

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. Contract Number		Page of Pages	
				DCAM-2011-B-0193		1 1	
2. Amendment/Modification Number		3. Effective Date		4. Requisition/Purchase Request No.		5. Solicitation Caption	
DCAM-2011-B-0193-002		See 16C		711199		Extend DC General Family Shelter Fire Alarm System	
6. Issued By:				7. Administered By (If other than line 6)			
D.C. Department of Real Estate Services Contracting and Procurement Division 2000 14th Street, NW 5th Floor Washington, DC 20009				D.C. Department of Real Estate Services Contracting and Procurement Division 2000 14th Street, NW 5th Floor Washington, DC 20009			
8. Name and Address of Contractor (No. Street, city, country, state and ZIP Code)						(X) 9A. Amendment of Solicitation No.	
						DCAM-2011-B-0193	
						9B. Dated (See Item 11)	
						November 4, 2010	
						10A. Modification of Contract/Order No.	
						10B. Dated (See Item 13)	
Code		Facility					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
X The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input checked="" type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning <u>1</u> copy of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or fax which includes a reference to the solicitation and amendment number. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or fax, provided each letter or telegram makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. Accounting and Appropriation Data (If Required)							
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14							
A. This change order is issued pursuant to: (Specify Authority)							
The changes set forth in Item 14 are made in the contract/order no. in item 10A.							
B. The above numbered contract/order is modified to reflect the administrative changes (such as changes in paying office, appropriation date, etc.) set forth in item 14, pursuant to the authority of 27 DCMR, Chapter 36, Section 3601.2.							
C. This supplemental agreement is entered into pursuant to authority of:							
D. Other (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copy to the issuing office.							
14. Description of amendment/modification (Organized by UCF Section headings, including solicitation/contract subject matter where feasible.)							
Solicitation No. DCAM-2011-B-0193 to Extend D.C. General Family Shelter Fire Alarm System is hereby amended as follows:							
1. This Amendment Responds to the Questions Raised at the Site Inspection Held at DC General, Building #6, on November 12, 2010, 11:30 AM. SEE ATTACHED							
2. Paragraph B.4 has been revised to include additional CLINS.							
3. Drawing F-001 has been revised and a new drawing F-107 has been added.							
All other Terms and Conditions remain unchanged.							
Except as provided herein, all terms and conditions of the document referenced in Item (9A or 10A) remain unchanged and in full force and effect							
15A. Name and Title of Signer (Type or print)				16A. Name of Contracting Officer			
				Diane Wooden			
15B. Name of Contractor		15C. Date Signed		16B. District of Columbia		16C. Date Signed	
							
(Signature of person authorized to sign)				(Signature of Contracting Officer)			

FIRE ALARM SYSTEM EXTENSION DC GENERAL FAMILY SHELTER - BUILDING 2 1900 MASSACHUSETTS AVENUE, SE WASHINGTON, DC 20003

ENGINEER

JVP ENGINEERS, PC
4200 WISCONSIN AVE, NW
SUITE LL15
WASHINGTON, DC 20016

ARCHITECT

ARCHITRAVE P.C. ARCHITECTS
420 10TH STREET, SE
WASHINGTON, DC 20003

BLDG DESCRIPTION / SCOPE OF WORK

BUILDING DESCRIPTION

THE FACILITY IS AN EXISTING 6-STORY ABOVE GRADE BUILDING WITH TWO BELOW GRADE LEVELS. ONLY APPROXIMATELY 30% OF THE BUILDING IS CURRENTLY BEING OCCUPIED (USED AS A TEMPORARY HOMELESS SHELTER). THE EXISTING FIRE ALARM SYSTEM SERVES PORTIONS OF THE 1ST AND 4TH FLOORS THAT ARE OCCUPIED. THE REMAINDER OF THE BUILDING IS NOT PROTECTED BY THE FIRE ALARM SYSTEM AND IS CURRENTLY UNDER FIREWATCH.

SCOPE OF WORK

AS PREVIOUSLY PRESENTED AND APPROVED BY MR. SYDNEY LESTER (CHIEF, DCRA FIRE PROTECTION DIVISION), THE SCOPE OF WORK SHALL INCLUDE THE FOLLOWING:

- EXTEND THE EXISTING FIRE ALARM SYSTEM TO SERVE THE "FOOTPRINT" OF THE OCCUPIED AREAS ON FLOORS 2, 3, 4 (PARTIAL), 5, AND 6. NOTE: THE FOOTPRINT IS A VERTICAL PROJECTION OF THE OCCUPIED FLOORS OF THE BUILDING. PLEASE SEE SHEET F-101 FOR THE SCOPE OF WORK PLAN. SCOPE OF WORK SHALL ALSO INCLUDE PROVIDING A NEW GRAPHIC ANNUNCIATOR PANEL AT THE FIRST FLOOR MAIN ENTRY.

- FIRE ALARM SYSTEM IN OCCUPIED AREAS SHALL CONSIST OF BOTH ALARM INITIATING AND NOTIFICATION SYSTEMS.
- FIRE ALARM SYSTEM IN UN-OCCUPIED AREAS SHALL CONSIST OF ALARM INITIATING DEVICES ONLY. NOTIFICATION APPLIANCES WILL NOT BE INSTALLED IN UN-OCCUPIED AREAS.
- AREAS THAT ARE NOT PROTECTED BY THE FIRE ALARM SYSTEM ARE SEPARATED BY EXISTING FIRE BARRIERS WITH FIRE DOORS.
- WHERE PROVIDED, ALARM INITIATING DEVICES SHALL CONSIST OF:
 - MANUAL PULL STATIONS AT EACH EXIT
 - SMOKE DETECTION THROUGHOUT THE MAIN/Common CORRIDORS
 - DUCT DETECTORS TO SHUT DOWN HVAC UNITS SERVING OCCUPIED AREAS
- WHERE PROVIDED, ALARM NOTIFICATION APPLIANCES SHALL CONSIST OF:
 - AUDIBLE HORNS
 - VISUAL STROBES

THE WORK WILL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE 2008 DISTRICT OF COLUMBIA CONSTRUCTION CODES SUPPLEMENT, WHICH ADOPTS BY REFERENCE WITH AMENDMENTS THE INTERNATIONAL BUILDING CODE (2008 EDITION), NFPA 72 - NATIONAL FIRE ALARM CODE (2002 EDITION), AND NFPA 70 - NATIONAL ELECTRIC CODE (2005 EDITION).

DRAWING INDEX

- F-001 COVER SHEET, GENERAL INSTALLATION NOTES, AND SYMBOLS LEGEND
- F-101 FIRE ALARM SCOPE OF WORK PLAN
- F-102 FIRE ALARM NEW WORK PLAN - SECOND FLOOR
- F-103 FIRE ALARM NEW WORK PLAN - THIRD FLOOR
- F-104 FIRE ALARM NEW WORK PLAN - FOURTH FLOOR
- F-105 FIRE ALARM NEW WORK PLAN - FIFTH FLOOR
- F-106 FIRE ALARM NEW WORK PLAN - SIXTH FLOOR
- F-107 FIRE ALARM NEW WORK PLAN - MECHANICAL PENTHOUSE
- F-201 FIRE ALARM DETAILS, RISER DIAGRAM, & EVENT MATRIX

INSTALLATION NOTES

GENERAL NOTES

- APPLICABLE CODES AND STANDARDS:
PERFORM ALL WORK IN ACCORDANCE WITH THE CODES AND STANDARDS AS FOLLOWS:
A. NFPA 72, NATIONAL FIRE ALARM CODE, 2002
B. NFPA 70, NATIONAL ELECTRIC CODE, 2005
C. INTERNATIONAL BUILDING CODE, 2006 EDITION
D. INTERNATIONAL FIRE CODE, 2006 EDITION
E. AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES, 1994
F. DISTRICT OF COLUMBIA CONSTRUCTION CODES SUPPLEMENT, 2008
- PERMITS, LICENSES & FEES: PAY ALL REQUIRED FEES AND OBTAIN ALL NECESSARY PERMITS AND LICENSES FOR LEGAL REMOVAL AND INSTALLATION OF THE WORK.
- DRAWING ACCURACY: LOCATIONS AND SIZES OF EXISTING EQUIPMENT, PIPING, DUCTWORK, OUTLETS, DIMENSIONS, FIXTURES, WALLS/PARTITIONS, AND DEVICES SHOWN ON DRAWINGS ARE APPROXIMATE. VERIFY AT THE PROJECT SITE. DRAWINGS ARE DIAGRAMMATIC AND NOT INTENDED TO BE SCALED.
- SITE VISIT: VISIT THE SITE AND FAMILIARIZE YOURSELF WITH THE EXISTING CONDITIONS, EQUIPMENT, DUCTWORK, PIPING, WIRING, CONSTRUCTION, FINISHES, AND STRUCTURE PRIOR TO START OF WORK. WHEN ANY DISCREPANCY OR CONFLICT IS DETECTED AT THE PROJECT SITE, NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY PRIOR TO COMMENCING WORK.
- COORDINATION: COORDINATE AND SEQUENCE THE WORK PRIOR TO FABRICATION AND INSTALLATION OF EQUIPMENT. MAKE NECESSARY ACCOMMODATIONS TO MEET THE INTENT OF THE DRAWINGS AND ENSURE A COORDINATED INSTALLATION.
- SUBMITTALS: PROVIDE PRODUCT INFORMATION, SHOP DRAWINGS, DOCUMENTS AND WARRANTIES FOR MATERIALS AND SERVICES PROVIDED ON THIS PROJECT.
- INSTALLATION OF NEW WORK: PERFORM INSTALLATION IN A NEAT AND PROFESSIONAL MANNER IN ACCORDANCE WITH INDUSTRY STANDARD MATERIALS, TOOLS AND METHODS.
- MOUNTING HEIGHTS: COORDINATE MOUNTING HEIGHTS OF DEVICES ON FINISHED WALLS TO PROVIDE A NEAT AND SYMMETRICAL APPEARANCE.
- WARNING SIGNS: PROVIDE SIGNS, BARRICADES, GUARDS, AND PROTECTION FOR SAFETY DURING CONSTRUCTION. KEEP WORK AREA CLEAN, CLEAR OF OBSTRUCTIONS, WELL ILLUMINATED, AND UNDER ORGANIZED MATERIAL STORAGE.
- REPAIR: PERFORM ALL WORK IN SUCH A MANNER TO MINIMIZE DAMAGE TO ADJACENT EQUIPMENT, PIPING, DUCTWORK, WIRING, FIXTURES, CONSTRUCTION, FINISHES AND STRUCTURE. REPAIR OR REPLACE ANY DAMAGE RESULTING FROM WORK UNDER THIS PROJECT TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST.
- CLEANING & MATERIAL DISPOSITION: CLEAR ALL DEBRIS FROM THE AREA OF WORK AND LEAVE SITE IN CLEAN CONDITION. CLEAN ALL EQUIPMENT ENCLOSURES, INSIDE AND OUTSIDE. REMOVE ALL DEMOLISHED EQUIPMENT AND DEBRIS NOT TO BE REUSED OR SALVAGED FROM THE SITE TO THE PROPER DISPOSAL OF IT ACCORDANCE WITH APPLICABLE REGULATIONS.

