recommended by sheathing and tape manufacturers for application indicated.
  - 3. Sheathing Tape for Foam-Plastic Sheathing: Pressure-sensitive plastic tape recommended by sheathing manufacturer for sealing joints and penetrations in sheathing.
- C. Adhesives for Field Gluing Panels to Framing: APA AFG-01.

## PART 3 - EXECUTION

### 3.1 INSTALLATION

- A. Securely attach to substrates, complying with the following:
  - 1. CABO NER-272 for power-driven fasteners.
  - 2. Table 2304.9.1, "Fastening Schedule," in the IBC.
- B. Fastening Methods:
  - 1. Wall and Roof Sheathing:
    - a. Nail to wood framing.
    - b. Screw to cold-formed metal framing.
- C. Glass-Mat Gypsum Sheathing Joint-and-Penetration Treatment: Seal sheathing joints and penetrations according to sheathing manufacturer's written instructions.
- D. Install cementitious backer units and treat joints according to ANSI A108.11 and manufacturer's written instructions for type of application indicated.

END OF SECTION 061600

## SECTION 062000 - FINISH CARPENTRY

## PART 1 - GENERAL

## 1.1 SECTION REQUIREMENTS

- A. Submittals: Samples for moldings and trim.

## PART 2 - PRODUCTS

## 2.1 MATERIALS, GENERAL

- A. Lumber: DOC PS 20 and grading rules of inspection agencies certified by American Lumber Standards Committee Board of Review.
- B. Softwood Plywood: DOC PS 1.
- C. MDF: ANSI A208.2, Grade 130, made with binder containing no urea-formaldehyde resin.
- D. Particleboard: ANSI A208.1, Grade M-2, made with binder containing no urea-formaldehyde resin.
- E. Melamine-Faced Particleboard: Particleboard complying with ANSI A208.1, Grade M-2, finished on both faces with thermally fused, melamine-impregnated decorative paper.
- F. Certified Wood: Wood-based materials produced from tropical forests shall be certified as "FSC Pure" or "FSC Mixed Credit" according to FSC STD-01-001, "FSC Principles and Criteria for Forest Stewardship," and to FSC STD-40-004, "FSC Standard for Chain of Custody Certification."

## 2.2 EXTERIOR FINISH CARPENTRY

- A. Exterior Lumber Trim: Smooth-textured, Prime or D finish hem-fir, pressure-preservative treated.
  - 1. Maximum Moisture Content: 19 percent.
- B. Wood Moldings: WMMPA WM 4, N-grade wood moldings. Made from kiln-dried stock to patterns included in WMMPA WM 12.
  - 1. Species: Eastern white, Idaho white, lodgepole, ponderosa, radiata, or sugar pine.
- C. Lumber Siding: Kiln-dried, Prime or D finish hem-fir, pressure-preservative treated.
- D. Plywood Siding: APA-rated siding, 5/8-inch- thick, 303-6-W, cedar faced, rough sawn, Texture 1-11; grooves 4 inches o.c.

1. Manufacturers: One of the following:
  - a. Georgia-Pacific Corp.
  - b. Hardel Mutual Plywood Corporation.
  - c. Hood Industries.
  - d. K Ply Inc.
  - e. Pacific Wood Laminates, Inc.
  - f. Plum Creek Timber Company, Inc.
  - g. Roseburg Forest Products Co.
  - h. Roy O. Martin Lumber Management, L.L.C.
  - i. SDS Lumber Company; Bingen Plywood Division.
  - j. Stimson Lumber Company, Inc.
  - k. Swanson Group; Plywood Division.
  - l. Textured Forest Products, Inc.

E. Plywood Soffits: 1/2-inch- thick, Exterior-type, Grade A-C

1. Manufacturers: One of the following:
  - a. Georgia-Pacific Corp.
  - b. Hardel Mutual Plywood Corporation.
  - c. Hood Industries.
  - d. K Ply Inc.
  - e. Pacific Wood Laminates, Inc.
  - f. Plum Creek Timber Company, Inc.
  - g. Roseburg Forest Products Co.
  - h. Roy O. Martin Lumber Management, L.L.C.
  - i. SDS Lumber Company; Bingen Plywood Division.
  - j. Stimson Lumber Company, Inc.
  - k. Swanson Group; Plywood Division.
  - l. Textured Forest Products, Inc.

