

**ADDENDUM 2**  
**BID #FAC30647-10 / FPH BLDG. #8050**  
**ASBESTOS AND LEAD ABATEMENT**  
**BASEMENT AND FIRST FLOOR**  
**FLORIDA HIGHWAY PATROL BUILDING**  
**THE FLORIDA STATE UNIVERSITY**  
**2908 RIDGEWAY ST., TALLAHASSEE, FLORIDA**  
**DATE: 19 OCTOBER 2010**  
**MEI PROJECT NO. 004.150.000**  
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Prepared by: Mihir Environics, Inc.  
3161 Eliza Road, Unit 2  
Tallahassee, Florida 32309  
(850) 422-1255

**A-1 Revised Specifications paragraphs:**

**SECTION 01010 - SUMMARY OF WORK- ASBESTOS AND LBP ABATEMENT**

**1.1 Project Identification:**

- 1.1.1 The asbestos abatement and lead abatement in Florida Highway Patrol (FHP) Building, Basement and First Floors. The asbestos abatement and lead abatement specifications dated 25 August 2008 2010 were prepared by Mihir Environics, Inc. (MEI).
- 1.1.2 The Scope of work is divided in multiple phases.

Option/Phases	Scope of work
Lead Abatement	<ul style="list-style-type: none"><li>• Lead dust decontamination in the designated areas Basement and First Floors.</li><li>• Disposal of lead dust contaminated material including HVAC ducts in the basement and first floors.</li><li>• Decontamination of all AHUs on basement and first floors.</li></ul>
Asbestos Abatement	<ul style="list-style-type: none"><li>• Abatement of all ACM and asbestos contaminated material from Basement and First Floors.</li></ul>

**SECTION 01043 - PROJECT COORDINATION - ASBESTOS AND LBP ABATEMENT**

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- 1.3.3 Post Project Documentation: Provide a copy of documents required to be kept and maintained during the course of the work. Project documentation includes the following:
- a. Approved submittals.
  - b. Daily logs.
  - c. Special reports.
  - d. Inspection certifications (Request for Services form).
  - e. Waste disposal receipts and waste manifests.
  - f. Daily work area strip charts.

**SECTION 01061 - REGULATORY REQUIREMENTS AND INDUSTRY**  
**STANDARDS - ASBESTOS AND LBP ABATEMENT**

**1.8 Permits and State Licenses:** The Contractor shall be responsible for obtaining necessary permits, state licenses, and certifications of personnel in conjunction with asbestos removal, hauling, and disposal. Fees and/or charges for these licenses, permits and certifications shall be paid by the Contractor. The following are required:

- 1.8.1 Current license with the Florida Department of Business and Professional Regulations as an asbestos contractor.
- ~~1.8.2 Current license with the Florida Department of Business and Professional Regulations as an asbestos roofing contractor.~~
- 1.8.3 Certifications as noted in Section 01560 WORKER PROTECTION - ASBESTOS ABATEMENT, and Section 01561 WORKER PROTECTION LBP ABATEMENT.

**1.9 Notifications:** Prior to commencement of asbestos abatement work the Contractor shall send written notice of the proposed abatement work to the agencies and offices listed below. Notification must be submitted on the "Notification of Demolition & Renovation" form. The listing of applicable agencies and offices is as follows:

- a. Asbestos Coordinator  
Florida Department of Environmental Protection  
2815 Remington Green Circle

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Tallahassee, FL 32308  
(904) 488-3704

- b. Mr. Mark Klawinski, CIH, CSP  
~~Coordinator, Environmental Health & Safety~~  
Department of Environmental Health and Safety  
The Florida State University  
Suite 1200, MCH, 1021 Atomic Way  
Tallahassee, FL 32306-4154  
(904) 644-6895
- c. Project Manager  
Mihir Environics, Inc.  
3161 Eliza Road, Unit 2  
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**SECTION 01411 - AIR MONITORING, INSPECTION AND TESTING**  
**REQUIREMENTS LBP ABATEMENT**

**3.3 Post-Abatement Clearance Sampling of LBP Abatement Surfaces:** The Engineer will collect samples from surfaces included in the LBP abatement. For dust wipe samples use the “Single Surface Sampling” and “soil sampling” technique in accordance with HUD’s Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing” Chapter 15.

- 3.3.1 Clearance Wipe Sampling: The CIH or IH Technician will perform wipe sampling of surfaces included in the lead abatement work.
- 3.3.2 Sample Analysis: Dust wipe samples will be analyzed by XRF analyzer or atomic absorption spectroscopy or inductively coupled plasma-emission spectroscopy, or other equivalent analytical methods. Sample results shall be reported in  $\mu\text{g}/\text{ft}^2$ .
- 3.3.3 Wipe Sample Clearance Levels: Final clearance wipe sample results shall be equal to following levels.
  - 40  $\mu\text{g}/\text{ft}^2$  for all surfaces.
- 3.3.4 ~~Wipe~~ Soil Sample Clearance Levels: Final clearance ~~wipe~~ soil sample results shall be equal to following levels.

