NOTICE OF ADDENDUM NO. 2

Issued on April 16, 2018

TITLE: RENOVATIONS TO THE ARLINGTON CAREER CENTER

ITB NO.: 60FY18

ITB CLOSING DATE PRIOR TO 2:00 P. M., (LOCAL PREVAILING TIME) ON AND TIME: APRIL 20, 2018

The following information is provided to help with the preparation of Bids:

Q1 In Addendum #1, on page #4 the architect added 12 32 16.1.1, Perforated Metal Panels. Where are these located?
A1 This item is to be deleted from the specification. These are no longer being used.

The following changes are made to ITB 60FY18 and form part of Addendum 2:

1) Modifications to Specifications:


   b) 00 41 00 Bid Form. Form is revised to include Allowance 1, Hazardous Materials and Allowance 2, Owner Contingency. See attachment.

   c) 01 21 00 Allowances. Add section in entirety.

   d) 02 82 00 Hazardous Material Remediation. Add section in entirety.

   e) 08 71 00 Finish Hardware. Add hardware group 6, 7 and 8, see attachment.

   f) 12 32 16 Manufactured Plastic Laminate Clad Casework. Revise paragraph 2.2.H as follows. Delete paragraph 2.2.I (included in Addendum 1). Add paragraph 2.2.J and K as follows.

      H. Surface-mounted "Rakks" Counter Brackets: L-shaped bracket fabricated from aluminum T sections; Model No. EIH-1818FM as manufactured by Rangine Corporation.
      1. Load capacity per bracket: 300 pounds.
      2. Finish: Anodized Aluminum.
4. **Provide with EH-FP-22 Face Plate at each bracket.**

    J. Scrim: Open-weave 100% cotton net, 8-point, 2 thread scrim.
    1. Basis of Design: Rose Brand Sharkstooth Scrim FR
    2. Color: Black

K. Concealed Grab Latches:
1. Basis of Design: Fastening Systems Tree-Lok Fastener System
2. Locate as required by manufacturer to support panel size and weight.

**Modifications to Drawings:**

a) G001 Revise Drawing List to reflect added sheet.

b) A301 Revise plan F5 to clarify demolition of planter areas as shown. Revise plan F1 at existing stairs to clarify new millwork as shown. Add note 3 to Scope of Work to read:
   “3. PAINT ALL EXPOSED CONCRETE. UP TO 5 COLORS WILL BE SELECTED.”

c) A302 Revise plan F1 to add note 3 to Scope of Work to read:
   “3. PAINT ALL EXPOSED CONCRETE. UP TO 5 COLORS WILL BE SELECTED.”

d) A611 Add details A5, B2, B5, C2 and C5. Revise details A7, B7, E3, F5, and F7 as shown.

e) A612 Add sheet in entirety.

f) A700 and A711: Add General Room Finish Note 15 to read as follows:
   15. Provide High Performance Coatings at all locations included in the schedule in section 09 96 00 of the specifications.

g) A711 Revise finishes at existing stairs as shown.

h) ED201 Revise existing power below existing stairs to existing fish tank as shown.

i) E302: Provide new power location for existing fish tank below existing stairs as shown.

Changes to the Drawings and Specifications for this Project made through this Addendum 2 will be available electronically as PDF file format on the Owner’s Representative (Architect’s), Stantec, FTP site. Login and password information for the FTP site will be emailed to all interested General Contractors upon request. Please contact Owner’s Representative (Architect), Greg Overkamp via email at greg.overkamp@stantec.com.

This Addendum No. 2 must be signed, dated and received in the Purchasing Office prior to the date and time stated above **OR** acknowledgment of receipt of this Addendum may be noted on the Bid Form on Page 3.

NAME OF VENDOR: _____________________________________________
ADDRESS: ________________________________

SIGNATURE: ___________________________ DATE: __________

ISSUED BY:

David J. Webb, C.P.M.
Director of Purchasing
Telephone: (703) 228-6127
Cell: (703) 328-5591
Email: david.webb@apsva.us
1.1 EXISTING HAZARDOUS MATERIAL INFORMATION

A. This Document with its referenced attachments is part of the procurement and contracting requirements for Project. They are made available for Bidders' convenience and information, but are not a warranty of existing conditions.

B. A Limited Asbestos-Containing Materials Survey, prepared by ECS Capitol Services, PLLC, dated July 31, 2017, is appended to this Document.

C. Related Requirements:

1. Section 02 82 00 "Hazardous Material Remediation" for notification requirements if materials suspected of containing hazardous materials are encountered.
LIMITED ASBESTOS-CONTAINING MATERIALS SURVEY

APS CAREER CENTER
816 S WALTER REED DRIVE
ARLINGTON, VIRGINIA 22204

ECS PROJECT NO. 47:1346-Q

FOR

ARLINGTON COUNTY PUBLIC SCHOOLS

JULY 31, 2017
July 31, 2017

Ms. Robin Cook
Arlington County Public Schools
2770 S. Taylor Street
Arlington, VA 22207
robin.cook@apsva.us

ECS Project No. 47:1346-Q

Reference: Limited Asbestos-Containing Materials Survey, APS Career Center, 816 S Walter Reed Drive, Arlington, Virginia

Dear Ms. Cook:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide Arlington County Public Schools with the results of the above referenced limited survey performed at APS Career Center located at 816 S Walter Reed Drive in Arlington, Virginia. This report summarizes our observations, analytical results, findings, and recommendations related to the work performed. The work described in this report was performed by ECS in general accordance with the Scope of Services described in ECS Proposal Number 47:5019-EP and the terms and conditions of the agreement authorizing those services.

ECS appreciates this opportunity to provide Arlington County Public Schools with our services. If we can be of further assistance to you, please do not hesitate to contact us.

Sincerely,

ECS Mid-Atlantic, LLC

Michael Hamill
Project Manager
mhamill@ecslimited.com
703-471-8400

Diana Krass
Senior Project Manager
dkrass@ecslimited.com
703-471-8400
<table>
<thead>
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<th>Section</th>
<th>Page</th>
</tr>
</thead>
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<td>4</td>
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1.0 SITE DESCRIPTION

The subject property consists of APS Career Center located at 813 S Walter Reed Drive in Arlington, Virginia. Based on the information available at this time, the building is scheduled for minor renovations.

As requested by Arlington County Public Schools (APS), an asbestos-containing materials survey was performed in six areas, the chemistry lab (Rooms 209, 210, and 210A), fitness/drill room, changing rooms, servery/kitchen, administrative office, and the counseling/guidance offices (Rooms 222, 222C, and 222F). No other areas or materials of the subject building were included in this survey.

2.0 PURPOSE

The purpose of the survey was to identify asbestos-containing materials (ACMs) which may require special handling and/or disposal if removed during construction activities. The identification of ACMs may require trained labor, regulated work practices, and special disposal.

3.0 METHODOLOGY

ECS performed the authorized Scope of Services in general accordance with our proposal, standard industry practice(s) and methods specified by regulation(s) for the identification of ACMs.

3.1 Asbestos-Containing Materials

The non-invasive asbestos survey was performed by a asbestos inspector who has received EPA accredited training and is licensed by the Commonwealth of Virginia. Samples of suspect ACMs were collected utilizing hand tools and placed into individual, labeled plastic bags. Unique bulk suspect ACM samples were submitted to Scientific Analytical Institute, Inc. in Greensboro, North Carolina for analysis via Polarized Light Microscopy (PLM) in accordance with current EPA-600 methodology. Materials consisting of additional layers were analyzed separately. Scientific Analytical Institute, Inc. is listed as an accredited laboratory by the National Voluntary Laboratory Accreditation Plan (NVLAP) managed by the National Institute of Standards and Technology (NIST) for bulk sample analysis by currently approved EPA methodology by PLM.

During the survey, ECS attempted to identify suspect ACMs in readily accessible areas. However, due to the destructive means required to identify some materials, certain areas were deemed inaccessible (i.e. behind walls or sub grade materials) and were not surveyed for suspect ACMs.

Samples were collected in general accordance with EPA Standard 40 CFR 763 Subpart E, Asbestos Hazard Emergency Response Act (AHERA) and OSHA Standard 29 CFR 1926.1101 Inspection Protocol. Multiple samples of each unique material were submitted. Samples were analyzed using “Positive Stop” methodology. If one sample of a homogeneous material is reported to contain asbestos, the remaining samples of that material are not analyzed. EPA regulations stipulate that if one sample contains asbestos the entire quantity of that material contains asbestos, regardless of additional analysis.
4.0 RESULTS

The following is a summary of laboratory results, findings, observations, and the results of the Three-Year AHERA Re-Inspection Survey (ECS Project No. 47:1346-G dated January 11, 2017).

4.1 Asbestos-Containing Materials

An Asbestos-Containing Material (ACM) is defined as any material containing more than one percent (>1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, PLM. Materials are categorized by the U.S. EPA in the following categories:

- Friable ACMs are defined as any ACM that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure.
- Non-friable ACMs are defined as any ACM that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.
- Category I non-friable ACM are listed as following: packings, gaskets, resilient floor coverings, and asphalt roofing products containing more than one percent (>1%) asbestos.
- Category II non-friable ACM are listed as any material, excluding Category I non-friable ACM, containing more than one percent (>1%) asbestos.

Regulated Asbestos Containing Materials (RACM) are friable ACM or non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading or has crumbled, been pulverized, or reduced to powder in the course of renovation and/or demolition operations.

Scientific Analytical Institute, Inc. submitted a signed final laboratory report to ECS on July 21, 2017. One (1) of the bulk samples submitted for analysis was reported to contain asbestos in detectable concentrations. These materials are summarized below. A complete list of the sampled materials submitted for analysis and sample locations are located in the Appendix of this report. Additional details regarding the overall locations of the materials identified as asbestos-containing are provided further in the report. Photographs of collected samples reported as asbestos-containing are also located in the Appendix of this report.

In total, 14 bulk samples were submitted to the laboratory of which 22 layers were analyzed
Table 1: Summary of Asbestos-Containing Materials Identified

<table>
<thead>
<tr>
<th>Location</th>
<th>Material Description</th>
<th>Analytical Result</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry Lab (2nd Floor Rooms 209, 210, and 210A)</td>
<td>12&quot; x 12&quot; Beige with Brown Streaks Floor Tile and associated Mastic</td>
<td>1,650 SF</td>
<td>Category I Non-Friable</td>
</tr>
<tr>
<td>Fitness/Drill Room (1st Floor)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Changing Rooms (1st Floor)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Servery/Kitchen (1st Floor)</td>
<td>No ACMs are expected to be disturbed by proposed renovations.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Servery - South Entrance</td>
<td>Yellow and Beige Mosaic Pattern Sheet Flooring*</td>
<td>100 SF</td>
<td>Category I Non-Friable</td>
</tr>
<tr>
<td>Administrative Office (1st Floor)</td>
<td>No ACMs are expected to be disturbed by proposed renovations.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Counseling/Guidance Offices (2nd Floor Rooms 222, 222C, and 222F)</td>
<td>Residual Brown Wall Mastic*</td>
<td>20 SF</td>
<td>Category II Non-Friable</td>
</tr>
</tbody>
</table>

*Refer to ECS’ Three-Year AHERA Re-Inspection Survey (ECS Project No. 47:1346-G dated January 11, 2017) which is provided in the Appendix of this Report. The identified asbestos-containing flooring materials and associated mastics should be assumed to be present underneath other flooring systems, carpet, furniture, cabinets, partition walls, etc.

4.2 Suspect or Assumed Asbestos-Containing Materials

Due to the inaccessibility or the destructive means that asbestos sampling requires, additional suspect ACMs may remain within the building hidden behind inaccessible areas that include, but are not limited to, sub-grade walls, structural members, topping slabs, sub-grade sealants, flooring located below underlayments, areas behind exterior walls, pipe trenches, and subsurface utilities, etc. These areas were deemed inaccessible and were not assessed.

If these materials are discovered during construction activities, they should be presumed to contain asbestos and be treated as ACMs or be sampled immediately upon discovery and prior to disturbance for asbestos content by a certified asbestos inspector in accordance with 29 CFR 1926.1101.
5.0 RECOMMENDATIONS AND REGULATORY REQUIREMENTS

Based on our understanding of the purpose of the survey, the results of laboratory analysis, our findings, observations, and the results of the Three-Year AHERA Re-Inspection Survey (ECS Project No. 47:1346-G dated January 11, 2017), ECS presents the following recommendations.

5.1 Asbestos-Containing Materials

By definition, materials which contain greater than one percent (> 1%) asbestos are considered asbestos-containing materials (ACMs). Friable materials (i.e., able to be crumbled, pulverized, and/or reduced to powder by hand pressure when dry) will easily produce airborne asbestos fibers if disturbed. Non-friable materials may also produce airborne asbestos fibers if disturbed.

