

Date: January 11, 2013

Subject: STATEMENT OF WORK: Remove Asbestos in Mechanical and Crawl Spaces

Project No. 512A5-11-353

From: Project Engineering Svc. (138PP)

To: Contracting Officer (90C)

STATEMENT OF WORK:

1. CONSTRUCTION MANAGEMENT SERVICES:

Provide all labor, equipment, materials and supervision to abate and encapsulate existing asbestos products and contaminated areas located in multiple building crawl spaces on the campus of Perry Point VA Medical Center. All work shall be performed in strict compliance with the VA Specifications Sections 02 82 11 Traditional Asbestos Abatement among others.

2. CONSTRUCTION SERVICES:

Option No. 1: Encapsulate the Area with Concrete 'Rat' Slab:

Provide all labor, equipment, materials and supervision to abate / encapsulate the asbestos located in the crawl space of buildings 23H, 24H, 25H, 80H, 82H, 19H Westend, 1H, 2H, 15H, 314, 6H, 501 at Perry Point VA Medical Center. All work shall be performed in strict compliance with the VA Specifications Sections 02 82 11 Traditional Asbestos Abatement among others.

The following table is the approximate quantities of work to be included in Bid:

Building		Floor Area	Wall Perimeter	Wall Area	Ceiling Area		Total Wall & Ceiling	Column	Pipe / Conduit
No:							Encapsulation	Encapsulation	Encapsulation
	Units	(FT SQ)	(FT)	(FT SQ)	(FT SQ)		(FT SQ)	(FT SQ)	(FT SQ)
23H		9,720	780	3,120	9,720		12,840	1,284	1,560
24H		16,500	1,200	4,800	16,500		21,300	2,130	2,400
25H		16,500	1,250	5,000	16,500		21,500	2,150	2,500
80H		9,400	690	2,760	9,400		12,160	1,216	1,380
82H		7,150	745	2,980	7,150		10,130	1,013	1,490
19H		4,250	410	1,640	4,250		5,890	589	820
1H		8,300	720	2,880	8,300		11,180	1,118	1,440
2H		6,700	720	2,880	6,700		9,580	958	1,440
15H		6,200	550	2,200	6,200		8,400	840	1,100
314		1,500	370	1,480	1,500		2,980	298	740
6H		2,600	230	920	2,600		3,520	352	460
501		650	60	240	650		890	89	120
Totals =>		89,470	7,725	30,900	89,470		120,370	12,037	15,450

The scope of work includes the following:

- Isolating the crawl space from the other portions of the building using 6 mil polyethylene sheeting and establishing a negative pressure work area through the use of HEPA equipped negative air equipment. All work shall be done in accordance with the applicable OSHA standards.
- After entering the work area the workers will remove all visible debris (asbestos or otherwise) from the surface of the entire crawl space and place it into 6 mil polyethylene bags for disposal as asbestos containing waste. Copies of disposal manifests shall be provided to the VA.
- Level the earthen floor to within a tolerance of six (6) inches in the entire crawlspace to avoid any large divots and/or mounds of earth for ease of travel for maintenance workers that will be accessing this space.
- After leveling of floor material, install 6mil glued seam polyethylene sheeting vapor / asbestos barrier over the entire floor area. Sheeting shall cover all exposed flooring, all areas wall to wall, surrounding all columns and / or obstructions.
- Apply and seal all, asbestos insulated piping, penetrations into floor slab above with 6mil glued polyethylene sheeting vapor / asbestos barrier over the entire opening. Sheeting shall be sealed to piping and floor slab being penetrated surrounding all pipes and / or obstructions.

All removed debris and / or soil shall be hauled to an approved hazardous waste site, suitable to accept asbestos containing waste. Copies of disposal manifests shall be provided to the VA.

- At the completion of polyethylene sheeting, apply spray-on penetrating encapsulation coating, per manufacture's recommendation, to all crawl space walls, columns, underside of floor slab above, and all piping, conduit, and ductwork (similar or equal to Foster® 32-21™).
- After sheeting and encapsulating the work area, place one half (1/2) inch expansion joint material along all concrete walls and columns, where the concrete 'rat' slab will interface. Place two (2) inches of 3,000 PSI concrete, reinforced with fiberglass strands over the entire earthen crawl space floor. In areas of low clearance, less than 18" from obstruction to flooring, remove material required to maintain the original clearances. Provide a leveled broom (textured) finish for foot/shoe traction.