## 2.3 INTERIOR STANDING AND RUNNING TRIM

- A. Interior Hardwood Lumber Trim: Clear, kiln-dried, Aspen, basswood, cottonwood, sap gum, sycamore, white maple, or yellow poplar.
- B. Wood Moldings: WMMPA WM 4 made to patterns in WMMPA WM 12 from kiln-dried stock.
  1. Softwood Moldings for Transparent Finish: Douglas fir.
  2. Hardwood Moldings for Transparent Finish: Aspen, basswood, cottonwood, sap gum, sycamore, white maple, or yellow poplar.
  3. Moldings for Painted Finish: P-Grade eastern white, Idaho white, lodgepole, ponderosa, radiata, or sugar pine.

## 2.4 MISCELLANEOUS MATERIALS

- A. Fasteners for Exterior Finish Carpentry: hot-dip galvanized steel.

- B. Glue: Aliphatic-resin, polyurethane, or resorcinol wood glue recommended by manufacturer.
  - 1. Wood glue shall have a VOC content of 30 g/L or less.
  - 2. Use waterproof resorcinol glue for exterior applications.
- C. Insect Screening for Soffit Vents: PVC-coated glass-fiber fabric.
- D. Continuous Soffit Vents: Aluminum hat channel shape with stamped louvers or perforations.

### PART 3 - EXECUTION

#### 3.1 INSTALLATION

- A. Condition interior finish carpentry in installation areas for 24 hours before installing.
- B. Prime and backprime lumber for painted finish exposed on the exterior. Cut to length and prime ends.
- C. Install finish carpentry level, plumb, true, and aligned with adjacent materials. Scribe and cut to fit adjoining work. Refinish and seal cuts.
  - 1. Install to tolerance of 1/8 inch in 96 inches for level and plumb. Install adjoining exterior finish carpentry with 1/32-inch maximum offset for flush installation and 1/16-inch maximum offset for reveal installation.
  - 2. Install stairs with no more than 3/16-inch variation between adjacent treads and risers and with no more than 3/8-inch variation between largest and smallest treads and risers within each flight.
- D. Install standing and running trim with minimum number of joints practical, using full-length pieces from maximum lengths of lumber available. Do not use pieces less than 24 inches long except where necessary. Stagger joints in adjacent and related trim. Cope at returns and inside corners and miter at outside corners.
- E. Nail siding at each stud. Do not allow nails to penetrate more than one thickness of siding, unless otherwise recommended by siding manufacturer. Seal joints at inside and outside corners and at trim locations.
- F. Select and arrange paneling for best match of adjacent units. Install with uniform tight joints.
- G. Exterior Stairs: Secure treads and risers by gluing and nailing to carriages. Countersink nail heads, fill flush, and sand filler. Extend treads over carriages and finish with bullnose edge.

END OF SECTION 062000

## SECTION 099000 - PAINTING AND COATING

## PART 1 - GENERAL

## 1.1 SECTION REQUIREMENTS

- A. Submittals:
  - 1. Product Data. Include printout of MPI's "MPI Approved Products List" with product highlighted.
  - 2. Samples.
- B. Mockups: Full-coat finish Sample of each type of coating, color, and substrate, applied where directed.
- C. Extra Materials: Deliver to Owner 1 gal. of each color and type of finish coat paint used on Project, in containers, properly labeled and sealed.

## PART 2 - PRODUCTS

## 2.1 PAINT

- A. Manufacturers: One of the following:
  - 1. Benjamin Moore & Co.
  - 2. California Paints.
  - 3. PPG Architectural Finishes, Inc.
  - 4. Pratt & Lambert.
  - 5. Sherwin-Williams Company (The).
- B. MPI Standards: Provide materials that comply with MPI standards indicated and listed in its "MPI Approved Products List."
  - 1. Exterior Painting Materials:
    - a. Block Filler, Latex: MPI #4.
    - b. Primer, Alkali Resistant, Water Based: MPI #3.
    - c. Primer, Latex: MPI #6.
    - d. Primer, Alkyd: MPI #5.
    - e. Latex, Exterior Flat (Gloss Level 1): MPI #10.
    - f. Latex, Exterior Low Sheen (Gloss Level 3-4): MPI #15.
    - g. Latex, Exterior Semigloss (Gloss Level 5): MPI #11.
    - h. Alkyd, Exterior Flat (Gloss Level 1): MPI #8.
    - i. Alkyd, Exterior, Semigloss (Gloss Level 5): MPI #94.
    - j. Alkyd, Quick Dry, Semigloss (Gloss Level 5): MPI #81.
    - k. Floor Paint, Latex, Low Gloss (Maximum Gloss Level 3): MPI #60.
  - 2. Interior Painting Materials:

