

Request for Proposals
Westhill Gardens Asbestos Abatement
The Housing Authority of the Town of Manchester
February 23, 2017

Request for Proposals

The Housing Authority of Manchester (MHA herein) is seeking proposals for the abatement of asbestos covered pipe elbows and fittings in Boiler Rooms of Westhill Gardens. This request has been prepared by MHA Modernization Coordinator Gary Sweet in consultation with Michael J. Tortora, CT Project Designer #00169.

Type of Proposal and Award of Contract

MHA is seeking stipulated sum proposals. The contract will be awarded to the company with the lowest responsible proposal.

Form of Contract: MHA will issue a Purchase Order for the work.

Form of Proposals

Proposals must be submitted on the Proposal Form that is a part of this request (see below under RFP Documents).

Due Date and Acceptable Forms of Delivery

Proposals are due by 2:00 PM on Thursday March 16, 2017. Proposals can be hand delivered or by mail or email to garys@manchesterha.org. All forms of delivery must be clearly marked Proposal for Westhill Gardens Asbestos Abatement.

RFP Documents

Request for Proposals (this document)

Site Map

Proposal Form

CT Department of Public Health Public Health Code Standards for Asbestos Abatement

Scope of Work

This project involves the removal of asbestos from ¾ and 1 inch pipe elbows and fittings from 10 (ten) basements boiler rooms at Westhill Gardens. There is an average of 13 asbestos covered pipe elbows and fittings per boiler room. The addresses of the buildings are: 11, 12, 27, 39, 42, 71, 80, 87, 105 and 108 Bluefield Drive.

Abatement Procedures

1. All work to be conducted by or under the supervision of a licensed asbestos abatement contractor in accordance with CT State regulations.
2. Establish full negative pressure containment (6-mil poly walls) in the basement boiler rooms with critical barriers and three stage decontamination unit.
3. Wet wipe and /or HEPA Vacuum all movable materials and remove from the work area and dispose of offsite according to state regulations.
4. Wet wipe and HEPA vacuum all surfaces within the work area.
5. Remove and dispose of approx. 10-15 pipe elbows and fittings in each utility room.
6. Encapsulate and perform final visual inspection.
7. Obtain PCM air clearance.
8. Remove all items used in the work from each boiler room and surrounding basement area if used for the work.

Contractor Qualifications (copies to be submitted with Proposal)

1. State of Connecticut Abatement Contractor License.
2. A minimum of three references for prior similar abatement work.

Insurance Required (certificate to be submitted with Proposal)