Option No. 2: Removal of Contaminated Soil:

Provide all labor, equipment, materials and supervision to abate / encapsulate the asbestos located in the of crawlspaces and mechanical rooms of buildings 23H, 24H, 25H, 15H, 80H, 82H, 19H Westend, 1H, 2H, 15H, 314, 6H, 501 at Perry Point VA Medical Center. All work shall be performed in strict compliance with the VA Specifications Sections 02 82 11 Traditional Asbestos Abatement among others.

The following table is the approximate quantities of work to be included in Bid:

Building		Floor Area	Wall Perimeter	Wall Area	Ceiling Area		Total Wall & Ceiling	Column	Pipe / Conduit
No:							Encapsulation	Encapsulation	Encapsulation
	Units	(FT SQ)	(FT)	(FT SQ)	(FT SQ)		(FT SQ)	(FT SQ)	(FT SQ)
23H		9,720	780	3,120	9,720		12,840	1,284	1,560
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25H		16,500	1,250	5,000	16,500		21,500	2,150	2,500
80H		9,400	690	2,760	9,400		12,160	1,216	1,380
82H		7,150	745	2,980	7,150		10,130	1,013	1,490
19H		4,250	410	1,640	4,250		5,890	589	820
1H		8,300	720	2,880	8,300		11,180	1,118	1,440
2H		6,700	720	2,880	6,700		9,580	958	1,440
15H		6,200	550	2,200	6,200		8,400	840	1,100
314		1,500	370	1,480	1,500		2,980	298	740
6H		2,600	230	920	2,600		3,520	352	460
501		650	60	240	650		890	89	120
Totals =>		89,470	7,725	30,900	89,470		120,370	12,037	15,450

The scope of work includes the following:

- Isolating the crawl space from the other portions of the building using 6 mil polyethylene sheeting and establishing a negative pressure work area through the use of HEPA equipped negative air equipment. All work shall be done in accordance with the applicable OSHA standards.
- After entering the work area the workers will remove all visible debris (asbestos or otherwise) from the surface of the entire crawl space and place it into 6 mil polyethylene bags for disposal as asbestos contained waste.
- Apply and seal all, asbestos insulated piping, penetrations into floor slab above with 6mil glued polyethylene sheeting vapor / asbestoses barrier over the entire opening. Sheeting shall be sealed to piping and floor slab being penetrated surrounding all pipes and / or obstructions.
- After removal of debris, remove the top six (6) inches of the earthen floor and level to within a tolerance of six (6) inches in the entire crawlspace to avoid any large divots and/or mounds of earth for ease of travel for maintenance workers that will be accessing this space.
- At the completion of earth removal, apply spray-on penetrating encapsulation coating, per manufacture's recommendation, to all crawl space walls, columns,

underside of floor slab above, and all piping, conduit, and ductwork (similar or equal to Foster® 32-21™).

All removed debris and / or soil shall be hauled to an approved hazardous waste site, suitable to accept asbestos containing waste. Copies of disposal manifests shall be provided to the Contract Office Technical Representative (COTR).

3. SUBMITTAL REQUIREMENTS:

Contractor shall provide submittals as indicated in the “Schedule of Contractor’s Submittals” listed at the end of this section.

The Contractor shall furnish all submittals to the COTR through the Contracting Officer for approval & acceptance. Submittals shall consist of four (4) prints of all shop drawings, product data, Materials Safety Data Sheets (MSDS), and catalogue cuts for all equipment and materials furnished under this contract, before purchase or installation and shall designate model numbers and options provided.

Itemized below is a list of materials requiring drawings, certifications, manufacturer’s literature, data brochures, Material Safety Data Sheets, technical data, and samples. These materials as noted shall be submitted to the Contracting Officer by the Contractor for approval using the appropriate form approved by the Contracting Officer.

Note that MSDS used on this project shall be submitted to the Contracting Officer. Copies of all approved MSDS shall be obtained from the Contracting Officer before starting any work requiring submittals as specified. All submittals, except warranties and operating instructions, as noted below, shall be submitted not later than 10 days after receipt of the Notice to Proceed or as specified by the Contracting Officer.

The Contracting Officer shall return the submittals approved or disapproved within 10 days after receipt, by VA Form 08-6225. If submittals cannot be made within 10 days after Notice to proceed or as specified by the Contracting Officer, the Contracting Officer shall be advised of the difficulty and an extension of time requested.