- a. Block Filler, Latex: MPI #4.
  - b. Primer Sealer, Latex: MPI #50.
  - c. Primer, Alkali Resistant, Water Based: MPI #3.
  - d. Primer Sealer, Institutional Low Odor/VOC: MPI #149.
  - e. Primer, Latex, for Interior Wood: MPI #39.
  - f. Primer Sealer, Alkyd, Interior: MPI #45.
  - g. Primer, Bonding, Water Based: MPI #17.
  - h. Primer, Alkyd, Anticorrosive: MPI #79.
  - i. Latex, Interior, Flat, (Gloss Level 1): MPI #53.
  - j. Latex, Interior, Semigloss, (Gloss Level 5): MPI #54.
  - k. Latex, Institutional Low Odor/VOC, Flat (Gloss Level 1): MPI #143.
  - l. Latex, Institutional Low Odor/VOC, Semigloss (Gloss Level 5): MPI #147.
  - m. Alkyd, Interior, Flat (Gloss Level 1): MPI #49.
  - n. Alkyd, Interior, Semigloss (Gloss Level 5): MPI #47.
  - o. Alkyd, Quick Dry, Semigloss (Gloss Level 5): MPI #81.
  - p. Floor Paint, Latex, Low Gloss (Maximum Gloss Level 3): MPI #60.
3. Staining and Clear Finishing Materials:
- a. Wood Filler Paste: MPI #91.
  - b. Primer, Latex for Exterior Wood: MPI #6.
  - c. Preservative, for Exterior Wood: MPI #37.
  - d. Alkyd, Sanding Sealer, Clear: MPI #102.
  - e. Stain, Exterior, Water Based, Solid Hide: MPI #16.
  - f. Stain, for Exterior Wood Decks: MPI #33.
  - g. Stain, Semitransparent, for Interior Wood: MPI #90.
- C. Material Compatibility: Provide materials that are compatible with one another and with substrates.
1. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.
- D. Use interior paints and coatings that comply with the following limits for VOC content:
1. Flat Paints and Coatings: 50 g/L.
  2. Nonflat Paints, Coatings: 150 g/L.
  3. Dry-Fog Coatings: 400 g/L.
  4. Primers, Sealers, and Undercoaters: 200 g/L.
  5. Anticorrosive and Antirust Paints Applied to Ferrous Metals: 250 g/L.
  6. Zinc-Rich Industrial Maintenance Primers: 340 g/L.
  7. Pretreatment Wash Primers: 420 g/L.
  8. Clear Wood Finishes, Varnishes: 350 g/L.
  9. Clear Wood Finishes, Lacquers: 550 g/L.
  10. Floor Coatings: 100 g/L.
  11. Stains: 250 g/L.
- E. Colors: As selected.

## PART 3 - EXECUTION

### 3.1 PREPARATION

- A. Comply with recommendations in MPI's "MPI Architectural Painting Specification Manual" applicable to substrates indicated.
- B. Remove hardware, lighting fixtures, and similar items that are not to be painted. Mask items that cannot be removed. Reinstall items in each area after painting is complete.
- C. Clean and prepare surfaces in an area before beginning painting in that area. Schedule painting so cleaning operations will not damage newly painted surfaces.

### 3.2 APPLICATION

- A. Comply with recommendations in MPI's "MPI Architectural Painting Specification Manual" applicable to substrates indicated.
- B. Paint exposed surfaces, new and existing, unless otherwise indicated.
  - 1. Paint surfaces behind movable equipment and furniture same as similar exposed surfaces.
  - 2. Paint surfaces behind permanently fixed equipment or furniture with prime coat only.
  - 3. Paint the back side of access panels.
  - 4. Color-code mechanical piping in accessible ceiling spaces.
  - 5. Do not paint prefinished items, items with an integral finish, operating parts, and labels unless otherwise indicated.
- C. Apply paints according to manufacturer's written instructions.
  - 1. Use brushes only for exterior painting and where the use of other applicators is not practical.
  - 2. Use rollers for finish coat on interior walls and ceilings.
- D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.
  - 1. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
- E. Apply stains and transparent finishes to produce surface films without color irregularity, cloudiness, holidays, lap marks, brush marks, runs, ropiness, or other imperfections. Use multiple coats to produce a smooth surface film of even luster.