ECS recommends where a material type has been identified as asbestos containing that all other materials with similar color, texture, age and size throughout the building's interior and exterior be assumed to contain asbestos. Please refer to Section 4.1 for a complete list of building materials that were reported positive for asbestos.

Suspect ACMs not observed due to inaccessibility or not sampled due to the destructive means that sampling would require may be encountered during construction activities. At the time of the survey, only limited destructive means were used to locate or sample suspect ACMs; therefore, additional suspect ACMs may remain within inaccessible areas that include, but are not limited to, sub-grade walls, structural members, topping slabs, exterior areas, sub-grade sealants, flooring located below underlayments, vapor barriers, pipe trenches and other subsurface utilities, etc. If additional suspect ACMs are uncovered which were not accessible during this survey, it is recommended that these materials either be assumed to contain asbestos or be sampled prior to disturbance upon discovery for asbestos content by an asbestos inspector in accordance with 29 CFR 1926.1101.

Federal and local regulations require ACMs be removed prior to disturbance by renovation. ECS recommends the identified ACMs reported to be present within the buildings during renovation activities be removed and disposed of by a Commonwealth of Virginia certified asbestos abatement contractor if they are to be impacted.

Prior to the removal of asbestos-containing materials (ACMs), notification may be required by either Virginia and/or the US EPA. This notification, if appropriate, must be filed by a Virginia certified asbestos abatement contractor 20 calendar days before starting asbestos abatement activities.

If ACMs are to be removed, it is recommended that an industrial hygienist monitor the project. This involves collecting air samples from within and outside abatement work areas to monitor the asbestos abatement contractor's work practices over the course of the project. The industrial hygienist should inform the general contractor if the asbestos abatement contractor is not performing the work in accordance with project specifications, U.S. EPA regulation 40 CFR Part 61-National Emission Standards for Hazardous Air Pollutants Subpart M: National Emission Standard for Asbestos, and U.S. Occupational Safety and Health Administration (OSHA) regulation 29 CFR 1926.1101 – Asbestos in Construction.
The industrial hygienist should assess each work area to monitor the removal of ACMs. Only after the industrial hygienist has determined the identified ACMs have been removed should final clearance air samples be collected.

Should any identified ACM remain in place, ECS recommends the development and implementation of a site-specific Asbestos Operations and Maintenance Plan detailing routine maintenance and repair operations, contractor notification procedures, and all other requirements under OSHA – reference 29 CFR 1926.1101.

6.0 LIMITATIONS

The conclusions and recommendations presented within this report are based upon a reasonable level of assessment within normal bounds and standards of professional practice for a site in this particular geographic setting. ECS is not responsible or liable for the discovery and elimination of hazards that may potentially cause damage, accidents, or injuries.

The observations, conclusions, and recommendations pertaining to environmental conditions at the subject site are necessarily limited to conditions observed, and/or materials reviewed at the time this study was undertaken. No warranty, expressed or implied, is made with regard to the conclusions and recommendations presented within this report. This report is provided for the exclusive use of the client. This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties without the written consent of ECS and the client.

Our recommendations are in part based on federal, state, and local regulations and guidelines. ECS does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies, any conditions at the site that may present a potential danger to public health, safety, or the environment. Under this scope of services, ECS assumes no responsibility regarding any response actions initiated as a result of these findings. General compliance with regulations and response actions are the sole responsibility of the Client and should be conducted in accordance with local, state, and/or federal requirements.

During this study, samples were submitted for analysis at an accredited laboratory via polarized light microscopy. As with any similar survey of this nature, actual conditions exist only at the precise locations from which samples were collected. Certain inferences are based on the results of this sampling and related testing to form a professional opinion of conditions in areas beyond those from which the samples were collected. No other warranty, expressed or implied, is made.
Appendix I: Site Photographs
1 - View of Asbestos-Containing Residual Brown Wall Mastic in Room 222C. Sample No. 13.

2 - View of Asbestos-Containing 12" x 12" Beige with Brown Streak Floor Tile and associated Mastic.
3 - View of Asbestos-Containing Yellow and Beige Mosaic Pattern Sheet Flooring.
Appendix II: Table 2: Asbestos Bulk Sample Results
### TABLE 2

**BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS**

<table>
<thead>
<tr>
<th>Sample #</th>
<th>Sample Location</th>
<th>Material/Description</th>
<th>Analytical Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - A</td>
<td>1st Floor Fitness/Drill Room</td>
<td>12&quot; x 12&quot; Gray with White Streaks Floor Tile</td>
<td>None Detected</td>
</tr>
<tr>
<td>1 - B</td>
<td>1st Floor Fitness/Drill Room</td>
<td>Black Mastic associated with 12&quot; x 12&quot; Gray with White Streaks Floor Tile</td>
<td>None Detected</td>
</tr>
<tr>
<td>1 - C</td>
<td>1st Floor Fitness/Drill Room</td>
<td>Tan Leveling Compound associated with 12&quot; x 12&quot; Gray with White Streaks Floor Tile</td>
<td>None Detected</td>
</tr>
<tr>
<td>2 - A</td>
<td>1st Floor Fitness/Drill Room</td>
<td>12&quot; x 12&quot; Gray with White Streaks Floor Tile</td>
<td>None Detected</td>
</tr>
<tr>
<td>2 - B</td>
<td>1st Floor Fitness/Drill Room</td>
<td>Black Mastic associated with 12&quot; x 12&quot; Gray with White Streaks Floor Tile</td>
<td>None Detected</td>
</tr>
<tr>
<td>3</td>
<td>1st Floor Boys Bathroom</td>
<td>Gray HVAC Sealant</td>
<td>None Detected</td>
</tr>
<tr>
<td>4</td>
<td>1st Floor Girls Changing Room</td>
<td>Gray HVAC Sealant</td>
<td>None Detected</td>
</tr>
<tr>
<td>5</td>
<td>1st Floor Boys Bathroom</td>
<td>Red Fire Stop Caulk</td>
<td>None Detected</td>
</tr>
<tr>
<td>6</td>
<td>1st Floor Girls Changing Room</td>
<td>Red Fire Stop Caulk</td>
<td>None Detected</td>
</tr>
<tr>
<td>7 - A</td>
<td>1st Floor Servery</td>
<td>White with Brown Dots Linoleum Sheet Flooring</td>
<td>None Detected</td>
</tr>
<tr>
<td>7 - B</td>
<td>1st Floor Servery</td>
<td>Yellow Mastic associated with White with Brown Dots Linoleum Sheet Flooring</td>
<td>None Detected</td>
</tr>
<tr>
<td>8 - A</td>
<td>1st Floor Servery</td>
<td>White with Brown Dots Linoleum Sheet Flooring</td>
<td>None Detected</td>
</tr>
<tr>
<td>8 - B</td>
<td>1st Floor Servery</td>
<td>Yellow Mastic associated with White with Brown Dots Linoleum Sheet Flooring</td>
<td>None Detected</td>
</tr>
<tr>
<td>9 - A</td>
<td>2nd Floor Room 210</td>
<td>4&quot; Black Cove Base</td>
<td>None Detected</td>
</tr>
<tr>
<td>9 - B</td>
<td>2nd Floor Room 210</td>
<td>Brown Mastic associated with 4&quot; Black Cove Base</td>
<td>None Detected</td>
</tr>
<tr>
<td>9 - C</td>
<td>2nd Floor Room 210</td>
<td>Yellow Mastic associated with 4&quot; Black Cove Base</td>
<td>None Detected</td>
</tr>
<tr>
<td>10 - A</td>
<td>2nd Floor Room 209</td>
<td>4&quot; Black Cove Base</td>
<td>None Detected</td>
</tr>
<tr>
<td>10 - B</td>
<td>2nd Floor Room 209</td>
<td>Brown Mastic associated with 4&quot; Black Cove Base</td>
<td>None Detected</td>
</tr>
<tr>
<td>11</td>
<td>2nd Floor Room 222</td>
<td>Mixed Floor Mastics (Yellow, Gray, and Black)</td>
<td>None Detected</td>
</tr>
<tr>
<td>12</td>
<td>2nd Floor Room 222</td>
<td>Mixed Floor Mastics (Yellow, Gray, and Black)</td>
<td>None Detected</td>
</tr>
<tr>
<td>13</td>
<td>2nd Floor Room 222C</td>
<td>Residual Brown Wall Mastic</td>
<td>3% Chrysotile</td>
</tr>
<tr>
<td>14</td>
<td>2nd Floor Room 222</td>
<td>Residual Brown Wall Mastic</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Notes:

**Bold** = Asbestos Containing Material

NAD = No Asbestos Detected

N/A = Sample Not Analyzed; Positive Stop
Appendix III: Laboratory Report
# Asbestos Bulk Analysis Report

**Client:** ECS Mid-Atlantic - Chantilly  
**Address:** 14026 Thunderbolt Pl, Suite 100, Chantilly, VA 20151

**Report Number:** 17-07-03051  
**Received Date:** 07/24/2017  
**Analysis Date:** 07/24/2017  
**Report Date:** 07/24/2017

**Project/Test Address:** 1346-Q Career Center, VA

## Laboratory Results

<table>
<thead>
<tr>
<th>Sample Number</th>
<th>Client Sample Number</th>
<th>Layer Type</th>
<th>Gross Description</th>
<th>Asbestos</th>
<th>Other Materials</th>
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</thead>
<tbody>
<tr>
<td>17-07-03051-001A</td>
<td>1</td>
<td>Tile</td>
<td>Gray Vinyl-Like; Homogeneous</td>
<td>NA</td>
<td>100% Non-Fibrous</td>
</tr>
<tr>
<td>17-07-03051-001B</td>
<td>1</td>
<td>Mastic</td>
<td>Black Adhesive; Homogeneous</td>
<td>NA</td>
<td>3% Cellulose; 97% Non-Fibrous</td>
</tr>
<tr>
<td>17-07-03051-001C</td>
<td>1</td>
<td>Leveling Comp.</td>
<td>Tan Granular; Homogeneous</td>
<td>NA</td>
<td>100% Non-Fibrous</td>
</tr>
<tr>
<td>17-07-03051-002A</td>
<td>2</td>
<td>Tile</td>
<td>Gray Vinyl-Like; Homogeneous</td>
<td>NA</td>
<td>100% Non-Fibrous</td>
</tr>
<tr>
<td>17-07-03051-002B</td>
<td>2</td>
<td>Mastic</td>
<td>Black Adhesive; Homogeneous</td>
<td>NA</td>
<td>Cellulose; Non-Fibrous</td>
</tr>
<tr>
<td>Sample Number</td>
<td>Client Sample Number</td>
<td>Layer Type</td>
<td>Gross Description</td>
<td>Asbestos</td>
<td>Other Materials</td>
</tr>
<tr>
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<td>----------------------</td>
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<td>----------</td>
<td>-----------------</td>
</tr>
<tr>
<td>17-07-03051-003</td>
<td>3</td>
<td>Gray Pliable</td>
<td>Homogeneous</td>
<td>NA</td>
<td>3% Cellulose 7% Non-Fibrous</td>
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<tr>
<td>17-07-03051-004</td>
<td>4</td>
<td>Gray Pliable</td>
<td>Homogeneous</td>
<td>NA</td>
<td>3% Cellulose 7% Non-Fibrous</td>
</tr>
<tr>
<td>17-07-03051-006</td>
<td>6</td>
<td>Red Pliable</td>
<td>Homogeneous</td>
<td>NA</td>
<td>5% Fibrous Glass 95% Non-Fibrous</td>
</tr>
<tr>
<td>17-07-03051-007A</td>
<td>7</td>
<td>Off-White/Gray Vinyl-Like</td>
<td>Homogeneous</td>
<td>NA</td>
<td>5% Fibrous Glass 95% Non-Fibrous</td>
</tr>
<tr>
<td>17-07-03051-007B</td>
<td>7</td>
<td>Off-White Adhesive</td>
<td>Gray Granular</td>
<td>NA</td>
<td>2% Cellulose 98% Non-Fibrous</td>
</tr>
<tr>
<td>17-07-03051-008A</td>
<td>8</td>
<td>Off-White/Gray Vinyl-Like</td>
<td>Homogeneous</td>
<td>NA</td>
<td>1% Cellulose 99% Non-Fibrous</td>
</tr>
<tr>
<td>17-07-03051-008B</td>
<td>8</td>
<td>Off-White Adhesive</td>
<td>Homogeneous</td>
<td>NA</td>
<td>1% Cellulose 99% Non-Fibrous</td>
</tr>
</tbody>
</table>

