

**VOLUME II  
ASBESTOS CONTAINING MATERIAL &  
LEAD CONTAINING PAINT  
SURVEY REPORT  
BUILDING 62**



VISN 1  
**Bedford VA Medical Center**  
200 Springs Road  
Bedford, Massachusetts

Project No. 2009023.008

February 15, 2011



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## **ACKNOWLEDGMENT**

This Asbestos Containing Materials (ACM) and Lead Containing Paint (LCP) Building Survey Report was prepared for the Veterans Affairs (VA) New England Healthcare System (VISN 1) in accordance with an established scope of work as defined in Contract Number VA241-P-1653. The information presented herein is based on the facts and information conveyed to or received by Mabbett & Associates, Inc. (M&A) during the preparation of this report. If any of the information provided to M&A that was used in preparing this report is incorrect, incomplete, or subject to change, M&A would wish to alter its opinion(s) accordingly. In addition, the professional opinions and information contained in this report are based solely on the requirements of the applicable regulations and technical data as known to M&A as of the date of this report and considered applicable to this report.

This individual building report within Volume II, which contains building specific lead and asbestos findings, is part of the Comprehensive VAMC Lead and Asbestos Survey Report consisting of the following volumes:

### **Volume I - General**

Chapter 1 - Introduction and Executive Summary  
Chapter 2 - Asbestos Operations & Maintenance (O&M) Plan  
Chapter 3 - Asbestos Containing Materials (ACM) Survey Tables  
Chapter 4 - Lead Containing Paint Survey Tables

### **Volume II – Individual Building Reports**

Individual Building Reports Chapters including:

- Cover page with building number
- Building narrative summary
- Floor plans
- Relevant asbestos findings for the building
- Relevant lead containing paint findings for the building
- Relevant photos

### **Volume III – Appendices and Supporting Data**

Appendix A - Asbestos Laboratory Analysis Reports and Laboratory Certifications  
Appendix B - Inspector Field Data Sheets/Chains-of-Custody  
Appendix C - Personnel Certifications & Licenses  
Appendix D - XRF Performance Characteristics/Calibration Records  
Appendix E - Lead Laboratory Analysis Reports and Laboratory Certifications (If Applicable)

### **Volume IV – HUD Residential LBP Reports (If Applicable)**

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## TABLE OF CONTENTS

Description	Page
1.0 INTRODUCTION & EXECUTIVE SUMMARY .....	1
2.0 BUILDING DESCRIPTION .....	1
3.0 ASBESTOS SURVEY.....	1
3.1 Sampling Methodology .....	1
3.2 Analytical Methodology.....	3
3.3 Summary of Asbestos Containing Materials (ACM) Findings .....	3
4.0 LEAD SCREENING SURVEY .....	6
4.1 Screening Survey Methodology .....	6
4.2 Summary of Lead Screening Survey Findings.....	6
5.0 LIMITATIONS .....	8
6.0 CLOSING REMARKS.....	8
6.1 Asbestos.....	8
6.2 Lead Containing Paint .....	8

### Tables

Table 1 – Specific Inaccessible Areas .....	2
Table 2 – Summary of Positive ACM Samples .....	4
Table 3 – Summary of XRF Measurements Above VISN 1 Threshold of $>0.1 \text{ mg/cm}^2$ .....	6
Table 4 – Summary of ACM Building Survey Results, including negative results.....	Appendix A
Table 5 – Summary of XRF Measurements.....	Appendix B

### Figures

Figure 1 – Asbestos Survey Summary Plan - Building 62, Basement
Figure 2 – Asbestos Survey Summary Plan - Building 62, Floor 1
Figure 3 – Asbestos Survey Summary Plan - Building 62, Floor 2
Figure 4 – Asbestos Survey Summary Plan - Building 62, Attic
Figure 5 – Lead Survey Summary Plan - Building 62, Basement
Figure 6 – Lead Survey Summary Plan - Building 62, Floor 1
Figure 7 – Lead Survey Summary Plan - Building 62, Floor 2
Figure 8 – Lead Survey Summary Plan - Building 62, Attic

### Appendices

Appendix A – Table 4, Summary of ACM Building Survey Results, including negative results
Appendix B – Table 5, Summary of XRF Measurements
Appendix C – Representative Photographs of ACM
Appendix D – Representative Photographs of Non-Intact Lead Containing Paint

## 1.0 INTRODUCTION & EXECUTIVE SUMMARY

Mabbett and Associates, Inc. (M&A), with Covino Environmental Associates, Inc. (Covino) as sub-contractors, performed surveys for suspect asbestos containing building materials (ACM) and screenings of suspect lead containing paint (LCP) surfaces utilizing an X-Ray Fluorescence (XRF) analyzer. Surveys were performed of selected buildings at the VA Medical Center (VAMC) located at 200 Springs Road, Bedford, MA, under Contract VA241-P-1653. A complete list of buildings surveyed is in Volume I of this report. Site survey work was performed in July, 2010, by appropriately credentialed personnel as required. Collected suspect ACM samples were submitted to a certified analytical laboratory for asbestos analysis by polarized light microscopy (PLM) using positive stop methodology and transmission electron microscopy (TEM) where indicated. When necessary, paint chip samples were collected and submitted to a certified analytical laboratory for lead content analysis using atomic absorption spectroscopy. The survey effort involved the collection or screening of the following samples, resulting in the following conclusions:

- 136 bulk samples for suspect ACM were collected in this building.
- **Based on laboratory analysis of suspect ACM, 16 of the collected samples contained asbestos greater than or equal to 1%.**
- 97 XRF analyzer screening measurements of building surfaces were taken in this building.
- **Based on XRF screening measurements, 31 of the XRF measurements revealed concentrations of lead in paint that exceeded 0.1 milligram per square centimeter (mg/cm<sup>2</sup>).**

This building report consists of a summary of findings, floor plans that indicate positive sample locations, detailed analytical findings for the specific surveyed building materials, and photos of identified ACM and LCP, greater than 1.0 mg/cm<sup>2</sup> and in an other than intact condition. Laboratory certificates of analysis and field data sheets for this building report are available in Volume III of the Comprehensive VAMC Lead and Asbestos Survey Report.

## 2.0 BUILDING DESCRIPTION

According to information provided by the VAMC Office of Facilities Management and observations made by the M&A team at the time of the survey, Building 62 was a four-story Patient Care building built in 1939 and occupied approximately 46,968 square feet.

## 3.0 ASBESTOS SURVEY

### 3.1 Sampling Methodology

A visual screening inspection was conducted to identify locations of suspect ACM throughout the building by state licensed asbestos inspectors. Only areas that were accessible during the field work phase were inspected. Every effort was made during the initial field survey work to access areas as necessary to complete the survey; however, areas that remained inaccessible to the survey team are indicated in Table 1 below.

Table 1 – Specific Inaccessible Areas Bedford VA Medical Center, Building 62			
Building	Floor	Room No.	Reason Area Was Inaccessible and Survey Impacts, If Applicable
There were no inaccessible areas identified during this survey.			

Other general areas that were inaccessible or where the survey was limited to visual observation only are identified below:

- Within walls
- Enclosed pipe/duct chases
- Above fixed drywall or plaster ceilings
- Within fire doors
- Inside mechanical equipment/ductwork

Due to these access restrictions, ACM surveys should be performed prior to any proposed renovations or maintenance involving inaccessible areas.

Bulk samples were collected of suspect ACM in accordance with US Environmental Protection Agency (EPA) Asbestos Hazard and Emergency Response Act (AHERA) and VISN 1 approved M&A VISN 1 Survey Program Standard Operating Procedure (SOP). Roofing materials were not sampled unless otherwise indicated in order to maintain applicable warranties. Bulk suspect ACM sampling was conducted according to the following sampling plan:

(a) Surfacing material:

- (1) At least three bulk samples shall be collected from each homogeneous area that is 1,000 ft<sup>2</sup> or less.
- (2) At least five bulk samples shall be collected from each homogeneous area that is greater than 1,000 ft<sup>2</sup> but less than or equal to 5,000 ft<sup>2</sup>.
- (3) At least seven bulk samples shall be collected from each homogeneous area that is greater than 5,000 ft<sup>2</sup>.

(b) Thermal system insulation:

- (1) At least three bulk samples shall be collected from each homogeneous area of thermal system insulation.
- (2) At least one bulk sample shall be collected from each homogeneous area of patched area of thermal system insulation.
- (3) Sufficient samples shall be collected from elbows and fittings to determine if it contains ACM.
- (4) Bulk samples shall not be collected from any homogeneous area where the state licensed asbestos inspector determined that the thermal system insulation is fiberglass, foam glass, rubber, or other non-ACM.

(c) Miscellaneous material:

- (1) At least one bulk sample shall be collected from each homogeneous area that is less than 100 ft<sup>2</sup>.
- (2) At least three bulk samples shall be collected from each homogeneous area that is greater than 100 ft<sup>2</sup>.

### **3.2 Analytical Methodology**

The collected bulk samples were submitted under chain of custody procedures to ProScience Analytical Services, Inc. (ProScience) of Woburn, MA for polarized light microscopy (PLM) analysis of bulk materials using EPA Method 600/R-93/116. When required, sample results that revealed trace concentrations (greater than 0% but less than or equal to 1%) of asbestos by PLM were analyzed using transmission electron microscopy (TEM) analysis. ProScience is accredited by the American Industrial Hygiene Association (AIHA) and participates in the National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 200090-0). Duplicate bulk samples were submitted for PLM analysis to Covino. Covino is accredited by the American Industrial Hygiene Association (AIHA) and participates in the National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 101781-0). A summary table containing the duplicate bulk sample results is provided in Volume I, Chapter 1, Table 4. Copies of the laboratory accreditations are included in Volume III of the Comprehensive VAMC Lead and Asbestos Survey Report.

All bulk sample results are summarized in Table 4 – Summary of ACM Building Survey Results. The EPA, Occupational Safety and Health Administration (OSHA), and the Commonwealth of Massachusetts Division of Occupational Safety (DOS) defines any material that contains greater than one percent ( $>1\%$ ) asbestos as being an ACM. The Commonwealth of Massachusetts Department of Environmental Protection (DEP) defines any material that contains equal to or greater than one percent ( $\geq 1\%$ ) asbestos as being an ACM. As such, the analytical laboratory identified bulk samples as positive for asbestos that met the regulatory criteria of equal to or greater than one percent ( $\geq 1\%$ ) asbestos.

### **3.3 Summary of Asbestos Containing Materials (ACM) Findings**

#### **3.3.1 Data Tables, Laboratory Results, and Field Notes**

Collected bulk samples confirmed by the analytical laboratory to contain  $\geq 1\%$  asbestos are listed in Table 2 - Summary of Positive ACM Samples. Samples analyzed by PLM containing trace levels of asbestos, defined as greater than 0% but less than 1%, are listed in Table 4 with the TEM analysis results. Volume III of the Comprehensive VAMC Lead and Asbestos Survey Report includes copies of the laboratory certificates of analysis (including duplicate samples) and Inspector Data Sheets.