### 3.3 EXTERIOR PAINT APPLICATION SCHEDULE

- A. Concrete, Nontraffic Surfaces:
  - 1. Flat Latex: Two coats over alkali-resistant primer: MPI EXT 3.1K.

## B. Concrete Masonry Units:

1. Flat Latex: Two coats over latex block filler: MPI EXT 4.2A.

## C. Steel:

1. Semigloss, Alkyd Quick-Dry: Two coats over alkyd anticorrosive primer: MPI EXT 5.1A.

## D. Wood: Including wood trim architectural woodwork doors windows wood fences exposed joists exposed beams.

1. Low-Sheen Latex: Two coats over latex primer: MPI EXT 6.3L.

## E. Wood, Traffic Surfaces:

1. Low-Gloss Latex Floor Paint: Two coats over latex primer: MPI EXT 6.5E.

## F. Exterior Gypsum Soffit Board:

1. Flat Latex: Two coats over latex primer: MPI EXT 9.2A.

## 3.4 INTERIOR PAINT APPLICATION SCHEDULE

## A. Concrete Masonry Units:

1. Semigloss Latex: Two coats over latex block filler: MPI INT 4.2A.

## B. Steel:

1. Semigloss, Quick-Dry Enamel: Two coats over quick-drying alkyd metal primer: MPI INT 5.1A.

## C. Wood: Including wood trim architectural woodwork doors windows exposed joists exposed beams.

1. Semigloss Institutional Low-Odor/VOC Latex: Two coats over latex primer for wood: MPI INT 6.3V.

## D. Gypsum Board Plaster:

1. Semigloss Institutional Low-Odor/VOC Latex: Two coats over low-odor/VOC primer/sealer: MPI INT 9.2M.

## 3.5 EXTERIOR STAIN AND CLEAR FINISH APPLICATION SCHEDULE

## A. Wood, nontraffic surfaces, including wood trim architectural woodwork doors windows wood siding wood shingles and shakes (excluding roofs).

1. Solid Hide, Water-Based Stain: Two coats over alkyd primer: MPI EXT 6.2B.

## B. Wood, traffic surfaces, including wood decks and stairs.



1. Deck Stain: Two coats: MPI EXT 6.5F.

3.6 INTERIOR STAIN AND CLEAR FINISH APPLICATION SCHEDULE

- A. Wood substrates, nontraffic surfaces, including wood trim architectural woodwork doors windows exposed joists exposed beams.

1. Semitransparent Stain: Two coats: MPI INT 6.1G

END OF SECTION 099000



Garage 1, Front



Garage 1, Rear



Garage 1, West Side



Garage 1, East Side



Garage 1, East Side



Wooden Salt Storage Building, Front





A large wooden barn with a gambrel roof. The upper part of the roof and the main gable end are clad in red vertical siding. The lower part of the barn, including the roof eaves and the area around the doors, is clad in grey horizontal siding. Two square light fixtures are mounted on the red siding near the peak. A green tractor is parked in front of the barn, partially obscuring the lower right. To the right of the tractor is a weathered metal container with some text on it. In the background, a white building with a dark roof is visible.



Garage 2, Front



Garage 2, Rear



Garage 2, Rear



Garage 2, East

## Limited Lead Screening Report

Highway Garage, 60 South Street

Teen Center, 6 Governor Street

Peter Parley School, Route 63

Ridgefield, Connecticut

## Town of Ridgefield

Ridgefield, Connecticut

November 2013



Fuss & O'Neill EnviroScience, LLC

56 Quarry Road

Trumbull, CT 06611

November 8, 2013

Jacob Muller  
Town Engineer  
Town of Ridgefield  
66 Prospect Street  
Ridgefield, Connecticut, 06877

**RE: Limited Lead Screen Report**  
**Highway Garage, 60 South Street**  
**Teen Center, 6 Governor Street**  
**Peter Parley School, Route 63**  
**Ridgefield, Connecticut**  
Fuss & O'Neill EnviroScience Project No. 20131323.A1E

Dear Mr. Muller:

Attached is the summary report for the limited lead-based paint screening performed at the Highway Garage, 60 South Street, Teen Center, 6 Governor Street, and the Peter Parley School, Route 63, in Ridgefield, Connecticut.

The information summarized in this document is for the above-mentioned material and locations only. It does not include information on other hazardous materials that may exist in the buildings and/or spaces.