Warranties and operating instructions are required at the completion of the Contract work. Four copies of all warranties and operating instructions shall be provided unless otherwise specified.

Schedule of Contractor’s Submittals:

List of subcontractors, Project Superintendent and & Relevant Work Site Employee
Company name, address, phone, Employee name, Company, trade address, phone.

Schedule of Documents

Materials

Manufacturer’s Data (MD), Shop
Drawing (SD), MSDS

All Equipment	Manufacturer's Data (MD), Shop Drawing (SD), MSDS
Utility Outages	Upon Request, 3 day prior notice
Hot Work Permit	Upon Request, 3 day prior notice
Record Drawings	Marked Red Line Prints with updates

4. SAFETY PRECAUTIONS

A. The Contractor shall comply with all applicable Federal, State and local legal requirements regarding workers health and safety. The requirements include but are not limited to, those found in Federal and State Occupational Safety and Health Act (OSHA) statutes and regulations, such as applicable provisions of Title 29, Code of Federal Regulations (CFR) Parts 1910 and 1926. Contractor is solely responsible for determining the legal requirements that apply to activities, and shall ensure safe and healthful working conditions for its employees.

B. Contractor shall be aware the possible of destabilized lead based paint / paint chips in mechanical rooms and work areas. All necessary precautions shall be taken to prevent contamination to adjoining mechanical spaces and / or any surrounding areas as well as providing appropriate personal protective equipment (PPE).

C. Contractor shall be aware of the presents energized pressurized steam, piping, and electrical systems with in mechanical rooms and crawlspace. All necessary precautions shall be taken to prevent damage to any system or components as well as providing appropriate PPE for the work environment.

D. Contractor shall assume the responsibility to guard against causing of fires and/or explosions and to protect Government Property, reference NFPA 241 and 29 CFR 1926.

E. The Contractor shall perform the work in a manner consistent with the area security and confined space and fire safety regulations especially with regard to exits and exit way access. Utility shutdowns shall not compromise security, communication or fire safety for occupants.

F. No flammable liquids shall be stored or used in the building.

G. The necessary number and appropriate types of portable fire extinguishers are required per National Fire Protection Agency (NFPA) 10 and NFPA 241.

H. The Contractor shall receive from the COTR a Hot Work Permit for all cutting, welding, and soldering. All permits shall be prominently displayed during all construction.

I. The Contractor shall receive from the COTR a Permit for Determination of Interim Life Safety Measures (ILSM). All permits shall be prominently displayed during all construction.

J. The Contractor shall receive from the COTR a Environmental Impact Statement. All permits shall be prominently displayed during all construction.

K. The Contractor shall receive from the COTR a Infection Control Construction Permit (ICRA). All permits shall be prominently displayed during all construction.

L. All necessary precautions shall be taken by the contractor to prevent accidental operation of any existing smoke detectors or sprinkler heads.

5. HAZARDOUS MATERIAL REPORTING:

A. The Contractor shall maintain hazardous material inventories and material safety data sheets (MSDS) for all hazardous materials (as defined in CFR 1910.120, 40 CFR's 355, 370, & 372) to be stored and used buildings under construction. Hazardous materials must be inventoried when received and at the project's completion. The amounts used shall be maintained for the project duration, and for the calendar year.

B. Hazardous Materials Inventories, Material Safety Data Sheets and material quantities used shall be submitted to the Contracting Officer for approval.

C. In the event of any hazardous spill, Contractor shall immediately first notify the Contracting Officer's Technical Representative, as well as the Contracting Officer. The Contractor shall be solely responsible for the expense of any cleanup of any such spill, and the cleanup shall be in accordance with all current regulations.

6. ENVIRONMENTAL PROTECTION:

In order to provide for abatement and control of all environmentally hazardous materials arising from demolition and/or construction activities, the Contractor shall comply with all applicable environmentally hazardous material control and abatement and all applicable environmental regulations.

7. INTERIM LIFE SAFETY MEASURES

Construction shall comply with all applicable provisions.

8. APPLICABLE SPECIFICATIONS

Applicable specifications shall be down loaded via Department of Veterans Affairs Office of Construction & Facilities Management TIL – Master Construction Specifications found at <http://www.cfm.va.gov/til/spec.asp> and marked up for the specific work included in the “As Built” documents.

Richard Watters
Contract Officer Technical Representative
General Engineer
VA Maryland Health Care System