- MAINTAIN REQUIRED EGRESS AT ALL TIMES DURING CONSTRUCTION.
- RUN ALL EXPOSED ELEMENTS NEATLY, TIGHT TO THE STRUCTURE, PARALLEL TO WALLS, AND AS INCONSPICUOUSLY AS POSSIBLE.
- CONTRACT DRAWINGS ARE COMPLIMENTARY AND MUST BE USED IN CONJUNCTION WITH THE SPECIFICATIONS TO OBTAIN COMPLETE CONSTRUCTION INFORMATION. CONTRACTOR SHALL COORDINATE ALL DRAWINGS AND SPECIFICATIONS PRIOR TO COMMENCING WORK. QUESTIONS REGARDING DESIGN INTENT OR SYSTEM OPERATION SHALL BE PROMPTLY BROUGHT TO THE OWNER'S REPRESENTATIVES ATTENTION.
- ANY CONFLICTS BETWEEN SPECIFICATIONS AND DRAWINGS SHALL BE BROUGHT TO THE OWNER'S REPRESENTATIVES ATTENTION IMMEDIATELY. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK EXCEPT AT THEIR OWN RISK, UNTIL CLARIFICATIONS OF CONFLICTS ARE ISSUED TO THE CONTRACTOR BY THE OWNER'S REPRESENTATIVE OR HIS AUTHORIZED REPRESENTATIVE.
- "PROVIDE" SHALL MEAN CONTRACTOR SHALL FURNISH AND INSTALL COMPLETE AND READY FOR INTENDED USE.
- "REMOVE" SHALL MEAN CONTRACTOR SHALL DISCONNECT AND CLEAR FROM SITE, UNLESS SPECIFICALLY NOTED OR SPECIFIED OTHERWISE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR AVOIDING ALL CONFLICTS WITH LIGHT FIXTURES, HVAC DIFFUSERS, GRILLS, DUCTS, CONDUIT AND OTHER PIPING OR OTHER OBSTRUCTIONS ENCOUNTERED. COORDINATE ALL WORK WITH EXISTING FIELD CONDITIONS. CONTRACTOR SHALL PROMPTLY NOTIFY OWNER'S REPRESENTATIVE PRIOR TO INITIATING WORK, IF ANY MOUNTING LOCATIONS ARE OBSTRUCTED AND/OR IF ANY MOUNTING CONFLICTS OR PROBLEMS ARE DISCOVERED.
- DESIGN LAYOUT AND DRAWING BACKGROUNDS ARE FOR BIDDING PURPOSES ONLY AND ARE NOT TO BE USED FOR CONSTRUCTION. DRAWING BACKGROUNDS MAY NOT MATCH FIELD CONDITIONS. CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS PRIOR TO FABRICATION/INSTALLATION OF ANY EQUIPMENT.

FIRE ALARM GENERAL NOTES

- CONTRACTOR SHALL PROVIDE SYSTEM DESIGN AND INSTALLATION FOR THE EXTENSION OF AN EXISTING ADDRESSABLE FIRE ALARM SYSTEM. NEW COMPONENTS TO BE USED FOR THIS PROJECT INCLUDE: REMOTE POWER SUPPLIES/EXTENDER PANELS, TERMINAL CABINETS, MANUAL PULL STATIONS, SMOKE DETECTORS, ADDRESSABLE INTERFACE DEVICES, OTHER INITIATING DEVICES, HORNS, VISUAL NOTIFICATION APPLIANCES, ANNUNCIATOR PANELS, RELAYS, SOFTWARE, CUSTOM PROGRAMMING, SYSTEM CHECK OUT AND TESTING, AND ALL ACCESSORIES AND COMPONENTS NECESSARY FOR A COMPLETE AND FUNCTIONAL FIRE ALARM SYSTEM. CONTRACTOR SHALL NOTE THAT THE FOLLOWING DRAWINGS ARE TO BE USED AS AN ILLUSTRATION OF THE DESIGN INTENT AND IS NOT REPRESENTATIVE OF ALL POSSIBLE DEVICES AND EQUIPMENT REQUIRED. THE SYSTEM SHALL COMPLY WITH THE APPLICABLE CODES AND STANDARDS LISTED IN GENERAL NOTE 1. THE EQUIPMENT PROVIDED BY THE CONTRACTOR SHALL BE LISTED FOR THE INTENDED PURPOSE BY A NATIONAL RECOGNIZED TESTING LABORATORY.
- CONTRACTOR SHALL PERFORM A FULL TEST OF THE EXISTING SIMPLEX FIRE ALARM SYSTEM PRIOR TO START OF WORK. ANY EXISTING TROUBLES, DEFICIENCIES, OR ABNORMALITIES SHALL BE BROUGHT THE OWNER'S ATTENTION IMMEDIATELY. NO WORK SHALL BEGIN UNTIL ALL EXISTING DEFICIENCIES ARE RESOLVED (BY OWNER) AND THE EXISTING FIRE ALARM SYSTEM IS WITHOUT TROUBLES OR OTHER ISSUES. FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL RENDER THE CONTRACTOR RESPONSIBLE FOR THE ENTIRE FIRE ALARM SYSTEM INCLUDING EXISTING COMPONENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE SERVICES OF A D.C. APPROVED THIRD PARTY FIRE ALARM SYSTEM INSPECTOR. THIS THIRD PARTY INSPECTOR (TO BE APPROVED BY JVP ENGINEERS) SHALL BE UTILIZED FOR ALL FIRE ALARM INSPECTIONS.
- ALL FIRE ALARM CIRCUITS SHALL BE SUPERVISED AS FOLLOWS:
SLC/ADDRESSABLE INITIATING CIRCUITS - CLASS B, STYLE 4
FIRE ALARM VERTICAL RISER CONNECTIONS - CLASS B, STYLE 4
NOTIFICATION APPLIANCES CIRCUITS - CLASS B, STYLE Y
INITIATING DEVICE CIRCUITS - CLASS B, STYLE C
- ALL NEW AND EXISTING CIRCUITS SHALL BE PROPERLY IDENTIFIED AND LABELED WITHIN THE CONTROL PANELS, POWER SUPPLY PANELS, REMOTE AMPLIFIERS, AND FIELD TERMINAL CABINETS.
- NOTIFICATION APPLIANCE CIRCUITS SHALL NOT EXCEED 80% OF THE RATED CAPACITY.
- STANDBY BATTERY SHALL BE CAPABLE OF OPERATING THE FIRE ALARM SYSTEM UNDER SUPERVISORY CONDITION FOR 24 HOURS AND AN ALARM CONDITION FOR AN ADDITIONAL 5 MINUTES.
- AS PART OF THE SCOPE OF WORK, CONTRACTOR SHALL PROVIDE NEW DIGITAL ALARM COMMUNICATING TRANSMITTERS (DACTS) FOR BOTH THE DC GENERAL FAMILY SHELTER AND AMBULATORY CARE CENTER (ACC) BUILDINGS. THESE NEW DACTS SHALL BE CONNECTED TO THE EXISTING ASSOCIATED FIRE ALARM SYSTEMS. PHONE LINES TO THESE DACTS SHALL BE PROVIDED BY OTHERS.

- MOUNT ALL VISUAL WARNING STROBE/AUDIBLE NOTIFICATION APPLIANCES TO ACHIEVE MAXIMUM AUDIBILITY AND VISIBILITY IN ACCORDANCE WITH NFPA 72 AND ADA GUIDELINES. PROVIDE CARE IN LOCATING VISUAL WARNING STROBE APPLIANCES TO ENSURE VISIBILITY AND AVOID OBSTRUCTIONS.
- ALL VISUAL NOTIFICATION APPLIANCES SHALL BE A MINIMUM OF 15 CANDELAS.
- PROVIDE DUCT-TYPE SMOKE DETECTORS WITH STATUS INDICATOR FOR THE EXISTING AIR HANDLING UNITS, WHERE INDICATED ON THE DRAWINGS.
- WHERE DUCT-TYPE SMOKE DETECTORS ARE DEMOLISHED, CONTRACTOR SHALL PROPERLY PATCH THE EXISTING SAMPLING TUBE PENETRATION INTO THE DUCTWORK. PATCHING OF DUCTWORK SHALL BE PERFORMED UTILIZING SHEET METAL AND SCREWS.
- BOTH EXPOSED AND CONCEALED CONDUIT INCLUDING RISERS UP TO 2 INCHES IN DIAMETER SHALL UTILIZE COMPRESSION TYPE STEEL FITTINGS AND CONNECTORS. VERTICAL RISERS SHALL BE 1-INCH DIAMETER MINIMUM. ALL OTHER CONDUITS SHALL BE 3/4 INCH DIAMETER MINIMUM. NUMBER AND SIZE OF CONDUCTORS SHALL BE AS RECOMMENDED BY THE FIRE ALARM SYSTEM MANUFACTURER, BUT NOT LESS THAN:

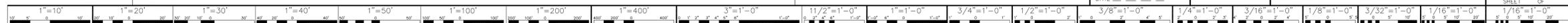
NOTIFICATION APPLIANCES- NO. 14Z AWG
INITIATING DEVICE CIRCUIT- NO. 18Z AWG
SIGNALING LINE CIRCUIT (SLC)-18Z AWG, TWISTED, SHIELDED, W/DRAIN WIRE
120 VAC POWER CIRCUITS - 12Z AWG WITH EGG, 600 VAC INSULATED
- UN, ALL WIRING SHALL BE INSTALLED IN METAL-CLAD (MC) CABLE. RISERS AND OTHER WIRING THAT IS NOT CONCEALED BEHIND WALLS OR CEILING (I.E. MECHANICAL ROOMS, ELECTRICAL ROOMS, PARKING GARAGES, ROOMS WITHOUT CEILINGS, ETC.) SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING (EMT) OR RIGID CONDUIT.
- IN AREAS WITHOUT CEILINGS, CONDUIT SHALL BE INSTALLED AS UNOBTUSIVELY AS POSSIBLE, AS CLOSE AS POSSIBLE TO FLOOR/ CEILING SLAB, AND PARALLEL TO AND AT RIGHT ANGLES TO STRUCTURAL STEEL OR CONCRETE ELEMENTS.
- CONTRACTOR SHALL CONCEAL ALL ELECTRICAL CONDUITS ABOVE SUSPENDED CEILING AND BEHIND WALLS, EXCEPT IN UNFINISHED AREAS WHERE CONDUIT MAY BE SURFACE MOUNTED. UN, EXPOSED CONDUIT SHALL BE PAINTED TO MATCH ADJACENT FINISH. FIRE ALARM JUNCTION BOXES AND FITTINGS SHALL BE PAINTED RED.
- PENETRATIONS IN MASONRY WALLS AND FLOOR/CEILING SLABS SHALL BE CORE DRILLED WITH MASONRY TYPE CORE BIT. ALL WALLS AND FLOORS SHALL BE EXAMINED FOR HIDDEN OBSTRUCTIONS PRIOR TO CORE DRILLING.