Unable to separate materials.
<table>
<thead>
<tr>
<th>Lab Sample Number</th>
<th>Client Sample Number</th>
<th>Layer Type</th>
<th>Lab Gross Description</th>
<th>Asbestos</th>
<th>Other Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>17-07-03051-009A</td>
<td></td>
<td>Cove</td>
<td>Black Vinyl; Homogeneous</td>
<td>NA</td>
<td>100% Non-fibrous</td>
</tr>
<tr>
<td>17-07-03051-009B</td>
<td></td>
<td>Mastic</td>
<td>Beige Adhesive; Homogeneous</td>
<td>NA</td>
<td>100% Non-fibrous</td>
</tr>
<tr>
<td>17-07-03051-009C</td>
<td></td>
<td>Mastic</td>
<td>Brown Adhesive; Homogeneous</td>
<td>NA</td>
<td>100% Non-fibrous</td>
</tr>
<tr>
<td>17-07-03051-010A</td>
<td>10</td>
<td>Cove</td>
<td>Black Vinyl; Homogeneous</td>
<td>NA</td>
<td>100% Non-fibrous</td>
</tr>
<tr>
<td>17-07-03051-010B</td>
<td>10</td>
<td>Mastic</td>
<td>Brown Adhesive; Homogeneous</td>
<td>NA</td>
<td>100% Non-fibrous</td>
</tr>
<tr>
<td>17-07-03051-011</td>
<td>11</td>
<td>Mastic</td>
<td>Black Foam; Gray Granular; Inhomogeneous</td>
<td>2% Cellulose, 1% Synthetic, 97% Non-fibrous</td>
<td></td>
</tr>
<tr>
<td>17-07-03051-012</td>
<td>12</td>
<td>Mastic</td>
<td>Black Foam; Gray Granular; Inhomogeneous</td>
<td>2% Cellulose, 3% Synthetic, 95% Non-fibrous</td>
<td></td>
</tr>
<tr>
<td>17-07-03051-013</td>
<td>13</td>
<td>Mastic</td>
<td>Brown Adhesive; Homogeneous</td>
<td>3% Chrysotile, 7% Non-fibrous</td>
<td></td>
</tr>
</tbody>
</table>

Total Asbestos: 3%
### Environmental Hazards Services, LLC

**Client Number:** 201111

**Report Number:** 17-07-0301

**Project/Test Address:** 1346-Q Career Center, VA

<table>
<thead>
<tr>
<th>Sample Number</th>
<th>Client Sample Number</th>
<th>Layer Type</th>
<th>Lab Gross Description</th>
<th>Asbestos</th>
<th>Other Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>17-07-0301-014</td>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**QC Sample:** 6-M22013-3

**QC Blank:** SRM 166 Fiberglass

**Method:** EPA Method 600 R-3:116, EPA Method 600 M4-2-020

**Analyst:** Michelle Swift

---

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Each distinct component in an inhomogeneous sample was analyzed separately and reported as a composite. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full without the written consent of the Environmental Hazards Services, LLC. California Certification #2319 NY ELAP #11714 NVLAP #101882-0 VELAP 460172. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, LLC does not perform any sample collection. Environmental Hazards Services, LLC recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by Polarized Light Microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600 R-3:116 with a Reporting Limit of 0.2%.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600 M4-2-020, sec. 1.

**LEGEND:**

NAD = no asbestos detected
# Asbestos

## Chain-of-Custody

Company Name: ECS Mid-Atlantic, LLC  
Address: 14026 Thunderbolt Place, Ste 100  
City/State/Zip: Chantilly, VA 20151

Phone: 703-471-8400  
e-Mail: mhamill@ecslimited.com  
Acct No.: 201119

Project Name: 3346-Q Career Center  
Collected By: Michael Hamill  
PO#: 3346-Q Career Center  
Date Collected: 7/21/2017

**Turn Around Time:** If no TAT is specified, samples will be processed as 3-Day TAT

<table>
<thead>
<tr>
<th>No.</th>
<th>Client Sample ID</th>
<th>Sample Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>12&quot; x 12&quot; Gray with White Streaks Floor Tile with Black Mastic</td>
<td>Carpet Room</td>
</tr>
<tr>
<td>2</td>
<td>12&quot; x 12&quot; Gray with White Streaks Floor Tile with Black Mastic</td>
<td>Carpet Room</td>
</tr>
<tr>
<td>3</td>
<td>Gray HVAC Sealant</td>
<td>1st Floor Boys Bathroom</td>
</tr>
<tr>
<td>4</td>
<td>Gray HVAC Sealant</td>
<td>1st Floor Storage Room by Girls Bathroom</td>
</tr>
<tr>
<td>5</td>
<td>Red Fire Stop Caulk</td>
<td>1st Floor Boys Bathroom</td>
</tr>
<tr>
<td>6</td>
<td>Red Fire Stop Caulk</td>
<td>1st Floor Storage Room by Girls Bathroom</td>
</tr>
<tr>
<td>7</td>
<td>White with Brown Dots Linoleum Sheet Flooring with Yellow Mastic</td>
<td>1st Floor Servery</td>
</tr>
<tr>
<td>8</td>
<td>White with Brown Dots Linoleum Sheet Flooring with Yellow Mastic</td>
<td>1st Floor Servery</td>
</tr>
<tr>
<td>9</td>
<td>4&quot; Black Cove Base with Brown Mastic</td>
<td>2nd Floor Room 210</td>
</tr>
<tr>
<td>10</td>
<td>4&quot; Black Cove Base with Brown Mastic</td>
<td>2nd Floor Room 209</td>
</tr>
<tr>
<td>11</td>
<td>Mixed Floor Mastics (Yellow, Gray, and Black)</td>
<td>2nd Floor Room 222</td>
</tr>
<tr>
<td>12</td>
<td>Mixed Floor Mastics (Yellow, Gray, and Black)</td>
<td>2nd Floor Room 222F</td>
</tr>
<tr>
<td>13</td>
<td>Residual Brown Wall Mastic</td>
<td>2nd Floor Room 222C</td>
</tr>
<tr>
<td>14</td>
<td>Residual Brown Wall Mastic</td>
<td>2nd Floor Room 222</td>
</tr>
</tbody>
</table>

**Analysis:** PLM

---

**Due Date:** 07/24/2017  
(Monday) E

---

**Released By:** Michael Hamill

---

**Received By:**

---

**Signature:**

---

**Date:** 7/24/17 10:48am
Appendix IV: Certifications/ Licenses
Appendix V: Previous Report
Mr. Mark D. Waszczak  
Arlington Public Schools  
Facilities and Operations  
2770 South Taylor Street  
Arlington, Virginia 22206  

ECS Project No. 47:1346-G  

Reference: Three-Year AHERA Re-Inspection Survey, Career Center/Arlington Mill School,  
816 Walter Reed Drive, Arlington, VA  

Dear Mr. Waszczak:  

ECS Mid-Atlantic, LLC (ECS), is pleased to provide Arlington Public Schools with the results of the above referenced non-invasive Three-Year AHERA Re-Inspection Survey for the Career Center/Arlington Mill School. This work was performed in general conformance with ECS Proposal No. 47:657-EP, dated May 25, 2016 and APS Contract Number 58FY16. The following is a summary of results of the above referenced onsite work performed, in general, on July 22, August 1, and September 8, 2016.

ECS appreciates this opportunity to provide these services. If we can be of further assistance to you, please do not hesitate to contact us.

Sincerely,

ECS MID-ATLANTIC, LLC

Beverly Sedon  Diana Krass  
Sr. Environmental Project Manager  Senior Industrial Hygiene Manager

Attachments: Asbestos-Containing Materials (ACMs) Summary  
Table 1 – Bulk Sampling of Suspect ACMs  
ACM Location Drawing  
Laboratory Analytical Results and Chain of Custody

I:\_e-projects\1301-1400\1346-G APS AHERA Surveys\Career Center-Arlington Mill 816 S Walter Reed\1346 G Career Center AHERA Survey Report\1346-G Career Ctr 3-Yr Survey Report.doc
SITE DESCRIPTION

The subject property is improved with Career Center/Arlington Mill School, and is located at 816 South Walter Reed Drive in Arlington, Virginia. The building was partially occupied during our survey. Most areas and rooms were accessible to survey although, a few rooms which were occupied or locked were not accessed.

During the course of this work, onsite select repair activities were in progress in which ECS was requested to collect representative bulk samples of building materials proposed to be disturbed on separate dates. Therefore; the analysis and findings of these sampling events were included in this report. ECS was onsite to perform selective sampling on July 22, 2016, and September 8, 2016. The Three-Year AHERA Re-Inspection Survey was performed on August 1, 2016.

PURPOSE

The Asbestos Hazard Emergency Response Act (AHERA) requires public school districts to survey their schools for asbestos-containing materials (ACMs) and to take action to prevent or reduce asbestos hazards. Personnel working on asbestos activities in schools must be trained and accredited in accordance with US EPA Asbestos Model Accreditation Plan requirements. Prior to renovation and/or demolition of ACMs, facility owners must also comply with the US EPA Asbestos National Emissions Standards for Hazardous Air Pollutants (NESHAP) regulations. ECS was requested to perform a Three-Year AHERA Re-Inspection Survey for the school building to identify ACMs which may require repair, special handling, and/or removal.

PHYSICAL ASSESSMENT

ECS performed a physical assessment of the asbestos containing materials (ACMs) that have been previously reported for the school building. A copy of the ACMs identified for the subject structure is attached to this report. The physical condition of each ACM observed by ECS during our survey is referenced in the attached summary table. Observed ACMs were not noted to have been damaged during our survey. Based on our conversation with the maintenance personnel, they did not report damage or discovery of other suspect ACMs during routine repair and maintenance activities.

METHODS AND RESULTS

During our survey, bulk sample materials were collected. The asbestos survey was performed by a Commonwealth of Virginia licensed asbestos inspector (#3303004050) who has received EPA accredited training. Samples of suspect asbestos-containing materials (ACMs) were collected utilizing hand tools and placed into individual, labeled plastic bags.
Samples were collected in general accordance with EPA Standard 40 CFR 763 Subpart E, Asbestos Hazard Emergency Response Act (AHERA) and OSHA Standard 29 CFR 1926.1101 Inspection Protocol. Multiple samples of each unique material were submitted. Samples were analyzed using “Positive Stop” methodology.

Unique bulk suspect ACM samples were sent to Scientific Analytical Institute, Inc. (SAI) for analysis via Polarized Light Microscopy in accordance with current EPA-600 methodology. Materials consisting of additional layers were analyzed separately. SAI is listed as an accredited laboratory by the National Voluntary Laboratory Accreditation Plan (NVLAP) managed by the National Institute of Standards and Technology (NIST) for bulk sample analysis.

In total, nineteen (19) bulk representative samples were submitted to the laboratory of which nineteen (19) layers were analyzed. Table 1 attached to this report summarizes the collected samples and analytical results.

Based on the analytical results, the following materials were reported to contain asbestos:

- Brown HVAC duct sealant in the first and second floor mechanical rooms
- Gray HVAC dust mastic outside of Paint Booth No. 2
- Gray Mastic on conduit on top of Paint Booth No. 2

Based on our observations, a similar red duct sealant had reportedly been abated from the mechanical rooms. The materials were observed to be generally in good condition and may be located in other areas of the school building.

During the survey, ECS attempted to identify suspect ACMs in readily accessible areas. However, due to the destructive means required to identify some materials, certain areas were deemed inaccessible (i.e. behind solid walls and/or ceilings, and/or sub-grade materials) and were not surveyed for suspect ACMs. Unidentified suspect ACMs may be located in these and/or other inaccessible areas.

**FINDINGS AND RECOMMENDATIONS**

During our survey, non-friable asbestos-containing materials (ACMs) were identified. The gray and brown mastics/sealants associated with the HVAC metal ductwork in the mechanical rooms and paint booth area were reported as asbestos-containing. In addition, gray asbestos-containing mastic was observed on the conduits at the paint booth area. These materials have been included in the attached Asbestos-Containing Material Summary.

Federal and local regulations require ACMs be removed prior to disturbance by renovation and/or demolition. ECS recommends the identified ACMs reported to be present within the
school building be removed prior to construction activities and disposed of by a licensed Commonwealth of Virginia asbestos abatement contractor if the ACMs are to be impacted.

The findings of this report and ACMs identified in this survey should be implemented into the Asbestos Operations and Maintenance Plan (O&M Plan) for the school building.

Suspect ACMs not observed due to inaccessibility during the survey may be encountered during future construction activities and should be tested for asbestos content or assumed as asbestos-containing. If any portions of the school building outside of the areas surveyed for this study are to be impacted by this constriction work, it is recommended that they also be surveyed for ACMs by a licensed Commonwealth of Virginia asbestos inspector prior to disturbance.

LIMITATIONS

The conclusions and recommendations presented within this report are based upon a reasonable level of assessment within normal bounds and standards of professional practice for a site in this particular geographic setting. ECS is not responsible or liable for the discovery and elimination of hazards that may potentially cause damage, accidents, or injuries.