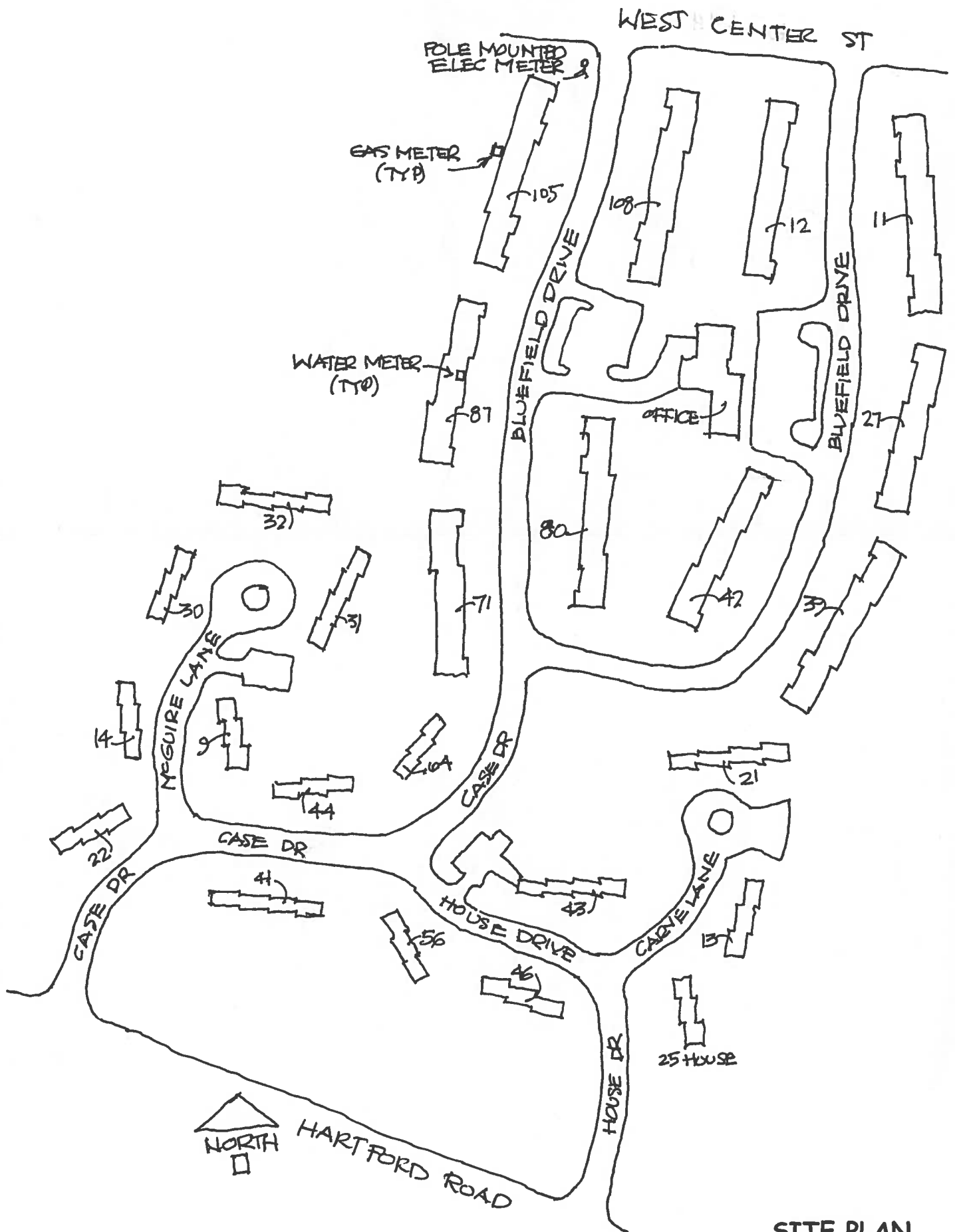
1. Comprehensive General Liability with Non-owned and Hired Auto Endorsement and Broad Form CGL Endorsement and Owners and Contractors Protective: \$300,000 CSL.
2. Commercial Auto Liability Coverage (owned vehicle and including uninsured and underinsured): \$300,000 CSL
3. Worker's Compensation and Employer's Liability Insurance:
Bodily Injury by accident \$100,000 - each accident
Bodily Injury by disease \$100,000 - each accident
Bodily Injury by disease \$500,000 – policy limit

On-Site Visit

The Housing Authority's Modernization Coordinator Gary Sweet will be conducting an on-site visit to observe the existing conditions of two or more of the Boiler Rooms on March 2, 2017. The site visit will start at the Housing Authority's Community Room located at 24 Bluehills Drive at 9:00 AM.

Gary Sweet's Contact Information

24 Bluefield Drive, Manchester, CT 06040 Email: garys@manchesterha.org
Office Phone: 860.643.2163 ext. 118 Cell Phone: 860.578.6817



SITE PLAN
WESTHILL GARDENS
MANCHESTER HOUSING AUTHORITY

PROPOSAL FOR ASBESTOS ABATEMENT
Westhill Gardens
The Housing Authority of the Town of Manchester

The company whose name appears below proposes to provide the services as requested in the Request for Proposals dated 02/23/2017 for the following stipulated sums:

- 11 Bluefield Drive (8 fittings) _____
- 12 Bluefield Drive (16) _____
- 27 Bluefield Drive (17) _____
- 39 Bluefield Drive (13) _____
- 42 Bluefield Drive (11) _____
- 71 Bluefield Drive (11) _____
- 80 Bluefield Drive (10) _____
- 87 Bluefield Drive (12) _____
- 105 Bluefield Drive (12) _____
- 108 Bluefield Drive (18) _____

- TOTAL (128) (Not to exceed): _____

Document copies submitted with Proposal (required):
CT License, References and Insurance Certificate

Print Name _____ Company _____

Signature _____ Date _____

The signatory of this proposal is an authorized agent for the company making this proposal and in signing this proposal indicates that (s)he fully understands all that is contained in the RFP, all issued addenda (if issued) and all of the existing conditions and fully accepts those conditions for accomplishing the work.

19a-332a-1. Definitions

Standards for Asbestos Abatement**19a-332a-1. Definitions**

The following definitions shall apply for the purpose of Section 19a-332a-1 to Section 19a-332a-16 inclusive.