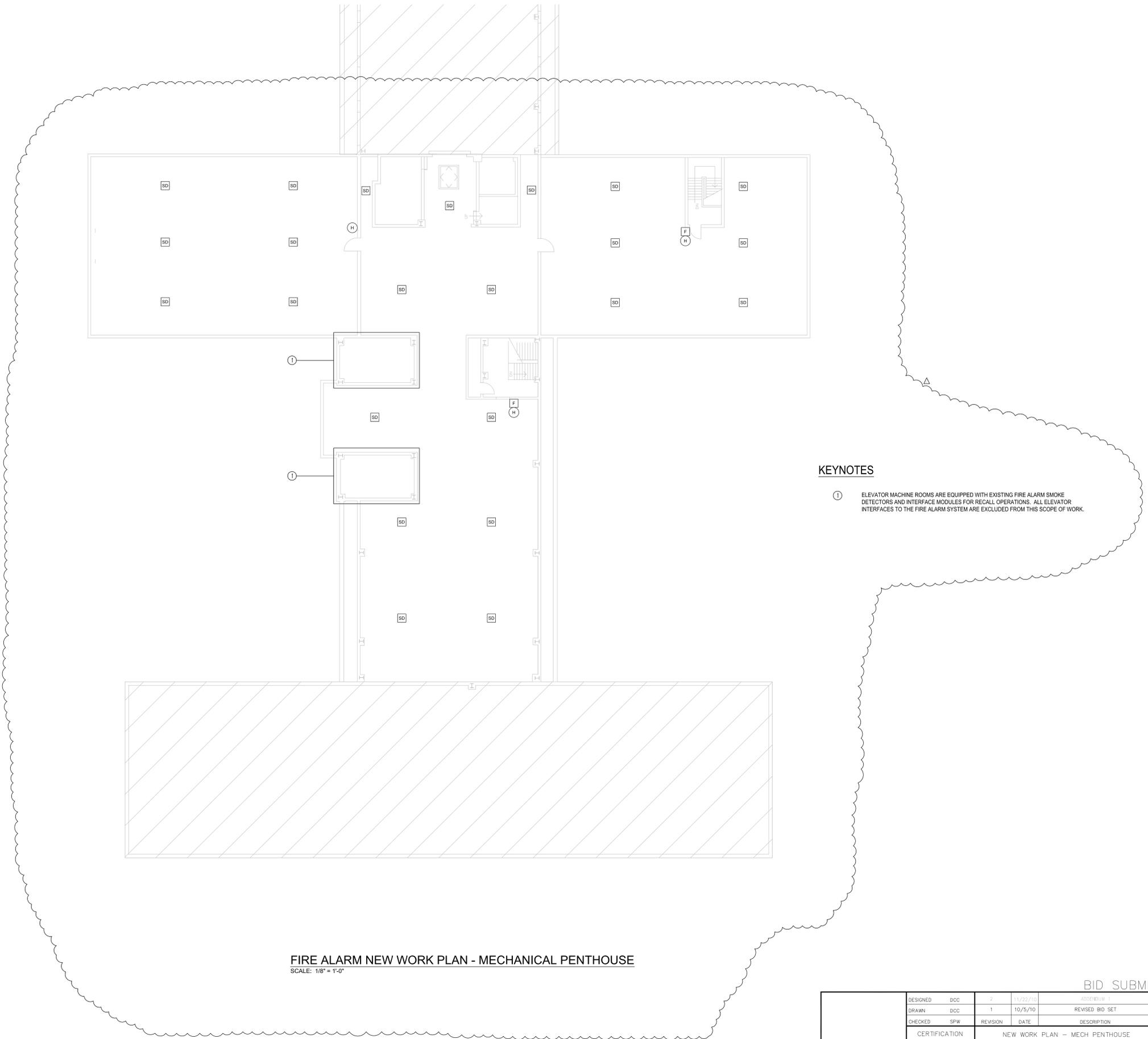
SYMBOLS LEGEND

- | | | |
|------|--|--|
| FACP | FIRE ALARM CONTROL PANEL | STROBE (# DENOTES CANDELA RATING) |
| NAC | NOTIFICATION APPLIANCE EXTENDER PANEL | COMBINATION HORN/STROBE (# DENOTES CANDELA RATING) |
| F | MANUAL PULL STATION | INTERFACE (CONTROL/MONITOR/RELAY) MODULE |
| SD | SMOKE DETECTOR | E
DENOTES EXISTING DEVICE TO REMAIN |
| DD | DUCT-TYPE SMOKE DETECTOR W/ STATUS INDICATOR | C
DENOTES CEILING-MOUNT DEVICE |
| | | DENOTES TENANT AREA NOT IN CONTRACT, UNLESS NOTED BY CLOUD |

BID SUBMISSION

DESIGNED	DCC	2	11/22/10	ADDENDUM 1		
DRAWN	DCC	1	10/5/10	REVISED BID SET		
CHECKED	SPW	REVISION	DATE	DESCRIPTION	BY	APP.
CERTIFICATION				COVER SHEET		FIRE ALARM
				DC GENERAL - FIRE ALARM EXTENSION 1900 MASSACHUSETTS AVE. S.E.		DRAWING NO. F-001
CHIEF DESIGN & ENGINEERING DIVISION		REGISTRATION NO. 901630 DATE _____		GOVERNMENT OF THE DISTRICT OF COLUMBIA DEPARTMENT OF REAL ESTATE SERVICES		PROJECT NO. DDM-2010-B-0149
DATE _____		JVP ENGINEERS				BLDG. NO. xxx DATE: 09/09/2010 SHEET OF





KEYNOTES

- ① ELEVATOR MACHINE ROOMS ARE EQUIPPED WITH EXISTING FIRE ALARM SMOKE DETECTORS AND INTERFACE MODULES FOR RECALL OPERATIONS. ALL ELEVATOR INTERFACES TO THE FIRE ALARM SYSTEM ARE EXCLUDED FROM THIS SCOPE OF WORK.

FIRE ALARM NEW WORK PLAN - MECHANICAL PENTHOUSE
SCALE: 1/8" = 1'-0"

BID SUBMISSION

DESIGNED	DCC	2	11/22/10	ADDENDUM 1		
DRAWN	DCC	1	10/5/10	REVISED BID SET		
CHECKED	SPW	REVISION	DATE	DESCRIPTION	BY	APP.
CERTIFICATION		NEW WORK PLAN - MECH PENTHOUSE			FIRE ALARM	
		DC GENERAL - FIRE ALARM EXTENSION 1900 MASSACHUSETTS AVE. S.E.			DRAWING NO. F-107	
CHIEF DESIGN & ENGINEERING DIVISION	REGISTRATION NO. 901630 DATE	GOVERNMENT OF THE DISTRICT OF COLUMBIA DEPARTMENT OF REAL ESTATE SERVICES			PROJECT NO. DOAM-2010-B-0149	BLDG. NO. xxx
DATE	ENGINEER JVP ENGINEERS				DATE 09/09/2010	SHEET OF



THIS AMENDMENT RESPONDS TO QUESTIONS RAISED AT THE SITE INSPECTION HELD NOVEMBER 12, 2010, 11:30 AM, AT THE DC GENERAL BUILDING #6. SEE ATTACHED RESPONSES

Question 1: Since the building does not have a sprinkler system, do the all rooms require smoke detection as per code?

Response: There is no code requirement in this jurisdiction that mandates smoke detectors to be installed in all rooms of unsprinklered buildings. As such, system smoke detectors are not required in all rooms.

Question 2: The specs and drawing notes call for meeting the codes for detector spacing and notification installation. The drawings do not have enough coverage. Who is responsible for a designing a code compliant system?

Response: All devices to be installed must meet the requirements of NFPA 72. It is JVP Engineers' understanding that the device layout shown on the bid drawings is code compliant. However, the contractor shall be responsible for designing a code compliant fire alarm system based on the bid drawing's design concept.

Question 3: Confirm that new fire alarm devices in wall partitions are to be surface mounted.

Response: New fire alarm devices installed in wall partitions shall be permitted to be surface-mounted. Surface-mount devices must be installed with the manufacturer's surface-mount backbox and EMT.

Question 4: Confirm that it is not required to include fire watchman or costs.

Response: The building is currently under firewatch. The contractor is not responsible for any associated firewatch fees.

Question 5: Confirm in areas of work on occupied floors that the ceiling tile only is to be replaced, unless the grid is damaged as a result of the work. In the event of grid damage, the damaged portion of grid will be replaced in kind.

Response: In areas of work that are currently equipped with ceiling tiles, the contractor is responsible for replacing all ceiling tiles where existing ceiling-mount devices have been removed. Additionally, contractor is responsible for replacing all ceiling tiles and/or portion of the ceiling grid where damage has occurred as a result of the contractor's work.

Question 6: Bid document G.17.4.1 states a watch person service. All materials will be in locked gang boxes (job boxes) made of steel and locked nightly. The only material potentially to be stolen is conduit because everything else will be secured. What will be the responsibilities of this watch person if there is nothing to watch. This increases the bid tremendously and is not necessary.

Response: This will not be required for this contract.

DCAM-2011-B-0193 - Extend DC General Family Shelter Fire Alarm System

The following Paragraphs of the Solicitation have been revised as follows:

DRAWINGS

7. **Drawing F-001**

- A. Insert Sheet F-107 (Mechanical Penthouse) to the Drawing Index.
- B. Revise Fire Alarm General Note 7 to include Digital Alarm Communicating Transmitters (DACTs) for the Family Shelter and adjacent Ambulatory Care Center (ACC) Buildings.

8. **Drawing F-107**

- A. Insert Sheet F-107 showing scope or work for Mechanical Penthouse.

9. **ADDITIONAL CLINS** - This solicitation has been revised to include additional CLINS. In addition to the base bid, contractor shall submit unit pricing for each of the following devices:

- A. System smoke detector with 40 feet of wiring.
- B. Duct smoke detector with 40 feet of wiring.
- C. Fire alarm pull station with 40 feet of wiring.
- D. Ceiling-mount fire alarm strobe with 40 feet of wiring.
- E. Ceiling-mount fire alarm horn with 40 feet of wiring.
- F. Ceiling-mount combination horn/strobe with 40 feet of wiring.
- G. Fire alarm interface (relay/monitor) module with 40 feet of wiring.
- H. Notification appliance extender (NAC) panel.

Unit prices shall include all materials, labor, programming, overhead, profit, project management, testing and approval, and any other associated cost for the complete installation of the particular device. **(See attached chart for additional CLINS)**

ALL OTHER TERMS, CONDITIONS, REQUIREMENTS REMAIN UNCHANGED.

DCAM-2011-B-0193
Extend Fire Alarm System at DC General Family Shelter
Additional CLINS

The Contractor must bid lump sum firm fixed prices for each of the additional Contract Line Item Numbers (CLINs) as described below.

CLIN	DESCRIPTION	UNIT PRICE	TOTAL PRICE
0002	System smoke detector with 40 feet of wiring.	\$	\$
0003	Duct smoke detector with 40 feet of wiring.	\$	\$
0004	Fire alarm pull station with 40 feet of wiring.	\$	\$
0005	Ceiling-mount fire alarm strobe with 40 feet of wiring.	\$	\$
0006	Ceiling-mount fire alarm horn with 40 feet of wiring.	\$	\$
0007	Ceiling-mount combination horn/strobe with 40 feet of wiring.	\$	\$
0008	Fire alarm interface (relay/monitor) module with 40 feet of wiring.	\$	\$
0009	Notification appliance extender (NAC panel)	\$	\$

Unit prices shall include all materials, labor, programming, overhead, profit, project management, testing and approval, and any other associate cost for the complete installation of the particular device.

TOTAL LUMP SUM PRICE IN WORDS



FROEHLING & ROBERTSON, INC.
ENGINEERING • ENVIRONMENTAL • GEOTECHNICAL
7798 WATERLOO ROAD, JESSUP MD 20794 USA
T 443.733.1011 F 443.733.1015

ASBESTOS-CONTAINING MATERIAL and LEAD-BASED PAINT SURVEY

DC General Hospital
1900 Massachusetts Avenue, SE
Washington, DC 20003

Prepared For:
Architrave, P.C. Architects
420 10th Street, SE
Washington, DC 20003

Prepared By:
Froehling & Robertson, Inc.
7798 Waterloo Road
Jessup, Maryland 20794

F&R Project Number 68L-0159

March 29th, 2010

Prepared By:

A handwritten signature in black ink, appearing to read 'Alan Lederman', is written over a light blue horizontal line.

Alan Lederman, CHMM
Environmental Group Manager



Table of Contents

1.0	Introduction	1
2.0	Asbestos-Containing Material (ACM).....	1
2.1	Methodology.....	1
2.2	Results (Refer also to Appendix A for Laboratory Reports).....	1
2.3	Conclusions and Recommendations	3
2.3.1	Non-Friable Asbestos-Containing Materials	4
2.3.2	Friable Asbestos-Containing Materials	5
2.3.3	Presumed Asbestos-Containing Materials	5
2.4	Applicable Regulations.....	6
3.0	Lead-Based Paint	7
3.1	Methodology	7
3.2	Results	7
3.3	Applicable Regulations and Recommendations.....	7
4.0	Limitations	8

APPENDICES

Appendix A – Asbestos Documentation, Laboratory Reports

Appendix B-Lead Based Paint XRF and Laboratory Results

Appendix C-Photographs



1.0 Introduction

Froehling and Robertson (F&R) was contracted by Architrave, P.C. Architects to perform an asbestos-containing material (ACM) and lead-based paint (LBP) survey of materials that could potentially be impacted by Americans with Disabilities Act (ADA) upgrades of select areas on Floors 1, 2, 4, and 5 at DC General Hospital. The investigation was performed by Environmental Protection Agency-Asbestos Hazard Emergency Response Act (EPA-AHERA)-trained asbestos building inspector and District of Columbia Licensed Lead Inspector, Alan Lederman on March 18th and 24th 2010.

The scope of this investigation consisted of the following items only:

- Screening for asbestos-containing materials (ACMs) that may be impacted by ADA upgrades
- Screening for surface coatings that may contain lead-based paint (LBP) or lead-based glazing that may be impacted by ADA upgrades

2.0 Asbestos-Containing Material (ACM)

2.1 Methodology

For this project, F&R collected suspect asbestos-containing materials from select areas that may be impacted by the ADA upgrades. Samples were collected by F&R in general accordance with EPA-AHERA protocols and submitted under chain of custody to EMSL Analytical, Inc. (EMSL) located in Beltsville, Maryland, for analysis. EMSL is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) to analyze suspect asbestos-containing bulk materials. A total of thirty-eight (38) bulk samples were submitted to EMSL. Of the 38 samples submitted, thirty-two (32) samples were analyzed using Polarized Light Microscopy (PLM) via EPA Method 600/R-93/116 as the stop positive method was utilized in which if a particular material was determined to be asbestos-containing, additional samples of that material were not analyzed.