The observations, conclusions, and recommendations pertaining to environmental conditions at the subject site are necessarily limited to conditions observed, and/or materials reviewed at the time this study was undertaken. No warranty, expressed or implied, is made with regard to the conclusions and recommendations presented within this report. This report is provided for the exclusive use of the client. This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties without the written consent of ECS and the client.

During this study, suspect asbestos samples were submitted for analysis at an NVLAP-accredited laboratory via polarized light microscopy. As with any similar survey of this nature, actual conditions exist only at the precise locations from which suspect asbestos samples were collected. Certain inferences are based on the results of this sampling and related testing to form a professional opinion of conditions in areas beyond those from which the samples were collected. No other warranty, expressed or implied, is made.

Our recommendations are in part based on federal and local regulations and guidelines. ECS does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies any conditions at the site that may present a potential danger to public health, safety, or the environment. Under this scope of services, ECS assumes no responsibility regarding any response actions initiated as a result of these findings. General compliance with regulations and response actions are the sole responsibility of the Client and should be conducted in accordance with local, state, and/or federal requirements.
The client agrees to notify the appropriate local, state, or federal public agencies as required by law, or otherwise to disclose, in a timely manner, information that may be necessary to prevent any danger to public health, safety, or the environment.
ATTACHMENT

ASBESTOS-CONTAINING MATERIALS (ACMS) SUMMARY
## Career Center/Arlington Mill School 3-Year AHERA Re-Inspection Survey
### Asbestos-Containing Materials Summary

**Address:** 816 Walter Reed Drive, Arlington, Virginia

### Date: August 1, 2016

<table>
<thead>
<tr>
<th>Room</th>
<th>Material</th>
<th>Quantity</th>
<th>Condition</th>
<th>Abated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Throughout Building on Domestic Water Plumbing</td>
<td>White Sealant on Fiberglass Pipe Insulation</td>
<td>Not Quantified</td>
<td>Good</td>
<td>Partially *</td>
</tr>
<tr>
<td>Throughout Building</td>
<td>12” x 12” Beige with Brown Streaks Floor Tile and Associated Mastic</td>
<td>24,144 SF (1 Layer)</td>
<td>Good</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>17,034 SF (Under Carpet)</td>
<td>Good</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2,644 SF (2 Layer)</td>
<td>Good</td>
<td>No</td>
</tr>
<tr>
<td>Early Childhood Education Room (under sink)</td>
<td>12” x 12” Green Mottle Floor Tile and Associated Mastic</td>
<td>25 SF</td>
<td>Not Observed</td>
<td>No **</td>
</tr>
<tr>
<td>Kitchen Closet</td>
<td>Yellow and Beige Mosaic Pattern Sheet Flooring</td>
<td>40 SF</td>
<td>Good</td>
<td>No</td>
</tr>
<tr>
<td>Throughout Building</td>
<td>White and Beige Fiberglass Duct Insulation Seam Sealant</td>
<td>Not Quantified</td>
<td>Good</td>
<td>Partially ***</td>
</tr>
<tr>
<td>Throughout Building</td>
<td>Red Metal Duct Seam Sealant</td>
<td>Not Quantified</td>
<td>Good</td>
<td>Partially ***</td>
</tr>
<tr>
<td>1st Floor Mechanical Room</td>
<td>Beige Vibration Damper Patch Sealant</td>
<td>32 LF</td>
<td>Not Observed</td>
<td>Yes ***</td>
</tr>
<tr>
<td>Throughout Building</td>
<td>Fire Door Insulation</td>
<td>Not Quantified</td>
<td>Good</td>
<td>No</td>
</tr>
<tr>
<td>Paint Booth No. 2</td>
<td>Gray Mastic on Metal Duct</td>
<td>Not Quantified</td>
<td>Good</td>
<td>No</td>
</tr>
<tr>
<td>Paint Booth No. 2</td>
<td>Gray Mastic on Conduit</td>
<td>Not Quantified</td>
<td>Good</td>
<td>No</td>
</tr>
<tr>
<td>Room</td>
<td>Material</td>
<td>Quantity</td>
<td>Condition</td>
<td>Abated</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-----------------------------------</td>
<td>--------------</td>
<td>-----------</td>
<td>--------</td>
</tr>
<tr>
<td>1st and 2nd Floor Mechanical Rooms</td>
<td>Brown Metal Duct Sealant</td>
<td>Not Quantified</td>
<td>Good</td>
<td>No</td>
</tr>
</tbody>
</table>

**Comments**

EA = Each; LF = Linear Feet; SF = Square Feet; N/A = Not Accessible

* This material was removed only from the mechanical room; therefore, it remains present throughout the building above the drop ceilings.
** These materials were not reported to be abated during renovation work; therefore, these materials should be assumed to be present under existing flooring.
*** These materials were selectively removed from specific areas during the HVAC upgrades (ECS Projects No. 01:18009-B and 01:18009-C).

The abatement activities finished in August 2013.

**AHERA Inspector:** Matthew Dalton
**VA License No:** 3303004050

**Signature of Inspector:**
ATTACHMENT

TABLE 1
BULK SAMPLING OF SUSPECT
ACMS
<table>
<thead>
<tr>
<th>Sample #</th>
<th>Sampling Location</th>
<th>Material/Description</th>
<th>Analytical Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Office</td>
<td>Tan-Yellow Carpet Mastic</td>
<td>NAD</td>
</tr>
<tr>
<td>2</td>
<td>Early Childhood Education Office</td>
<td>Tan-Yellow Carpet Mastic</td>
<td>NAD</td>
</tr>
<tr>
<td>3</td>
<td>Main Lobby</td>
<td>Tan-Yellow Carpet Mastic</td>
<td>NAD</td>
</tr>
<tr>
<td>R-1</td>
<td>1st Floor Mechanical Room</td>
<td>Brown Metal Duct Sealant</td>
<td>Asbestos: 2% Chrysotile</td>
</tr>
<tr>
<td>R-2</td>
<td>1st Floor Mechanical Room</td>
<td>Brown Metal Duct Sealant</td>
<td>N/A</td>
</tr>
<tr>
<td>1-1</td>
<td>Paint Booth 2</td>
<td>Concrete Floor Coating</td>
<td>NAD</td>
</tr>
<tr>
<td>1-2</td>
<td>Paint Booth 2</td>
<td>Concrete Floor Coating</td>
<td>NAD</td>
</tr>
<tr>
<td>2-1</td>
<td>Paint Booth 2</td>
<td>Metal Panel Caulk</td>
<td>NAD</td>
</tr>
<tr>
<td>2-2</td>
<td>Paint Booth 2</td>
<td>Metal Panel Caulk</td>
<td>NAD</td>
</tr>
<tr>
<td>3-1</td>
<td>Paint Booth 2</td>
<td>Caulk at Entrance Door</td>
<td>NAD</td>
</tr>
<tr>
<td>3-2</td>
<td>Paint Booth 2</td>
<td>Caulk at Entrance Door</td>
<td>NAD</td>
</tr>
<tr>
<td>4-1</td>
<td>Outside Paint Booth 2</td>
<td>Gray Metal Duct Mastic</td>
<td>Asbestos: 5% Chrysotile</td>
</tr>
<tr>
<td>4-2</td>
<td>Outside Paint Booth 2</td>
<td>Gray Metal Duct Mastic</td>
<td>N/A</td>
</tr>
<tr>
<td>5-1</td>
<td>Paint Booth 1</td>
<td>White Metal Panel Caulk</td>
<td>NAD</td>
</tr>
<tr>
<td>5-2</td>
<td>Paint Booth 1</td>
<td>White Metal Panel Caulk</td>
<td>NAD</td>
</tr>
<tr>
<td>6-1</td>
<td>Roof of Paint Booth 2</td>
<td>Gray Mastic on Conduit</td>
<td>Asbestos: 5% Chrysotile</td>
</tr>
<tr>
<td>6-2</td>
<td>Roof of Paint Booth 2</td>
<td>Gray Mastic on Conduit</td>
<td>N/A</td>
</tr>
<tr>
<td>7-1</td>
<td>Outside both Paint Booth</td>
<td>Fiberglass White Mastic on Duct</td>
<td>NAD</td>
</tr>
<tr>
<td>7-2</td>
<td>Outside both Paint Booth</td>
<td>Fiberglass White Mastic on Duct</td>
<td>NAD</td>
</tr>
</tbody>
</table>

Table Notes:
NAD = No Asbestos Detected
N/A = Sample Not Analyzed; Positive Stop
Bold = Asbestos-Containing Materials
ATTACHMENT

ACM LOCATION DRAWING
12" x 12" Green Mottle Floor Tile and Associated Mastic;
Yellow and Beige Mosaic Pattern Sheet Flooring.

ACMs throughout the Building
White Sealant on Fiberglass Pipe Insulation;
12" x 12" Beige with Brown Streaks Floor Tile;
White and Beige Fiberglass Duct Insulation Seam Sealant;
Red/Brown/Gray Mastics on Metal Duct Seams;
Gray Mastic on Conduit;
Fire Door Insulation.

Library Not Included In This Assessment
ATTACHMENT

LABORATORY RESULTS AND CHAINS OF CUSTODY
# Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

## Project:
APS 3-Year AHERA/Career Center & Arlington Mill High School

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Description</th>
<th>Asbestos</th>
<th>Fibrous Components</th>
<th>Non-Fibrous Components</th>
<th>Attributes</th>
<th>Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab Sample ID</td>
<td>Lab Notes</td>
<td>%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R-1</td>
<td>Red metal duct sealant/1st floor mech room</td>
<td>2%</td>
<td>Chrysotile</td>
<td>98% Other</td>
<td>Brown Non Fibrous Homogeneous</td>
<td>Dissolved</td>
</tr>
<tr>
<td>1615064PLM_1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>R-2</td>
<td>Red metal duct sealant/1st floor mech room</td>
<td>2%</td>
<td>Chrysotile</td>
<td>98% Other</td>
<td>Brown Non Fibrous Homogeneous</td>
<td>Dissolved</td>
</tr>
<tr>
<td>1615064PLM_2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Disclaimer:** Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of “None Detected” by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bethany Nichols (2)

Analyst

Approved Signatory

Scientific Analytical Institute, Inc.  
4604 Dundas Dr. Greensboro, NC 27407  
(336) 292-3888
**Company Contact Information**

**Company:** ECS Mid-Atlantic LLC.
**Address:** 915 Maple Grove Drive
**Fredericksburg, Virginia 22407**

**Contact:** Matthew Dalton
**Phone:** (804) 386-0563
**Fax:**
**Email:** mdalton@ecslimited.com

**Billing/Invoice Information**

**Company:** Same
**Contact:**
**Address:**

**PO Number:** 47:1346-G
**Project Name/Number:** APS 3-Year AHERA/Career Center + Arlington Mill High School

**Asbestos Test Types**

<table>
<thead>
<tr>
<th>Test Type</th>
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<tr>
<td>PLM EPA 600/R-93/116 (PLM)</td>
<td>✓</td>
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<tr>
<td>Positive stop</td>
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</tr>
<tr>
<td>PLM Point Count 400 (PT4)</td>
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<tr>
<td>PLM Point Count 1000 (PTM)</td>
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<tr>
<td>PCM NIOSH 7402-A Rules (PCM)</td>
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<td>B Rules (PCB)</td>
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<tr>
<td>TWA (PTA)</td>
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<tr>
<td>TEM AHERA (AHE)</td>
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<td>TEM Level II (LII)</td>
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<td>TEM Microvac ASTM D5755-09</td>
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<td>TEM Water EPA 100.2 (TW1)</td>
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<td>Other:</td>
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</table>

**Sample ID #** | **Description/Location** | **Volume/Area** | **Comments**
---|---|---|---
R-1 | Red Metal Duct Sealant/ Mech Room  |  | |
R-2 | Red Metal Duct Sealant/ Mech Room |  | |

**Relinquished by**

<table>
<thead>
<tr>
<th>Relinquished by</th>
<th>Date/Time</th>
<th>Received by</th>
<th>Date/Time</th>
</tr>
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<tbody>
<tr>
<td>Matthew Dalton</td>
<td>8-1-16</td>
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<td></td>
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</table>

**Page of**

Accepted [✓]  Rejected [☐]
### Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

<table>
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<tr>
<th>Sample</th>
<th>Description</th>
<th>Appearance</th>
<th>Non-Fibrous</th>
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</tr>
</tbody>
</table>

---

**Analyst(s)**

William Chrobak (3)  
Joe Centifonti, Laboratory Manager  
or Other Approved Signatory

---

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%.