- (a) "Adequately wetted" means sufficiently mixed or coated with water, amended water or an aqueous solution; or the use of a removal encapsulant to prevent dust emissions;
- (b) "Amended Water" means water to which a chemical wetting agent or removal encapsulant has been added to improve penetration;
- (c) "Asbestos" means the asbestiform varieties of actinolite, amosite, anthophyllite, chrysotile, crocidolite and tremolite;
- (d) "Asbestos Abatement" means the removal, encapsulation, enclosure, renovation, repair, demolition or other disturbance of asbestos-containing materials, but does not include activities which are related to (A) the removal or repair of asbestos cement pipe and are performed by employees of a water company as defined in Section 25-32a of the Connecticut General Statutes or (B) the removal of nonfriable asbestos-containing material found exterior to a building or structure other than material defined as regulated asbestos-containing material in 40 CFR 61, the national emission standards for hazardous air pollutants, as amended from time to time;
- (e) "Asbestos Abatement Project" means any asbestos abatement performed within a facility involving more than three (3) linear feet or three (3) square feet of asbestos-containing material;
- (f) "Asbestos Abatement Worker" means any employee of a licensed asbestos contractor who engages in asbestos abatement, has completed a training program approved by the department and has been issued a certificate by the department;
- (g) "Asbestos Abatement Site Supervisor" means any employee of a licensed asbestos contractor who has been specifically trained as a supervisor in a training program approved by the department and who has been issued a certificate by the department;
- (h) "Asbestos-Containing Material" (ACM) means material composed of asbestos of any type and in an amount greater than one percent by weight, either alone or mixed with other fibrous or nonfibrous material;
- (i) "Asbestos Contractor" means any person engaged in asbestos abatement whose employees actually perform the asbestos abatement work and who has been issued a license by the commissioner;
- (j) "Authorized Asbestos Disposal Facility" means a location approved for handling and disposing of asbestos waste by the Connecticut Department of Environmental Protection or by an equivalent regulatory agency if the material is disposed of outside the State of Connecticut;
- (k) "Commissioner" means the Commissioner of Public Health or his/her authorized agent;
- (l) "Conn OSHA" means the Connecticut Department of Labor, Occupational Safety and Health Division;
- (m) "Demolition" means the wrecking or taking out of any load-supporting structural member of a facility together with any related handling operations or the intentional burning of any facility;
- (n) "Department" means the Connecticut Department of Public Health;
- (o) "DEP" means the Connecticut Department of Environmental Protection;
- (p) "Emergency Asbestos Abatement Project" means an asbestos abatement project which was not planned but results from a sudden unexpected event. This includes operations required by non-routine failures of equipment;
- (q) "Emergency Demolition" means a demolition operation ordered by an authorized state or local official, that if not immediately attended to presents a safety or public health hazard;
- (r) "Encapsulation" means the treatment of asbestos-containing material with a material that surrounds or embeds asbestos fibers in an adhesive matrix to prevent the release of fibers as the encapsulant creates a membrane over the surface (bridging encapsulant) or

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19a-332a-2. General provision