2.2 Results (Refer also to Appendix A for Laboratory Reports)

TABLE 1 BUILDING #1 ACM LABORATORY RESULTS			
Sample #	Sample Location	Sample Description	Analytical Results
DC General-1	Room 4309	9"x9" Green Vinyl Floor Tile with White Flecks	8% Chrysotile
DC General -2	Room 4309	Black Mastic Associated with Sample #1	10% Chrysotile
DC General -3	Room 4309	Skim Coat Ceiling Plaster	No Asbestos Detected
DC General -4	Room 4309	Skim Coat Ceiling Plaster	No Asbestos Detected



**TABLE 1
BUILDING #1 ACM LABORATORY RESULTS**

Sample #	Sample Location	Sample Description	Analytical Results
DC General -5	Room 4309	Skim Coat Ceiling Plaster	No Asbestos Detected
DC General -6	Room 4309	Scratch Coat Ceiling Plaster	No Asbestos Detected
DC General -7	Room 4309	Scratch Coat Ceiling Plaster	No Asbestos Detected
DC General -8	Room 4309	Scratch Coat Ceiling Plaster	No Asbestos Detected
DC General -9	Room 4309	Drywall	No Asbestos Detected
DC General -10	Room 4309	Tan Covebase Mastic	No Asbestos Detected
DC General -11	Room 4309	12"x12" White Vinyl Floor Tile	No Asbestos Detected
DC General -12	Room 4309	Black Mastic Associated with Sample #11	7% Chrysotile
DC General -13	Room 4308	White Duct Seam Sealant	8% Chrysotile
DC General -14	4 th Floor Bldg. 2 Restroom	Shower Pan Lining	No Asbestos Detected
DC General -15	Room 4308	Gray Spray-On Fireproofing	8% Chrysotile
DC General -16	Room 4308	Gray Spray-On Fireproofing	Sample Not Analyzed
DC General -17	Room 4308	Gray Spray-On Fireproofing	Sample Not Analyzed
DC General -18	Room 4308	2'x4' White Ceiling Tile	No Asbestos Detected
DC General -19	Room 4310	Skim Coat Wall Plaster	No Asbestos Detected
DC General -20	Room 4310	Skim Coat Wall Plaster	No Asbestos Detected
DC General -21	Room 4310	Skim Coat Wall Plaster	No Asbestos Detected
DC General -22	Room 4310	Scratch Coat Wall Plaster	No Asbestos Detected
DC General -23	Room 4310	Scratch Coat Wall Plaster	No Asbestos Detected
DC General -24	Room 4310	Scratch Coat Wall Plaster	No Asbestos Detected



**TABLE 1
BUILDING #1 ACM LABORATORY RESULTS**

Sample #	Sample Location	Sample Description	Analytical Results
DC General-25	Bldg. 3 4 th Floor Hallway	Joint Compound	No Asbestos Detected
DC General -26	Room 215	Vinyl Wall Covering Mastic	No Asbestos Detected
DC General -27	Room 215	Pipe Insulation	15% Chrysotile
DC General -28	Room 215	Pipe Insulation	Sample Not Analyzed
DC General -29	Room 215	Pipe Insulation	Sample Not Analyzed
DC General -30	Room 215	Pipe Fitting Insulation	25% Chrysotile
DC General -31	Room 215	Pipe Fitting Insulation	Sample Not Analyzed
DC General -32	Room 215	Pipe Fitting Insulation	Sample Not Analyzed
DC General -33	Bldg. 3 5th Floor Hallway	Black Duct Seam Sealant	2% Chrysotile
DC General -34	Room 718	Joint Compound	No Asbestos Detected
DC General -35	Bldg. 29 1 st Floor Elevator Lobby	Drywall	No Asbestos Detected
DC General -36	Bldg. 29 1 st Floor Elevator Lobby	Joint Compound	No Asbestos Detected
DC General -37	Bldg. 29 1 st Floor Elevator Lobby	White 2'x2' Ceiling Tile	No Asbestos Detected
DC General -38	Bldg. 29 Room ACI 213	Joint Compound	No Asbestos Detected

2.3 Conclusions and Recommendations

Please see **Table 2** below for a summary of the ACM located in the areas to be impacted by the ADA upgrade

**TABLE 2
ACM SUMMARY**

Sample Description	Location	Friable	Condition	Asbestos Content
9"x9" Green Vinyl Floor Tile with White Flecks and Black Mastic	Room 4309, 4 th Floor Phone Booth, Room 5307	No	Fair	8% Chrysotile (Floor Tile); 10% Chrysotile (Mastic)



**TABLE 2
ACM SUMMARY**

Sample Description	Location	Friable	Condition	Asbestos Content
Black Floor Tile Mastic Associated with 12"x12" White Vinyl Floor Tile	Rooms 4308, 5308, 106W, 105W, 4 th Floor Attendant Area, and 4 th Floor TV Room	No	Fair	7% Chrysotile
White Duct Seam Sealant	Above Drop Ceilings Throughout	No	Fair	5% Chrysotile
Gray Spray-On Fireproofing	Above Drop Ceilings Throughout	Yes	Fair	8% Chrysotile
Pipe and Pipe Fitting Insulation	Pipe Chases Throughout	Yes	Fair	15% Chrysotile (Straight Pipe); 25% Chrysotile (Pipe Fittings)
Black Duct Seam Sealant	Above Drop Ceilings Throughout	No	Fair	2% Chrysotile
Interior Fire Door Insulation	Doors Throughout	Yes	Unknown	Presumed ACM
Pipe Flanges and Gaskets	Pipe Chases Throughout	No	Unknown	Presumed ACM

F&R offers the following observations in regards to the information presented in **Table 2**:

- The following areas were inaccessible at the time of our investigation: mechanical closet between Rooms 205 and 206; resident room in Bldg. 3 4th Floor hallway; Room 503; Room 5307; and Room 314. Additional ACM may be encountered in these areas.
- Areas behind solid walls and ceilings were inaccessible and could not be visually surveyed for the presence of ACM. ACM including, but not limited to, thermal pipe and pipe fitting insulation may exist in these locations.

2.3.1 Non-Friable Asbestos-Containing Materials

9"x9" Green Floor Tile with White Flecks and Associated Black Mastic - 8% Chrysotile (Floor Tile) 10% Chrysotile (Mastic)

Asbestos was detected in samples of the 9"x9" green floor tile with white flecks and associated black mastic. These materials are classified as non-friable asbestos and were generally in fair condition in the areas observed. F&R recommends that all 9"x9" green floor tile and associated black mastic be assumed to be asbestos-containing.

Black Mastic Associated with 12"x12" White Vinyl Floor Tile-7% Chrysotile

Asbestos was detected in a sample of the black mastic associated with the 12"x12" white vinyl floor tile.



This material is classified as non-friable asbestos and was generally in fair condition in the areas observed. F&R recommends that all black floor tile mastic be assumed to be asbestos-containing and that the 12"x12" white vinyl floor tile be treated as an asbestos-containing material due to contamination from the mastic.

White Duct Seam Sealant-5% Chrysotile

Asbestos was detected in a sample of white duct seam sealant. This material is classified as non-friable asbestos and was generally in fair condition in the areas observed. F&R recommends that all white duct seam sealant be assumed to be asbestos-containing.

Black Duct Seam Sealant-2% Chrysotile

Asbestos was detected in a sample of black duct seam sealant. This material is classified as non-friable asbestos and was generally in fair condition in the areas observed. F&R recommends that all black duct seam sealant be assumed to be asbestos-containing.

2.3.2 Friable Asbestos-Containing Materials

Gray Spray-On Fireproofing-8% Chrysotile

Asbestos was detected in a sample of gray spray-on fireproofing. This material is classified as friable asbestos and was generally in fair condition in the areas observed. F&R recommends that all fireproofing material be assumed to be asbestos-containing.

Pipe and Pipe Fitting Insulation-15% Chrysotile (Straight Pipe) and 25% Chrysotile (Pipe Fitting)

Asbestos was detected in samples of pipe and pipe fitting insulation. These materials are classified as friable asbestos and were generally in fair condition in the areas observed. F&R recommends that all non-fiberglass pipe and pipe fitting insulation be assumed to be asbestos-containing.

2.3.3 Presumed Asbestos-Containing Materials

Interior Fire Door Insulation

F&R recommends that all doors be presumed to contain asbestos-containing interior insulation until sampling determines otherwise.

Pipe Flanges and Gaskets

F&R recommends that pipe flanges and gaskets be presumed to be asbestos-containing until sampling determines otherwise.



2.4 Applicable Regulations

EPA/NESHAP Regulations for Asbestos-Containing Materials

The U.S. Environmental Protection Agency promulgated the National Emission Standards for Hazardous Air Pollutants (NESHAP) [40 CFR Part 61], which addresses the application, removal and disposal of ACMs. Under NESHAP, the following categories are defined for ACMs:

Friable - When dry, can be crumbled, pulverized, or reduced to powder by hand pressure.

Non-Friable - When dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Category I Non-friable ACM - Packings, gaskets, resilient floor coverings, and asphalt roofing products containing more than 1% asbestos.

Category II Non-friable ACM – Any non-friable material, excluding Category I Non-friable ACM containing more than 1% asbestos.

Regulated Asbestos-Containing Material (RACM)-One of the following:

1. Friable ACM
2. Category I Non-friable ACM that has become friable.
3. Category I Non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading.
4. Category II Non-friable ACM that has a high probability of becoming, or has become, friable by the forces expected to act on the material during demolition or renovation operations.

Under NESHAP, the following actions are required:

1. Prior to the commencement of demolition or renovation activities, the building owner must inspect the affected facility or part of the facility where the demolition or renovation activities will occur for the presence of asbestos.
2. Remove all RACM from the facility before any activity begins that would break up, dislodge, or similarly disturb the material or preclude access for subsequent removal.
3. RACM need not be removed if:
 - a) It is Category I non-friable ACM that is not in poor condition.
 - b) It is on a facility component that is encased in concrete or other similar material and is adequately wet whenever exposed.
 - c) It was not accessible for testing and was therefore not discovered until after demolition began and because of the demolition the material cannot be safely removed.
 - d) It is Category II non-friable ACM and the probability is low that the material will become crumbled, pulverized, or reduced to powder during demolition.



3.0 Lead-Based Paint

3.1 Methodology

A lead-based paint (LBP) screening was performed to test a representative number of painted surfaces for the presence of lead. The testing was conducted by using a Niton XL-309 X-Ray Fluorometer (XRF) Lead Paint Analyzer. The XRF contains a small radioisotopic source and operates on the principle of x-ray fluorescence, whereby lead atoms in paint are stimulated to emit characteristic x-rays, which are then detected by the instrument. The XRF can measure surface or non-surface concentrations of lead with 95% accuracy at the District of Columbia action level of 1.0 mg/cm². Levels of lead are reported in units of milligrams per square centimeter (mg/cm²). The XRF is able to accurately detect as little as 0.1 mg/cm² of lead. The XRF classifies painted surfaces as “positive” or “negative” for lead content based on the District of Columbia action level (1.0 mg/cm²) and the performance characteristics of the XRF. For surfaces that could not effectively be analyzed utilizing the XRF, F&R collected paint chip samples that were analyzed by EMSL for the content of lead by percent weight via Flame Atomic Absorption by EPA Method SW846-7000B/7420. The District of Columbia action level for LBP by percent weight is 0.5%.

- Positive: Lead is present at or above the District of Columbia action level of 1.0 mg/cm² or 0.5% by weight on *one or more* layers of paint on a specific component.
- Negative: Lead is not present at or above the District of Columbia action level of 1.0 mg/cm² or 0.5% by weight in any layer of paint on a specific component.

The survey was conducted using the methodology recommended by the U.S. EPA/Department of Housing and Urban Development (HUD). It is important to note that this survey was not a comprehensive, surface-by-surface evaluation, but rather a screening survey of major painted components, which may contain LBP.