Samples analyzed by EMSL Analytical, Inc. Beltsville, MD NVLAP Lab Code 200293-0
# Asbestos Chain of Custody

**EMS3 Analytical, Inc.**
10768 BALTIMORE AVE,
BELTSVILLE, MD 20705
PHONE: (301) 937-5700
FAX: (301) 937-5701

---

### Order Information

**OrderID:** 191608250

- **Company:** ECS Mid-Atlantic
- **Street:** 915 Mayo Grove Drive
- **City:** Frederick
- **State/Province:** Va
- **Report To (Name):** Beverly Sodon
- **Email Address:** BSodon@eslimited.com
- **Project Name/Number:** Career Center
- **U.S. State Samples Taken:** Virginia
- **Country:**
- **Zip/Postal Code:**
- **Telephone #:** 703-471-8400
- **Fax #:**
- **Purchase Order #:**
- **CT Samples:**
- **Third Party Billing:** Requires written authorization from third party
- **Turnaround Time (TAT) Options**
  - **3 Day**
  - **6 Hour**
  - **24 Hour**
  - **48 Hour**
  - **72 Hour**
  - **96 Hour**
  - **1 Week**
  - **2 Week**

---

### Analysis Details

- **Order #:** 191608250
- **Sample Descriptions:**
  - **Sample #: 01**
    - **Sample Description:** Tan - yellow carpet mastic
  - **Sample #: 2**
    - **Sample Description:** Tan - yellow carpet mastic
  - **Sample #: 3**
    - **Sample Description:** Tan - yellow carpet mastic

---

### Client Information

- **Client Sample #:** Matthew D. Taylor
- **Client Sample #:** Matthew D. Taylor
- **Client Sample #:** Matthew D. Taylor
- **Total # of Samples:** 3

---

**Relinquished (Client):** Matthew D. Taylor  
**Date:** 7/22/16  
**Time:** 1:50 pm

**Received (Lab):**  
**Date:** 7/22/16  
**Time:** 4:50 pm

**Comments/Special Instructions:** Need results before 8:00 am Monday.
SECTION 00 4100

BID FORM

RENOVATIONS TO ARLINGTON CAREER CENTER, LOCATED AT 816 S. WALTER REED DR., ARLINGTON, VA, 22204.

ITB #: 60FY18

ITB ISSUE DATE: MARCH 23, 2017

BID CLOSING DATE/TIME: APRIL 20, 2018 AT 2:00 P.M. (Local Prevailing Time)

BID OPENING DATE/TIME: PROMPTLY FOLLOWING BID CLOSING

NAME OF BIDDER: _________________________________________________________

SUBMIT BID: BY MAIL, HAND DELIVERY OR EXPRESS CARRIER TO:

Arlington Public Schools
Education Center
Purchasing Office, 4th Floor
1426 N. Quincy Street,
Arlington, VA 22207

Gentleman:

1. The undersigned Bidder declares that it has informed itself fully of all conditions pertaining to the Work and to the location where the Work is to be performed; that it has examined the Bid Documents and Contract Documents, including the Agreement between Owner and Contractor, Conditions of the Contract (General and other conditions), Instructions to Bidders, the Drawings, the Specifications, all Addenda, and all conditions relative to the Work to be performed.

2. The Bidder proposes and agrees, if this Bid is accepted within the number of days provided for in the Instruction to Bidders, to enter into a Contract with the Owner in the form of contract specified, for the Contract Sum, and within the Contract Period indicated in the Bid Documents to furnish all necessary material, equipment, machinery, apparatus, transportation and labor as required to complete the project indicated on this Bid Form.

3. The Bidder certifies that it has not combined, conspired or agreed to intentionally rig, alter or otherwise manipulate, or to cause to be rigged, altered or otherwise manipulated this Bid for the purpose of allocating purchases or sales to or among persons, raising or otherwise fixing the prices of the goods or services, or excluding other persons from dealing with Arlington Public Schools.

4. Arlington Public Schools requires that a minimum of thirty (30) days after receipt of an approved Application for Payment (invoice) be allowed for payment.

5. The Bidder certifies that it will comply with all provisions of the Virginia Public Procurement Act and with the regulations of Arlington Public Schools.
6. By submitting a Bid, the Bidder represents that the Bidder understands the Insurance Requirements of the Contract Documents and will comply in full if awarded the contract.

7. In submitting this Bid, Bidder represents, as more fully set forth elsewhere in the Bid and Contract Documents:

a. Owner has recommended the Bidder examine the site and locality where the Work is to be, the legal requirements (federal, state, and local laws, ordinances, rules and regulations) and the conditions affecting cost, progress of performance of the Work and has made such independent investigations as Bidder deems necessary.

b. Bidder acknowledges that Owner and Owner’s Representative (Architect) do not assume responsibility for the accuracy of dimensions or completeness of information and data shown or indicated in the Bid Documents with respect to existing facilities.

c. Bidder acknowledges that it is obligated to provide to Owner written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered or in the exercise of due diligence and reasonable care as a reasonably competent contractor for the Work to which this Bid is applicable should have discovered in the Bid and Contract Documents and the written resolution thereof by the Owner is acceptable to Bidder, and the Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performing and furnishing the Work for which this Bid is submitted.

d. By bidding in response to this Invitation to Bid represents that in the preparation and submission of this Bid, said Bidder did not, either directly or indirectly, enter into any combination or arrangement with any person, firm, or corporation or enter into any agreement, participate in any, collusion, or otherwise take any action in the restraint of free, competitive bidding in violation of the Sherman Act (15 U.S.C. Section 1) or Sections 59.1-9.1 through 59.1-9.17 or Sections 59.1-68.6 through 59.1-68.8 of the Code of Virginia.

e. Bidder hereby certifies that, if awarded the Contract for construction of the Project, it will take all possible actions to minimize costs to Owner that are related to any disruptions in any part of the Work resulting from unforeseeable conditions which may be encountered and Work changes or additions which may be made.

f. Bidder understands that the award of the Contract, if any, will be made on the Total Base Bid unless specifically stated otherwise in the Instructions to Bidders or in this pre-printed Bid Form. Bidder understands that upon award of Contract, all items specified in the Bid Documents shall be furnished unless an "Or-Equal" or "Substitute Item" is accepted by Owner in accordance with Product Requirements and Substitution Procedures, respectively.

g. The Bidder agrees to bear full cost of maintaining the Work until final acceptance of the Work is approved as provided by the Contract.

h. This Bid will remain subject to acceptance for one hundred and twenty (120) days after the day of the Bid Opening.

i. Owner may cancel this Invitation to Bid, and may reject any and all Bids received.
8. Bidder agrees to the required times for Substantial Completion, Final Completion, and to resulting Liquidated Damages as follows:
   a. The Work will commence in accordance with the Contract Documents and will have Substantial Completion and Final Completion dates as provided in the Contract Documents. These completion dates are subject to adjustments of the Contract Period as provided in the Contract Documents.

9. The following documents are attached to and made part of this Bid:
   a. Required Bid Security in the form of either a certified check, cashier’s check, cash escrow or Bid Bond in the amount of five percent (5 %) of the Bid amount.
   b. List of Subcontractors for major divisions and/or features of work; see Item 16 of this Section.
   c. Completed Appendix A to Bid Form 00 4100.
   d. If the Bidder is a joint venture, a copy of the joint venture agreement.

10. By submitting this Bid, Bidder certifies that the firm submitting this Bid and registered under that name has the appropriate license and/or certification, as determined by the Commonwealth of Virginia, Department of Professional and Occupational Regulation, Virginia Board for Contractors to perform the scope of work included in this Bid. Include license number below. **Note: See Instructions to Bidders for the requirement to include the contractor’s license or certificate number, and date of expiration, on the face of the Bid envelope in addition to completing the information below.**
   a. _____ Bidder holds a Class A Virginia Contractor’s License, License Number ____________________, issued __________________ and with an expiration date of _____________________________.

Registered as a Contractor under Title 54.1, Chapter 11 of the Code of Virginia:
Licensed Class __________________ Virginia Contractor No. ____________ Valid until ________
___________________________________________________________________________ (Date).
Classifications ___________________________ ___________________________ ___________________________

11. Bidder has examined copies of all the Contract Documents and of the following Addenda, and receipt of all is hereby acknowledged:

   Addendum No. ___ Dated: _____________ Addendum No. ___ Dated: _____________
   Addendum No. ___ Dated: _____________ Addendum No. ___ Dated: _____________
   Addendum No. ___ Dated: _____________ Addendum No. ___ Dated: _____________
   Addendum No. ___ Dated: _____________ Addendum No. ___ Dated: _____________

   **ANY NOTATION ON THE EXTERIOR OF THE ENVELOPE PURPORTING TO ALTER, AMEND, MODIFY OR REVISE THE BID CONTAINED WITHIN THE ENVELOPE SHALL BE OF NO EFFECT AND SHALL BE DISREGARDED.**
13. **BID SCHEDULE**

My Bid to provide all labor, materials and equipment necessary to complete the Work described in the Invitation to Bid is provided in the Bid Schedule.

**BID ITEM 1. TOTAL BASE BID:**

__________________________ In Writing $___________ In Figures

**BID ITEM 2. PRICING BREAKDOWN FOR TOTAL BASE BID ABOVE:**

Provide Lump Sum prices per Division as listed in the Scope of Work and Bid Documents. (This information is mandatory. Provided, however, Bidder may elect not to include the information in its Bid as submitted for Bid Closing. If not included in the Bid submitted for Bid Closing, this information and this form must be received by Owner no later than 4:00 P.M. the next business day following the Bid Opening):

A. Division 1: General Conditions__________________________ Dollars ($__________)
B. Division 2: Existing Conditions__________________________ Dollars ($__________)
C. Division 3: Concrete__________________________ Dollars ($__________)
D. Division 4: Masonry__________________________ Dollars ($__________)
E. Division 5: Metals__________________________ Dollars ($__________)
F. Division 7: Thermal/Moisture__________________________ Dollars ($__________)
G. Division 8: Doors/Windows__________________________ Dollars ($__________)
H. Division 9: Finishes__________________________ Dollars ($__________)
I. Division 10 Specialties__________________________ Dollars ($__________)
J. Division 23 HVAC__________________________ Dollars ($__________)
K. Division 26 Electrical__________________________ Dollars ($__________)
L. Allowance #1 Hazardous Materials__________________________ Dollars ($ 50,000.00)
M. Allowance #2 Owner Contingency__________________________ Dollars ($ 50,000.00)

**BID ITEM 3. BID ALTERNATES:**

Submit a Bid on each of the Bid Alternates as identified in the Bid Documents and listed below. Do not enter “No Bid” for any Bid Alternate. If the Bid Alternate does not affect your Total Base Bid, enter “$0.00 (zero dollars).” FAILURE TO COMPLETE ALL BID ALTERNATES AS INSTRUCTED SHALL MAKE THE BID NONRESPONSIVE AND IT WILL NOT BE CONSIDERED FURTHER.

The Bid Alternate is listed as a potential Add to the Total Base Bid. If the lowest responsive Bid from a responsible and qualified Bidder based upon the aggregate of the Total Base Bid and all Bid Alternates as set forth in the Bid Form, is within available funds, the Contract, if awarded, will be awarded to the Apparent Low Bidder for the entirety of the Work identified in the Contract Documents for the Total Base Bid plus all Bid Alternates, subject to such Modifications which may arise subsequent to Bid Opening. If no Bid is
received in which the Total Base Bid plus all Bid Alternates is within available funds, **the first basis for award is the responsible and qualified Bidder submitting the lowest responsive Bid with the most Bid Alternate (in order of Preference Listing) which when added to the Total Base Bid, results in a total which does not exceed the funds available. The second basis for award is the responsible and qualified Bidder submitting the lowest responsive Bid in which the Total Base Bid does not exceed available funds.** The funds available for this Project will be announced immediately after Bid Closing and prior to Bid Opening.

If Arlington Public Schools is unable to achieve a Contract Sum within available funds for the Total Base Bid, Arlington Public Schools may negotiate to achieve a Contract Sum within available funds in the manner provided in the Invitation to Bid.

Refer to Section 01 23 00 for additional details and descriptions of all Bid Alternates.

**Preference Listing.**

- **Preference 1:** Lowest Aggregate Amount of the Total Base Bid plus Bid Alternate No. 1.
- **Preference 2:** Lowest Amount of the Total Base Bid.

**BID ALTERNATE NO. 1 – FITNESS ROOM ROOF TOP UNIT**

<table>
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<th>Description</th>
<th>Amount</th>
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<tbody>
<tr>
<td></td>
<td>$0.00</td>
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</tbody>
</table>

**BID ITEM 4. ALLOWANCES:**

A. Allowances have been established in lieu of additional requirements and to defer selection of actual materials and equipment to a later date when direction will be provided to Contractor.