- penetrates the material and binds its components together (penetrating encapsulant);
- (s) "EPA" means the United States Environmental Protection Agency;
 - (t) "Enclosure" means the construction of an air-tight, impermeable, permanent barrier around asbestos-containing material to control the release of fibers into the air;
 - (u) "Facility" means any private or public building or structure including but not limited to those used for institutional, residential (including single family homes), commercial or industrial purposes and vessels while ashore or in drydock;
 - (v) "Facility Owner" means the person or entity having title to the facility. For purposes of publicly owned property only, the Facility Owner shall be defined to be the chief executive officer of the federal, state or municipal agency which owns or controls the use of the facility;
 - (w) "Friable Asbestos-Containing Material" means any asbestos-containing material that hand pressure can crumble, pulverize, or reduce to powder when dry and non-friable asbestos-containing material that potentially can be broken, crumbled, pulverized or reduced to powder as a result of asbestos abatement;
 - (x) "Glove Bag" means a manufactured polyethylene bag type of enclosure with built-in gloves, such as is placed with an air-tight seal around asbestos-containing material and which permits the asbestos-containing material contained by the bag to be removed without releasing asbestos fibers to the atmosphere;
 - (y) "Individual" means any human being;
 - (z) "Non Friable Asbestos-Containing Material" means any asbestos-containing material that hand pressure can not crumble, pulverize or reduce to powder when dry;
 - (aa) "OSHA" means the Occupational Safety and Health Administration of the U.S. Department of Labor;
 - (bb) "Person" means any individual, corporation, partnership, firm, association, sole proprietorship, the State of Connecticut or any of its political subdivisions, or any other entity;
 - (cc) "Removal" means the taking out or stripping of any asbestos-containing materials from surfaces or structural components of a facility;
 - (dd) "Renovation" means altering, in any way other than demolition, one or more structural components. Operations in which load-supporting structural members are taken out are excluded;
 - (ee) "Repair" means the restoration of damaged asbestos-containing material; including but not limited to the sealing, patching, enclosing or encapsulating of damaged asbestos-containing material to prevent fiber release;
 - (ff) "Spot Repair" means any asbestos abatement performed within a facility involving not more than three (3) linear feet or three (3) square feet of asbestos containing material;
 - (gg) "Structural Component" means any pipe, duct, boiler, tank, reactor, turbine, furnace or other component at or in a facility or any structural member of a facility;
 - (hh) "Structural Member" means any load-supporting member of a facility such as beams and load-supporting walls or any non-load supporting member, such as ceilings and non-load supporting walls;
 - (ii) "Visible Residue" means any debris or dust on surfaces in areas within the enclosed work area where asbestos abatement has taken place and which is visible to the unaided eye. All visible residue is assumed to contain asbestos;
 - (jj) "Work Area" means the specific area or location where the actual asbestos abatement work is being performed or such other areas of a facility which the Commissioner determines may be hazardous to public health as a result of such asbestos abatement. (Effective August 5, 1988; Amended effective December 27, 1990; April 5, 2001; March 8, 2004.)

19a-332a-2. General provision

- (a) No person shall engage in asbestos abatement unless in compliance with Section 19a-332a-3 to Section 19a-332a-12 inclusive.

19a-332a-3. Notification Requirements

- (b) The requirements of Section 19a-332a-3 to Section 19a-332a-12 inclusive, shall apply to each facility as defined by these regulations.
(Effective August 5, 1988; Amended December 27, 1990.)

19a-332a-3. Notification Requirements

- (a) The asbestos abatement contractor, the facility owners or any person who will be conducting demolition activities shall notify the Commissioner before engaging in any asbestos abatement which involves more than ten (10) linear feet or more than twenty five (25) square feet of asbestos-containing material or before engaging in the demolition of any facility. If the notification is provided by the asbestos abatement contractor, a copy of the notification shall be simultaneously submitted to the facility owner. Notification shall be on forms prescribed by the Commissioner. Notification shall be postmarked or hand delivered at least ten (10) days before the start of asbestos abatement or demolition activities. In the case of emergency asbestos abatement or emergency demolition, notification shall be postmarked or hand delivered within one (1) working day after the start of asbestos abatement or demolition. A copy of the written order requiring demolition shall accompany the notification. This notification shall not relieve the asbestos contractor, facility owner or any person who will be conducting demolition activities of the responsibility for making written notification as may be required by any other municipality, agency of the State of Connecticut, or any agency of the federal government. Such additional federal requirements may include, but are not limited to, notification to the EPA under requirements of the Clean Air Act, the Toxic Substances Control Act, the Asbestos School Hazard Abatement Act, and the Asbestos Hazard Emergency Response Act.
- (b) A single asbestos abatement notification may be provided to the Department for asbestos abatement which will cumulatively involve more than ten (10) linear or more than twenty-five (25) square feet of asbestos-containing material when a facility owner can provide an accurate estimate of the additive amounts of asbestos containing material. Such notification may be provided for a period of time not to exceed one year.
- (c) Asbestos abatement notification to the Commissioner shall, at a minimum, include the following:
- (1) The name, address and telephone number of the asbestos contractor;
 - (2) The name, address and telephone number of the facility owner;
 - (3) The exact location of the facility;
 - (4) The nature of the asbestos abatement;
 - (5) The type of asbestos abatement activity;
 - (6) A description of the facility including the size, age and use of the facility;
 - (7) The amount of asbestos-containing material to be removed, enclosed or encapsulated or contained in the facility or part thereof to be demolished;
 - (8) The scheduled start and completion dates;
 - (9) A description of work practices to be followed to comply with Section 19a-332a-5 to Section 19a-332a-12; and,
 - (10) The name and the location of the authorized asbestos disposal facility where asbestos-containing materials will be deposited.
- (d) A separate notification form shall be completed for each facility for which there is a proposed demolition.
- (e) Demolition notification to the commissioner shall, at a minimum, include the following:
- (1) The name, address and telephone number of any person undertaking the demolition;
 - (2) The name, address and telephone number of the facility owner;
 - (3) The location and street address (including building number or name and floor or room number, if appropriate), and city of the facility being demolished;
 - (4) A description of the facility including its size, age and use;
 - (5) A statement of whether an inspection of the facility has been conducted by a licensed asbestos inspector or inspector/management planner;