3.2 Results

A total of 51 XRF readings and one paint chip sample were taken as part of this survey. Based on the results of this survey, the following surfaces were determined to contain LBP or lead-based glazing (defined as having a concentration above the District of Columbia action level of 1.0 milligrams per square centimeter or 0.5% by weight):

- Green ceramic shower and wall tile
- Cream ceramic wall tile

The remainder of the painted surfaces within the building should be assumed to contain lead-containing paint (paint with detectable lead concentrations but below the District of Columbia action level). Reference the attached XRF Data Table for a complete list of sampled components and results.

3.3 Applicable Regulations and Recommendations

OSHA Regulations for Lead Based Paint

Positive and negative results are based on the US Department of Housing and Urban Development



Guidelines. It is important to note that even if a component is negative based on the District of Columbia's standard, it may still contain concentrations of lead in the paint, which when disturbed, may generate lead dust greater than the Permissible Exposure Limit (PEL) of 50 micrograms per cubic millimeter ($\mu\text{g}/\text{m}^3$) as an 8-hour Time Weighted Average (TWA) established by the OSHA "Lead Exposure in Construction Rule (29 CFR 1926.62)."

The OSHA standard gives no guidance on acceptable levels of lead in paint at which no exposure to airborne lead (above the action level) would be expected. Rather, OSHA defines airborne concentrations, and references specific types of work practices and operations from which a lead hazard may be generated (reference 29 CFR 1926.62, section d). Environmental and personnel monitoring should be conducted during any removal/demolition process (as appropriate) to verify that actual personal exposures are below the Permissible Exposure Limit (PEL). Under OSHA requirements, the contractor performing the work will be required to conduct this monitoring and follow all of the other requirements found under 29 CFR 1926.62.

F&R determined that the white paint on the metal radiators throughout the restrooms contained lead below the District of Columbia action level of 0.5% by weight; however F&R recommends that damaged areas of this paint be repaired as to avoid inhalation or ingestion by children.

4.0 Limitations

This report has been prepared for the exclusive use by Architrave, P.C. Architects and their associates. This service was performed in accordance with industry guidelines. No other warranty, expressed or implied, is made.

Our conclusions and recommendations are based, in part, upon information provided to us by others and on our site observations. We have not verified the completeness or accuracy of the information provided by others, unless otherwise noted. Our observations and recommendations are based upon conditions readily visible at the site at the time of our site visit, and upon current industry standards. During F&R's non-invasive inspection, accessible areas were visually surveyed for the presence of suspected ACM and LBP. Inaccessible areas were not surveyed and therefore suspected ACM may be present in those areas. Areas inspected for the above-referenced materials were limited to those designated by the client.

The investigation was based on materials found in building above soil level. Any materials buried underneath the foundation were not accessible and will be considered to be an asbestos containing material until sampling rebuts the assumption.

During this study, suspect material samples were analyzed for asbestos and/or lead. As with any similar survey of this nature, actual conditions exist only at the precise locations from which suspect 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.

Under this scope of services, F&R assumes no responsibility regarding response actions (e.g. O&M Plans, Encapsulation, Abatement, Removal, Notifications, etc.) initiated as a result of these findings. F&R assumes no liability for the duties and responsibilities of the Client with respect to compliance with these regulations. Compliance with regulations is the sole responsibility of the Client and should be



conducted in accordance with local, state, and/or federal requirements, whichever is more stringent. All abatement activities or response actions should be performed by appropriately qualified and licensed-personnel and/or companies, as warranted.

Froehling & Robertson, Inc. by virtue of providing the services described in this report, 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. 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, any information that may be necessary to prevent any danger to public health, safety, or the environment. The contents of the report should not be construed in any way as a recommendation to purchase, sell, or develop the project site.



in order to coordinate with local state and/or federal agencies. The report does not discuss
the results of the laboratory analysis. The report should be reviewed by a qualified professional to
determine if the data is sufficient to support the conclusions drawn in the report.

The report does not discuss the results of the laboratory analysis. The report should be reviewed
by a qualified professional to determine if the data is sufficient to support the conclusions
drawn in the report. The report should be reviewed by a qualified professional to determine
if the data is sufficient to support the conclusions drawn in the report. The report should
be reviewed by a qualified professional to determine if the data is sufficient to support
the conclusions drawn in the report. The report should be reviewed by a qualified
professional to determine if the data is sufficient to support the conclusions drawn in
the report. The report should be reviewed by a qualified professional to determine if
the data is sufficient to support the conclusions drawn in the report. The report
should be reviewed by a qualified professional to determine if the data is sufficient
to support the conclusions drawn in the report. The report should be reviewed by a
qualified professional to determine if the data is sufficient to support the conclusions
drawn in the report. The report should be reviewed by a qualified professional to
determine if the data is sufficient to support the conclusions drawn in the report.

APPENDIX A

ASBESTOS DOCUMENTATION, LABORATORY REPORTS



EMSL Analytical, Inc.

10768 Baltimore Avenue, Beltsville, MD 20705

Phone: (301) 937-5700 Fax: (301) 937-5701 Email: beltsvillelab@emsl.com

Attn: **Alan Lederman**
Froehling & Robertson
7798 Waterloo Road
Jessup, MD 20794

Fax: (443) 733-1015 Phone: (443) 733-1011

Project: **DC General ADA Assessment**

Customer ID: FROE62
Customer PO:
Received: 03/20/10 3:00 PM
EMSL Order: 191002285

EMSL Proj:
Analysis Date: 3/21/2010

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
DC General 01 191002285-0001	9x9 Grn VFT w/ wht flecks/Rm 4309	Green Non-Fibrous Heterogeneous		92% Non-fibrous (other)	8% Chrysotile
DC General 02 191002285-0002	Black Mastic	Black Fibrous Heterogeneous		90% Non-fibrous (other)	10% Chrysotile
DC General 03 191002285-0003	Skim Coat Ceiling Plstr	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
DC General 04 191002285-0004	Skim Coat Ceiling Plstr	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
DC General 05 191002285-0005	Skim Coat Ceiling Plstr	Tan/White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
DC General 06 191002285-0006	Scratch Coat Ceiling Plaster	Brown Non-Fibrous Heterogeneous		40% Non-fibrous (other) 60% Quartz	None Detected
DC General 07 191002285-0007	Scratch Coat Ceiling Plaster	Brown Non-Fibrous Heterogeneous		50% Non-fibrous (other) 50% Quartz	None Detected

Analyst(s)

Emily Baker (13)
George Malone (2)

Joe Centifonti, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

Samples analyzed by EMSL Analytical, Inc. 10768 Baltimore Avenue, BeltsvilleMD NVLAP Lab Code 200293-0



EMSL Analytical, Inc.

10768 Baltimore Avenue, Beltsville, MD 20705

Phone: (301) 937-5700 Fax: (301) 937-5701 Email: beltsvillelab@emsl.com

Attn: **Alan Lederman**
Froehling & Robertson
7798 Waterloo Road
Jessup, MD 20794

Customer ID: FROE62
Customer PO:
Received: 03/20/10 3:00 PM
EMSL Order: 191002285

Fax: (443) 733-1015 Phone: (443) 733-1011

EMSL Proj:
Analysis Date: 3/21/2010

Project: **DC General ADA Assessment**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
DC General 08 191002285-0008	Scratch Coat Ceiling Plaster	Brown/Beige Fibrous Heterogeneous	12% Cellulose	33% Non-fibrous (other) 10% Mica 45% Quartz	None Detected
DC General 09 191002285-0009	Drywall	Brown/Beige Fibrous Heterogeneous	25% Cellulose	5% Non-fibrous (other) 70% Gypsum	None Detected
DC General 10- Cove Base 191002285-0010	Tan Covebase Mastic	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
DC General 10- Mastic 191002285-0010A	Tan Covebase Mastic	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
DC General 11 191002285-0011	12x12 White VFT	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
DC General 12 191002285-0012	Black Mastic	Black Non-Fibrous Heterogeneous		93% Non-fibrous (other)	7% Chrysotile

Analyst(s)

Emily Baker (13)
George Malone (2)

Joe Centifonti, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

Samples analyzed by EMSL Analytical, Inc. 10768 Baltimore Avenue, BeltsvilleMD NVLAP Lab Code 200293-0



EMSL Analytical, Inc.

10768 Baltimore Avenue, Beltsville, MD 20705

Phone: (301) 937-5700 Fax: (301) 937-5701 Email: beltsvillelab@emsl.com

Attn: **Alan Lederman**
Froehling & Robertson
7798 Waterloo Road
Jessup, MD 20794

Fax: (443) 733-1015 Phone: (443) 733-1011
Project: **DC General ADA Assessment**

Customer ID: FROE62
Customer PO:
Received: 03/20/10 3:00 PM
EMSL Order: 191002285
EMSL Proj:
Analysis Date: 3/21/2010

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
DC General 13 191002285-0013	White Duct Seam Sealant/Rm 4308	Tan/White/Silver Fibrous Heterogeneous	25% Glass	70% Non-fibrous (other)	5% Chrysotile
found chrysotile in the coating					
DC General 14 191002285-0014	Shower Pan Lining/4th Flr Bldg 2 Restroom	Brown/Black Fibrous Heterogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected

Analyst(s)

Emily Baker (13)
George Malone (2)

Joe Centifonti, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

Samples analyzed by EMSL Analytical, Inc. 10768 Baltimore Avenue, BeltsvilleMD NVLAP Lab Code 200293-0



EMSL Analytical, Inc.

10768 Baltimore Avenue, Beltsville, MD 20705

Phone: (301) 937-5700 Fax: (301) 937-5701 Email: beltsvillelab@emsl.com

Attn: **Alan Lederman**
Froehling & Robertson
7798 Waterloo Road
Jessup, MD 20794

Fax: (443) 733-1015 Phone: (443) 733-1011
Project: **DC GENERAL ADA**

Customer ID: FROE62
Customer PO:
Received: 03/24/10 2:00 PM
EMSL Order: 191002414
EMSL Proj:
Analysis Date: 3/25/2010

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
DCGENERAL-15 191002414-0001	SPRAY-ON FIREPROOFING/ RM 4308	Beige Fibrous Heterogeneous		92% Non-fibrous (other)	8% Chrysotile
DCGENERAL-16 191002414-0002	SPRAY-ON FIREPROOFING/ RM 4308				Stop Positive (Not Analyzed)
DCGENERAL-17 191002414-0003	SPRAY-ON FIREPROOFING/ RM 4308				Stop Positive (Not Analyzed)
DCGENERAL-18 191002414-0004	2X4 WHT CT/RM 4308	White/Beige Fibrous Heterogeneous	45% Cellulose 35% Glass	20% Non-fibrous (other)	None Detected
DCGENERAL-19 191002414-0005	SKIM COAT WALL PLSTR/RM 4310	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
DCGENERAL-20 191002414-0006	SKIM COAT WALL PLSTR/RM 4310	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
DCGENERAL-21 191002414-0007	SKIM COAT WALL PLSTR/RM 4310	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Alexis Turner (18)

Joe Centifonti, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

Samples analyzed by EMSL Analytical, Inc. 10768 Baltimore Avenue, BeltsvilleMD NVLAP Lab Code 200293-0



EMSL Analytical, Inc.

10768 Baltimore Avenue, Beltsville, MD 20705

Phone: (301) 937-5700 Fax: (301) 937-5701 Email: beltsvillelab@emsl.com

Attn: **Alan Lederman**
Froehling & Robertson
7798 Waterloo Road
Jessup, MD 20794

Customer ID: FROE62
Customer PO:
Received: 03/24/10 2:00 PM
EMSL Order: 191002414

Fax: (443) 733-1015 Phone: (443) 733-1011
Project: **DC GENERAL ADA**

EMSL Proj:
Analysis Date: 3/25/2010

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
DCGENERAL-22 191002414-0008	SCRATCH COAT WALL PLSTR/RM 4310	Beige Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
DCGENERAL-23 191002414-0009	SCRATCH COAT WALL PLSTR/RM 4310	Beige Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
DCGENERAL-24 191002414-0010	SCRATCH COAT WALL PLSTR/RM 4310	Beige Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
DCGENERAL-25 191002414-0011	JOINT CMPD/BLDG 3 4TH FL	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
DCGENERAL-26 191002414-0012	VINYL WALL COVERING MSTC/RM 215	White/Cream Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
DCGENERAL-27 191002414-0013	PIPE INS/RM 215	Gray Fibrous Heterogeneous		85% Non-fibrous (other)	15% Chrysotile
DCGENERAL-28 191002414-0014	PIPE INS/RM 215				Stop Positive (Not Analyzed)

Analyst(s)

Alexis Turner (18)

Joe Centifonti, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

Samples analyzed by EMSL Analytical, Inc. 10768 Baltimore Avenue, BeltsvilleMD NVLAP Lab Code 200293-0



EMSL Analytical, Inc.