If you have any questions regarding the contents of this report, please contact us at (203) 374-3748.

Sincerely,

56 Quarry Road  
Trumbull, CT  
06611  
t 203.374.3748  
800.286.2469  
f .203.374.4391

[www.fando.com](http://www.fando.com)

Connecticut  
Massachusetts  
Rhode Island  
South Carolina

Kevin McCarthy  
Project Manager

JB/nw

Robert L May, Jr.  
President

# Table of Contents

## Limited Lead Screening Report Town of Ridgefield

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Appendices      End of Report

APPENDIX A	FUSS & O’NEILL ENVIROSCIENCE ACCREDITATIONS
APPENDIX B	LEAD PAINT TESTING PROCEDURES AND EQUIPMENT
APPENDIX C	LEAD TESTING FIELD DATA SHEETS



# 1 Introduction

On November 7, 2013, Fuss & O'Neill EnviroScience, LLC (EnviroScience) Environmental Technician Mr. James Blum performed limited lead-based paint (LBP) screening at the Highway Garage, 60 South Street, Teen Center, 6 Governor Street, and the Peter Parley School, Route 63, in Ridgefield, Connecticut. Mr. Blum is a State of Connecticut-licensed Lead Inspector. Mr. Blum's license and accreditations are attached in *Appendix A*.

## 2 Limited Lead Paint Screening

A direct reading X-ray fluorescence (XRF) analyzer was used to perform the screening associated with the coated building materials at the above referenced locations that may be disturbed during the proposed re-painting activities. The screening was conducted in accordance with the protocol outlined in the attached document provided in *Appendix B*.

For the purpose of this screening, various exterior building components that are proposed to be re-painted were screened. The purpose of this screening was to identify if toxic concentrations of lead paint existed in the exterior building components scheduled to be re-painted.

### 2.1 Results

No exterior painted building components screened were identified as containing toxic levels of lead (greater than 1.0 milligrams of lead per square centimeter [mg/cm<sup>2</sup>] of paint) at the Highway Garage and at the Teen Center.

The screening indicated consistent painting trends throughout the building components screened at the Peter Parley School. The following painted building components were identified as containing toxic levels of lead:

**Table 1**  
**Lead-Based Paint Screening Results**

Item	Location	Reading (mg/cm <sup>2</sup> )
Exterior Window Sash	Peter Parley School – Building Exterior	3.5 - >9.9
Exterior Window Frame		1.1 – 8.2
Corner Building Trim		1.8
Exterior Door Trim		>9.9

### 2.2 Conclusion

No LBP-coated building components were identified at the Highway Garage or at the Teen Center. Therefore, a Toxicity Characteristic Leaching Procedure (TCLP) analysis of the waste generated during re-painting activities was not required.

At the Peter Parley School, the lead screening indicated that the exterior window frames and sashes, corner building trim, and exterior door trim were coated with LBP. A sample of the waste generated

during the proposed re-painting activities must be collected and submitted for TCLP analysis to determined disposal requirements.

The Contractor shall be aware that the Occupational Safety and Health Administration (OSHA) has not established a level of lead in a material below which OSHA Title 29 CFR, Part 1926.62 regulations do not apply. The Contractor shall comply with exposure assessment criteria, interim worker protection, and other requirements of the regulation as necessary to protect workers and building occupants.

**Disclaimer:** The information contained in this report concerning the presence or absence of lead paint does not constitute a comprehensive lead inspection under State of Connecticut regulations Section 19a-111-1 to 11. The surfaces screened represent only a portion of those surfaces that would be screened to determine whether the premises are in compliance with State of Connecticut public housing regulations.

The field testing sheets are provided as *Appendix C* in this report.

Report prepared by Fuss & O'Neill EnviroScience's Environmental Technician James Blum.

Reviewed by:

Kevin McCarthy  
Project Manager

Robert L. May, Jr.  
President

## Appendix A

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### Fuss & O'Neill EnviroScience Accreditations

0001710 FP \*\*PRSRT T8 0 0664 06040

JAMES B BLUM  
FUSS & O'NEILL ENVIROSCIENCE LLC  
146 HARTFORD RD  
MANCHESTER CT 06040-5992

Dear Licensed/Certified Professional,  
Attached you will find your validated license/certification for the coming year. Should you have any questions about your license/certificate renewal, please do not hesitate to write or call:

Department of Public Health

(860) 509-7603

P.O. Box 340308

M.S.#12MQA

<http://www.dph.state.ct.us>

Hartford, CT 06134-0308

Sincerely,

*Jewel Mullen*

JEWEL MULLEN, MD, MPH, MPA, COMMISSIONER  
DEPARTMENT OF PUBLIC HEALTH

INSTRUCTIONS:

1. Detach and sign each of the cards on this form.
2. Display the large card in a prominent place in your office or place of business.
3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.