B. See Section 01 2100 Allowances for further details. The two (2) allowances noted below shall be included in the Bidder’s Total Base Bid as noted above in Bid Item 2.

1. Allowance No. 1: Hazardous Materials Allowance: Include an allowance of one hundred thousand dollars ($50,000.00) for removal and disposal of hazardous materials.

2. Allowance No. 2: Owner Contingency Allowance: Include a contingency allowance of fifty thousand dollars ($50,000) for use at the Owner’s discretion.

14. **CONTACT FOR ADMINISTRATION:**

**NAME:**

ADDRESS: (Office) ________________________________

TELEPHONE NUMBER: (Office) ________________

FAX NUMBER: _________________________________

Bid Form 00 4100 - 5
FULL LEGAL NAME OF BIDDER

Remittance Address (If different):

ADDRESS:

PHONE: (___)_____

FAX: (___)_____

DATE:

TAX ID NUMBER (EIN/SSN):

EMAIL ADDRESS:
15. **STATE CORPORATION COMMISSION (SCC) IDENTIFICATION NUMBER:**

A Bidder is required to be authorized to transact business in the Commonwealth of Virginia as a domestic or foreign business entity if so required by Title 13.1 or Title 50 or as otherwise by law. The Bidder confirms that at the time of Bid Closing, the Bidder has met the requirements of the Virginia Public Procurement Act Section 2.2-4311.2. The Bidder shall include in its Bid the identification number issued to it by the Virginia State Corporation Commission (“SCC”). If the Bidder is a joint venture which does not have a SCC identification number, then the name of the joint venture shall be provided, all members of the joint venture shall be identified by full name, and each member of the joint venture shall provide its SCC identification number or establish its exemption from such requirement. For more information on how the SCC can expedite a request for an identification number, please contact the SCC at (www.scc.virginia.gov) or the SCC Clerk’s office at 1-804-371-9733.

Please complete the following by checking the appropriate line that applies and providing the requested information:

1. Bidder is a Virginia business entity organized and authorized to transact business in Virginia by the SCC. The Bidder’s identification number issued by the SCC is __________________________. *(The SCC number is NOT your federal tax Identification number nor your eVA registration number)*.

2. Bidder is an out-of-state (foreign) business entity that is authorized to transact business in Virginia by the SCC and such Bidder’s identification number issued to it by the SCC is __________________________.

3. ____ Bidder is a Virginia joint venture organized and authorized to transact business in Virginia by the SCC.

4. ____ Bidder is a joint venture which does not have an identification number issued to it by the SCC but each member of the joint venture is authorized to transact business in Virginia and the SCC identifications numbers issued to each member of the joint venture are: [list member name and SCC identification number for each member, or provide the asserted exemption information in subSection 5 below]

5. ____ Bidder does not have an identification issued to it by the SCC and such Bidder is not required to be authorized to transact business in Virginia by the SCC for the following reason(s):

   *If you check Option 5 above, you must attach additional sheets to explain in further detail why such Bidder is not required to be authorized to transact business in Virginia. Bids that fail to submit supporting details regarding option 3 above may be considered non-responsive by APS.*

   **NOTE:** IF BIDDER IS REQUIRED TO HAVE AN SCC#, THE SCC# SHALL BE ACTIVE AT THE DATE/TIME THAT THE BID IS OPENED. FAILURE OF BIDDER TO HAVE AN ACTIVE SCC# AT THE DATE/TIME THE BID IS OPENED WILL RESULT IN A DETERMINATION THAT BIDDER IS NON-RESPONSIVE; AND THE BID SHALL BE REJECTED AND WILL NOT BE CONSIDERED FOR CONTRACT AWARD.

16. **LIST OF SUBCONTRACTORS:**

The Bidder shall submit the names of Subcontractors to be used in performing the below described divisions and/or features of Work contained in the Contract Documents. The successful Bidder shall have a maximum of fourteen (14) days after Notice To Proceed to submit the final list of Subcontractors to APS for vetting and approval.

The Bidder certifies that all Subcontractors listed are eligible to perform the Work. Bidder’s failure to submit the List of Subcontractors as directed herein shall result in Bidder’s Bid being deemed as non-responsive.
Subcontractor’s Work  Subcontractor’s Name

Drywall

Unit Masonry:

Structural Steel:

Electrical:

Mechanical:

Controls:

17. **DEBARMENT STATUS:**

If you answer yes to any of the following, on a separate attachment, state the person or entity against whom the debarment was entered, give the location and date of the debarment, describe the project involved, and explain the circumstances relating to the debarment, including the names, addresses and phone numbers of persons who might be contacted for additional information.

1. **Is your organization or any officer, director, project manager, procurement manager, chief financial officer, partner or owner currently debarred from doing federal, state or local government work for any reason?**
   - Yes ___  No ___

2. **Has your organization or any current officer, director, project manager, procurement manager, chief financial officer, partner or owner ever been debarred from doing federal, state or local government work for any reason?**
   - Yes ___  No ___

My signature certifies that the Bidder has no business or personal relationships with any other companies or persons that could be considered as a conflict of interest or potential conflict of interest to Arlington Public Schools, and that there are no principals, officers, agents, employees, or representatives of Bidder that have any business or personal relationships with any other companies or person that could be considered as a conflict of interest or a potential conflict of interest to Arlington Public Schools, pertaining to any and all work or services to be performed as a result of this Bid and any resulting Contract with Arlington Public Schools.

Person signing must be authorized to bind the Bidder in contractual matters. If the Bidder is a joint venture the Bid must be signed by an authorized representative of each member of the joint venture. Add additional copies of this signature page if necessary.

By: ________________________________

Name: ______________________________

Title: ______________________________

Date: ______________________________

END OF SECTION 00 4100
SECTION 01 21 00 – ALLOWANCES – ADDENDUM 2

PART 1 - GENERAL

1.1 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY
A. This Section includes administrative and procedural requirements governing Allowances.

1. Certain items are specified in the Contract Documents by Allowances. Allowances have been established in lieu of additional requirements and to defer selection of actual materials and equipment to a later date when direction will be provided to the Contractor.

2. The Owner reserves the right to have the Architect direct the Contractor to solicit sub-bid proposals for items covered by Allowances, or to direct the Architect to solicit sub-bid proposals for Allowance items.

3. Under either method above, the Architect and the Owner are to be the sole judges as to which sub-bid proposal best serves the Owner's needs.

4. Only reputable firms will be invited to submit proposals. The Contractor is not required to employ for any such work any persons against whom he has a reasonable objection, as mutually agreed upon by the Owner and General Contractor.

5. Furnish or replace any shortages or incorrect quantities of materials, based on the drawings in effect at the time of bidding, with additional materials at no additional cost to the Owner.

6. The Contractor is to have overall responsibility for the work provided by Allowances, and to be responsible for all materials delivered to the job.

7. Each Subcontractor providing an item or service covered by an Allowance item shall adhere to the General Contractor's approved construction schedule.

1.3 SUBMITTALS
A. Submit proposals for purchase of products or systems included in Allowances, in the form specified for Change Orders.

B. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each Allowance.

C. Submit time sheets and other documentation to show labor time and cost for installation of Allowance items that include installation as part of the Allowance.

D. Coordinate and process submittals for Allowance items in same manner as for other portions of the work.

1.4 COORDINATION
A. Coordinate Allowance items with other portions of the Work.

1.5 ALLOWANCES
A. Allowances shall be included in the Total Bid Amount and shall include cost to Contractor of specific products and materials ordered by Owner or selected by Architect under Allowance and shall include taxes, freight, and delivery to Project site.

B. The Contractor declares that the Total Bid Amount sum includes all expenses and profits on account of Allowances as he deems necessary. The Contractor's Overhead and Profit is assumed to be included in
the bid. No additional requests for expenses, profit and taxes, other than those included in the Contract sum, shall be allowed.

1.6 ADJUSTMENT OF ALLOWANCES

A. Should the actual cost of each selected proposal be less than the Allowance sum stated, the contract sum will be adjusted by appropriate credit.

B. Should the actual cost of each selected proposal be more than the Allowance sum stated, the contract sum will be adjusted by an appropriate extra.

C. After installation of each material covered by Allowance, any portion of the Allowance not used shall be credited back to the Owner.

D. Use the contingency allowance only as directed by the Owner or Owner's Representative for the Owner's purposes.

E. All adjustments shall be submitted per Specification Section 01 2600 Contract Modification Procedures.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine products covered by an Allowance promptly on delivery for damage or defects. Return damaged or defective products to manufacturer for replacement.

3.2 PREPARATION

A. Coordinate materials and their installation for each Allowance with related materials and installations to ensure that each Allowance item is completely integrated and interfaced with related work.

3.3 SCHEDULE OF ALLOWANCES

A. **Allowance No. 1: Hazardous Materials Abatement:**

   1. Include an Allowance sum of $50,000 to provide.

B. **Allowance No. 2: Owner Contingency:**

   1. Include an Allowance sum of $50,000 to provide.

END OF SECTION 01 21 00
SECTION 02 82 00 – HAZARDOUS MATERIAL REMEDIATION – GENERAL -ADDENDUM 2

PART 1 - GENERAL

1.1 WORK INCLUDED

A. The scope of work included in these documents requires the Contractor to provide all labor, equipment, materials, and transportation necessary to complete the environmental abatement, remediation, and testing as specified herein.

B. The materials identified in the Limited Asbestos-Containing Materials Survey, therefore by regulation, and this Specification, require special handling and care. The purpose of this Section and Section 3 is to outline the procedures to be followed during the removal of these materials.

C. The Contractor shall remove and properly of asbestos containing materials in accordance with this Specification. The quantities listed represents estimates only and are not guaranteed.

D. Waterproofing and associated mastics as well as vapor barriers and associated mastics assumed to contain asbestos. Contractor is to verify during remediation.

E. Contractor responsible for verify all quantities with Owner’s third party testing agency. Quantities not verified by the Owner’s 3rd Party Testing agency/Owner’s Representative will not be considered valid or billable.

F. The Contractor will be responsible for cleaning all pre-existing contamination associated with the identified asbestos containing materials.

1.2 RELATED WORK

A. Section 00 31 26 - EXISTING HAZARDOUS MATERIAL INFORMATION

B. 

1.3 SUB-CONTRACTING REQUIREMENTS

A. In the event that the Contractor sub-contracts a portion of the work, the sub-contractor to the Contractor must meet all requirements of the Contractor specified herein and within related contract documents. All sub-contractors must be approved, in writing, by the Owner and Owner’s Representative prior to the Contractor and sub-contractor entering into an agreement to perform work on-site.

1.4 NOTIFICATION TO CONTRACTOR

A. Asbestos-Containing Materials

1. The Work included within this contract involves the disturbance of asbestos- containing materials (ACM). All ACM known to be present at the work-site is presented in the Limited Asbestos-Containing Materials Survey. The discovery of additional ACMs by the Contractor shall require immediate notification to the Owner’s Representative, the employees of all other trades present on-site, and superintendent or foreman assigned to the project. All newly discovered ACMs will be bulk sampled by the Owner’s Representative. No newly discovered ACMs are to be disturbed until instructed as such by the Owner's Representative.

2. Removing or otherwise disturbing ACM may release asbestos fibers into building’s atmosphere creating a health risk to all building occupants. The Contractor shall inform all laborers, supervisors,
foreman, superintendents, and other employees of the location of ACMs within the building and ensure care is taken while working around the ACMs to ensure the materials are not disturbed and be certain all employees on-site are informed of proper work procedures following an unplanned disturbance.

3. The Contractor shall ensure that during his work any encounter or disturbance to ACMs will be performed in accordance with all applicable regulations and requirements set forth herein.

1.5 COORDINATION

A. Coordinate the abatement/remediation of the materials listed within this Specification with other subcontractors on-site in order to maintain efficient and orderly completion of the Work.

1. Scheduling of operations shall be in a manner required to achieve the most satisfactory results where the completion of one aspect of the Work is essential to the commencement of work involving other components.

B. Notifications

1. It is the Work of the Contractor to inform all employees and contractors on-site the nature of the asbestos work, location of ACMs, applicable regulations, and any relevant requirements listed in this Specification. Notification prior to the start of work must be made to:

   a. Employees performing environmental remediation/abatement,
   b. Employees who will be in the work area during the performance of environmental remediation/abatement, and;
   c. Employers of employees who work and/or will be working in areas adjacent to the environmental remediation/abatement while the work is in progress.

2. Contractor is responsible for submitting notification of emergency service agencies including fire, ambulance, police or other agency that may service the work site in case of an emergency. Methods of entering work area and emergency entry and exit locations must be made available to all emergency service agencies.

3. Notifications of Emergency: Any employee or visitor to the job site may notify emergency service agencies at any time without change to the Contract and/or Contract Sum.