10768 Baltimore Avenue, Beltsville, MD 20705

Phone: (301) 937-5700 Fax: (301) 937-5701 Email: beltsvillelab@emsl.com

Attn: **Alan Lederman**
Froehling & Robertson
7798 Waterloo Road
Jessup, MD 20794

Customer ID: FROE62
Customer PO:
Received: 03/24/10 2:00 PM
EMSL Order: 191002414

Fax: (443) 733-1015 Phone: (443) 733-1011
Project: **DC GENERAL ADA**

EMSL Proj:
Analysis Date: 3/25/2010

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
DCGENERAL-29 191002414-0015	PIPE INS/RM 215				Stop Positive (Not Analyzed)
DCGENERAL-30 191002414-0016	PIPE FITTING/RM 215	Gray Fibrous Heterogeneous		75% Non-fibrous (other)	25% Chrysotile
DCGENERAL-31 191002414-0017	PIPE FITTING/RM 215				Stop Positive (Not Analyzed)
DCGENERAL-32 191002414-0018	PIPE FITTING/RM 215				Stop Positive (Not Analyzed)
DCGENERAL-33 191002414-0019	BLK DUCT SEAM SEALANT/5TH FL HALLWAY	Black/Silver/Yellow Fibrous Heterogeneous		98% Non-fibrous (other)	2% Chrysotile
DCGENERAL-34 191002414-0020	JOINT CMPD/RM 718	White Fibrous Heterogeneous	5% Cellulose	95% Non-fibrous (other)	None Detected
DCGENERAL-35 191002414-0021	DRYWALL/1ST FL ELEV LOBBY	Brown/White Non-Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (other)	None Detected

Analyst(s)

Alexis Turner (18)

Joe Centifonti, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

Samples analyzed by EMSL Analytical, Inc. 10768 Baltimore Avenue, BeltsvilleMD NVLAP Lab Code 200293-0



EMSL Analytical, Inc.

10768 Baltimore Avenue, Beltsville, MD 20705

Phone: (301) 937-5700 Fax: (301) 937-5701 Email: beltsvillelab@emsl.com

Attn: **Alan Lederman**
Froehling & Robertson
7798 Waterloo Road
Jessup, MD 20794

Customer ID: FROE62
Customer PO:
Received: 03/24/10 2:00 PM
EMSL Order: 191002414

Fax: (443) 733-1015 Phone: (443) 733-1011
Project: **DC GENERAL ADA**

EMSL Proj:
Analysis Date: 3/25/2010

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
DCGENERAL-36 191002414-0022	JOINT CMPD/1ST FL ELEV LOBBY	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected
DCGENERAL-37 191002414-0023	WHT 2X2 CT/1ST FL ELEV LOBBY	Gray/White Fibrous Heterogeneous	50% Cellulose 35% Glass	15% Non-fibrous (other)	None Detected
DCGENERAL-38 191002414-0024	JOINT CMPD/ACI 213	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Alexis Turner (18)

Joe Centifonti, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. The limit of detection as stated in the method is 1%. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

Samples analyzed by EMSL Analytical, Inc. 10768 Baltimore Avenue, BeltsvilleMD NVLAP Lab Code 200293-0



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

EMSL ANALYTICAL, INC.
10768 BALTIMORE AVE
BELTSVILLE, MD 20705
PHONE: (301) 937-5700
FAX: (301) 937-5701

Company: <u>Froehling & Robertson</u>		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: <u>7798 Waterloo Road</u>		<i>Third Party Billing requires written authorization from third party</i>	
City: <u>Bossup</u>	State/Province: <u>MD</u>	Zip/Postal Code: <u>20794</u>	Country: <u>U.S.</u>
Report To (Name): <u>Alan Lederman</u>		Fax #: <u>443-733-1015</u>	
Telephone #: <u>443-733-1011</u>		Email Address: <u>alederman@fandf.com</u>	
Project Name/Number: <u>DC General ADA Assessment</u>			
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order: _____ U.S. State Samples Taken: _____	

Turnaround Time (TAT) Options* – Please Check

3 Hours
 6 Hours
 24 Hrs
 48 Hrs
 3 Days
 4 Days
 5 Days
 10 Days

*For TEM Air 3 hours/6 hours, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)	TEM - Air <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative) Other: <input type="checkbox"/>
---	--	---

Check For Positive Stop – Clearly Identify Homogenous Group

Samplers Name: _____	Samplers Signature: _____
----------------------	---------------------------

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled

Client Sample # (s): <u>DC General -01</u>	- <u>DC-General-14</u>	Total # of Samples: <u>14</u>
Relinquished (Client): <u>[Signature]</u>	Date: <u>3/19/10</u>	Time: <u>12:00 PM</u>
Received (Lab): <u>[Signature]</u>	Date: <u>3/22/10</u>	Time: <u>3:00 PM</u>
Comments/Special Instructions: <u>Drop Box</u>		



Asbestos Chain of Custody
EMSL Order Number (Lab Use Only):

EMSL ANALYTICAL, INC.
 10768 BALTIMORE AVE
 BELTSVILLE, MD 20705
 PHONE: (301) 937-5700
 FAX: (301) 937-5701

EMSL ANALYTICAL, INC.
 LABORATORY • PRODUCTS • TRAINING

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

stop
F
1
stop
1

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
DC General-01	9"x9" Green VFT w/ ^{White Flecks} Black Flecks / R.M. 4309		
DC General-02	Black Mastiz		
DC General-03	SKM Coat Ceiling Plaster		
DC General-04	"		
DC General-05	"		
DC General-06	Scratch Coat Ceiling Plaster		
DC General-07	"		
DC General-08	"		
DC General-09	Drywall		
DC General-10	Tan Couchbase Mastiz		
DC General-11	12"x12" White VFT		
DC General-12	Black Mastiz		
DC General-13	White Duct Seam Sealant / R.M. 4308		
DC General-14	Shower Pan Lining / 4 th Floor Bldg. 2 Restroom		
*Comments/Special Instructions:			



Asbestos Lab Services Chain of Custody

Beltsville, MD
 10768 Baltimore Avenue
 Beltsville, MD 20705
 PHONE: (301) 937-5700
 FAX: (301) 937-5701

EMSL Order Number (Lab Use Only):

191002414

Company: Froehling & Robertson		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 7798 Waterloo Road		Third Party Billing requires written authorization from third party	
City/State/Zip: Jessup, MD 20794			
Report To (Name): Alan Lederman		Fax: 443-733-1015	
Telephone: 443-733-1011		Email Address: alederman@fandr.com	
Project Name/Number: DC General ADA			

Please Provide Results: Email Purchase Order: State Samples Taken: DC

Turnaround Time (TAT) Options* - Please Check

3 Hour 6 Hour 24 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 Week

*For TEM Air 3 hours/6 hours, please call ahead to schedule. There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)	TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	TEM - Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) Soil/Rock/Vermiculite <input checked="" type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative) Other: <input type="checkbox"/>
---	--	--

Check For Positive Stop - Clearly Identify Homogenous Group

Samplers Name: _____ Samplers Signature: _____

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
DC General-15	Spray-On Fireproofing / Rm. 4308		
DC General-16	"		
DC General-17	"		
DC General-18	2'x4' White Ceiling Tile / Rm. 4308		
DC General-19	Skin Coat Wall Plaster / Rm. 4310		
DC General-20	"		
DC General-21	"		
DC General-22	Scratch Coat Wall Plaster / Rm. 4310		

Stop Positive
 Stop Positive
 Stop Positive

Client Sample # (s): DC General-15 - 38 Total # of Samples: 24

Relinquished (Client): *Alan Lederman* Date: 3/24/10 Time: 2:00 PM

Received (Lab): *S. Roworth* Date: 3/24/10 Time: 2 pm

Comments/Special Instructions: *will in*



Asbestos Lab Services Chain of Custody

EMSL Order Number (Lab Use Only):

91002414

Beltsville, MD
 10768 Baltimore Avenue
 Beltsville, MD 20705
 PHONE: (301) 937-5700
 FAX: (301) 937-5701

Stop Positive
 Stop Positive
 Stop Positive

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
DC General-23	Scratch Coat Wall Plaster / Rm. 436		
DC General-24	"		
DC General-25	Joint Compound / 15th Bldg. 3-4th Floor		
DC General-26	Vinyl Wall Covering Mastix / Rm. 215		
DC General-27	Pipe Insulation / Rm. 215		
28	"		
29	"		
30	Pipe fitting / Rm. 215		
31	"		
32	"		
33	DN Black Duct San Sealant / 5th Floor Hallway		
34	Joint Compound / Room 715		
35	Drywall / 1st Floor Elevator Lobby		
36	Joint Compound / 11		
37	White 2'x2' Ceiling Tile //		
38	Joint Compound / ACI 213		

Comments/Special Instructions:



APPENDIX B

LEAD BASED PAINT XRF AND PAINT CHIP RESULTS

Location	Lead (ppm)	Lead (mg/100g)
Room 101	100	0.10
Room 102	100	0.10
Room 103	100	0.10
Room 104	100	0.10
Room 105	100	0.10
Room 106	100	0.10
Room 107	100	0.10
Room 108	100	0.10
Room 109	100	0.10
Room 110	100	0.10
Room 111	100	0.10
Room 112	100	0.10
Room 113	100	0.10
Room 114	100	0.10
Room 115	100	0.10
Room 116	100	0.10
Room 117	100	0.10
Room 118	100	0.10
Room 119	100	0.10
Room 120	100	0.10
Room 121	100	0.10
Room 122	100	0.10
Room 123	100	0.10
Room 124	100	0.10
Room 125	100	0.10
Room 126	100	0.10
Room 127	100	0.10
Room 128	100	0.10
Room 129	100	0.10
Room 130	100	0.10
Room 131	100	0.10
Room 132	100	0.10
Room 133	100	0.10
Room 134	100	0.10
Room 135	100	0.10
Room 136	100	0.10
Room 137	100	0.10
Room 138	100	0.10
Room 139	100	0.10
Room 140	100	0.10
Room 141	100	0.10
Room 142	100	0.10
Room 143	100	0.10
Room 144	100	0.10
Room 145	100	0.10
Room 146	100	0.10
Room 147	100	0.10
Room 148	100	0.10
Room 149	100	0.10
Room 150	100	0.10