**Table 2 - Summary of Positive ACM Samples  
Bedford VA Medical Center, Building 62**

Sample No.	Sample Location	ACM Location	Description of Material	Percent and Type of Asbestos	Estimated Quantity		Condition	VISN 1 RISK Hazard Category 1-4*
					Amount	Units		
02A	B17	Throughout Building	12"x12" White With Black Fleck Floor Tile Mastic	2% Chrysotile	21,000	SF	Good	4
02B	232							
02C	131							
04A	B17	Room B17 - Office	12"x12" White With Gray Fleck Floor Tile Mastic	5% Chrysotile	270	SF	Good	4
04B								
04C								
06A	B17	Rooms B17, B33B, 219	Gray Sink Undercoating	10% Chrysotile	3	EA	Good	4
06B	B33B							
06C	219							
12A	B22	Throughout Building	12"x12" Tan With Brown Streaks Floor Tile	2% Chrysotile	4,000	SF	Good	4
12B	201B							
12C	150							
13A	B22	Throughout Building	12"x12" Tan With Brown Streaks Floor Tile Mastic	2% Chrysotile	4,000	SF	Good	4
13B	201B							
13C	150							
16A	B23	Room B23 - Boiler Room	White Duct Mastic	3% Chrysotile	100	LF	Good	4
16B								
16C								
28A	238	Throughout Building	Tan Duct Mastic	5% Chrysotile	11,000	SF	Good	4
28B	Attic							
28C	Attic							
31A	132	Room 132 - Closet	12"x12" Tan With Brown Fleck Floor Tile Mastic	5% Chrysotile	50	SF	Good	4
31B								
31C								
32A	144	Room 144 - Closet	9"x9" Tan With Brown Streaks Floor Tile	3% Chrysotile	50	SF	Good	4
32B								
32C								
33A	144	Room 144 - Closet	9"x9" Tan With Brown Streaks Floor Tile Mastic	5% Chrysotile	50	SF	Good	4
33B								
33C								
36A	Exterior	Attic Windows	Window Glazing	3% Chrysotile	80	LF	Good	4
36B								
36C								
37A	Attic	Attic	Stick Pin Adhesive	10% Chrysotile	100	SF	Good	4
37B								
37C								



**Table 2 - Summary of Positive ACM Samples  
Bedford VA Medical Center, Building 62**

Sample No.	Sample Location	ACM Location	Description of Material	Percent and Type of Asbestos	Estimated Quantity		Condition	VISN 1 RISK Hazard Category 1-4*
					Amount	Units		
38A	Exterior	Basement Windows	Black Window Caulking	5% Chrysotile	3,100	LF	Good	4
38B								
38C								
40A	Exterior	Exterior	White Door Caulking	5% Chrysotile	200	LF	Good	4
40B								
40C								
42A	Exterior	Exterior	Vent Caulking	3% Chrysotile	40	LF	Good	4
42B								
42C								
43A	Exterior	Exterior	White Brick Caulking	5% Chrysotile	200	LF	Good	4
43B								
43C								
Footnotes: 1 - Analyzed by TEM				SF - Square Feet LF - Linear Feet EA - Each CF - Cubic Feet				

\* The VISN 1 risk hazard assessment scale 1 – 4 is a relative indicator of the risk and need for response/remediation. (1) represents the highest priority (e.g. removal or encapsulation) whereas a (4) represents the lowest priority (monitor as part of 6 month O&M program). The rating assigned by an Asbestos Management Planner, takes into account: condition, friable vs. non-friable, accessibility, occupancy (e.g. continuous, intermittent or occasional and patients/staff/visitors), potential for air erosion, potential for vibration damage, potential for disturbance/damage (e.g. exposed and in an accessible location), and potential for water damage.

### 3.3.2 Photographs

Representative photographs of identified ACM are provided in Appendix C of this report.

### 3.3.3 CADD Drawings

The location of each collected bulk sample and its abridged sample ID is shown on the CADD drawings in the Figures Section of this report. The sample ID on the drawings has been abridged (by excluding the individual room number from the full sample ID) for aesthetic purposes. Each positive ACM sample location is colored red and marked with an asterisk (\*), while stop positives are marked with two asterisks (\*\*). Collected bulk samples that were not positive are identified solely by the abridged sample ID. Building areas containing ACM have been indicated with hatching to identify the location of the identified ACM.

## 4.0 LEAD SCREENING SURVEY

### 4.1 Screening Survey Methodology

M&A completed a Lead Containing Paint Risk Analysis in accordance with the SOP and determined that a LCP screening survey was warranted in this building. The LCP screening survey was performed by trained lead inspectors/screeners meeting the qualifications outlined in the SOP. The screening survey measured lead concentrations in accessible building surfaces by using a Niton XLp 303A XRF (serial number 18580). The XRF instrument was calibrated at the frequency specified in the SOP.

### 4.2 Summary of Lead Screening Survey Findings

#### 4.2.1 Data Tables

As specified by VISN 1, a description of XRF-screened painted interior and exterior building components containing lead at concentrations greater than 0.1 mg/cm<sup>2</sup> have been included in Table 3 below:

Table 3 - Summary of Positive XRF Measurements Bedford VA Medical Center, Building 62							
Reading No.	Floor	Location	Substrate and Component	Side	Condition	Color	Results (mg/cm <sup>2</sup> )
930	Attic	Main	Wood Window Casing	East	Intact	Gray	9
931	Attic	Main	Wood Window Sash	East	Intact	Gray	7.3
932	Attic	Main	Metal Column	East	Intact	Beige	6.7
938	Attic	Elev Machine	Metal Handrail	West	Intact	Yellow	0.18
940	Attic	Elev Machine	Metal Door	South	Intact	Brown	0.5
942	Attic	Elev Machine	Metal Tread	South	Intact	Gray	0.5
945	Attic	Stairwell	Metal Stringer	South	Intact	White	0.4
949	Attic	Stairwell	Metal Newel Post	West	Intact	White	0.5
950	Attic	Stairwell	Wood Door	West	Intact	Brown	0.7
954	Second	206-207	Metal Radiator Guard	North	Intact	White	3.8
958	Second	219	Metal Radiator Guard	North	Intact	White	5.3
973	Second	Stairwell	Metal Handrail	West	Intact	White	0.4
974	Second	Stairwell	Metal Riser	South	Intact	White	0.6
976	Second	Stairwell	Metal Newel Post	East	Intact	White	0.7
977	Second	Stairwell	Metal Cage	East	Intact	White	2.9
981	First	141	Concrete Column	South	Intact	White	0.6
982	First	141	Metal Radiator Guard	South	Intact	White	7.4

Table 3 - Summary of Positive XRF Measurements Bedford VA Medical Center, Building 62							
Reading No.	Floor	Location	Substrate and Component	Side	Condition	Color	Results (mg/cm <sup>2</sup> )
989	First	124-125	Plaster Wall (Exterior)	West	Intact	Beige	1
990	First	124-125	Wood Door Casing	West	Intact	White	7.9
991	First	124-125	Metal Radiator Guard	West	Intact	White	7.7
998	First	119	Metal Radiator Guard	South	Intact	Green	3
1015	Basement	Corridor	Plaster Wall (Interior)	West	Intact	White	0.21
1016	Basement	Corridor	Wood Door	West	Intact	Gray	0.6
1017	Basement	Corridor	Metal Door Casing	West	Intact	Gray	1.6
1020	Basement	Exterior	Wood Door Casing	East	Intact	Gray	16.8
1021	Basement	Exterior	Metal Lintel	South	Intact	Gray	14.9
1023	Basement	Exterior	Concrete Tread	South	Fair	Yellow	2
1026	Basement	Exterior	Metal Lintel	North	Intact	Beige	21.6
1027	First	Exterior	Metal Handrail	East	Intact	Brown	3
1028	First	Exterior	Wood Door Casing	East	Intact	Beige	10.9
1033	Basement	Exterior	Metal Window Casing	West	Intact	Beige	14.5

In addition, XRF measurements collected during the screening survey of interior and exterior building components are included in Table 5 – Summary of XRF Measurements. Table 5 includes a description of each screened surface and resulting XRF-measured lead concentration.

#### 4.2.2 Photographs

Representative photographs of building materials greater than or equal to 1.0 mg/cm<sup>2</sup> and where in other than intact condition (e.g. fair, peeling, cracking) are provided in Appendix D of this report.

#### 4.2.3 CADD Drawings

Based on the results of the lead screening survey, a table of LCP components identified with > 0.1 mg/cm<sup>2</sup> lead content was developed. This table is presented on the CADD drawings for use by the VAMC for exposure assessments and preliminary renovation planning. Based on the results of the survey, these components identified in the CADD table and on the plan should be assumed to be LCP unless otherwise determined.

## **5.0 LIMITATIONS**

This survey report is the result of a diligent search of the building for ACM and LCP. Only accessible areas were included in this survey. Although a comprehensive inspection was performed, M&A does not claim to have identified all of the ACM and LCP that could be present in the facility (for example, materials potentially located within aforementioned inaccessible areas discussed in Section 3.1). M&A's survey was performed with limitations inherent to visual inspections. M&A has conducted this assessment with reasonable care and has performed this project within generally accepted industry standards. There can be no assurances, and M&A makes no assurances, that the information, research, and technology used to prepare this report may not change in the future, thus affecting the results reported herein.

## **6.0 CLOSING REMARKS**

Prior to initiating plans for maintenance, renovation or demolition activities, the VAMC should review the asbestos and lead survey results to determine whether any of the materials identified as ACM or LCP will be disturbed by proposed work activities.

### **6.1 Asbestos**

The purpose of the ACM survey was to identify ACM in the building within the limitations of the survey for worker protection purposes and future renovation or demolition planning purposes. In regards to asbestos, any suspect material encountered during renovation/demolition that is not identified in this report as being non-ACM should be assumed to be ACM unless laboratory analytical data for bulk samples prove otherwise. Suspect ACM that may be present within the walls, above inaccessible hard ceilings, or in other inaccessible locations, and that accordingly was not inspected should be assumed to contain asbestos if discovered until otherwise verified, as previously described. If ACM must be disturbed, the ACM must be removed by a licensed asbestos abatement contractor and be performed in accordance with applicable regulations. If proposed work activities will not disturb intact ACM, continuous monitoring of ACM should be conducted throughout work activities to ensure the ACM remains in an intact condition. Additionally, prior to commencing work activities, personnel involved with the work activities should be made aware of the location of ACM, within the building in which they will be working. Additional information regarding asbestos management and the Operations & Maintenance (O&M) program is outlined in the VAMC campus wide Asbestos O&M Management Plan available in Volume I of the Comprehensive VAMC Lead and Asbestos Survey Report.

### **6.2 Lead Containing Paint**

The purpose of the LCP screening survey was to identify patterns of LCP. For the purpose of this LCP screening survey, representative interior and exterior building components were tested. The regulations addressing LCP in non-residential buildings are focused on protecting workers involved with paint disturbing activities and related waste disposal activities.

Worker protection is regulated by OSHA regulations as well as applicable state regulations. These regulations involve air monitoring of workers to determine exposure levels when disturbing paint containing measurable lead. A LCP determination cannot determine a safe level of lead, but is

intended to provide guidance as to the locations of where LCP is present. VA employees and contractors may use this information to better determine exposures of workers to airborne lead by understanding the different concentrations of lead paint on representative components and surfaces. Worker exposure controls can then be implemented and air monitoring can then be performed during activities that disturb paint on representative surfaces.

A concentration of lead greater than or equal to  $1.0 \text{ mg/cm}^2$  exceeds HUD residential standards and is an indicator of risk. OSHA does not specify a safe concentration of LCP. However, for the purposes of this LCP screening survey a lead concentration greater than  $0.1 \text{ mg/cm}^2$  has been utilized as a threshold established by VISN 1 for areas where possible worker exposures may occur.