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19a-332a-4. Recordkeeping

- (6) The start and completion dates;
 - (7) The name and the location of the disposal facility where demolition materials will be deposited; and,
 - (8) The name, address and phone number of the demolition waste hauler.
- (Effective August 5, 1988; Amended December 27, 1990; March 8, 2004.)

19a-332a-4. Recordkeeping

- (a) The asbestos contractor shall maintain records of all asbestos abatement projects which it performs and shall provide a complete copy of these records to the facility owner upon completion of the project. The asbestos contractor and facility owner shall retain the records for thirty (30) years following completion of the project. These records shall be available to the Department upon request.
 - (b) The asbestos contractor shall record the following information for each project.
 - (1) The location and description of the project and the estimated amount and type of asbestos involved in each project;
 - (2) The start and completion dates of the project;
 - (3) A summary of the procedures used to comply with Sections 19a-332a-5 to 19a-332a-12;
 - (4) The name and address of the authorized asbestos disposal facility and verification from the authorized asbestos disposal facility indicating the amount of asbestos received for disposal;
 - (5) The methodology and results of all air sampling conducted during the abatement process;
 - (6) A complete list of the names and social security numbers of asbestos abatement workers, asbestos abatement site supervisors and other agents involved in the asbestos abatement activity and working for the asbestos contractor on that project and individuals entering the enclosed work area;
 - (7) A log of control of access to the work area;
 - (8) All records for compliance with the requirements of OSHA, Conn OSHA, DEP and EPA regulations; and,
 - (9) Documentation to demonstrate compliance with the post abatement reoccupancy criteria established by Section 19a-332a-12.
- (Effective August 5, 1988; Amended effective December 27, 1990; March 8, 2004.)

19a-332a-5. General requirements for asbestos abatement projects

- (a) Signs shall be posted which meet the specifications set forth in 29 CFR 1926.1101(k)(7)(ii)(A) at all approaches to the work area. Signs shall be posted a sufficient distance from the work area to permit a person to read the sign and take precautionary measures to avoid exposure to asbestos.
- (b) The facility heating, ventilating and air conditioning (HVAC) systems within the asbestos abatement work area shall be shut down, locked out and isolated to prevent contamination of and fiber dispersal to other areas of the facility.
- (c) The work area shall be isolated from non-work areas by air-tight barriers attached securely in place. All openings between the work area and non-work areas including but not limited to windows, doorways, elevator openings, corridor entrances, ventilation openings, drains, ducts, grills, grates, diffusers and skylights, shall be sealed airtight with 6 mil polyethylene sheeting.
- (d) All movable objects which can be removed from the work area shall be removed. Cleaning of contaminated items shall be performed if the item is to be salvaged or reused. Otherwise the item shall be properly disposed of as asbestos waste. All non-movable objects in the work area shall be covered with a minimum of 6 mil polyethylene sheeting secured in place.
- (e) Floor and wall surfaces in the work area shall be covered with polyethylene sheeting or equivalent. All seams and joints shall be sealed with tape or equivalent. Floor covering

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19a-332a-6. Worker decontamination system for asbestos abatement projects