Reading No	Area	Component	Substrate	Condition	Color	Units	Action Level	PbC	PbC Error	LBP Y/N
1			CALIBRATION			mg / cm ^2	1	1.2	0.4	N/A
2			CALIBRATION			mg / cm ^2	1	1.2	1.4	N/A
3			CALIBRATION			mg / cm ^2	1	0.9	0.7	N/A
4	Room 4308	Door Frame	Metal	Good	Green	mg / cm ^2	1	0.02	0.26	No
5	Room 4308	Wall	Plaster	Fair	White	mg / cm ^2	1	0	0.03	No
6	Room 4308	Wall	Plaster	Fair	Green	mg / cm ^2	1	0	0.03	No
7	Room 4308	Radiator	Metal	Good	White	mg / cm ^2	1	0.01	0.1	No
8	Room 4308	Shower Tile	Ceramic	Good	Green	mg / cm ^2	1	1.3	0.7	Yes
9	Room 315	Wall Tile	Ceramic	Good	Green	mg / cm ^2	1	1.4	1.2	Yes
10	Room 315	Door Frame	Wood	Good	Brown	mg / cm ^2	1	0	0.03	No
11	Room 315	Door	Wood	Good	Brown	mg / cm ^2	1	0.01	0.08	No
12	Room 315	Baseboard	Wood	Good	White	mg / cm ^2	1	0.04	0.39	No
13	Room 315	Radiator	Metal	Poor	White	mg / cm ^2	1	0	0.04	No
14	Room 315	Radiator	Metal	Poor	White	mg / cm ^2	1	0	0.03	No
15	Room 315	Radiator	Metal	Poor	White	mg / cm ^2	1	0	0.04	No
16	Room 315	Shower Tile	Ceramic	Good	White	mg / cm ^2	1	0.03	0.17	No
17	Room 315	Ceiling	Plaster	Good	White	mg / cm ^2	1	0	0.05	No
18	Room 315	Floor Tile	Ceramic	Good	Green	mg / cm ^2	1	0	0.05	No
19	Room 215	Door Frame	Metal	Good	Brown	mg / cm ^2	1	0	0.03	No
20	Room 215	Wall Tile	Ceramic	Good	Cream	mg / cm ^2	1	0	0.05	No
21	Room 215	Radiator Case	Metal	Good	Brown	mg / cm ^2	1	0	0.04	No
22	Room 215	Shower Tile	Ceramic	Good	Tan	mg / cm ^2	1	0.1	0.45	No
23	Room 215	Urinal	Porcelain	Good	White	mg / cm ^2	1	0.02	0.12	No
24	Room 5307	Cabinets	Metal	Good	Green	mg / cm ^2	1	0	0.02	No
25	Room 5307	Door Frame	Metal	Good	Brown	mg / cm ^2	1	0.01	0.08	No
26	Room 5307	Door Frame	Metal	Good	White	mg / cm ^2	1	0	0.03	No
27	Room 5307	Door	Wood	Good	White	mg / cm ^2	1	0.24	0.36	No
28	Room 5307	Door Frame	Metal	Good	Pink	mg / cm ^2	1	0	0.03	No
29	Room 715	Radiator	Metal	Poor	White	mg / cm ^2	1	0.16	0.46	No
30	Room 715	Door Frame	Wood	Good	Purple	mg / cm ^2	1	0	0.02	No
31	Room 715	Door	Metal	Good	Purple	mg / cm ^2	1	0	0.04	No
32	Room 715	Floor Tile	Ceramic	Good	White	mg / cm ^2	1	0.1	0.54	No
33	Room 715	Floor Tile	Ceramic	Good	White	mg / cm ^2	1	0.13	0.97	No
34	Room 715	Wall Tile	Ceramic	Good	Green	mg / cm ^2	1	1.3	1.5	Yes
35	Room 404	Floor Tile	Ceramic	Good	Brown	mg / cm ^2	1	0	0.03	No
36	Room 404	Wall	Plaster	Good	White	mg / cm ^2	1	0.01	0.24	No
37	Room 610	Door Frame	Metal	Good	Purple	mg / cm ^2	1	0.07	0.34	No
38	Room 610	Door	Wood	Good	Brown	mg / cm ^2	1	0.01	0.06	No
39	Room 205	Wall	Plaster	Good	Tan	mg / cm ^2	1	-0.04	0.04	No
40	Room 205	Wall	Drywall	Good	Tan	mg / cm ^2	1	0	0.02	No
41	Room 205	Door Frame	Metal	Good	Brown	mg / cm ^2	1	0.01	0.04	No
42	Room 205	Door	Wood	Good	Purple	mg / cm ^2	1	0	0.02	No
43	Room 205	Ceiling	Drywall	Good	Tan	mg / cm ^2	1	0.14	0.64	No
44	Room ACI 127	Wall Tile	Ceramic	Good	Cream	mg / cm ^2	1	6.2	5.5	Yes
45	Room ACI 127	Door	Metal	Good	White	mg / cm ^2	1	0	0.02	No

Reading No	Area	Component	Substrate	Condition	Color	Units	Action Level	PbC	PbC Error	LBP Y/N
46	Room ACI 127	Door Frame	Metal	Good	White	mg / cm ^2	1	0	0.04	No
47	Room ACI 127	Floor Tile	Ceramic	Good	Gray	mg / cm ^2	1	0	0.03	No
Bldg. 29 1st Floor										
48	Elevator Lobby	Floor Tile	Ceramic	Good	Gray	mg / cm ^2	1	0	0.02	No
49			CALIBRATION			mg / cm ^2	1	1.2	0.4	N/A
50			CALIBRATION			mg / cm ^2	1	1.2	1.4	N/A
51			CALIBRATION			mg / cm ^2	1	0.9	0.7	N/A



EXPLANATION OF XRF DATA

The table header displays Inspector's name and license number, XL-309 serial number, the job site location, and sampling date.

<u>Column</u>	<u>Description</u>
Reading No	Consecutive sample numbers assigned by the instrument at testing time.
Site	Testing site location(s).
Component	The major building component being tested.
Substrate	The type of material underlying the painted coating.
Color	Color of the painted or varnished surface.
Result	Result of the test: NEG = negative POS = positive NULL = incomplete test / reading error
	<i>There is no inconclusive range for the Niton XL-309.</i>
Action Level	Concentration of lead defined as lead-based paint.
Pbc	Combined L and K-Shell x-ray readings of lead level.



EMSL Analytical, Inc.

10768 Baltimore Avenue, Beltsville, MD 20705

Phone: (301) 937-5700 Fax: (301) 937-5701 Email: beltsvillelab@emsl.com

Attn: **Alan Lederman**
Froehling & Robertson
7798 Waterloo Road
Jessup, MD 20794

Customer ID: FROE62
Customer PO:
Received: 03/24/10 2:00 PM
EMSL Order: 191002411

Fax: (443) 733-1015 Phone: (443) 733-1011
Project: **DC GENERAL ADA**

EMSL Proj:

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B*/7000B)

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
LB-01 4TH FLR RESTRM	0001	3/24/2010	3/25/2010	0.017 % wt

Joe Centifonti, Laboratory Manager
or other approved signatory

Reporting limit is 0.01 % wt. The QC data associated with these sample results included in this report meet the method quality control requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities.

* slight modifications to methods applied Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted

Samples analyzed by EMSL Analytical, Inc. 10768 Baltimore Avenue, BeltsvilleMD AIHA-LAP, LLC-ELLAP Lab 102891



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

191002411

EMSL ANALYTICAL,
10768 BALTIMORE
BELTSVILLE, MD 2
PHONE: (301) 937-5700
FAX: (301) 937-5701

Company: Froehling & Robertson
Street: 7798 Waterloo Road
City: Jessup State/Province: MD
Report To (Name): Alan Lederman
Telephone #: 443-733-1011

EMSL-Bill to: Same Different
If Bill to is Different note instructions in Comments**
Third Party Billing requires written authorization from third party
Zip/Postal Code: 20744 Country: US
Fax #: 443-733-1015
Email Address: alederman@fandr.com

Project Name/Number: DC General ADA

Please Provide Results: Fax Email Purchase Order: _____ U.S. State Samples Taken: _____

Turnaround Time (TAT) Options* - Please Check
 3 Hours 6 Hours 24 Hours 48 Hours 3 Days 4 Days 5 Days 10 Days

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input checked="" type="checkbox"/> mg/cm ² <input checked="" type="checkbox"/> % by wt.	SW846-7000B/7420 or AOAC 974.02	Flame Atomic Absorption	0.01%	<input checked="" type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES	0.5 µg/filter	<input type="checkbox"/>
Wipe* <input type="checkbox"/> ASTM <input type="checkbox"/> non ASTM <small>*if no box is checked, non-ASTM Wipe is assumed</small>	SW846-7000B/7420	Flame Atomic Absorption	10 µg/wipe	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	0.5 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7420/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7420	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-7421	Graphite Furnace AA	0.3 mg/kg (ppm)	<input type="checkbox"/>
	SW86-6010B or C	ICP-AES	1 mg/kg (ppm)	<input type="checkbox"/>
Wastewater	SM3111B or SW846-7000B/7420	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	1 mg/kg (ppm)	<input type="checkbox"/>
Drinking Water	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>

Other: _____

Preservation Method (Water): _____

Name of Sampler: _____

Signature of Sampler: _____

Sample #	Volume/Area	Location	Date/Time Sampled
LB-01	4 th Floor	Restroom	3/24/10