4. Notify Federal and State Agencies: The Contractor shall notify the EPA Region III and the Commonwealth of Virginia of the pending Asbestos Abatement Work and is responsible for all permits and fees associated with the project notification.

C. Emergency Directory

1. Develop a directory of all emergency contacts involved in the project. Include the Contractor's principal staff assignments, including the Superintendent and other personnel in attendance at the site. List business name, contact person, normal business and emergency telephone, mobile phone and fax numbers and addresses of:

   a. Owner, and Owner's Representative.
   b. Contractor's Superintendent, supervisory personnel and Contractor's home office.
   c. Environmental Remediation Sub-Contractor's Superintendent, supervisory personnel and Contractor's home office.
   d. Emergency services including but not limited to fire, ambulance, doctor, hospital, police, power and gas companies, telephone company.
   e. Local, state, and federal agencies with jurisdiction over the project.

2. Post copies of the Emergency Directory adjacent to the entrance to clean room of Decontamination Unit.

D. Alternate Procedures: Contractor shall comply with procedures specified in all applicable regulations and this Specification. Worker protective measures, engineering controls, and work practices all must be in compliance with this Specification and applicable regulations.

1. Variance: If procedures within this Specification cannot be implemented due to site-specific conditions or if the Contractor is aware of a more efficient approach, the Contractor may complete and submit a Request for Variance to the Project A/E, either prior to bidding or during the course of
the project. The Request for Variance must include:
   a. Details of the problem(s) encountered – or potential time/cost savings – and recommended
      alternatives.
   b. The Owner will review such variance submittal(s) for compliance with Federal, State, and
      Local/Municipal regulations and submit recommendations for acceptance or rejection of the
      request for variance.
   c. Alternative methods described in all Request for Variance proposals must, at a minimum,
      comply with:
      i. Those recommended by manufacturer of approved materials.
      ii. Those required by pertinent regulations of authority-having-jurisdiction.

2. Methods described in the Contractor’s Request for Variance may not be implemented without
   written approval by the Owner and/or the Owner's Representative

1.6 ENVIRONMENTAL ABATEMENT CONTRACTOR QUALIFICATIONS

A. Project Supervisor: The Contractor shall employee a Project Supervisor who has experience in
   managing asbestos abatement projects and implementing engineering controls as well as being familiar
   with allowable work practices, personal and atmospheric protective measures, disposal of asbestos
   procedures, etc. The Contractor’s Project Supervisor will serve as the Competent Person as required by
   federal and the Commonwealth of Virginia regulations. The Project Supervisor will be responsible for
   performing the Work described herein in accordance with all applicable federal and Commonwealth of
   Virginia regulations as well as this Specification. Additionally, the Project Supervisor shall meet the
   following minimum criteria:

   1. Training: The Project Supervisor must have a valid, non-expired training certification from a
      Commonwealth of Virginia approved trainer for a course that meets the requirements of the EPA
      Model Accreditation Plan for asbestos abatement contractor/supervisor and licensed by the
      Commonwealth of Virginia as a Worker Supervisor.

   2. Experience: The Supervisor must:
      a. Have a minimum of five (5) years experience in the on-site management of asbestos
         abatement projects, and
      b. Have served as Project Supervisor on a minimum of five (5) asbestos abatement projects of
         similar size and scope of work.

   3. Responsibilities
      a. Inspect asbestos removal work for conformance with all applicable regulations and current
         industry standards.
      b. Perform or oversee OSHA monitoring and ensure proper personal protective equipment (PPE)
         is being utilized by all abatement personnel.
      c. Ensure work is performed as described within this Specification at all times.
      d. Continuously evaluate engineering controls established to prevent hazardous exposure to
         personnel and to the environment at all times.

   4. The Supervisor must meet all the requirements as a Competent Person as required by OSHA 29
      CFR 1926.

   5. The Supervisor must be an employee of the Contractor

B. Foreman: If the Contractor will staff more than 10 asbestos abatement workers, the Contractor shall
   provide a Foreman to directly supervise and manage no more than 10 environmental remediation
   workers at any time. Each Foreman will act as the Competent Person as required by OSHA 29 CFR
   1926 for the workers the Foreman is responsible for. The Foreman shall be responsible for oversight of
   the workers and report directly to the Project Supervisor. If there are 10 or fewer workers on the
environmental remediation project the Supervisor may fill the Foreman's position. The Foreman must meet all the requirements as a Competent Person as required by OSHA 29 CFR 1926. The Foreman must be an employee of the Contractor.

1.7 RECORD KEEPING

A. Daily Log: The Contractor shall maintain a Daily Log posted in an area accessible to the Owner and the Owner’s Representative. The Daily Log must consist of the following items:

1. Meetings: reason, attendants, summary of discussion;
2. Special or unusual events, i.e. barrier breeching, equipment failures, loss of electrical power;
3. Accidents: injured individual, nature of injury, treatment, etc.;
4. Documentation of Contractor’s completion of the following:
   a. Inspection of work area preparation prior to start of removal and daily thereafter;
   b. Removal of any sheet plastic barriers;
   c. Removal of waste materials from work area;
   d. Decontamination of equipment (list items);
   e. Final inspection/final air test analysis;
   f. List of subcontractors at the site;
   g. Count of personnel at the site;
   h. High and low temperatures, general weather for outdoorwork;
   i. Stoppages, delays, shortages, losses;
   j. Emergency procedures;
   k. Orders and requests of governing authorities;

B. Entry/Exit Log: The Contractor shall maintain a daily log, placed adjacent to the entrance to each work area, documenting the dates and time of, but not limited to, the following items:

1. Visitors, permitted and unauthorized, with the following information:
   a. Name
   b. Organization
   c. Entry time
   d. Exit Time
   e. Respiratory protection

2. Personnel, by name, entering and leaving the work area with the following information:
   a. Printed Name
   b. Identification Number
   c. Entry Time
   d. Exit Time
   e. Respiratory Protection

C. The following information shall be posted on-site in a location accessible to workers, Owner, Owner’s Representative, and Project Administrator:

1. Air Monitoring Results: Finals will be transmitted via email by the Owner/Owner’s Representative typically within 24 hours of sample analysis or upon receipt.
2. Post the respiratory protection requirements for the work in progress.
3. Documentation of inspections by OSHA, EPA or local authority.
4. Respiratory Protection Program.
5. Telephone numbers and locations of emergency services including, but not limited to, fire, ambulance, doctor, hospital, police, power and gas companies, telephone company.
6. Other records:
   a. Waste Manifests and shipping records
   b. Landfill receipts.
c. Accident reports.

D. Special Reports:
   1. General: All special reports are to be submitted directly to the Owner’s Representative unless otherwise instructed by the Owner. Special reports shall be submitted within 24 hours of events requiring a special report. The Owner and any other parties involved or affected by the occurrence shall receive copies of each special report.
   2. Reporting Unusual Events: If an unplanned event of significant nature occurs during the project (examples: failure of pressure differential system, rupture of temporary enclosures, injury to personnel, etc), prepare and submit report. List chain of events, persons participating, response by Contractor's personnel, evaluation of results or effects, and similar pertinent information.

1.8 PROJECT MONITOR

A. The Owner shall contract an Industrial Hygiene Consultant (IHC) to provide on-site project monitoring. The IHC shall not have any direct or indirect association with the Contractor. The IHC shall employ and provide the services of an on-site Project Monitor (PM).

B. Project Monitor Qualifications
   1. The PM shall hold a current EPA AHERA Supervisor or Project Designer training accreditation, hold Commonwealth of Virginia Supervisor or Project Designer license and be trained through the National Institute of Occupational Safety and Health (NIOSH) 582 (or equivalency) course.
   2. The IHC shall maintain a laboratory deemed proficient through the NIOSH Proficiency Testing Program (PAT) for Phase Contrast Microscopy (PCM) for analysis of asbestos air samples.

C. Project Monitor Responsibilities
   1. The PM shall be responsible for daily air monitoring, to evaluate if the building’s atmosphere outside the work area is contaminated with airborne particulates.
   2. The PM shall be responsible for monitoring the Contractor’s work practices while observing contractor general compliance with the Project Specifications and all applicable federal and Commonwealth of Virginia regulations.
   3. The PM shall perform visual inspections of the work area(s) throughout each shift, including prior to the start of work, to evaluate if containment barriers are sealed, negative pressure is adequate, and proper engineering controls are in place.
   4. It is the work of the PM to perform final clearance visual inspections to ascertain that visible asbestos has been removed and that no visible dust and/or debris remain in the work areas.

1.9 SAMPLING

A. Baselines
   1. Air Samples: Prior to the initiation of asbestos abatement work, the PM shall collect Phase Contrast Microscopy (PCM) air samples inside of the work area to determine existing conditions and establish baseline levels of fiber concentrations.

B. Sampling During Work
   1. Air Sampling Outside Work Area: The PM shall collect Phase Contrast Microscopy (PCM) air samples from outside the work area during each shift. A minimum of two (2) air samples from outside the work area shall be collected during each shift.
      a. Asbestos: Maintain fiber concentrations at lowest possible levels, not to exceed 0.010 fibers/cubic centimeter (f/cc). If concentrations rise above or equal to 0.010 f/cc, stop abatement work and re-evaluate engineering controls. The PM shall determine source of the high reading and suggest appropriate measures to reduce airborne fiber concentrations.
      2. Air Sampling Inside Work Area: The PM shall monitor airborne fiber concentrations within the work area. The purpose of this sampling is to continuously evaluate engineering controls established within the work area. A minimum of one (1) Phase Contrast Microscopy (PCM) air sample inside
work area must be collected every four (4) hours of each shift while the removal of asbestos is in progress.

a. Asbestos: Maintain fiber concentrations at lowest possible levels, not to exceed 0.100 f/cc. If concentrations rise above this figure revise work procedures to lower fiber levels.

C. Final Clearance
1. The PM will visually clear areas where abatement has occurred following the completion of all work.
   a. The Contractor shall be responsible for re-cleaning of the work area if during this inspection areas are observed to still be contaminated at no additional cost to the Owner.

3. The Contractor shall be responsible for any additional cost due to the Owner for the re-collection of final clearance air samples due to unacceptable initial results.

D. OSHA Monitoring: OSHA Monitoring is the Work of the Contractor and is not covered in this section. However, it must be conducted daily as required and in accordance with 29 CFR 1926.1101.

E. Stop Work: The PM may issue a stop work order only when the integrity of the enclosure is breached, results of sampling performed outside of the work area exceed baseline levels (or >0.010 f/cc), or results of inside work area sampling reveals inadequate respiratory protection and/or engineering controls. The Contractor shall correct the fault in work area enclosure and/or work procedures at no cost to the Owner.

1.10 SUBMITTALS

Five (5) days prior to the start of work, submit 2 copies of the following to the Owner’s Representative for review. Do not start work until these submittals are approved by the Owner’s Representative indicating that the submittal is returned for unrestricted use.

A. Environmental Abatement Contractor - General
1. Contingency Plans;
2. Emergency Directory;
3. Notifications: Copy of notification sent to EPA Region III and the Commonwealth of Virginia;
4. Resumes for Supervisor and Foremen;
5. Accreditation: Submit evidence in the form of training course certificate and the Commonwealth of Virginia Worker or Worker Supervisor license for the Supervisor, Foreman and workers as being trained in asbestos health and safety in accordance with the Commonwealth of Virginia regulations and EPA AHERA protocols;
6. Medical surveillance for Supervisor, Foreman, and workers;
7. Signed Worker’s Certificate of Acknowledgement (found at the end of this Section) for asbestos for each worker;
8. Testing Laboratory information for laboratory performing OSHA monitoring and/or sample analysis.
10. Chemical Information List.

a. Submit written chemical information list for hazardous materials that are intended to be used at the Site.
b. Prepare chemical information list using an inventory of hazardous materials and their respective material safety data sheets. Arrange list in alphabetical order according to common name. Include chemical name, and identify locations where the hazardous materials are intended to be used.
c. Submit complete chemical information list of hazardous materials and associated material safety data sheets at least two weeks prior to commencement of Project (not just before a specific activity using hazardous materials commences). This information is required in advance for adequate planning purposes.
11. Material Safety Data Sheets:
   
   a. Submit Material Safety Data Sheets (MSDS) for all products that contain hazardous constituents and are intended to be used in the Work or stored on site.
      
      i. The Contractor must comply with manufacturer’s recommendations for handling, storage, use, and disposal of all materials including hazardous constituents.
   
   b. Submit material safety data sheets 5 days prior to the Pre-Construction meeting as specified above. No product shall be used for which a MSDS has not been previously submitted.
   
   c. If a change in material(s) used is required during the Work, submit appropriate MSDS for the new materials and amend all applicable documentation (hazard communication program, respiratory protection program, etc) as required. Submission of MSDS and amended documents must be completed 10 days prior to the delivery of the new material(s) to the site.