- shall consist of at least two layers of 6 mil polyethylene and must cover at least the bottom 12 inches of adjoining wall. Wall covering shall consist of a minimum of two layers of 4 mil polyethylene sheet which shall overlap the floor covering to prevent leaks. There shall be no seams in the polyethylene sheet at the wall-to-floor joints.
- (f) Work area access shall be restricted to authorized personnel afforded proper respiratory protection and protective clothing.
 - (g) Clean-up procedures shall involve high efficiency particulate air (HEPA) filtration and wet cleaning techniques. Amended water shall be used. The sequence of wet cleaning and HEPA-filtered vacuuming shall be repeated until no visible residue is observed in the work area.
 - (h) Negative pressure ventilation units with HEPA filtration shall be provided in sufficient number to allow at least one (1) work place air change every 15 minutes. Filtered air should be exhausted to areas outside the building which are not near any intake for the building ventilation system.
 - (i) Waste water generated during asbestos abatement shall be filtered by best available technology prior to discharge.
 - (j) All asbestos containing waste shall be adequately wetted with an amended water solution and be placed in leak-tight containers.
 - (k) All leak-tight containers shall be labeled in accordance with OSHA 29 CFR 1910.1200 and EPA 40 CFR Part 61.152 as appropriate.
 - (l) Disposal of asbestos waste shall be at an authorized asbestos disposal facility. If the authorized asbestos disposal site is located within Connecticut, written authorization for disposal shall be obtained from the Department of Environmental Protection, Bureau of Waste Management.
(Effective August 5, 1988; Amended effective December 27, 1990; March 8, 2004.)

19a-332a-6. Worker decontamination system for asbestos abatement projects

- (a) At all asbestos abatement projects, work areas shall be equipped with decontamination facilities consisting of: a clean room, a shower room, and an equipment room. Each room shall be separated from the other and from the work area by airlocks such as will prevent the free passage of air or asbestos fibers and shall be accessible through doorways protected with two (2) overlapping 4 mil polyethylene sheets. The clean room (or change room) shall be equipped with suitable hooks, lockers, shelves, etc. for workers to store personal articles and clothing. The shower room shall be contiguous to the clean room and equipment room. All personnel entering or leaving the work area shall pass through the shower room. The number of showers provided shall satisfy the requirements of OSHA 29 CFR 1910.141(d)(3)(ii). Warm water shall be supplied to the showers. The equipment room (dirty room) shall be situated between the shower room and the work area, and separated from both by means of suitable barriers or overlapping flaps such as will prevent the free passage of air or asbestos fibers.
- (b) No person or equipment shall leave the asbestos abatement project work area unless first decontaminated by showering, wet washing or HEPA vacuuming to remove all asbestos debris. No asbestos contaminated materials or persons shall enter the clean room.
- (c) Where feasible, decontamination systems shall abut the work area. In situations where it is not possible, due to unusual conditions, to establish decontamination systems contiguous to the work area, personnel shall be directed to remove visible asbestos debris from their persons by HEPA-filtered vacuuming prior to donning clean disposable coveralls while still in the work area, and proceeding directly to a remote decontamination system to shower and change clothes.
- (d) In specific situations where the asbestos contractor determines that it is not feasible to establish a contiguous decontamination system at a work site, the asbestos contractor shall provide written notification and provide a copy to the facility owner of intent to utilize

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19a-332a-7. Specific requirements for asbestos removal

a remote decontamination system. Such systems must be operated in conformance with 29 CFR 1926.1101(j). Such notice shall be made with the notification required under Section 19a-332a-3.

(Effective August 5, 1988; Amended effective December 27, 1990; March 8, 2004.)

19a-332a-7. Specific requirements for asbestos removal

- (a) All ACM to be removed or disturbed by removal shall be adequately wetted unless otherwise approved by the Department.
- (b) Components shall be removed intact or in large sections whenever possible and carefully lowered to the floor.
- (c) A coating of encapsulant, chosen so as to be compatible with subsequent coverings, shall be applied to all surfaces that have been stripped of ACM to securely seal any residual fibers that may be present after the surfaces have been visually inspected and found to be free of all visible residue.
- (d) No equipment, supplies, or materials (except properly containerized waste material) shall be removed from an asbestos abatement project work area unless such equipment, supplies, or materials have been thoroughly decontaminated and cleaned free of asbestos debris. Where the configuration of the equipment, supplies or materials is such that decontamination and cleaning free of asbestos debris is neither possible nor feasible, then the object shall be thoroughly wrapped in a minimum of two (2) layers of six (6) mil polyethylene sheeting with all joints, seams and overlaps sealed with tape; or containerized in a metal drum with a locking lid. Examples include, but are not limited to, air filtration or HEPA-filtered vacuuming equipment which may be wrapped in polyethylene rather than dismantling beyond the HEPA filters for cleaning purposes; sections of insulated pipe or other objects to be disposed of intact may be wrapped in polyethylene without prior removal of asbestos. Wood or other materials used to construct on-site decontamination or shower units may be wrapped in polyethylene for disposal or transport to another contaminated work site for re-use.
- (e) HEPA-filtered vacuum cleaners shall be emptied of collected asbestos waste contents prior to removal of the equipment from the work area.
- (f) All pre-filters in the air filtration devices shall be removed prior to removal of the unit from an asbestos work site. The air filtration device shall be damp cleaned completely inside and out. The equipment shall be wrapped in polyethylene pursuant to Subsection 19a-332a-7 (b) prior to removing it from the work area. The replacement of filters shall occur prior to the beginning of the next asbestos abatement project after installation of containment barriers.