4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

STATE OF CONNECTICUT  
DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT  
THE INDIVIDUAL NAMED BELOW IS CERTIFIED  
BY THIS DEPARTMENT AS A

LEAD INSPECTOR

JAMES B BLUM

CERTIFICATION NO.  
002207  
CURRENT THROUGH  
11/30/13  
VALIDATION NO.  
03-535587

*James B Blum*  
SIGNATURE

*Jewel Mullen*  
COMMISSIONER

EMPLOYER'S COPY

STATE OF CONNECTICUT  
DEPARTMENT OF PUBLIC HEALTH

NAME

JAMES B BLUM

VALIDATION NO.  
03-535587

CERTIFICATION NO.  
002207

CURRENT THROUGH  
11/30/13

PROFESSION

LEAD INSPECTOR

*James B Blum*  
SIGNATURE

*Jewel Mullen*  
COMMISSIONER

WALLET CARD

STATE OF CONNECTICUT  
DEPARTMENT OF PUBLIC HEALTH

NAME

JAMES B BLUM

VALIDATION NO.  
03-535587

CERTIFICATION NO.  
002207

CURRENT THROUGH  
11/30/13

PROFESSION

LEAD INSPECTOR

*James B Blum*  
SIGNATURE

*Jewel Mullen*  
COMMISSIONER

CERT# L-302 - 123

**CHEMSCOPE TRAINING DIVISION**

**LEAD INSPECTOR INITIAL**

**24 HOUR TRAINING CERTIFICATE**

**James Blum**

**146 Hartford Road , Manchester CT**

Has attended a 24 hour course on the subject discipline on

11/12-11/14/2012 and has passed a written and hands on skills examination.

The above named individual has successfully completed the above training course approved in accordance with the Department of Public Health Standards established pursuant to Section 20 - 477 of the Connecticut General Statutes.

Course Syllabus includes all required topics of the State of Connecticut DPH and EPA.

**Examination Date: 11/14/2012**

**Expiration Date: 11/14/2013**

Under civil and criminal penalties of law for the making of submission of false of fraudulent statements or representations (U.S.C. 1001 and 15 U.S.C. 2615), I certify that this training complies with all applicable requirements of Title IV of TSCA, 40 CFR part 745 and any other applicable Federal, State, or local requirements.



Ronald D. Arena or Scott Arena  
Training Director Training Manager

Chem Scope, Inc.  
15 Moulthrop Street  
North Haven CT 06473  
(203) 865-5605

## Appendix B

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### Lead Paint Testing Procedures and Equipment

## **Standard Operating Procedures Lead-Based Paint Limited Screenings Testing Procedures and Equipment**

The U. S. Department of Housing and Urban Development (HUD) "Guidelines for the Evaluation and Control of Lead Hazards in Housing, September 1997," were consulted for this lead paint screening. HUD has been the agency at the federal level with responsibility for the establishment of national lead-based paint standards for testing and abatement. The HUD document will be referenced as the Guidelines in this document. The HUD Guidelines are specific to child occupied dwelling units or target housing and are not wholly applicable to limited screenings. Additionally, most New England States have regulations and standards with regard to lead paint testing and abatement in child occupied facilities. EnviroScience shall consult these regulations and standards prior to beginning testing. Some states have reporting requirements if certain threshold values for lead paint are found and certain conditions exist. EnviroScience reports any specific testing results required by State laws as licensed inspectors and consultants in these circumstances.

This lead evaluation was a Lead Based Paint Limited Screening. Both the proposed scope of work and the final report will note this type of evaluation was done. A Lead Paint Limited Screening is performed in order to determine through representative testing the lead paint history of a property. However, conclusions about untested areas cannot be reliably determined based on the limited testing that was done. Comprehensive inspections involve testing of representative components in each and every room of a building. A Lead Based Paint Limited Screening is conducted in representative locations and not necessarily every room. The intent is to collect a sufficient number of readings using field instrumentation to characterize a given component or surface. Representative components are classified as testing combinations. The age and use of the functional space, component type, and substrate type are used to characterize a testing combination for purposes of a Lead Based Paint Limited Screening. Considering age of the structure inspectors determine original dates of construction and any major renovations to the original building. Interior spaces where major renovation has occurred are also treated as separate spaces. A functional space is a room or group of rooms used for similar purposes where painting is presumed to be uniform.

