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BID ADDENDUM #1

To: All Bidders

From: Rita V. Brousseau, Chief Procurement Officer

Date: October 23, 2017

Re: Removal of Asbestos-Contaminated Debris from Bennington Street IFB

This Addendum modifies and forms a part of the Bid Set documents dated October 11, 2017.

This Addendum consists of the following: two (2) typed pages and Work Plan.

Where any items called for in the bid documents are supplemented here, the supplemental requirements shall be considered as added thereto. Where any original item is amended, voided, or superseded here, the other provisions of such items not specifically amended, voided, or superseded shall remain in effect.

I. The following items are the City's responses to Bidder questions:

1. **Question:** The IFB mentions there is a non-traditional work plan that will be followed; will a draft or copy of the NT plan be released to review what MaDEP is requiring?
Answer: Yes, it is attached to this addendum.
2. **Question:** Is the water and sewer lines cut & capped for each property?
Answer: Water & Sewer service will be capped at the sidewalk.
3. **Question:** Can we cut the trees in front of the two properties?
Answer: Only if absolutely necessary. Contractor is to seek City's approval prior to the removal of any trees.
4. **Question:** Are the foundations coming out?
Answer: No.
5. **Question:** Are we backfilling or are we slopping off sides to make safe?
Answer: No.
6. **Question:** Is the City paying for the Police and Fire details?

Answer: Yes. City will provide the required police and fire details at no cost to the Contractor.

7. **Question:** Will the demo permit fee be waived?

Answer: No.

NOTE TO ALL BIDDERS: YOU MUST ACKNOWLEDGE RECEIPT OF ALL ADDENDA ON YOUR BID SUBMISSION FORM WHERE INDICATED.

ENVIRONMENTAL HEALTH INC.

P.O. BOX 186 DOVER, MASSACHUSETTS 02030
(508)785-2258

October 21, 2017

Mr. Peter Seward, M.Sc., CHMM
MassDEP Environmental Analyst - Asbestos Inspector
205 Lowell Street
Wilmington, MA 01887

RE: Asbestos Bulk Loading Work Plan – **133, 137, 139 Bennington, Lowell, MA**

Dear Mr. Seward:

Enclosed is the work plan for the bulk removal of ACM building material debris at 133, 137, 139 Bennington St. in Lowell, MA. The homes at this location were burned down or heavily damaged on June 11, 2017. The debris is combined and impossible to sort. Therefore, all debris will be treated as ACM.

Please give me if you have any questions.

Sincerely,



Philip G. Terrell
Certified Industrial Hygienist
Massachusetts Designer 60148

ASBESTOS BULK LOADING WORK PLAN

133, 137, 139 Bennington St.
Lowell, MA 01841

Prepared by:

Philip G. Terrell, CIH
Environmental Health, Inc.
Dover, MA
Massachusetts Designer 60148

October 21, 2017

1.0 INTRODUCTION

The purpose of this work plan is to provide the guidelines necessary for the proper disposal and decontamination of asbestos-containing debris encountered at 133, 137, 139 Bennington St. in Lawrence, MA. On June 11, 2017, a fire destroyed the residences. The debris is comingled and impossible to distinguish.

This total of about 600 cubic yards of debris will be removed. ABCD., of Boston, Massachusetts, is the Abatement Contractor. The waste hauler is ABCD of XYZ!, MA. The primary disposal site will be the Turnkey Landfill in Rochester, NH. The secondary facility will be the Crossroads Landfill in Norridgewock, ME (Waste Management owns both facilities).

Going forward, the selected Abatement Contractor shall provide all necessary labor, materials, equipment, and resources for the removal and decontamination of all identified materials as specified in Section 3.0, SUMMARY OF WORK. All work shall be performed in accordance with all applicable federal, state, and local regulations. The selected Abatement Contractor will arrange to take the waste to an asbestos waste landfill approved by DEP and EPA.