(Effective August 5, 1988; Amended December 27, 1990.)

19a-332a-8. Specific requirements for asbestos encapsulation

- (a) All loose and hanging ACM shall be adequately wetted and removed as required in Section 19a-332a-7.
- (b) Filler material applied to gaps in existing material shall contain no asbestos, adhere well to the substrate and provide an adequate base for the encapsulant.
- (c) Encapsulants shall be applied using only airless spray equipment unless otherwise approved by the Department.

(Effective August 5, 1988; Amended December 27, 1990.)

19a-332a-9. Specific requirements for asbestos enclosure

- (a) All loose and hanging ACM shall be adequately wetted and removed as required in Section 19a-332a-7 unless otherwise approved by the Department.
- (b) Areas of ACM shall be sprayed with an encapsulant if they are to be disturbed during the installation of hangers, brackets or other portions of the enclosure.
- (c) Non-asbestos containing substitutes shall be used to patch surfacing materials or thermal system insulation.

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19a-332a-10. Specific requirements for spot repairs

(Effective August 5, 1988; Amended December 27, 1990.)

19a-332a-10. Specific requirements for spot repairs

- (a) Air-tight barriers shall be constructed to assure that asbestos fibers released during abatement activities are contained within the work area. Glove bags are permitted for removal or repair of asbestos-containing materials.
- (b) All asbestos-containing materials shall be wet and placed in leak tight containers prior to being disturbed. They shall be kept wet until containerized.
- (c) A HEPA-filtered vacuum cleaner or wet cleaning technique shall be used to clean up the work area following abatement until there is no visible residue.
- (d) Asbestos-containing waste shall be properly containerized in appropriately labeled impermeable and leak tight containers prior to disposal.
- (e) All leak tight containers shall be labeled in accordance with OSHA 29 CFR 1926.1101(k)(8) and EPA 40 CFR part 61.152 as appropriate.
- (f) Waste water generated during asbestos abatement shall be filtered by best available technology prior to discharge.
- (g) Disposal of asbestos waste shall be at an authorized asbestos disposal facility. If the authorized asbestos disposal site is located within Connecticut, written authorization for disposal shall be obtained from the Department of Environmental Protection, Bureau of Waste Management.

(Effective August 5, 1988; Amended effective December 27, 1990; March 8, 2004.)

19a-332a-11. Alternative work practices

The Department may approve an alternative procedure for an asbestos abatement project or spot repair. The alternative procedures shall be submitted in writing and in advance for review by the Department and shall provide equivalent or a greater measure of asbestos emission control than the work practices prescribed by these regulations. Such approval may be granted for a period of time, not to exceed one year, for specified similar asbestos abatement projects or spot repairs performed within a facility. Such approval may be given for specified kinds of facilities or for asbestos abatement projects or spot repairs which utilize similar work procedures.

(Effective August 5, 1988.)

19a-332a-12. Post abatement reoccupancy criteria for asbestos abatement projects for friable asbestos-containing material

- (a) No individual shall reoccupy the work area of an asbestos abatement project within a facility until compliance with the reoccupancy requirements of this section is achieved.
- (b) Except as required by EPA Regulation 40 CFR Part 763 which applies to public and private schools, an asbestos abatement project shall be considered complete when there is no visible residue in the work area and when air samples demonstrate that the ambient interior airborne concentration of asbestos after the abatement project, does not exceed the levels specified in Subsection 19a-332a-12 (e).
- (c) Air samples shall be collected using aggressive sampling as described in Appendix A of 40 CFR Part 763, subpart E to monitor air for post abatement reoccupancy after each asbestos abatement project.
- (d) Air samples collected under this Section shall be analyzed for asbestos using laboratories accredited by the National Institute of Standards and Technology to conduct such analysis using transmission electron microscopy (TEM) or: Under circumstances specified in this section, laboratories accredited by the American Industrial Hygiene Association Proficiency Analytical Testing Program for phase contrast microscopy (PCM); or individuals listed in the American Industrial Hygiene Association's Asbestos Analyst's Registry, or until the National Institute of Standards and Technology TEM laboratory accreditation program is operational, laboratories that use the protocol described in Appendix A of 40 CFR Part 763, Subpart E.