Inspectors perform Lead Based Paint Limited Screening on representative components ensuring randomization in the selection of components. EnviroScience utilizes a protocol of a minimum of three (3) rooms with similar building components and surfaces are comprehensively tested similar to inspections for HUD compliance or state regulated inspections. (For example, living room, kitchen, and a bedroom may be comprehensively tested in a 6-room apartment). In this protocol specific unique components are tested in any other locations in the dwelling. Inspectors shall record readings utilizing portable field instrumentation.

Conclusions in a Lead Based Paint Limited Screening are made based on consistent findings in the limited number of readings collected for a given testing combination. Inspectors conduct more readings if trends or similar findings are not found during such a limited screening process. In reporting findings and use in cost estimating, EnviroScience shall use limited screening information to extrapolate (or presume) that the untested areas have similar paint history as to those areas where limited screenings were conducted. (For example if in the three locations tested, all window sashes contained threshold values of lead paint above HUD or other State regulatory levels, then EnviroScience would detail in the

report that all such components in the dwelling should be presumed to contain lead paint or recommend them to be tested further).

Lead-based paint surfaces and components were identified by utilizing on-site x-ray fluorescence (XRF) instruments. Fuss & O'Neill EnviroScience, LLC owns and maintains XRFs for testing for lead-based paint. These instruments are four Radiation Monitoring Devices LPA-1 (RMD). Each of these instruments is operated in accordance with state and federal and manufacturer standards on the use of the instruments. State and federal protocols provide, with the exception of wall surfaces, one reading with the instrument on a representative component in each room, i.e., baseboard, chair rail, etc., as sufficient to establish the lead paint classification of all the representatives of that component type in a room. In the case of walls, because of the large spacial areas involved and the variability in lead content in paint over such large areas, the federal and state governments want a reading on each wall surface in a room. Therefore, representative testing is not permitted for walls.

The federal government has developed Performance Characteristic Sheets (PCS) for each of the types of instruments cited above. Each instrument must be calibrated in accordance with these PCSs on a 1.0-milligram lead standard. Each of EnviroScience's instruments has one of these standards assigned to it. Some of the standards were purchased directly from the government and the others from the manufacturers of the instruments.

Each of the instruments has federal government-determined positive and negative ranges for the definition of lead-based paint. XRF results are classified using either the threshold or the inconclusive range. For the threshold, results are classified as positive if they are greater than or equal to the threshold and negative if they are less than the threshold. There is no inconclusive classification when using the threshold. For the inconclusive range, results are classified as positive if they are greater than the upper limit of the inconclusive range and negative if they are less than the lower limit of the inconclusive range. The ranges for each of the types of instruments and their various operating modes are as follows:

**Radiation Monitoring Device LPA Analyzer 1**

<b>30-Second Standard Mode Reading Description</b>	<b>Substrate</b>	<b>Threshold (mg/cm<sup>2</sup>)</b>
Results corrected for substrate bias on metal substrate only.	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	0.9
	Plaster	1.0
	Wood	1.0



Quick Mode Reading Description	Substrate	Threshold (mg/cm <sup>2</sup> )	Inconclusive Range (mg/cm <sup>2</sup> )
Readings not corrected for substrate bias on any substrate.	Brick	1.0	None
	Concrete	1.0	None
	Drywall	1.0	None
	Metal	1.0	None
	Plaster	1.0	None
	Wood	1.0	None

If a reading falls in the inconclusive range, either the lead inspector should be authorized by the client to take a paint chip sample to determine whether the final result is either positive or negative after laboratory analysis, or the result can be categorized as suspect positive and treated accordingly. If it is not confirmed with laboratory analysis, it cannot be assumed to be negative for toxic levels of lead. If it is assumed to be positive, it can either be abated as a positive if the condition of the surface and/or location of the component requires this treatment under Connecticut and/or HUD regulations, or it can be managed in place as a positive component in accordance with the requirements of Connecticut and HUD regulations.