## Figures

NOTES:

- DRAWINGS DO NOT CLAIM TO IDENTIFY ALL OF THE ASBESTOS CONTAINING MATERIAL (ACM) PRESENT IN THE BUILDING AND SHOULD NOT BE THE SOLE BASIS FOR IDENTIFYING ACM FOR FUTURE RENOVATION OR DEMOLITION PROJECTS, ABATEMENT SPECIFICATIONS, ETC. M&A'S SURVEY WAS PERFORMED WITH LIMITATIONS INHERENT TO NON-DESTRUCTIVE VISUAL INSPECTIONS. ANY SUSPECT MATERIAL ENCOUNTERED DURING RENOVATION/DEMOLITION THAT IS NOT IDENTIFIED AS BEING NON-ACM SHOULD BE ASSUMED TO BE ACM UNLESS SAMPLE RESULTS PROVE OTHERWISE.
- IF APPLICABLE, PIPE AND FITTING LOCATIONS ARE DRAWN SCHEMATICALLY TO SHOW APPROXIMATE LOCATION AND ARE NOT TO SCALE.
- INACCESSIBLE OR ENCLOSED ASBESTOS CONTAINING MATERIAL MAY BE ASSUMED BASED ON INSPECTION AND CONFIRMATION OF PREVIOUS BUILDING SURVEYS.

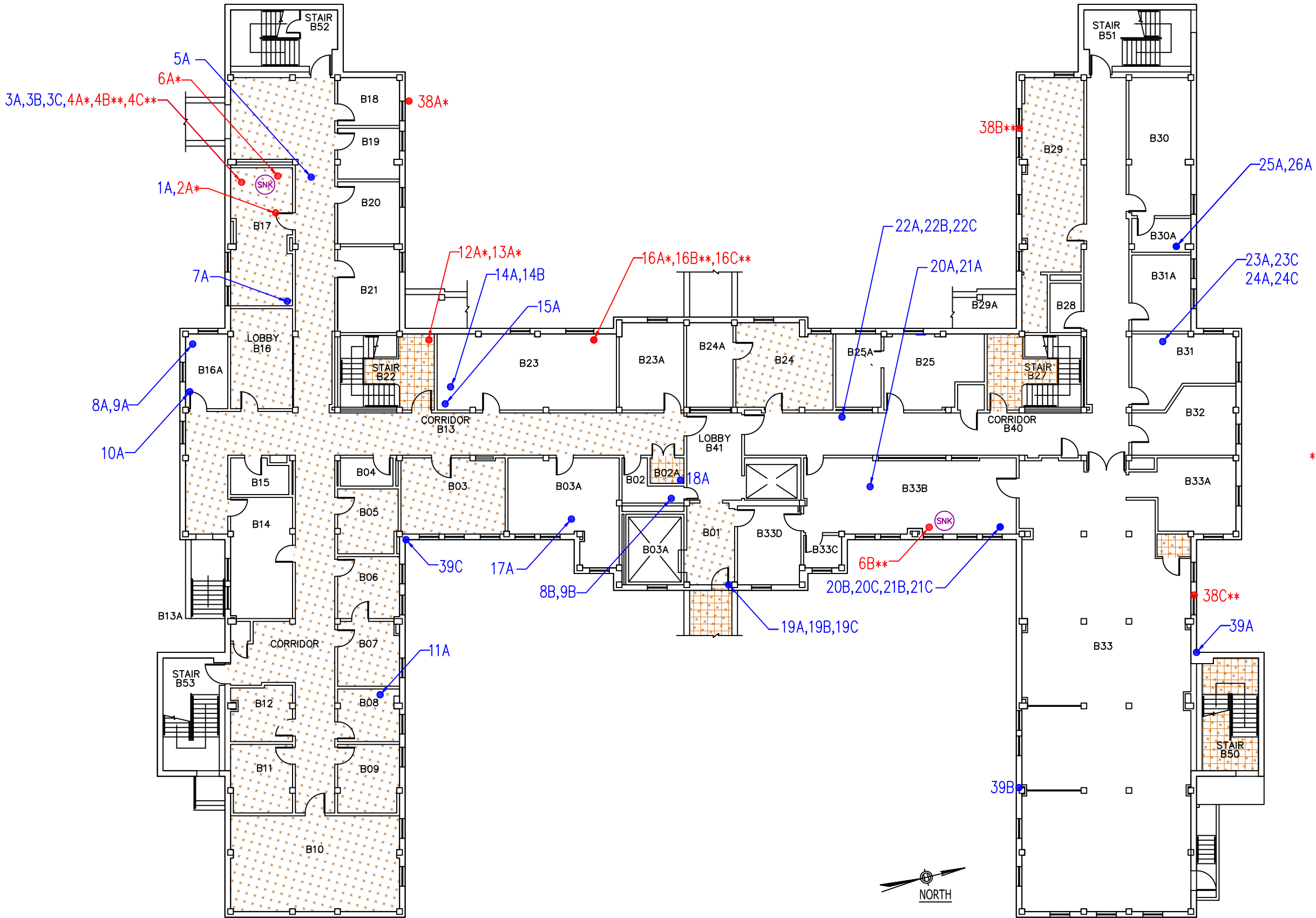
LEGEND

- 1,2 → APPROXIMATE SAMPLE LOCATION
- 25× SAMPLE GREATER THAN 1% ASBESTOS
- 25×× STOP POSITIVE SAMPLE FOR ASBESTOS
- 25 NO ASBESTOS DETECTED (NAD)
- HATCHED AREAS INDICATE POSITIVE DETECTION OF ASBESTOS CONTAINING BUILDING COMPONENTS
- 12"x12" FLOOR TILE
- 12"x12" FLOOR TILE MASTIC
- (SNK) ACM SINK UNDERCOAT



\*EXTERIOR WINDOW CAULKING IS ACM\*

\*EXTERIOR DOOR CAULKING IS ACM\*

\*EXTERIOR VENT & BRICK CAULKING IS ACM\*







ASBESTOS SURVEY SUMMARY PLAN

Drawing Title BUILDING 62 Floor BASEMENT	Project Title ASBESTOS SURVEY			DATE OCTOBER 2010	
				PROJ. NO. 2009023.008	
	Building Number 62	CHECKED	DRAWN CAL	DWG. NO. 1	
SCALE: NOT TO SCALE	Location BEDFORD			Dwg. 1 OF 1	





NOTES:

- DRAWINGS DO NOT CLAIM TO IDENTIFY ALL OF THE ASBESTOS CONTAINING MATERIAL (ACM) PRESENT IN THE BUILDING AND SHOULD NOT BE THE SOLE BASIS FOR IDENTIFYING ACM FOR FUTURE RENOVATION OR DEMOLITION PROJECTS, ABATEMENT SPECIFICATIONS, ETC. M&A'S SURVEY WAS PERFORMED WITH LIMITATIONS INHERENT TO NON-DESTRUCTIVE VISUAL INSPECTIONS. ANY SUSPECT MATERIAL ENCOUNTERED DURING RENOVATION/DEMOLITION THAT IS NOT IDENTIFIED AS BEING NON-ACM SHOULD BE ASSUMED TO BE ACM UNLESS SAMPLE RESULTS PROVE OTHERWISE.
- IF APPLICABLE, PIPE AND FITTING LOCATIONS ARE DRAWN SCHEMATICALLY TO SHOW APPROXIMATE LOCATION AND ARE NOT TO SCALE.
- INACCESSIBLE OR ENCLOSED ASBESTOS CONTAINING MATERIAL MAY BE ASSUMED BASED ON INSPECTION AND CONFIRMATION OF PREVIOUS BUILDING SURVEYS.

LEGEND

- 1,2  APPROXIMATE SAMPLE LOCATION
- 25\*  SAMPLE GREATER THAN 1% ASBESTOS
- 25\*\*  STOP POSITIVE SAMPLE FOR ASBESTOS
- 25  NO ASBESTOS DETECTED (NAD)

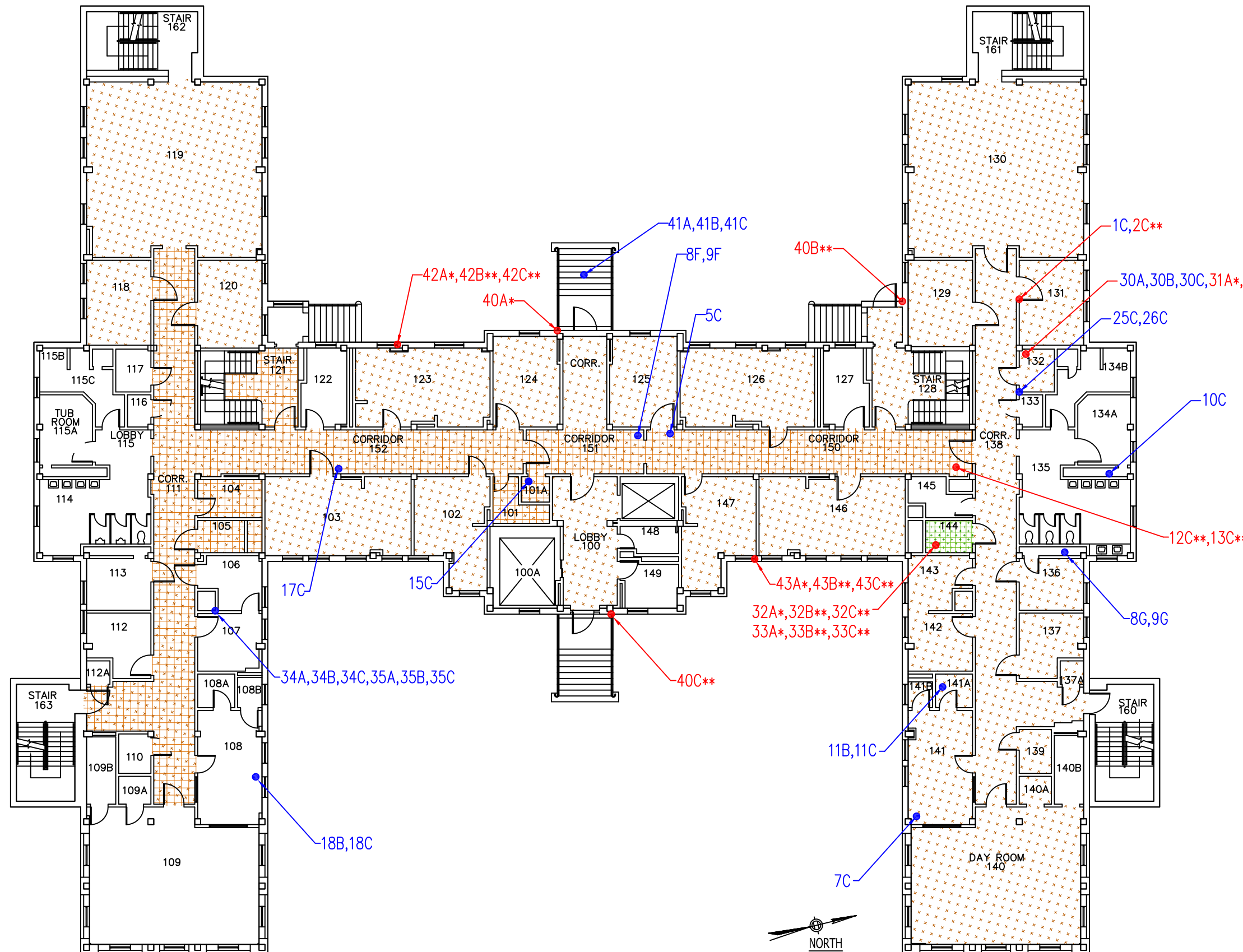
HATCHED AREAS INDICATE POSITIVE DETECTION OF ASBESTOS CONTAINING BUILDING COMPONENTS