Client Sample #'s: 01

Total # of Samples: _____

Relinquished (Client): [Signature] Date: 3/24/10 Time: 2:00 PM

Received (Lab): [Signature] Date: 3/24/10 Time: 2 pm

Comments: walk in



APPENDIX C

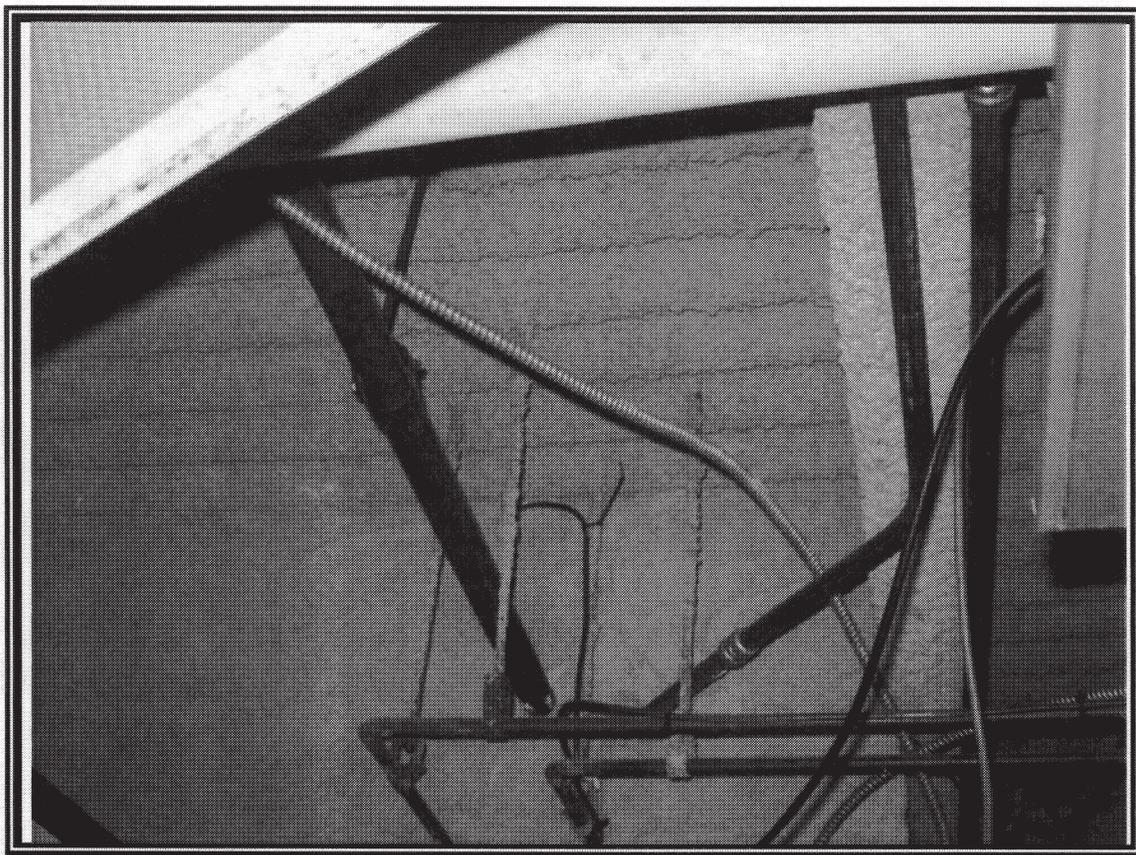
PHOTOGRAPHS



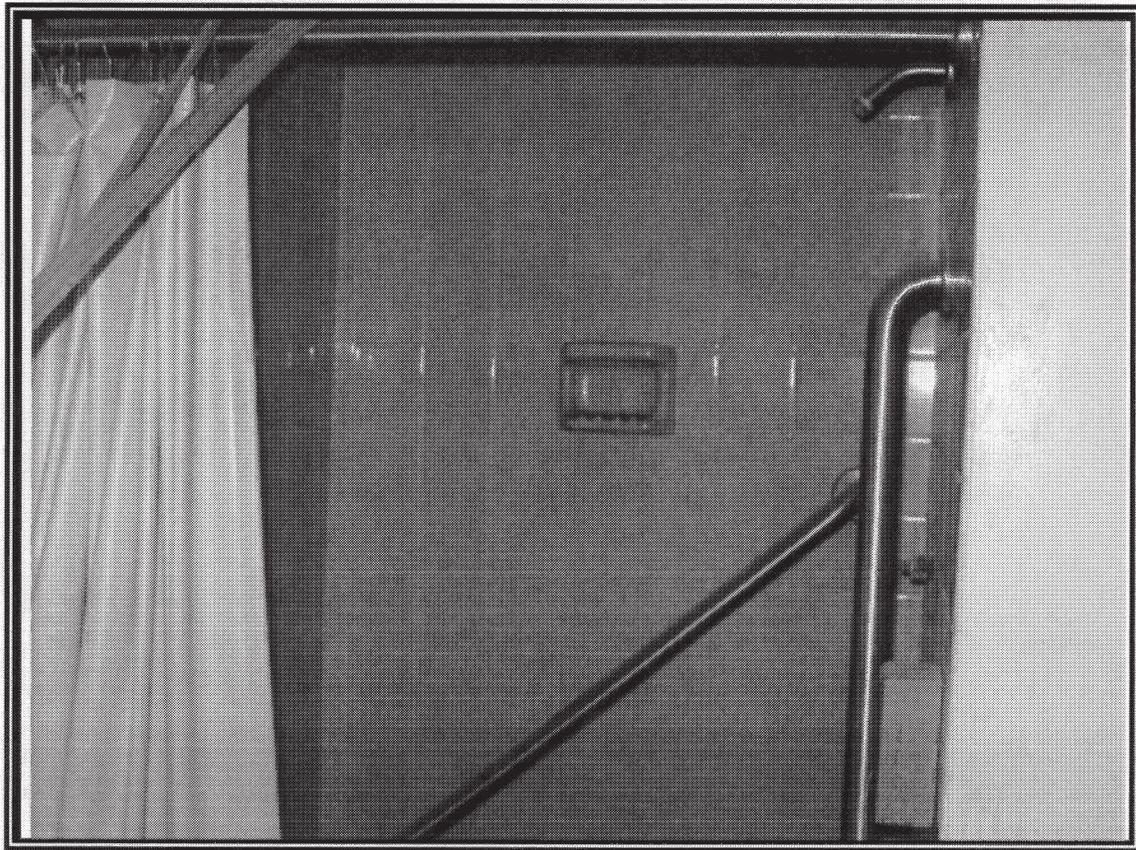
1. View of asbestos-containing 9"x9" green vinyl floor tile with white flecks.



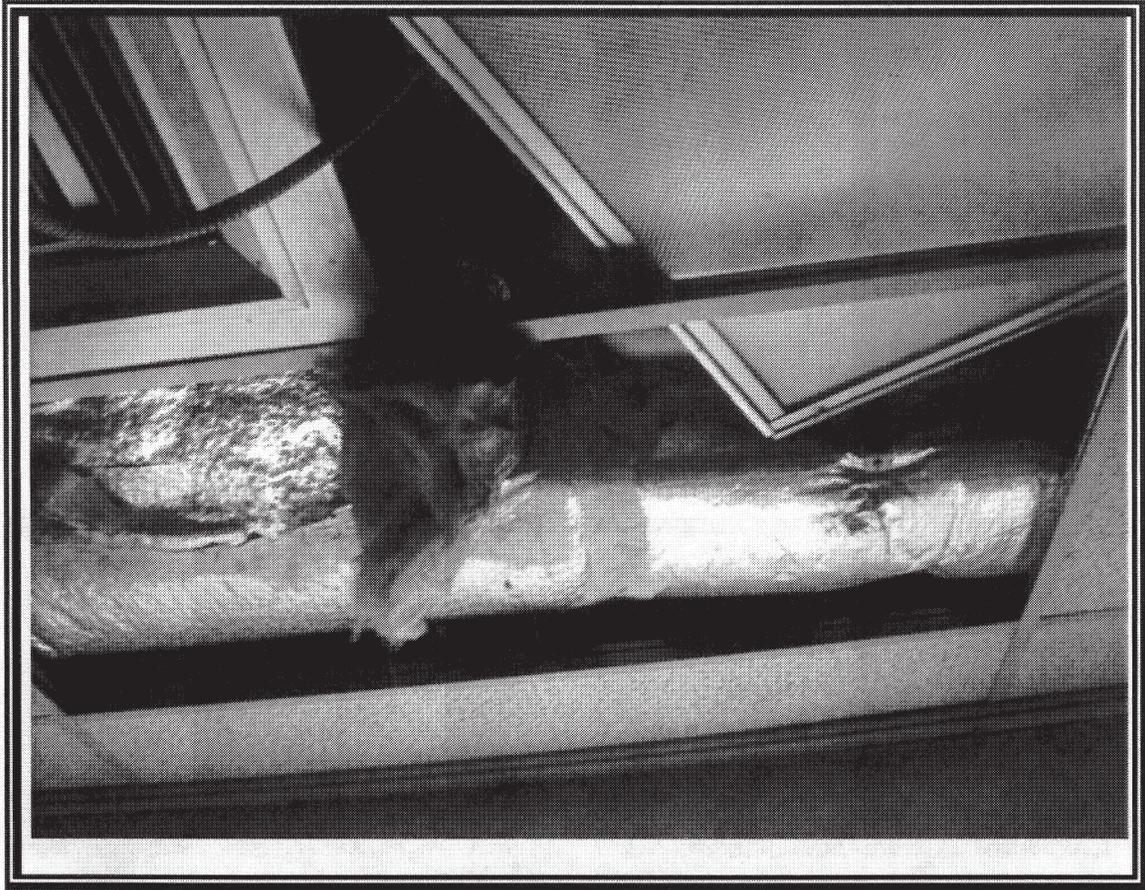
2. View of 12"x12" white vinyl floor tile with asbestos-containing black mastic.



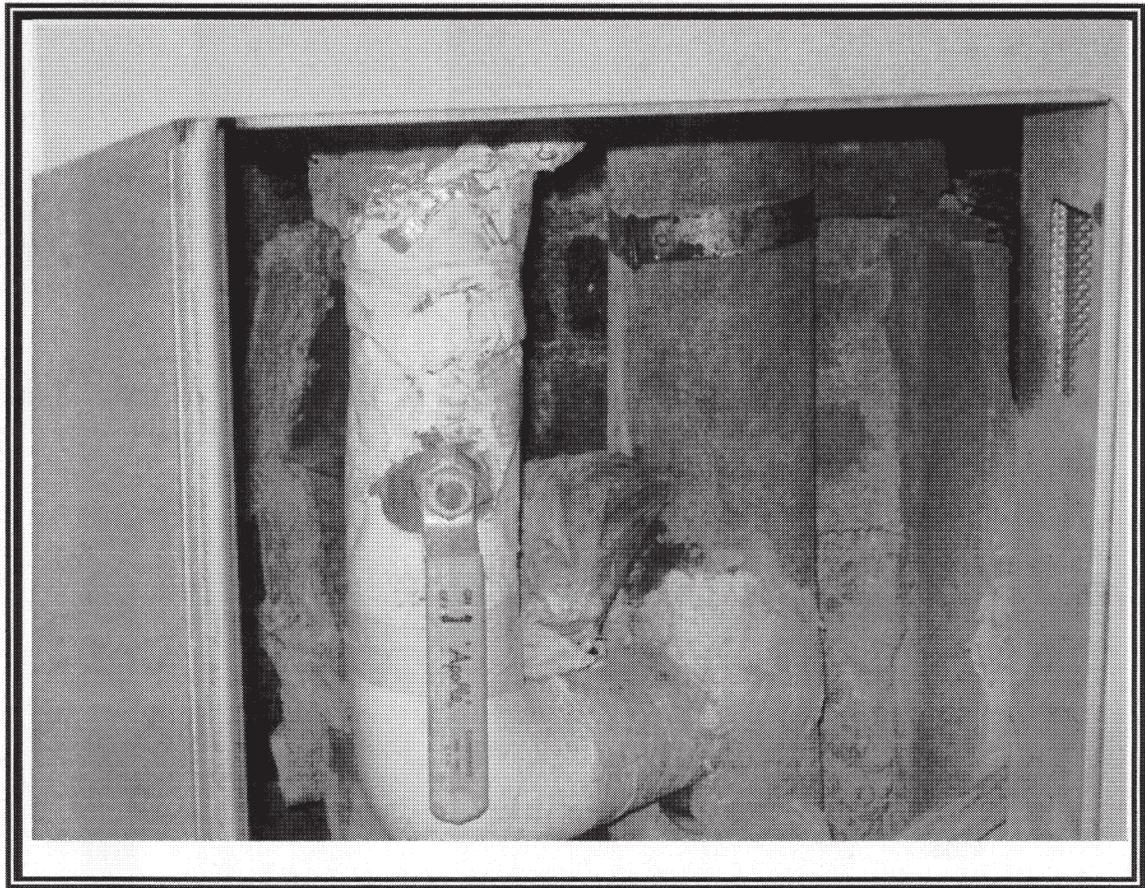
3. View of asbestos-containing gray spray-on fireproofing.



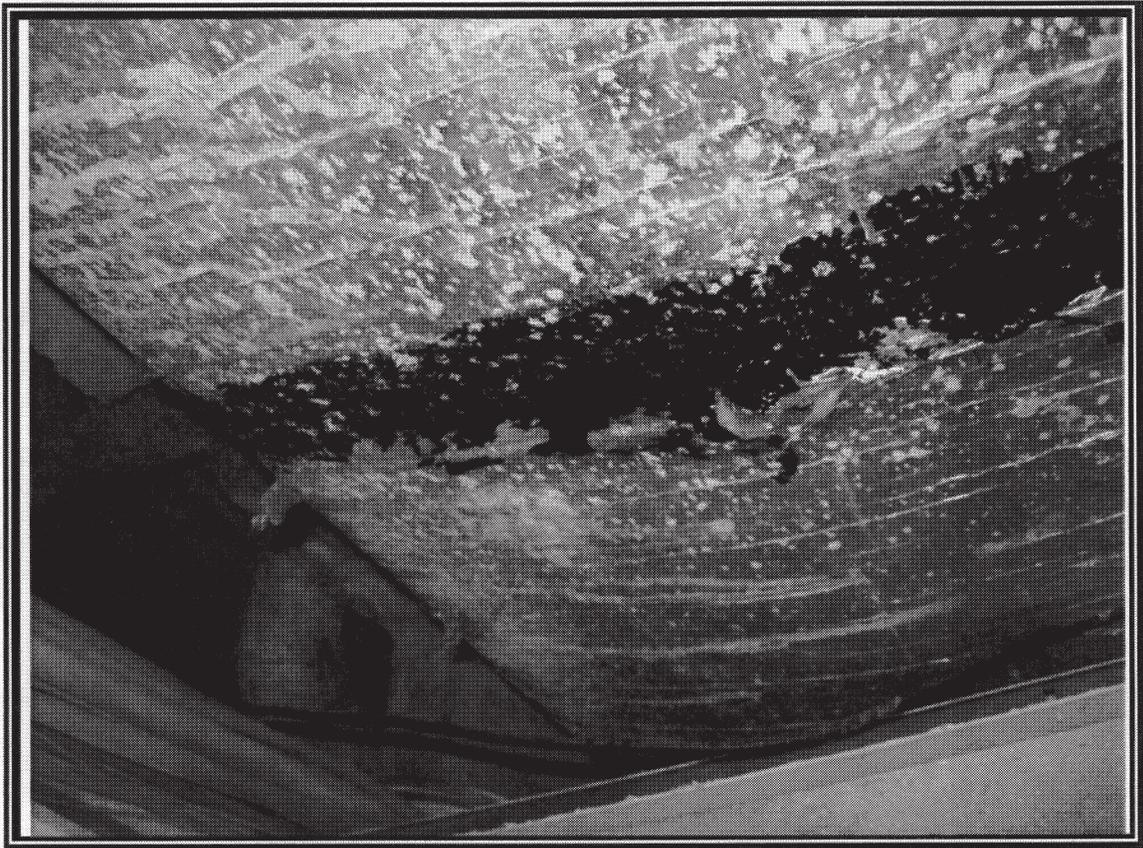
4. View of green ceramic shower tile with a lead-based glazing.



5. View of asbestos-containing white duct seam sealant.



6. View of asbestos-containing pipe and pipe fitting insulation.



7. View of asbestos-containing black duct seam sealant.