2.0 GENERAL REQUIREMENTS

- 2.1 The Abatement Contractor shall implement the procedures and methods outlined in this work plan when applicable throughout the project. If any procedures or methods specified in this work plan conflict with those required by regulatory agencies, the more stringent shall apply.
- 2.2 The Abatement Contractor shall be required to comply with all applicable procedures and methods identified in, but not limited to, the following regulations:
 - OSHA: 29 CFR 1926.1101; Asbestos Construction Standard
 - MA DEP: 310 CMR 7.00; Air Pollution Control Regulations
 - EPA: 40 CFR 61; Asbestos NESHAP Regulations
 - MA DLWD: 453 CMR 6.00; Removal, Containment and Encapsulation of Asbestos
 - DOT: 49 CFR 171-18 1; Hazardous Materials Regulations
- 2.3 In addition to the above regulations, the Abatement Contractor shall comply with:
 - OSHA: 29 CFR 1910.120; Hazardous Waste Site Operations (HAZWOPER)
 - EPA: 40 CFR 761; Toxic Substances Control Act (TSCA) Regulations
 - MA DEP: 310 CMR 30; MA Hazardous Waste Regulations
- 2.4 The Contractor shall be currently licensed by the Massachusetts Department of Labor

and Workforce Development (MA DLWD) as an Asbestos Abatement Contractor.

- 2.5 Worker personnel shall be 32-hour Asbestos Worker and 40-hour Asbestos Supervisor trained to conduct abatement work in accordance with OSHA standards, and MA DLWD licensed as Asbestos Abatement Workers and Supervisors.
- 2.6 It shall be the responsibility of the Abatement Contractor to review this work plan with his/her workers and ensure that each worker understands the scope of work, applicable regulations, work site rules and requirements, and the work methods described herein,
- 2.7 Respiratory protection shall be as required by applicable regulations (OSHA 29 CFR 1926.1101).
- 2.8 Workers and/or persons entering the regulated area(s) shall wear protective disposable clothing including head, hand, and foot coverings.
- 2.9 Workers shall wear required safety equipment, respiratory protection and clothing during all abatement work.
- 2.10 Post asbestos warning signs as required to demarcate work area(s).
- 2.11 All workers and authorized persons who will enter the work area(s) shall don 2 layers of disposable protective coveralls and a respirator.
- 2.12 The Abatement Contractor shall be responsible for controlling access at the work areas and shall maintain a daily log of personnel entering the work areas.

3.0 SUMMARY OF WORK

3.1 Work Area Preparation

- a. All drains in the work have been sealed with expanding foam or equivalent to prevent wastewater from entering the system.
- b. Site fencing will be established to define the work zone and keep general public out of the construction area.
- c. Establish a regulated area at the work zone to exclude other trades onsite and prevent injury from debris handling.

3.2 Site-Specific Removal Plan

- a. The debris and comingled soil will be removed and disposed of as asbestos-containing waste. The contractor will not attempt to separate this waste.

- b. Any building material debris located in the excavation will be removed and disposed of as asbestos-containing waste. Soil shall be removed from the excavation area until no signs of building material waste remain.
- c. A remote two-stage decontamination chamber will be erected as shown on the attached plan (SW of the building). The decontamination chamber will consist of two separate adjacent rooms separated by curtained entrances, constructed in accordance with applicable regulations.
- d. All personnel will have proper asbestos training, medical clearance and licensing and where proper personal protective equipment (PPE). Proper PPE for this project will include disposable full body coveralls, half face air purifying respirators, hard hats, safety glasses, high visibility vests and steel toed boots.
- e. Employees will have a copy of their asbestos training certificates, medical clearance records, respiratory fit test and current asbestos licenses on-site.
- f. Personal air monitoring will be conducted by the supervisor of the **ABCDE** as required by OSHA regulations.

3.3 Debris Loadout

- a. Line the dump trailer with (2) 10-mil liners specifically sized for the shape of the container.
- b. Stage the containers as shown (in blue) on the first page of the attached sketch. The truck route is shown on the sketch with a black dashed arrow.
- c. Spot the container on an impermeable rubber membrane to prevent contamination from any debris that falls from the side of the container.
- d. Wet all debris before and as it is being loaded. Load the waste with an excavator.
- e. Once the dumpsters/dump trailers are loaded, the liners shall be individually sealed utilizing duct tape and spray glue and labeled with proper asbestos warning labels and generator labels. The exterior of the trailer shall be labeled on all sides with DOT 2212 placards to properly identify the waste when transporting the material to a certified landfill. The liner exterior must also have a generator label.
- f. Water hoses and/or misting devices shall be used to continuously wet material and control dust during all handling and loading operations. One hose will be used on each active demolition area to minimize any visual dust generated by demolition activity. Hose nozzles will be adjusted so that a mist of water is generated, as opposed to a stream.