-  12"x12" FLOOR TILE
-  12"x12" FLOOR TILE MASTIC
-  9"x9" FLOOR TILE
-  9"x9" FLOOR TILE MASTIC


\*EXTERIOR WINDOW CAULKING IS ACM\*

\*EXTERIOR DOOR CAULKING IS ACM\*

\*EXTERIOR VENT & BRICK CAULKING IS ACM\*



# ASBESTOS SURVEY SUMMARY PLAN





Drawing Title BUILDING 62  Floor FIRST FLOOR	Project Title ASBESTOS SURVEY			DATE OCTOBER 2010	
				PROJ. NO. 2009023.008	
	Building Number 62	CHECKED	DRAWN CAL	DWG. NO.  2	
SCALE: NOT TO SCALE	Location BEDFORD			Dwg. 1 OF 1	



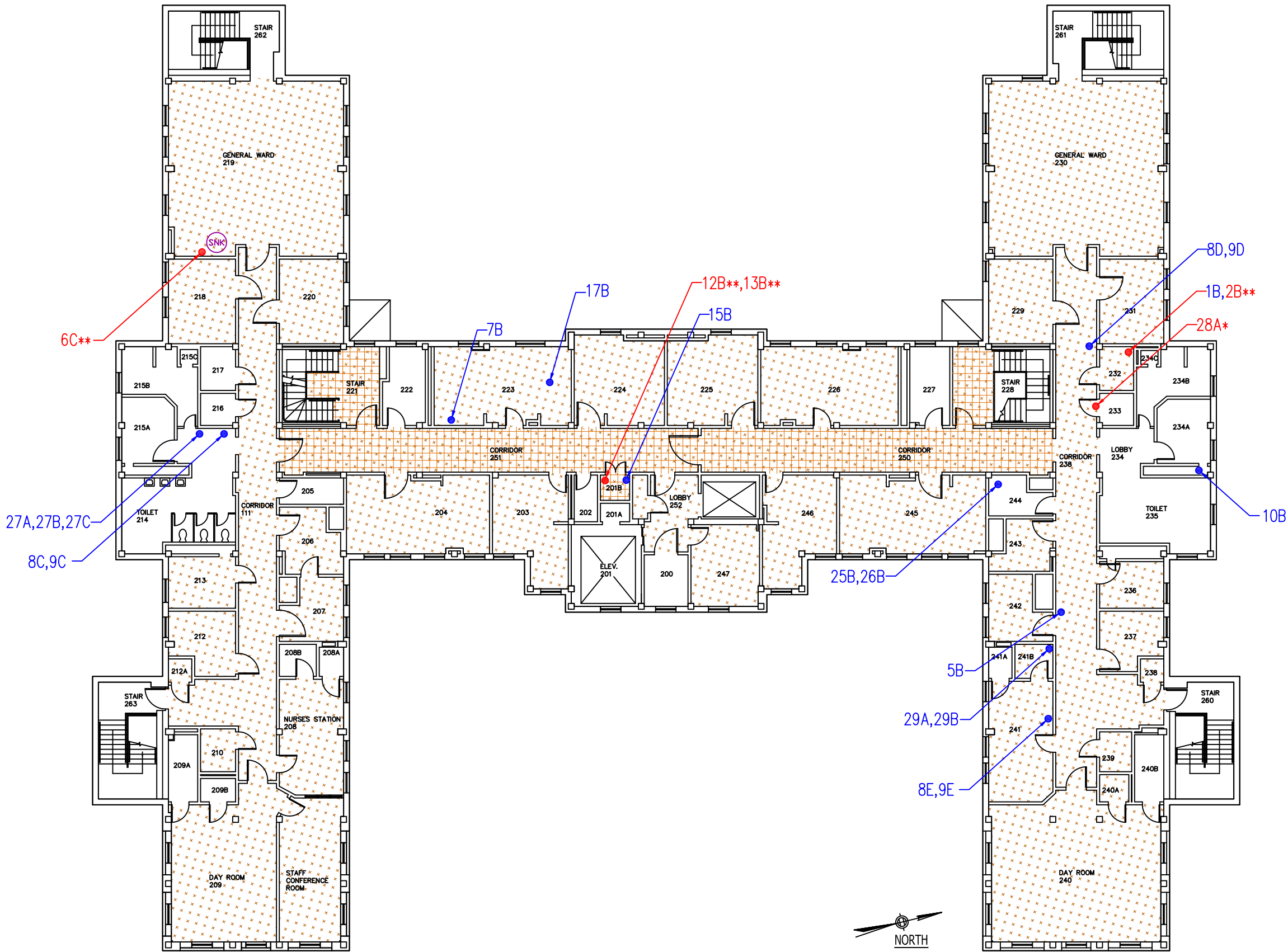
NOTES:

1. DRAWINGS DO NOT CLAIM TO IDENTIFY ALL OF THE ASBESTOS CONTAINING MATERIAL (ACM) PRESENT IN THE BUILDING AND SHOULD NOT BE THE SOLE BASIS FOR IDENTIFYING ACM FOR FUTURE RENOVATION OR DEMOLITION PROJECTS, ABATEMENT SPECIFICATIONS, ETC. M&A'S SURVEY WAS PERFORMED WITH LIMITATIONS INHERENT TO NON-DESTRUCTIVE VISUAL INSPECTIONS. ANY SUSPECT MATERIAL ENCOUNTERED DURING RENOVATION/DEMOLITION THAT IS NOT IDENTIFIED AS BEING NON-ACM SHOULD BE ASSUMED TO BE ACM UNLESS SAMPLE RESULTS PROVE OTHERWISE.
2. IF APPLICABLE, PIPE AND FITTING LOCATIONS ARE DRAWN SCHEMATICALLY TO SHOW APPROXIMATE LOCATION AND ARE NOT TO SCALE.
3. INACCESSIBLE OR ENCLOSED ASBESTOS CONTAINING MATERIAL MAY BE ASSUMED BASED ON INSPECTION AND CONFIRMATION OF PREVIOUS BUILDING SURVEYS.

LEGEND

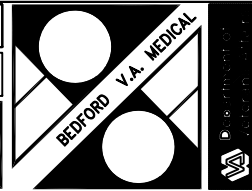
- 1,2  APPROXIMATE SAMPLE LOCATION
- 25\* SAMPLE GREATER THAN 1% ASBESTOS
- 25\*\* STOP POSITIVE SAMPLE FOR ASBESTOS
- 25 NO ASBESTOS DETECTED (NAD)
- HATCHED AREAS INDICATE POSITIVE DETECTION OF ASBESTOS CONTAINING BUILDING COMPONENTS
-  12"x12" FLOOR TILE
-  12"x12" FLOOR TILE MASTIC
-  ACM SINK UNDERCOAT

- \*EXTERIOR WINDOW CAULKING IS ACM\*
- \*EXTERIOR DOOR CAULKING IS ACM\*
- \*EXTERIOR VENT & BRICK CAULKING IS ACM\*



ASBESTOS SURVEY SUMMARY PLAN

Drawing Title BUILDING 62  Floor SECOND FLOOR	Project Title ASBESTOS SURVEY			DATE OCTOBER 2010
				PROJ. NO. 2009023.008
	Building Number 62	CHECKED	DRAWN CAL	DWG. NO.  3
SCALE: NOT TO SCALE	Location BEDFORD			Dwg. 1 OF 1



NOTES:

- DRAWINGS DO NOT CLAIM TO IDENTIFY ALL OF THE ASBESTOS CONTAINING MATERIAL (ACM) PRESENT IN THE BUILDING AND SHOULD NOT BE THE SOLE BASIS FOR IDENTIFYING ACM FOR FUTURE RENOVATION OR DEMOLITION PROJECTS, ABATEMENT SPECIFICATIONS, ETC. M&A'S SURVEY WAS PERFORMED WITH LIMITATIONS INHERENT TO NON-DESTRUCTIVE VISUAL INSPECTIONS. ANY SUSPECT MATERIAL ENCOUNTERED DURING RENOVATION/DEMOLITION THAT IS NOT IDENTIFIED AS BEING NON-ACM SHOULD BE ASSUMED TO BE ACM UNLESS SAMPLE RESULTS PROVE OTHERWISE.
- IF APPLICABLE, PIPE AND FITTING LOCATIONS ARE DRAWN SCHEMATICALLY TO SHOW APPROXIMATE LOCATION AND ARE NOT TO SCALE.
- INACCESSIBLE OR ENCLOSED ASBESTOS CONTAINING MATERIAL MAY BE ASSUMED BASED ON INSPECTION AND CONFIRMATION OF PREVIOUS BUILDING SURVEYS.

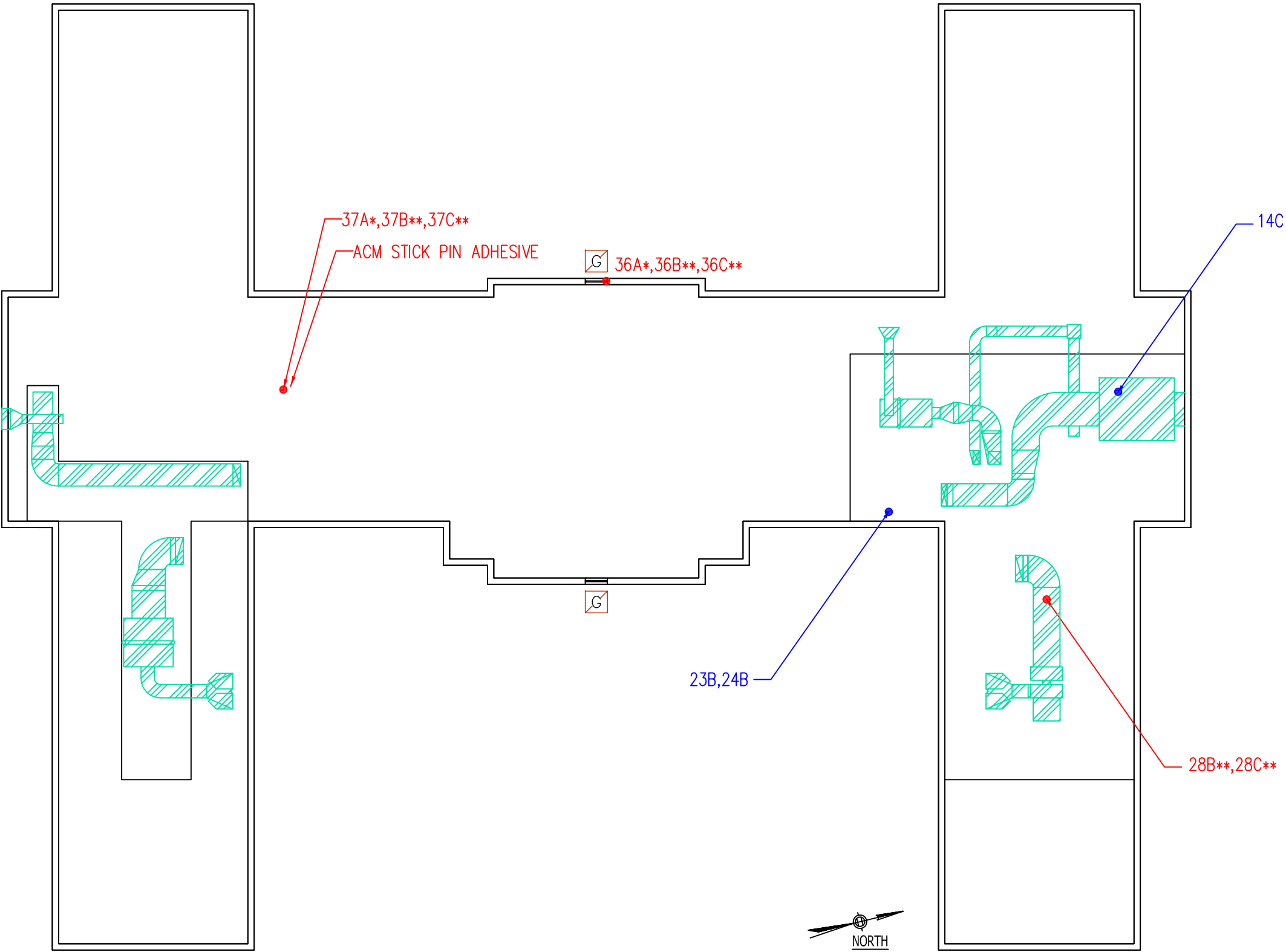
LEGEND

- 1,2 ↘ APPROXIMATE SAMPLE LOCATION
- 25× SAMPLE GREATER THAN 1% ASBESTOS
- 25×× STOP POSITIVE SAMPLE FOR ASBESTOS
- 25 NO ASBESTOS DETECTED (NAD)