Prior to the start of any testing, a sketch of the building is drawn, and side designations are given to help identify exactly where readings were taken. Drawings depicting the room-numbering scheme are located on the cover page(s) for the building(s) inspected. Each side of the building was labeled A, B, C, or D. The wall "A" side of the unit is generally the side of primary entrance into a dwelling, and this room is always Room 1. Areas in the units include rooms, hallways, and closets. Areas are numbered in a clockwise fashion as building construction allows. This allows the inspector to indicate which substrate surface was tested. The condition of the surface is described by a check mark in the appropriate column, under the heading "condition of surface" on the testing form.

When more than one surface type was present on a side, the component tested was indicated with a number. If two windows were present on a building side, they were numbered left to right. Closet shelves and shelf supports were numbered top to bottom.

It is understood that the room layouts presented in the report are in conformance with the conditions that exist at the time the testing is performed. EnviroScience avoids labeling a room solely by its current functional use (i.e., living room, bedroom, etc.) since this use can change over time. Similarly, room layouts can change dramatically as dwellings are renovated and additions are built, incorporating existing rooms, or existing interior walls are moved or eliminated altogether.

## Appendix C

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### Lead Testing Field Data Sheets



## LEAD INSPECTION COVER SHEET

### Inspector's Information

Inspector's Name: James Blum

License Number: 2207

XRF Model: LPA-1B

Serial Number: RMD 1377

Date of Inspection: 11/07/13

Project Number: 20131323.A1E

### Property Information

Building Address: 60 South Street/ 6 Governor Street/ Peter Parley School (Route 35 & West Lane

(Street)

Ridgefield

CT

Age of Property: \_\_\_\_\_

(City)

(State)

Describe Structure: \_\_\_\_\_

Are there lead hazards present? ☐ Yes ☒ No  
Were lead dust wipes taken? ☐ Yes ☒ No  
Were soil samples collected? ☐ Yes ☒ No  
Were drinking water samples collected? ☐ Yes ☒ No

Multiple Family Dwelling ☐

Single Family Dwelling ☐

Is there an EBL child present?  
☐ Yes ☐ No ☐ Unknown

Is there a child under six years of age in the dwelling?  
☐ Yes ☐ No ☐ Unknown

Number of units in building: \_\_\_\_\_

Number of units tested: \_\_\_\_\_

Is there an EBL child present in the building?

☐ Yes ☐ No ☐ Unknown

If EBL child, which unit(s)? \_\_\_\_\_

Is there a child under six years of age in the building?

☐ Yes ☐ No ☐ Unknown

If child under six, which unit(s)? \_\_\_\_\_

### XRF Calibration Check

Calibration Paint Film Used: ☒ NIST 1.02 mg/cm<sup>2</sup> ☐ Manufacturer's Standard 1.0 mg/cm<sup>2</sup>

Calibration Check Limits Used: ☒ RMD (0.7 to 1.3 mg/cm<sup>2</sup> inclusive)  
☐ Scitex MAP4 (0.6 to 1.2 mg/cm<sup>2</sup> inclusive)

	Hour	First Reading	Second Reading	Third Reading	Average
First Check	0915	1.1	1.1	1.1	1.1
Second Check	1030	1.1	1.1	1.1	1.1
Third Check					
Fourth Check					



(860) 646-2469 Fax (860) 649-6883



146 Hartford Road, Manchester, CT 06040

(860) 646-2469 Fax (860) 649-6883

**Address:** 6 Governor Street, Ridgefield CT

**Apt. #:**\_\_\_\_\_

**Floor:** \_\_\_\_\_ **Room:** \_\_\_\_\_

Page 2 of 3

**Project Name:** Ridgefield Garage/Little Barn

**Project Number:** 20131323.A1E

**Project Manager:** Kevin McCarthy (If Positive - Check All That Apply)

\* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B  
N/A: Not Accessible; N/C: Not Coated; COV: Covered; VR – Vinyl Replacement

**Notes:**



146 Hartford Road, Manchester, CT 06040

(860) 646-2469 Fax (860) 649-6883

**Address:** Peter Parley School (Route 35 & West Lane)

**Apt. #:**\_\_\_\_\_

**Floor:** \_\_\_\_\_ **Room:** \_\_\_\_\_

Page 3 of 3

**Project Name:** Ridgefield Garage/Little Barn

**Project Number:** 20131323.A1E

**Project Manager:** Kevin McCarthy (If Positive - Check All That Apply)

\* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B

N/A: Not Accessible; N/C: Not Coated; COV: Covered; VR – Vinyl Replacement

## Notes