- g. ACM debris will not be crushed, compacted, or processed on site.
- h. Loaded truck(s) will exit the site after inspection. Only paved roadways will be used.
- i. The excavation areas with ACM debris will be covered with 6-mil poly each night after work is completed (if the work takes more than one day).
- j. Upon completion of the removal of soil/ACM debris material, EHI will perform a visual inspection to verify that work is complete.

3.4 Final Cleaning

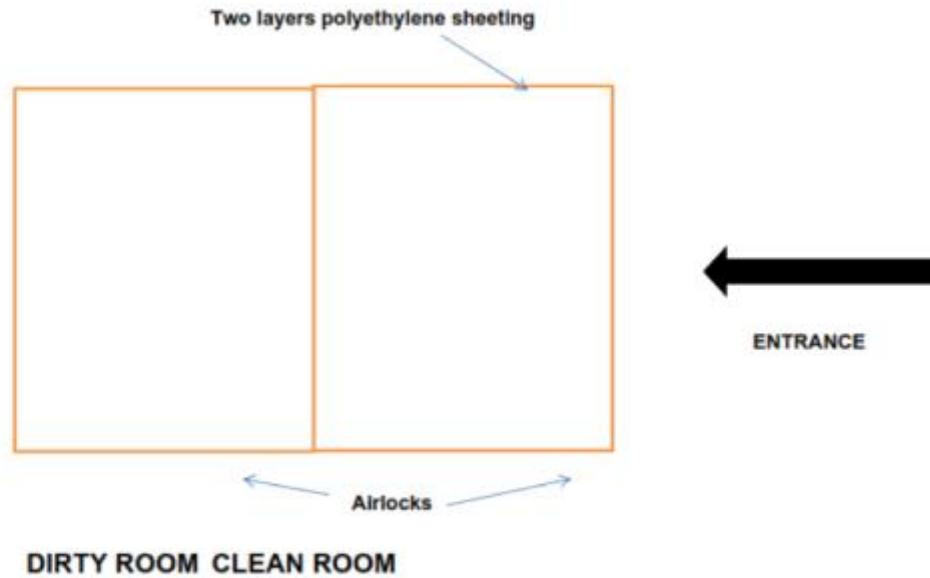
- a. Prior to the last container leaving the site, place the rubber pad that the trucks were staged on into the container and dispose of it as ACM waste.
- b. Prior to leaving the site, the excavator bucket must be decontaminated above the waste container. Wash water will be collected and used to wet the debris.
- c. Request an inspection from the Project Monitor to visually clear the area.

3.5 Inspection and Testing

- a. Visible emissions will not be allowed. If visible emissions occur or the air monitoring exceeds action levels work will stop and the DEP will be notified immediately.
- b. Ambient air monitoring around the circumference of the work area shall be performed on a continuous basis during the cleanup and loading operations. Attention shall be paid to the downwind side. Analyses of the air samples shall be done on site so that corrections in the work practices can be made immediately.
- c. All perimeter air samples shall be collected in the breathing zone. Samples collected utilizing high flow pumps shall be collected at a flow rate between five and twelve (5-12) LPM with a minimum volume of 1080 liters per sample. All air filter cassettes shall be changed periodically to prevent particulate overloading. Each air filter cassette shall have the start and stop time and associated start and stop flow rates recorded in the consultant's site log for review by Mass DEP. Air monitoring series which repeatedly reveal samples that are overloaded with particulate and cannot be analyzed, shall be considered to be in noncompliance with this proposal and potentially subject the facility, and their contractors and consultants, to enforcement action by Mass DEP.

- d. During the work, the Project Monitor (PM) shall conduct area monitoring on all four sides of the work twice per day. Results will be sent to the DEP on a daily basis.
- e. Samples shall be analyzed onsite at the conclusion of each round of monitoring. The action level for air monitoring shall be 0.010 f/cc of air by Phase Contrast Microscopy. If samples reach or exceed that 0.010f, the PM shall stop all work and notify the Abatement Contractor, DEP, and the owner. No restart of the work shall be authorized until the work plan has been amended and the DEP gives the approval to restart.
- f. Following work area cleaning, the Project Monitor (PM) shall conduct a visual inspection of the work area for remaining visible dust or debris.

TWO STAGE DECON DIAGRAM



Decontamination unit shall be constructed with PVC pipe and wrapped in two layers six mil polyethylene sheeting
TWO STAGE DECON WILL BE SET UP CONTIGUOUS TO THE EXISTING REGULATED AREA.