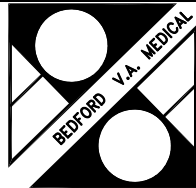
HATCHED AREAS INDICATE POSITIVE DETECTION OF ASBESTOS CONTAINING BUILDING COMPONENTS

- ACM DUCT MASTIC
- ACM WINDOW GLAZING

- \*EXTERIOR WINDOW CAULKING IS ACM\*
- \*EXTERIOR DOOR CAULKING IS ACM\*
- \*EXTERIOR VENT & BRICK CAULKING IS ACM\*



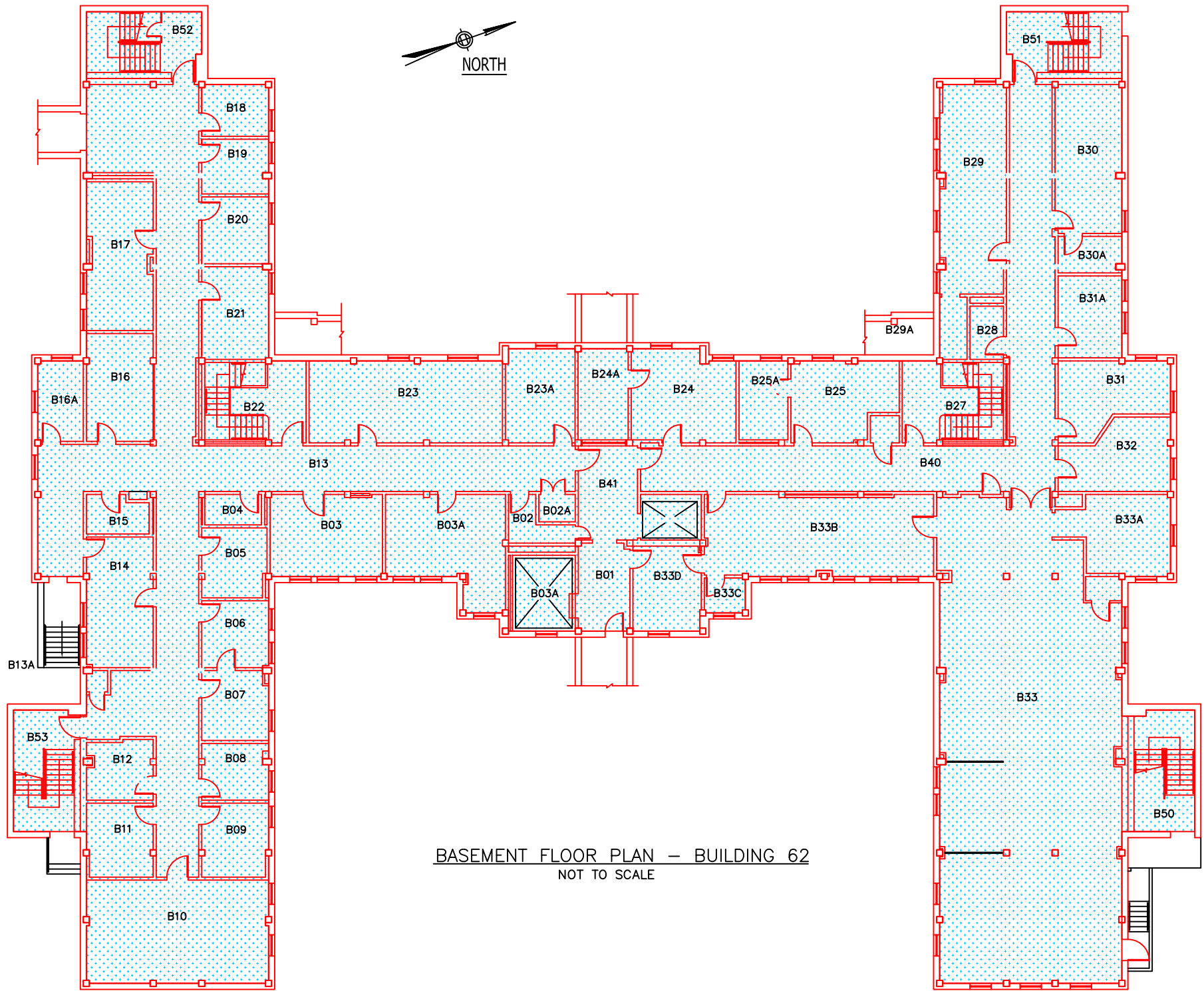
ASBESTOS SURVEY SUMMARY PLAN

Drawing Title BUILDING 62		Project Title ASBESTOS SURVEY		DATE OCTOBER 2010		
Floor ATTIC				PROJ. NO. 2009023.008		
		Building Number 62	CHECKED	DRAWN CAL	DWG. NO. 4	
SCALE: NOT TO SCALE		Location BEDFORD		Dwg. 1 OF 1		

PLEASE SEE THE SAFETY OFFICE PRIOR TO PERFORMING MAINTENANCE/RENOVATION ACTIVITIES ON ANY OF THE FOLLOWING COMPONENTS IN HATCHED AREAS.

These Building Components Depicted in Red Are Assumed To Contain Lead Containing Paint (LCP) at Greater Than 0.1 mg/cm<sup>2</sup> unless otherwise determined.

COMPONENT	SUBSTRATE	SYMBOL
COLUMN	CONCRETE, METAL	□
DOOR	METAL, WOOD	↷
DOOR CASING	METAL, WOOD	↷
HANDRAILS	METAL	—
WALL	PLASTER (INTERIOR)	┌
WALL	PLASTER (EXTERIOR)	┐
WINDOW CASING	METAL, WOOD	≡
WINDOW SASH	WOOD	≡
NEWEL POST	METAL	└┐
STRINGER	METAL	└┐
TREAD	CONCRETE, METAL	▢
RISER	METAL	▢
If Present in the Hatched Area These Other Building Components Are Assumed To Be Lead Containing Paint (LCP) at Greater Than 0.1 mg/cm <sup>2</sup> unless otherwise determined.		SYMBOL
CAGE	METAL	▨
LINTEL	METAL	
RADIATOR GUARD	METAL	
Notes: 1. Components similar to those listed in the table above found in the hatched areas should be assumed to contain LCP for worker protection, maintenance, renovation, disposal etc. purposes unless otherwise determined by an approved method. 2. Lead-containing paint (LCP) screening measurements were collected using an XRF analyzer. For additional information and full screening results refer to the M&A Asbestos & LCP building report. 3. Users of this information should not rely on color alone to decide whether similar building components contain LCP. 4. Equipment, furniture, non structural items, and non-painted building components such as glazed tile, glazed block, stained or leaded glass, unpainted piping, etc. were not included in the survey and are not included in the table above but may contain.		



BASEMENT FLOOR PLAN – BUILDING 62  
NOT TO SCALE

# LEAD SURVEY SUMMARY PLAN

Drawing Title  
BUILDING 62  
Floor  
BASEMENT

Project Title  
LEAD SURVEY

DATE  
SEPTEMBER 2010

PROJ. NO.  
2009023.008

Building Number  
62

CHECKED  
WJP

DRAWN  
WJP

DWG. NO.  
5

Location  
BEDFORD

SCALE: NOT TO SCALE

Dwg. 1 OF 1



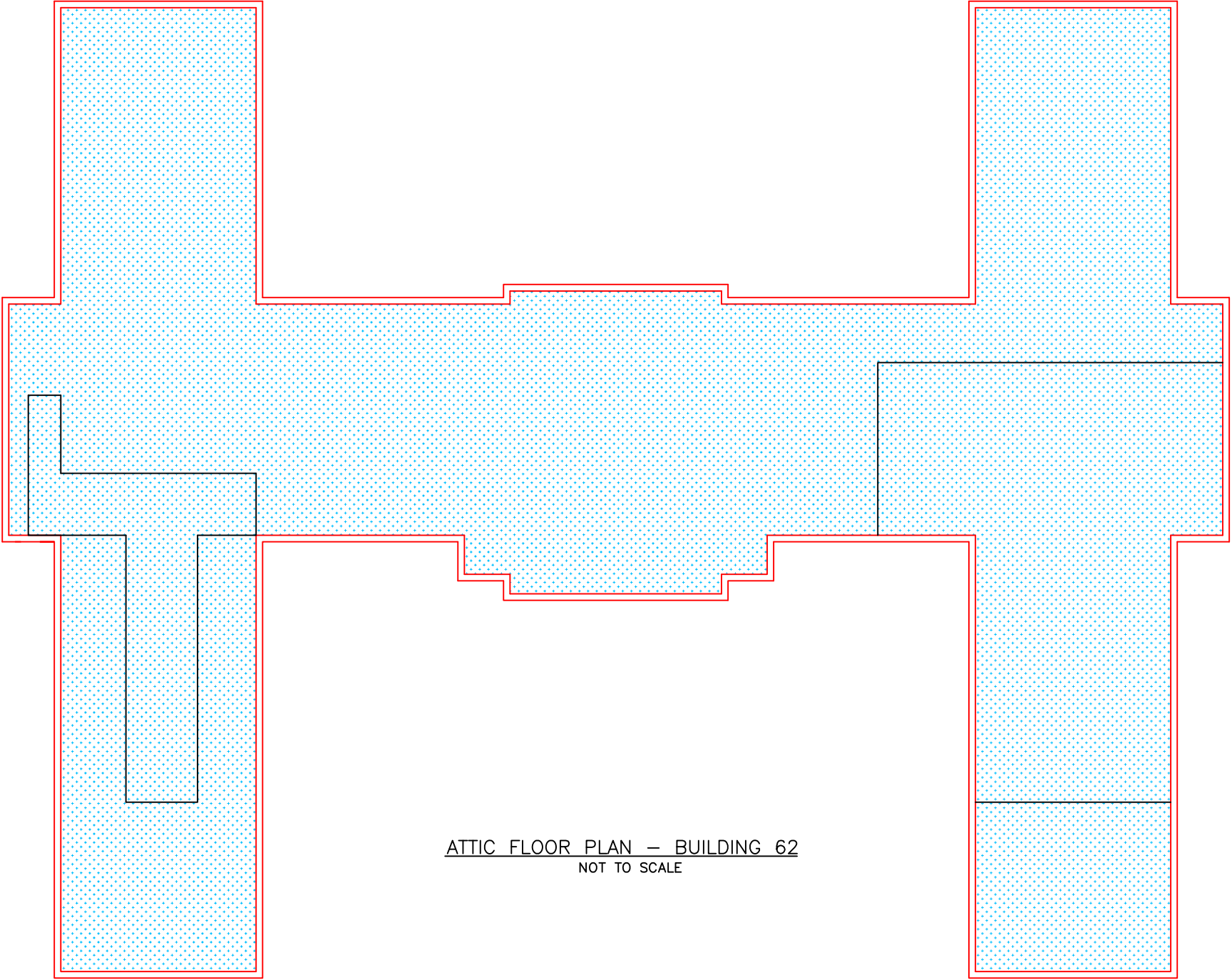








three inches = one foot  
One and one-half inches = one foot  
one inch = one foot  
three-quarters inch = one foot  
one-half inch = one foot  
one-half inch = one foot  
three-eighths inch = one foot  
one-quarter inch = one foot  
one-eighth inch = one foot



ATTIC FLOOR PLAN – BUILDING 62  
NOT TO SCALE

# LEAD SURVEY SUMMARY PLAN

PLEASE SEE THE SAFETY OFFICE PRIOR TO PERFORMING MAINTENANCE/RENOVATION ACTIVITIES ON ANY OF THE FOLLOWING COMPONENTS IN HATCHED AREAS.