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- 400 µg/gm (ppm) for soil sample.

**SECTION 01561 - WORKER PROTECTION - LEAD ABATEMENT**

- 3.3.6 Sample Analysis: The Owner's IH testing laboratory will provide aerosol lead sample analysis of the Contractors OSHA compliance personal monitoring samples using XRF analysis. The Contractor is responsible for air sample analysis by chemical analysis method.

**SECTION 02085 - REMOVAL OF ASBESTOS-CONTAINING FLOOR COVERING**

**1.3 Requirements For Removal of VAT Mastic:**

- 1.3.1 ~~Chemical solvents are not permitted for removal of VAT mastic.~~ **Pre-approved mastic removal solvents are permitted for removal of flooring material adhesive mastic.**
- 1.3.2 Use of solvent for mastic removal shall require TCLP testing of waste material under 40 CFR 261 Subpart C.

**3.1 Flooring Material:** The work area shall be prepared as described in Specification Section 01526 WORK AREA ENCLOSURES, Paragraph "Flooring Removal Area Preparations". Use methods and equipment that will keep the fiber count during removal operations to less than 0.1 fiber/cc of air when tested by NIOSH Method 7400.

- 3.1.1 Procedure: The following procedure shall be used for removal of asbestos-containing floor tile and/or mastic.
- 3.1.1.1 Mist floors covered with asbestos-containing tile with amended water. Wet the material sufficiently to reduce the release of fibers if the tiles are broken upon removal. Continually wet the material during the removal process to minimize fiber dispersion.
  - 3.1.1.2 Completely remove floor tile and adhesive backing using appropriate tools and materials. As material is removed, wrap it in two layers of plastic and place it in labeled containers for transport.
  - 3.1.1.3 Completely remove all bulk mastic using manual scraping, using mechanical method and approved mastic removal solvent.

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3.1.1.4 After completion of mastic removal, thoroughly wash the floor. No bulk mastic residue shall remain on the floor surface following removal and cleaning. It is not necessary to remove asphaltic stain from pores of concrete.

3.1.1.5 On completion of floor mastic removal the floor shall be smooth, free from ridges, and suitable to receive replacement flooring. After completion of flooring material removal, thoroughly clean the work area.

**A-3 Revised Drawing Notes:**

**SCOPE OF WORK**

The scope of work for this project is;

Option/Phases	Scope of work
Lead Abatement	<ul style="list-style-type: none"><li>• Lead dust decontamination in the designated areas Basement and First Floors.</li><li>• Disposal of lead dust contaminated material including HVAC ducts in the basement and first floors.</li><li>• Decontamination of all AHUs on basement and first floors.</li></ul>
Asbestos Abatement	<ul style="list-style-type: none"><li>• Abatement of all ACM and asbestos contaminated material from Basement and First Floors.</li></ul>

All work shall be performed in strict compliance with project specifications and drawings.

**APPROXIMATE QUANTITIES**

Add following:

- The intent of the project is to remove all ACM from the basement and first floors. All ACM shall be removed. The drawings and survey

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information indicates approximate location of ACM. At some location ACM may extend outside designated work areas. NO CHANGE ORDER SHALL BE CONSIDERED BASED UPON ACCESS AND REMOVAL OF HIDDEN ACM. THE CONTRACTOR SHALL ESTIMATE QUANTITIES OF ALL ACM TO BE REMOVED BASED ON PROJECT SPECIFICATIONS AND SITE WALK-THROUGH PRIOR TO BID.

- THE CONTRACTOR SHALL REMOVE AND DISPOSE ALL SUSPECT HAZARDOUS MATERIALS SUCH AS PAINT/SOLVENT CONTAINERS, BATTERIES ETC. IN ACCORDANCE WITH STATE, FEDERAL AND LOCAL REGULATIONS.
- All HVAC and exhaust duct including of the Firing Range shall be removed. The contractor is responsible for estimate of duct work quantity. The exhaust duct for the firing range area extends outside the building.
- The contractor is responsible for demolition and disposal of concrete vault located in Room B-1o of basement floor. The interior wall contains lead. See photograph.
- As built drawings are available for information. (7 drawings) To request pdf files for these drawings, send email request to [ajay@mihirenvionics.com](mailto:ajay@mihirenvionics.com)

**A-2 Pre-bid site walkthrough:**

- During initial pre-bid site walkthrough Room 134, 135 and 136 were not included. It is recommended that the Contractor should visit these areas, No change order will be considered for this or any other area.

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**A-4 Photographs:**



**Photo – 1 – view of paint/solvent containers, batteries to be disposed off in accordance with regulations. (Photo does not include all containers)**



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**Photo – 2 – view of paint etc. containers, batteries to be disposed off in accordance with regulations. (Photo does not include all containers)**



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**Photo – 3 – view of concrete vault in Basement Room B-10 to be demolished and disposed in accordance with regulations.**

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**Photo – 4 – view of firing exhaust outside the building. All metal duct to be removed and disposed off. The interior of the concrete portion of the exhaust system should be cleaned for lead contamination.**

**Enclosure: As built drawings (7 drawings)**