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19a-332a-14. Inspection of asbestos abatement projects

- (e) Except as provided for in Subsections 19a-332a-12(f) and 19a-332a-12 an asbestos abatement project shall be considered complete when the average concentration of asbestos of five air samples collected within the work area and analyzed by the TEM method in Appendix A of 40 CFR Part 763 subpart E, is not statistically significantly different, as determined by the Z-test calculation found in Appendix A of 40 CFR Part 763, subpart E, from the average asbestos concentration of five air samples collected at the same time outside the work area and analyzed in the same manner, and the average asbestos concentration of the three field blanks described in Appendix A of 40 CFR Part 763, subpart E, is below the filter background level, as defined in Appendix A of 40 CFR Part 763 subpart E, of 70 structures per square millimeter (70 s/mm (2)).
- (f) An asbestos abatement project may also be considered complete if the volume of air drawn for each of the five samples collected within the work area is equal to or greater than 1,199 L. of air for a 25 mm. filter or equal to or greater than 2,799 L. of air for a 37 mm. filter, and the average concentration of asbestos as analyzed by the TEM method in Appendix A, of 40 CFR part 763 subpart E. For the five air samples does not exceed the filter background level, as defined in Appendix A, of 70 structures per square millimeter (70 s/mm (2)). If the average concentration of asbestos of the five air samples within the work area exceeds 70 s/mm (2), or if the volume of air in each of the samples is less than 1,199 L. of air for a 25 mm. filter or less than 2,799 L. of air for a 37 mm. filter, the project shall be considered complete only when the requirements of subsections 19a-332a-12 (e) and 19a-332a-12 (g) are met.
- (g) Air samples for post abatement reoccupancy may be collected and analyzed by phase contrast microscopy (PCM) to confirm completion of an asbestos abatement project involving less than or equal to 1500 square feet or 500 linear feet of asbestos-containing material. The project shall be considered complete when the results of samples collected in the work area and analyzed by phase contrast microscopy using the most current National Institute for Occupational Safety and Health (NIOSH) method 7400, to show that the concentration of fibers for each of the five samples is less than or equal to a limit of quantitation for PCM (0.010 fibers per cubic centimeter (0.010 f/cm (3)) of air). (Effective December 27, 1990.)

19a-332a-14. Inspection of asbestos abatement projects

- (a) The Commissioner or authorized agent shall, after proper identification, have the right to enter into any facility, or onto any property where asbestos abatement is planned or is being performed or has been performed in order to determine whether such asbestos abatement is being performed in a manner consistent with good safe practices and in accordance with these regulations.
- (b) Entry into the facility or onto the property where asbestos abatement is being planned or performed shall be at reasonable times. (Effective August 5, 1988.)

19a-332a-15. Order to cease activity

- (a) Whenever the Commissioner has reason to believe on the basis of inspections or tests that asbestos abatement is being performed in violation of these regulations or, in the judgment of the Commissioner, is endangering the public's health, the Commissioner may issue a written or printed cease activity order to any person who performs, supervises or controls such asbestos abatement. Such order shall specifically describe the nature of the violation or condition endangering the public's health.
- (b) After receipt of a cease activity order, no person shall conduct asbestos abatement except in accordance with the provisions of the order.
- (c) Compliance with the provisions of a cease activity order shall be determined by the Commissioner on the basis of re-inspection or additional tests as deemed necessary by the Commissioner.

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- (d) Within seven (7) business days of receipt of a written request of the person subject to a cease activity order, the Commissioner shall hold a hearing to provide the person subject to the order an opportunity to be heard and show that asbestos abatement is being performed in accordance with these regulations and/or without endangering the public health. The cease activity order shall remain in effect until seven days after said hearing, within which time the Commissioner shall determine whether said order should continue in effect. The cease activity order shall be revoked at the end of said seven day period if no decision is made by the Commissioner or if so ordered by the Commissioner.
(Effective August 5, 1988; Amended December 27, 1990.)

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Whenever, in the judgment of the Commissioner, any person has engaged in or is about to engage in any acts or practices which constitute or will constitute a violation of these regulations, the Commissioner may request the Attorney General to make application to a court of appropriate jurisdiction for an order enjoining such acts or practices or for an order directing compliance with these regulations.

(Effective August 5, 1988.)