These Building Components Depicted in **Red** Are Assumed To Contain Lead Containing Paint (LCP) at Greater Than 0.1 mg/cm<sup>2</sup> unless otherwise determined.

COMPONENT	SUBSTRATE	SYMBOL
COLUMN	CONCRETE, METAL	
DOOR	METAL, WOOD	
DOOR CASING	METAL, WOOD	
HANDRAILS	METAL	
WALL (INTERIOR)	PLASTER	
WALL (EXTERIOR)	PLASTER	
WINDOW CASING	METAL, WOOD	
WINDOW SASH	WOOD	
NEWEL POST	METAL	
STRINGER	METAL	
TREAD	CONCRETE, METAL	
RISER	METAL	

If Present in the Hatched Area These Other Building Components Are Assumed To Be Lead Containing Paint (LCP) at Greater Than 0.1 mg/cm <sup>2</sup> unless otherwise determined.		SYMBOL
CAGE	METAL	
LINTEL	METAL	
RADIATOR GUARD	METAL	

**Notes:**

- Components similar to those listed in the table above found in the hatched areas should be assumed to contain LCP for worker protection, maintenance, renovation, disposal, etc. purposes unless otherwise determined by an approved method.
- Lead-containing paint (LCP) screening measurements were collected using an XRF analyzer. For additional information and full screening results refer to the M&A Asbestos & LCP building report.
- Users of this information should not rely on color alone to decide whether similar building components contain LCP.
- Equipment, furniture, non structural items, and non-painted building components such as glazed tile, glazed block, stained or leaded glass, unpainted piping, etc. were not included in the survey and are not included in the table but may contain Lead.

## Appendix A

### Table 4 Summary of ACM Building Survey Results, including negative results

**Table 4 - Summary of ACM Building Survey Results  
Bedford VA Medical Center, Building 62**

Sample No.	Sample Location	ACM Location	Description of Material	Percent and Type of Asbestos	Estimated Quantity		Condition	VISN 1 RISK Hazard Category 1-4*
					Amount	Units		
01A	B17	-	12"x12" White With Black Fleck Floor Tile	NAD	-	-	-	-
01B	232	-	12"x12" White With Black Fleck Floor Tile	NAD	-	-	-	-
01C	131	-	12"x12" White With Black Fleck Floor Tile	NAD	-	-	-	-
02A	B17	Throughout Building	12"x12" White With Black Fleck Floor Tile Mastic	2% Chrysotile	21,000	SF	Good	4
02B	232	Throughout Building	12"x12" White With Black Fleck Floor Tile Mastic	Stop Positive See 02A				
02C	131	Throughout Building	12"x12" White With Black Fleck Floor Tile Mastic	Stop Positive See 02A				
03A	B17	-	12"x12" White With Gray Fleck Floor Tile	NAD	-	-	-	-
03B	B17	-	12"x12" White With Gray Fleck Floor Tile	NAD	-	-	-	-
03C	B17	-	12"x12" White With Gray Fleck Floor Tile	NAD	-	-	-	-
04A	B17	Room B17 - Office	12"x12" White With Gray Fleck Floor Tile Mastic	5% Chrysotile	270	SF	Good	4
04B	B17	Room B17 - Office	12"x12" White With Gray Fleck Floor Tile Mastic	Stop Positive See 04A				
04C	B17	Room B17 - Office	12"x12" White With Gray Fleck Floor Tile Mastic	Stop Positive See 04A				
05A	Hallway	-	2'x2' Fissured Ceiling Tile	NAD	-	-	-	-
05B	Hallway	-	2'x2' Fissured Ceiling Tile	NAD	-	-	-	-
05C	Hallway	-	2'x2' Fissured Ceiling Tile	NAD	-	-	-	-
06A	B17	Rooms B17, B33B, 219	Gray Sink Undercoating	10% Chrysotile	3	EA	Good	4
06B	B33B	Rooms B17, B33B, 219	Gray Sink Undercoating	Stop Positive See 06A				
06C	219	Rooms B17, B33B, 219	Gray Sink Undercoating	Stop Positive See 06A				
07A	B17	-	4" Cove Base Mastic	NAD	-	-	-	-
07B	223	-	4" Cove Base Mastic	NAD	-	-	-	-
07C	141	-	4" Cove Base Mastic	NAD	-	-	-	-
08A	B16A	-	Plaster Base Coat	NAD	-	-	-	-
08B	B02	-	Plaster Base Coat	NAD	-	-	-	-
08C	215	-	Plaster Base Coat	NAD	-	-	-	-
08D	238	-	Plaster Base Coat	NAD	-	-	-	-



**Table 4 - Summary of ACM Building Survey Results  
Bedford VA Medical Center, Building 62**

Sample No.	Sample Location	ACM Location	Description of Material	Percent and Type of Asbestos	Estimated Quantity		Condition	VISN 1 RISK Hazard Category 1-4*
					Amount	Units		
08E	241	-	Plaster Base Coat	NAD	-	-	-	-
08F	151	-	Plaster Base Coat	NAD	-	-	-	-
08G	136A	-	Plaster Base Coat	NAD	-	-	-	-
09A	B16A	-	Plaster Skim Coat	NAD	-	-	-	-
09B	B02	-	Plaster Skim Coat	NAD	-	-	-	-
09C	215	-	Plaster Skim Coat	NAD	-	-	-	-
09D	238	-	Plaster Skim Coat	NAD	-	-	-	-
09E	241	-	Plaster Skim Coat	NAD	-	-	-	-
09F	151	-	Plaster Skim Coat	NAD	-	-	-	-
09G	136A	-	Plaster Skim Coat	NAD	-	-	-	-
10A	B16A	-	Black Damp Proofing	NAD	-	-	-	-
10B	234A	-	Black Damp Proofing	NAD	-	-	-	-
10C	134A	-	Black Damp Proofing	NAD	-	-	-	-
11A	B08	-	White Sink Undercoating	NAD	-	-	-	-
11B	141A	-	White Sink Undercoating	NAD	-	-	-	-
11C	141A	-	White Sink Undercoating	NAD	-	-	-	-
12A	B22	Throughout Building	12"x12" Tan With Brown Streaks Floor Tile	2% Chrysotile	4,000	SF	Good	4
12B	201B	Throughout Building	12"x12" Tan With Brown Streaks Floor Tile	Stop Positive See 12A				
12C	150	Throughout Building	12"x12" Tan With Brown Streaks Floor Tile	Stop Positive See 12A				
13A	B22	Throughout Building	12"x12" Tan With Brown Streaks Floor Tile Mastic	2% Chrysotile	4,000	SF	Good	4
13B	201B	Throughout Building	12"x12" Tan With Brown Streaks Floor Tile Mastic	Stop Positive See 13A				
13C	150	Throughout Building	12"x12" Tan With Brown Streaks Floor Tile Mastic	Stop Positive See 13A				
14A	B23	-	Canvas Pipe Wrap	NAD	-	-	-	-
14B	B23	-	Canvas Pipe Wrap	NAD	-	-	-	-
14C	Attic	-	Canvas Pipe Wrap	NAD	-	-	-	-
15A	B23	-	Red Firestop	NAD	-	-	-	-
15B	201B	-	Red Firestop	NAD	-	-	-	-
15C	101A	-	Red Firestop	NAD	-	-	-	-
16A	B23	Room B23 - Boiler	White Duct Mastic	3% Chrysotile	100	LF	Good	4
16B	B23	Room B23 - Boiler	White Duct Mastic	Stop Positive See 16A				
16C	B23	Room B23 - Boiler	White Duct Mastic	Stop Positive See 16A				

**Table 4 - Summary of ACM Building Survey Results  
Bedford VA Medical Center, Building 62**

Sample No.	Sample Location	ACM Location	Description of Material	Percent and Type of Asbestos	Estimated Quantity		Condition	VISN 1 RISK Hazard Category 1-4*
					Amount	Units		
17A	B03	-	2'x4' Fissured Ceiling Tile	NAD	-	-	-	-
17B	223	-	2'x4' Fissured Ceiling Tile	NAD	-	-	-	-
17C	152	-	2'x4' Fissured Ceiling Tile	NAD	-	-	-	-
18A	B02A	-	6" Cove Base Mastic	ND <sup>1</sup>	-	-	-	-
18B	108	-	6" Cove Base Mastic	NAD	-	-	-	-
18C	108	-	6" Cove Base Mastic	NAD	-	-	-	-
19A	B01	-	Pink Firestop	NAD	-	-	-	-
19B	B01	-	Pink Firestop	NAD	-	-	-	-
19C	B01	-	Pink Firestop	NAD	-	-	-	-
20A	B33B	-	Tan Mosaic Sheet Flooring	NAD	-	-	-	-
20B	B33B	-	Tan Mosaic Sheet Flooring	NAD	-	-	-	-
20C	B33B	-	Tan Mosaic Sheet Flooring	NAD	-	-	-	-
21A	B33B	-	Tan Mosaic Sheet Flooring Mastic	NAD	-	-	-	-
21B	B33B	-	Tan Mosaic Sheet Flooring Mastic	NAD	-	-	-	-
21C	B33B	-	Tan Mosaic Sheet Flooring Mastic	NAD	-	-	-	-
22A	B40	-	Floor Leveling Compound	NAD	-	-	-	-
22B	B40	-	Floor Leveling Compound	NAD	-	-	-	-
22C	B40	-	Floor Leveling Compound	NAD	-	-	-	-
23A	B31	-	Drywall	NAD	-	-	-	-
23B	Attic	-	Drywall	NAD	-	-	-	-
23C	B31	-	Drywall	NAD	-	-	-	-
24A	B31	-	Joint Compound	NAD	-	-	-	-
24B	Attic	-	Joint Compound	NAD	-	-	-	-
24C	B31	-	Joint Compound	NAD	-	-	-	-
25A	B30A	-	Ceiling Plaster Base Coat	NAD	-	-	-	-
25B	244	-	Ceiling Plaster Base Coat	NAD	-	-	-	-
25C	132	-	Ceiling Plaster Base Coat	NAD	-	-	-	-
26A	B30A	-	Ceiling Plaster Skim Coat	NAD	-	-	-	-
26B	244	-	Ceiling Plaster Skim Coat	NAD	-	-	-	-
26C	132	-	Ceiling Plaster Skim Coat	NAD	-	-	-	-