B. Environmental Abatement Contractor - Licenses and Qualifications: The Owner shall make the final determination regarding the approval of the Contractor’s qualifications in reference to this Work. The Owner shall require at a minimum the following qualifications to be met in order to remove ACMs from the facility:

   1. Contractor shall submit all training accreditations and Commonwealth of Virginia licenses for employees who will be used to perform the specified work.
      
   2. Contractor shall submit a statement, notarized and signed (by an Owner, Partner, Officer, or Principle of the company), which verifies the accuracy of the following information which shall be submitted to the Owner:
      
      a. Documentation of successful completion of at least three (3) abatement projects of similar size, scope, and dollar value.
         
         i. Reference names, telephone numbers, and addresses of Owner representatives for the above referenced three (3) abatement projects.
         
         ii. Include air monitoring data from an independent monitoring firm demonstrating compliance with OSHA airborne hazardous particulate concentrations during the work.
      
      b. Names of Contractor representatives who shall have complete authority to speak for and make commitments for the Contractor (including size and dollar value) of individual projects previously supervised.
      
   3. OSHA Compliance: Submit evidence of full compliance with medical surveillance and respiratory protection provisions of existing regulations. Include at a minimum:
      
      a. Written respiratory protection,
      
      b. Medical surveillance programs, and
      
      c. Proof of respirator fit testing
      
   4. Disclosure Statement: Contractor shall submit the following statement notarized and signed (by a principle of the company) verifying accuracy and truth of the following information:
      
      a. Description of any asbestos abatement or other environmental remediation projects which have been prematurely terminated, including the circumstances surrounding such termination.
      
      b. List of any contractual penalties which the Contractor has incurred for breach or non-compliance with Contract Specifications on previous projects, such as overruns of completion time leading to liquidated damages.
      
      c. List of any citations levied against the Contractor by any governmental entity for violations related to asbestos abatement, or other environmental remediation work including the name and location of the project, date(s) of violation(s), and allegation resolution.
      
      d. Description of all legal proceeding, lawsuits or claims which have been filed or levied against the Contractor or any of his past or present employees for asbestos abatement, or other environmental remediation related activities.
      
      e. Acknowledgement of any of the above circumstances will not necessarily result in automatic disqualification.
i. Failure to disclose any of this information shall be cause for automatic disqualification.
ii. The Owner shall be the sole determinant of the Contractor's ability to remove hazardous materials competently and correctly.
f. Affirmation that the no principle(s) has/have been suspended, debarred or otherwise restricted by any Department or Agency of the Federal Government or of a State Government from doing business with such Department or Agency.

PART 2 PRODUCTS

2.1 HAZARDOUS MATERIALS

The contractor is required to have onsite MSDS for any products being utilized during the execution of work must also be on site. The Owner may, at his discretion, refuse to allow any products which he feels may for any reason jeopardize the safety of building occupants and/or workers within the building. In this event, the Contractor must submit a substitute product that is less hazardous. If an appropriate substitute product is not available, the Contractor may submit an alternative plan for protecting the building occupants/workers from exposure to the hazardous material. The Owner has the final authorization for all products being used by the Contractor.

2.2 MATERIALS AND EQUIPMENT

The Contractor’s use of equipment, protective clothing, special facilities and/or devices shall be in accordance with applicable regulations and manufacturer’s instructions.

PART 3 EXECUTION

3.1 VENTILATION

A. Provide adequate ventilation of the Work as required to ensure that Owner, workers and visitors are not potentially exposed to asbestos containing materials.

B. Provide and maintain ventilation in functional, efficient working order for the duration of the Project.

C. Prevent fumes, vapors, and dust related to the Work from infiltrating other parts of the building or adjacent buildings which may be occupied.

D. Upon completion of work with wet pollutant emitters (e.g., paints, mastic, glues, and/or mastic/glue removers) purge all work areas of airborne contaminants by supplying adequate outside air and exhausting contaminants to the building exterior.

3.2 PROTECTION

A. Where feasible, work areas shall be fenced, barricaded or otherwise blocked off to prevent unauthorized entry by the public.

B. Comply with applicable federal and state regulations related to hearing conservation programs.
ASBESTOS-CONTAINING MATERIALS CERTIFICATION
OF WORKER’S ACKNOWLEDGEMENT

PROJECT NAME ________________________________________________________________

DATE ________________________________________________________

PROJECT ADDRESS __________________________________________________________

CONTRACTOR’S NAME _______________________________________________________

WORKING WITH ASBESTOS CAN BE DANGEROUS. INHALING ASBESTOS FIBERS HAS BEEN LINKED WITH VARIOUS TYPES OF CANCER. IF YOU SMOKE AND INHALE ASBESTOS FIBERS THE CHANCE THAT YOU WILL DEVELOP LUNG CANCER IS GREATER THAN THAT OF THE NON-SMOKING PUBLIC.

Your employer’s contract with the Owner for the above project requires that: You be supplied with the proper respirator and be trained in its use. You be trained in safe work practices and in the use of the equipment found on the job. You receive a medical examination. These things are to have been done at no cost to you. By signing this certification, you are assuring the Owner that your employer has met these obligations to you.

RESPIRATORY PROTECTION: I have been trained in the proper use of respirators, and informed of the type of respirator to be used on the above referred project. I have a copy of the written respiratory protection manual issued by the employer. I have been equipped at no cost with the respirator to be used on the above project.

TRAINING COURSE: I have been trained in the dangers inherent in handling asbestos and breathing asbestos dust and in proper work procedures and personal and area protective measures. This training must have been the equivalent in curriculum, training method and length to the EPA Model Accreditation Plan (MAP) asbestos abatement worker training (40 CFR Part 763, Subpart E, Appendix C).

MEDICAL EXAMINATION: I have had a medical examination within the past 12 months which was paid for by my employer. This examination included health history, pulmonary function tests, and may have included an evaluation of a chest X-ray.

By signing this document, I acknowledge only that the Owner of the building I am about to work in has advised me of my rights to training and protection relative to my employer.

Signature ______________________________________________________________

Employee ID No _________________________________________________________

Printed Name ____________________________________________________________ Witness ________________________________________________________________
Renovations to Arlington Career Center
Arlington Public Schools
Issued For: 100% CD

Issued For: 100% CD

Addendum 2

Hardware Group No. 06

DOORS:

C1-37A

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DOOR NORMALLY CLOSED AND SECURE
FREE EGRESS AT ALL TIMES
ENTRY BY VALID CREDENTIAL OR ACCESS CONTROL TIME ZONE OR KEY OVERRIDE OR REMOTE RELEASE
UPON LOSS OF POWER DOORS REMAIN LOCKED
EXTERIOR ACTUATOR INACTIVE UNLESS AUTHORIZED BY VALID CREDENTIAL OR ACCESS CONTROL TIME ZONE OR REMOTE RELEASE
INSIDE ACTUATOR ALWAYS ACTIVE
KEY SWITCH ELECTRICALLY DOGS DOWN DOORS C1-37A & C1-37B AT USER CHOSEN TIMES FOR PUSH/PULL OPERATION
DOOR POSITION MONITORED
Hardware Group No. 07

DOORS:

C1-37B

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<td>MISC HW SET</td>
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DOORS NORMALLY CLOSED AND SECURE
ENTRY BY ACCESS CONTROL TIME ZONE OR MECHANICAL KEY OVERRIDE
FREE EGRESS AT ALL TIMES
KEY SWITCH ELECTRICALLY DOGS DOWN DOORS C1-37A & C1-37B AT USER CHOSEN TIMES FOR PUSH/PULL
OPERATION
DOOR POSITION MONITORED
Hardware Group No. 08

**DOORS:**

100L

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**MISC POWER SUPPLY SET**

**DOOR MAY BE LOCKED/UNLOCKED BY KEY IN LOCKSET**

**FREE EGRESS AT ALL TIMES, BY OPERATOR WHEN SWITCHED ON**

**WHEN UNLOCKED AND OPERATOR SWITCHED ON - ENTRY BY LEVER OR ADA OPERATOR – ENTRY BY KEY OVERRIDE WHEN LOCKED**

**KEY SWITCH CONTROLS POWER TO AUTO OPERATOR - ELECTRIC STRIKE ENABLED BY ADA ACTUATOR EITHER SIDE (KEYSWITCH TURNS OPERATOR AND ACTUATORS ON/OFF)**

Hardware Group No. POWER SUPPLIES

**DOORS:**

Each To Have:

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<td>INTERCOM MASTER</td>
<td>BY INTEGRATOR (MAIN OFFICE – LOCATE AS DIRECTED BY ARCHITECT)</td>
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End of Section
1. EXISTING LIGHTING FIXTURES TO BE DEMOLISHED. ELEC CIRCUITRY TO BE PULLED BACK TO NEAREST J BOX FOR CONNECTION TO NEW LIGHT FIXTURES.

2. COPIER RECEPTACLE AND DATA PORTS TO BE REMOVED AND RELOCATED TO WORKROOM.

3. RECEPTACLES TO BE DEMOLISHED. ELECTRICAL CIRCUITS AND WIRING TO BE DISCONNECTED BACK TO NEAREST J BOX IN CEILING FOR FUTURE CONNECTION TO NEW RECEPTACLES.

4. EXISTING SPEAKER TO BE REMOVED. REINSTALL WHERE INDICATED ON NEW WORK PLAN. MAINTAIN EXISTING CIRCUITRY FOR RE-USE.

5. EXISTING FADE DEVICES TO BE REMOVED. REINSTALL WHERE INDICATED ON NEW WORK PLAN. MAINTAIN EXISTING CIRCUITRY FOR RE-USE.

6. CARD READER TO BE REMOVED AND RELOCATED ON OPPOSITE WALL TO CONTROL NEW DOOR.

7. VOLUME CONTROLLER AND SECURITY PANEL TO BE REMOVED AND RELOCATED ON NEW ADJACENT WALL.

8. EXISTING DATA OUTLET TO BE REMOVED. COORDINATE REMOVAL OF DATA CABLING WITH IT PERSONNEL.

9. EXISTING INTERCOM TO BE REMOVED. REINSTALL WHERE INDICATED ON NEW WORK PLAN. MAINTAIN EXISTING CIRCUITRY FOR RE-USE.

10. EXISTING SURFACE MOUNTED RECEPTACLE SERVING FISH TANK TO BE REMOVED. REMOVE CONDUIT BACK TO BELOW GRADE FOR EXTENSION TO NEW LOCATION. SEE SHEET E302.
1. PROVIDE NEW RECEPTACLE FOR COPIER IN LOCATION SHOWN.

2. CONTRACTOR TO FIELD VERIFY EXISTING BLOCK PANEL LOCATION AND PROVIDE WITH AVAILABLE SPACE TO POWER DOOR OPENER OR CONNECT CIRCUIT SHOWN. COORDINATE WITH VENDOR FOR POWER REQUIREMENT AND PROVIDE NEW BREAKER TO PANEL IF REQUIRED.

3. NEW CIRCUIT STAY AMENDED TO EXISTING LOW VOLTAGE WITH AVAILABLE SPACE TO POWER RECEPTACLE OR CONNECT TO CIRCUIT SHOWN. PROVIDE 20A/120V BREAKER AS REQUIRED.

4. ROUTE CONDUIT DOWN UNDER STAIR TO EXISTING PLANTER AND UNDER NEW SLAB (CURRENTLY NO SLAB UNDER EXISTING PLANTERS) AND UP INTO BAR CASEWORK. COORDINATE MOUNTING AND LOCATION IN BAR CASEWORK WITH ARCHITECT AND CASEWORK PROVIDED.

5. ROUTE CONDUIT DOWN UNDER STAIR TO EXISTING PLANTER AND UNDER NEW SLAB (CURRENTLY NO SLAB UNDER EXISTING PLANTERS) AND UP INTO BLEACHER SEATING. COORDINATE MOUNTING AND LOCATION IN BLEACHERS WITH ARCHITECT AND CASEWORK PROVIDED.

6. PROVIDE IN-GRADE PULL BOX WITH COVER FLUSH MTD IN NEW CONCRETE SLAB. EXTEND EXISTING CIRCUIT CONDUCTORS TO NEW RECEPTACLE LOCATION. COORD EXCAVATION REQUIRED WITH GC. BOX TO BE 8X8 SQUARE OR 6" ROUND WITH COVER. COORD LOCATION WITH ARCHITECT SO AS TO BE WITHIN NEW FISH TANK SURROUND.

7. PROVIDE NEW DUPLEX RECEPTACLE LOCATION. MOUNT TO PIER, LOCATE IN NEW VENTED MILL WORK. COORDINATE LOCATION AND MOUNTING HEIGHT WITH ARCHITECT.

2' 4' 16' 8' 0

1/8" = 1'-0"