**Table 4 - Summary of ACM Building Survey Results  
Bedford VA Medical Center, Building 62**

Sample No.	Sample Location	ACM Location	Description of Material	Percent and Type of Asbestos	Estimated Quantity		Condition	VISN 1 RISK Hazard Category 1-4*
					Amount	Units		
27A	215	-	2'x2' Textured Ceiling Tile	NAD	-	-	-	-
27B	215	-	2'x2' Textured Ceiling Tile	NAD	-	-	-	-
27C	215	-	2'x2' Textured Ceiling Tile	NAD	-	-	-	-
28A	238	Throughout Building	Tan Duct Mastic	5% Chrysotile	11,000	SF	Good	4
28B	Attic	Throughout Building	Tan Duct Mastic	Stop Positive See 28A				
28C	Attic	Throughout Building	Tan Duct Mastic	Stop Positive See 28A				
29A	241	-	Black Sink Undercoating	NAD	-	-	-	-
29B	241	-	Black Sink Undercoating	NAD	-	-	-	-
30A	132	-	12"x12" Tan With Brown Fleck Floor Tile	NAD	-	-	-	-
30B	132	-	12"x12" Tan With Brown Fleck Floor Tile	NAD	-	-	-	-
30C	132	-	12"x12" Tan With Brown Fleck Floor Tile	NAD	-	-	-	-
31A	132	Room 132 - Closet	12"x12" Tan With Brown Fleck Floor Tile Mastic	5% Chrysotile	50	SF	Good	4
31B	132	Room 132 - Closet	12"x12" Tan With Brown Fleck Floor Tile Mastic	Stop Positive See 31A				
31C	132	Room 132 - Closet	12"x12" Tan With Brown Fleck Floor Tile Mastic	Stop Positive See 31A				
32A	144	Room 144 - Closet	9"x9" Tan With Brown Streaks Floor Tile	3% Chrysotile	50	SF	Good	4
32B	144	Room 144 - Closet	9"x9" Tan With Brown Streaks Floor Tile	Stop Positive See 32A				
32C	144	Room 144 - Closet	9"x9" Tan With Brown Streaks Floor Tile	Stop Positive See 32A				
33A	144	Room 144 - Closet	9"x9" Tan With Brown Streaks Floor Tile Mastic	5% Chrysotile	50	SF	Good	4
33B	144	Room 144 - Closet	9"x9" Tan With Brown Streaks Floor Tile Mastic	Stop Positive See 33A				

**Table 4 - Summary of ACM Building Survey Results  
Bedford VA Medical Center, Building 62**

Sample No.	Sample Location	ACM Location	Description of Material	Percent and Type of Asbestos	Estimated Quantity		Condition	VISN 1 RISK Hazard Category 1-4*
					Amount	Units		
33C	144	Room 144 - Closet	9"x9" Tan With Brown Streaks Floor Tile Mastic	Stop Positive See 33A				
34A	106	-	Hardwood Sheet Flooring	NAD	-	-	-	-
34B	106	-	Hardwood Sheet Flooring	NAD	-	-	-	-
34C	106	-	Hardwood Sheet Flooring	NAD	-	-	-	-
35A	106	-	Hardwood Sheet Flooring Mastic	NAD	-	-	-	-
35B	106	-	Hardwood Sheet Flooring Mastic	NAD	-	-	-	-
35C	106	-	Hardwood Sheet Flooring Mastic	NAD	-	-	-	-
36A	Interior	Attic Windows	Window Glazing	3% Chrysotile	80	LF	Good	4
36B	Interior	Attic Windows	Window Glazing	Stop Positive See 36A				
36C	Interior	Attic Windows	Window Glazing	Stop Positive See 36A				
37A	Attic	Attic	Stick Pin Adhesive	10% Chrysotile	100	SF	Good	4
37B	Attic	Attic	Stick Pin Adhesive	Stop Positive See 37A				
37C	Attic	Attic	Stick Pin Adhesive	Stop Positive See 37A				
38A	Exterior	Basement Windows	Black Window Caulking	5% Chrysotile	3,100	LF	Good	4
38B	Exterior	Basement Windows	Black Window Caulking	Stop Positive See 38A				
38C	Exterior	Basement Windows	Black Window Caulking	Stop Positive See 38A				
39A	Exterior	-	Expansion Joint Caulking	NAD	-	-	-	-
39B	Exterior	-	Expansion Joint Caulking	NAD	-	-	-	-
39C	Exterior	-	Expansion Joint Caulking	NAD	-	-	-	-
40A	Exterior	Exterior	White Door	5% Chrysotile	200	LF	Good	4
40B	Exterior	Exterior	White Door	Stop Positive See 40A				
40C	Exterior	Exterior	White Door	Stop Positive See 40A				
41A	Exterior	-	Stair Caulking	NAD	-	-	-	-
41B	Exterior	-	Stair Caulking	NAD	-	-	-	-
41C	Exterior	-	Stair Caulking	NAD	-	-	-	-
42A	Exterior	Exterior	Vent Caulking	3% Chrysotile	40	LF	Good	4
42B	Exterior	Exterior	Vent Caulking	Stop Positive See 42A				
42C	Exterior	Exterior	Vent Caulking	Stop Positive See 42A				

**Table 4 - Summary of ACM Building Survey Results  
Bedford VA Medical Center, Building 62**

Sample No.	Sample Location	ACM Location	Description of Material	Percent and Type of Asbestos	Estimated Quantity		Condition	VISN 1 RISK Hazard Category 1-4*
					Amount	Units		
43A	Exterior	Exterior	White Brick	5% Chrysotile	200	LF	Good	4
43B	Exterior	Exterior	White Brick	Stop Positive See 43A				
43C	Exterior	Exterior	White Brick	Stop Positive See 43A				

Footnotes:

1 - Analyzed by TEM

NAD - No Asbestos Detected (PLM)

ND - None Detected (TEM)

TR - Trace

SF - Square Feet

LF - Linear Feet

EA - Each

CF - Cubic Feet

\* - The VISN 1 hazard assessment scale 1 – 4 is a relative indicator of the risk and need for response/remediation. (1) represents the highest priority (e.g. removal or encapsulation) whereas a (4) represents the lowest priority (monitor as part of 6 month O&M program). The rating, assigned by an Asbestos Management Planner, takes into account the following criteria: condition, friable vs. non-friable, accessibility, occupancy (e.g. continuous, intermittent or occasional, patients/staff/visitors), potential for air erosion, potential for vibration damage, potential for disturbance/damage (e.g. exposed and in an accessible location), and potential for water damage.

## Appendix B

### Table 5 Summary of XRF Measurements

**Table 5 - Summary of XRF Measurements  
Bedford VA Medical Center, Building 62**

Reading No.	Floor	Location	Substrate and Component	Side	Condition	Color	Results (mg/cm <sup>2</sup> )
930	Attic	Main	Wood Window Casing	East	Intact	Gray	9
931	Attic	Main	Wood Window Sash	East	Intact	Gray	7.3
932	Attic	Main	Metal Column	East	Intact	Beige	6.7
933	Attic	Elev Machine	Block Wall (Interior)	West	Intact	White	0
935	Attic	Elev Machine	Concrete Column	West	Intact	White	0
936	Attic	Elev Machine	Concrete Floor	West	Intact	Gray	0
937	Attic	Elev Machine	Metal Ladder	West	Intact	Yellow	0
938	Attic	Elev Machine	Metal Handrail	West	Intact	Yellow	0.18
939	Attic	Elev Machine	Concrete Ceiling	North	Intact	White	0
940	Attic	Elev Machine	Metal Door	South	Intact	Brown	0.5
941	Attic	Elev Machine	Metal Door Casing	South	Intact	White	0
942	Attic	Elev Machine	Metal Tread	South	Intact	Gray	0.5
943	Attic	Stairwell	Metal Tread	South	Intact	Gray	0
944	Attic	Stairwell	Metal Riser	South	Intact	White	0
945	Attic	Stairwell	Metal Stringer	South	Intact	White	0.4
946	Attic	Stairwell	Plaster Wall (Interior)	South	Intact	White	0
947	Attic	Stairwell	Plaster Ceiling	South	Intact	White	0
948	Attic	Stairwell	Metal Handrail	West	Intact	White	0
949	Attic	Stairwell	Metal Newel Post	West	Intact	White	0.5
950	Attic	Stairwell	Wood Door	West	Intact	Brown	0.7
951	Attic	Stairwell	Metal Door Casing	West	Intact	White	0
952	Second	206-207	Plaster Wall (Exterior)	North	Intact	White	0
953	Second	206-207	Drywall Wall (Interior)	East	Intact	Beige	0
954	Second	206-207	Metal Radiator Guard	North	Intact	White	3.8
955	Second	206-207	Metal Door Casing	South	Intact	White	0
956	Second	219	Plaster Wall (Exterior)	North	Intact	White	0
957	Second	219	Concrete Column	North	Intact	White	0
958	Second	219	Metal Radiator Guard	North	Intact	White	5.3
959	Second	219	Metal Door	West	Intact	Gray	0
960	Second	219	Metal Door Casing	West	Intact	Gray	0
961	Second	224-225	Plaster Wall (Interior)	West	Intact	Purple	0
962	Second	224-225	Metal Radiator	West	Intact	Purple	0
963	Second	224-225	Metal Radiator	West	Intact	Purple	0
964	Second	224-225	Plaster Wall (Interior)	South	Intact	Purple	0
965	Second	224-225	Metal Door Casing	East	Intact	Gray	0
966	Second	224-225	Metal Window Casing	East	Intact	Gray	0
967	Second	240	Metal Window Casing	East	Intact	Beige	0
968	Second	240	Plaster Wall (Exterior)	East	Intact	Beige	0
969	Second	240	Plaster Wall (Exterior)	East	Intact	Beige	0
970	Second	240	Metal Radiator	East	Intact	Beige	0
971	Second	Stairwell	Plaster Wall (Exterior)	West	Intact	White	0
972	Second	Stairwell	Plaster Wall (Interior)	South	Intact	White	0
973	Second	Stairwell	Metal Handrail	West	Intact	White	0.4
974	Second	Stairwell	Metal Riser	South	Intact	White	0.6
975	Second	Stairwell	Metal Stringer	West	Intact	White	0
976	Second	Stairwell	Metal Newel Post	East	Intact	White	0.7
977	Second	Stairwell	Metal Cage	East	Intact	White	2.9
978	Second	Stairwell	Plaster Ceiling	East	Intact	White	0

**Table 5 - Summary of XRF Measurements  
Bedford VA Medical Center, Building 62**

Reading No.	Floor	Location	Substrate and Component	Side	Condition	Color	Results (mg/cm <sup>2</sup> )
979	First	141	Plaster Wall (Exterior)	South	Intact	White	0
981	First	141	Concrete Column	South	Intact	White	0.6
982	First	141	Metal Radiator Guard	South	Intact	White	7.4
983	First	141	Metal Radiator	South	Intact	White	0
984	First	141	Plaster Wall (Interior)	North	Intact	White	0
985	First	141	Metal Door Casing	North	Intact	Gray	0
986	First	141	Metal Window Casing	North	Intact	Gray	0
987	First	141	Wood Cabinet	North	Intact	White	0
989	First	124-125	Plaster Wall (Exterior)	West	Intact	Beige	1
990	First	124-125	Wood Door Casing	West	Intact	White	7.9
991	First	124-125	Metal Radiator Guard	West	Intact	White	7.7
992	First	124-125	Metal Window Casing	East	Intact	White	0
993	First	124-125	Concrete Column	East	Intact	Beige	0
994	First	124-125	Drywall Wall (Interior)	East	Intact	Beige	0
995	First	124-125	Metal Door Casing	East	Intact	Gray	0
996	First	119	Plaster Wall (Exterior)	East	Intact	Green	0
997	First	119	Concrete Column	South	Intact	Green	0
998	First	119	Metal Radiator Guard	South	Intact	Green	3
999	First	119	Plaster Wall (Interior)	West	Intact	Green	0
1000	First	119	Plaster Ceiling	West	Intact	Green	0
1001	First	Stairwell	Block Wall (Exterior)	West	Intact	White	0
1002	First	Stairwell	Metal Riser	North	Intact	Gray	0
1003	First	Stairwell	Metal Stringer	East	Intact	Gray	0
1004	First	Stairwell	Metal Handrail	East	Intact	White	0
1005	First	Stairwell	Concrete Tread	North	Intact	Gray	0
1006	First	Stairwell	Plaster Wall (Interior)	West	Intact	White	0
1007	Basement	B23	Concrete Wall (Exterior)	West	Intact	White	0
1010	Basement	B23	Concrete Window Sill	West	Intact	White	0
1011	Basement	B23	Concrete Column	West	Intact	White	0
1014	Basement	B23	Concrete Floor	West	Poor	Gray	0
1015	Basement	Corridor	Plaster Wall (Interior)	West	Intact	White	0.21
1016	Basement	Corridor	Wood Door	West	Intact	Gray	0.6
1017	Basement	Corridor	Metal Door Casing	West	Intact	Gray	1.6
1018	Basement	B33b	Ceramic Tile Wall (Exterior)	East	Intact	Blue	0
1019	Basement	Exterior	Metal Door	East	Intact	Red	0
1020	Basement	Exterior	Wood Door Casing	East	Intact	Gray	16.8
1021	Basement	Exterior	Metal Lintel	South	Intact	Gray	14.9
1022	Basement	Exterior	Metal Handrail	South	Intact	Brown	0
1023	Basement	Exterior	Concrete Tread	South	Fair	Yellow	2
1024	Basement	Exterior	Plaster Ceiling	South	Intact	White	0
1025	Basement	Exterior	Metal Handrail	East	Cracked	Brown	0
1026	Basement	Exterior	Metal Lintel	North	Intact	Beige	21.6
1027	First	Exterior	Metal Handrail	East	Intact	Brown	3
1028	First	Exterior	Wood Door Casing	East	Intact	Beige	10.9
1029	Basement	Exterior	Metal Door Casing	East	Intact	Beige	0
1030	Basement	Exterior	Metal Door	East	Intact	Red	0



**Table 5 - Summary of XRF Measurements  
Bedford VA Medical Center, Building 62**

Reading No.	Floor	Location	Substrate and Component	Side	Condition	Color	Results (mg/cm <sup>2</sup> )
1033	Basement	Exterior	Metal Window Casing	West	Intact	Beige	14.5
1034	Basement	Exterior	Metal Pillar	West	Intact	Yellow	0
1035	Basement	Exterior	Stone Curb	West	Fair	Red	0

Font Color Annotation

Black - Below the VISN1 Threshold of 0.1 mg/cm<sup>2</sup>  
Blue - Above the VISN1 Threshold of 0.1 mg/cm<sup>2</sup>, but less than 1.0 mg/cm<sup>2</sup>  
Red - Greater than 1.0 mg/cm<sup>2</sup>

## Appendix C

### Representative Photographs of ACM



12"x12" White with Black Fleck Floor Tile Mastic  
Sample 02A



12"x12" White with Gray Fleck Floor Tile Mastic  
Sample 04A



Gray Sink Undercoating  
Sample 06A

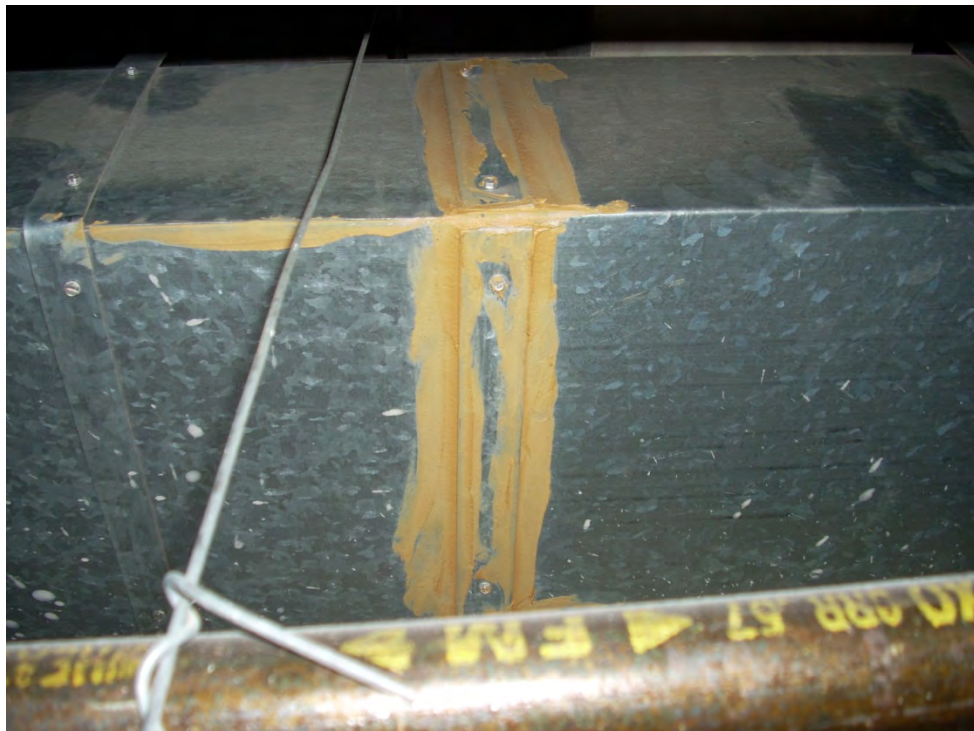


12"x12" Tan with Brown Streaks Floor Tile and Mastic  
Samples 12A and 13A





White Duct Mastic  
Sample 16A



Tan Duct Mastic  
Sample 28A



12"x12" Tan With Brown Fleck Floor Tile Mastic  
Sample 31A

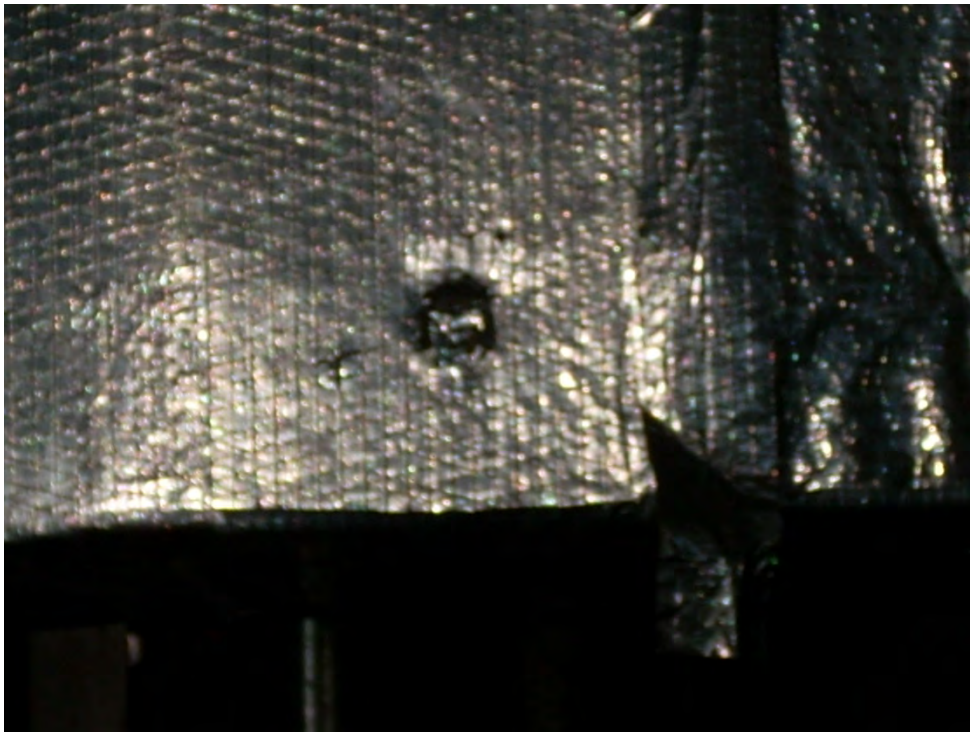


9"x9" Tan With Brown Streaks Floor Tile and Mastic  
Samples 32A and 33A





Window Glazing  
Sample 36A



Stick Pin Adhesive  
Sample 37A

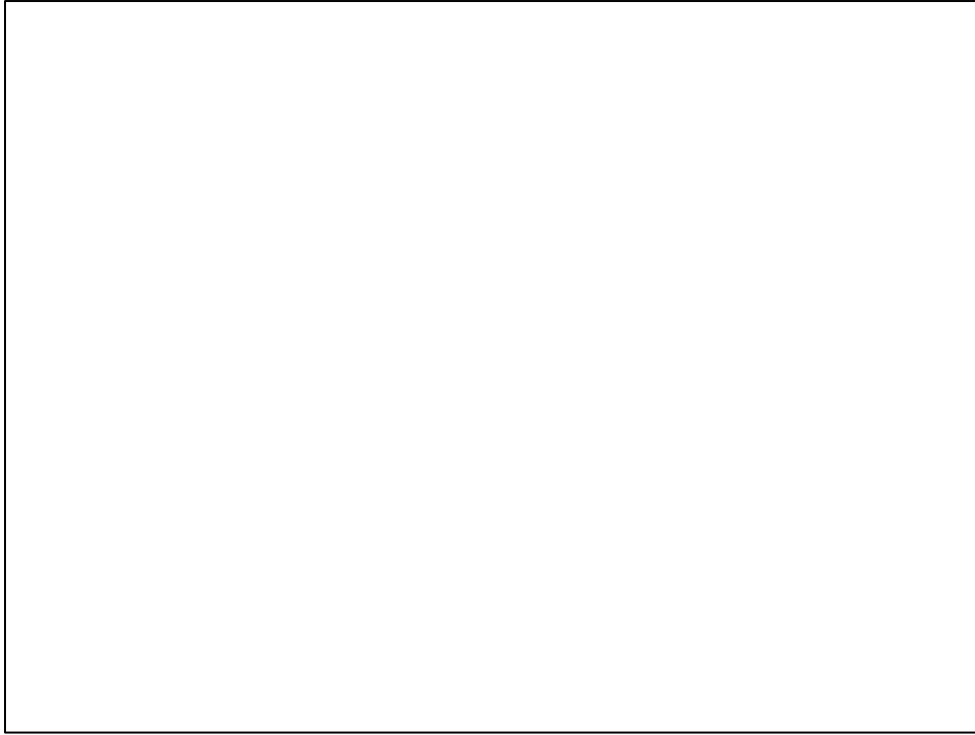


Black Window Caulking  
Sample 38A



White Door Caulking  
Sample 40A





Vent Caulking  
Sample 42A



White Brick Caulking  
Sample 43A

## Appendix D

Representative Photographs of Non-Intact  
Lead Containing Paint,  
Greater than 1.0 mg/cm<sup>2</sup>