

ASBESTOS BUILDING INSPECTION

LOCATION:

**BRANFORD PRICE MILLAR LIBRARY
1875 SW PARK AVENUE
PORTLAND, OREGON 91201**

JULY 22, 2008

FORENSIC ANALYTICAL PROJECT NO. PJ5605

PREPARED FOR:

**PORTLAND STATE UNIVERSITY
PO BOX 13175
PORTLAND, OREGON 97403**

PREPARED BY:



Forensic Analytical Consulting Services, Inc.
Portland Office
17400 SW Upper Boones Ferry Road, Suite 245
Portland, OR 97224
503/595.1001

TABLE OF CONTENTS

1. INTRODUCTION
2. FINDINGS
3. RECOMMENDATIONS
4. METHODS
5. LIMITATIONS

APPENDICES

APPENDIX A: COMPLETE SAMPLE INVENTORY

APPENDIX B: SITE DRAWINGS

APPENDIX C: LABORATORY REPORTS AND CHAIN OF CUSTODY FORMS

APPENDIX D: GLOSSARY OF TERMS

APPENDIX E: INSPECTOR ACCREDITATION

1.0 INTRODUCTION

Forensic Analytical Specialties, Inc. performed an inspection to identify asbestos-containing building materials at the property located at 1875 SW Park Avenue, Portland, Oregon. Dan Rouse, Noal Kraft and Robin Sharpe conducted the field investigation on June 4, 2008 at the direction of Kate Vance of Portland State University.

The purpose of the inspection is to determine whether ACM is present in the structure onsite. The subject property was built in two major phases, 1967 and 1989. The building consists of five-stories with a basement and a sub-basement, totaling 199,935 sq. ft.

This report presents the results of the asbestos inspection conducted by Forensic Analytical Consulting Services, Inc. for the above referenced project. Results of the inspection are summarized in Appendix A.

Drawings depicting ACM and sample locations are presented in Appendix B. A detailed laboratory report and chain of custody forms are contained in Appendix C.

2.0 FINDINGS

The results of the samples indicate that asbestos was detected at the site. A complete table of the samples taken and materials assumed to contain asbestos can be found in Appendix A.

3.0 RECOMMENDATIONS

Materials for which sample analysis by PLM results in greater than one percent asbestos (for any one sample collected from a homogeneous material) are classified as ACM under regulations promulgated by, but not limited to, the following agencies: federal EPA and federal OSHA.

The agencies use the following definitions:

Federal EPA (Oregon DEQ): materials containing greater than one percent asbestos are ACM
Federal OSHA (OR-OSHA): materials containing greater than one percent asbestos are ACM

For detailed regulatory requirements in specific situations, Forensic Analytical should be consulted, or the applicable regulations should be examined.

All materials identified were classified by condition. Materials in "Good" condition should be maintained in place following the OR-OSHA operations and maintenance requirements. Materials in "Fair" condition should have patch and repair activities performed to address any damaged areas. Materials in "Poor" condition should be addressed through removal, repair and/or encapsulation.

4.0 METHODS

Materials suspected of containing asbestos were sampled in accordance with the federal EPA AHERA protocols. Materials determined by the inspector to be non-suspect, such as wood, metal, glass, and fiberglass insulation, were not sampled. Destructive sample techniques were not used during the inspection. Additional suspect building materials may be present in areas that were inaccessible, unsafe to inspect, or obscured from view during the inspection process.

Suspect materials were grouped and classified as homogeneous materials based on their appearance, usage, and age of the building. Representative samples of each homogeneous material were collected for laboratory analysis. Where previous sample data exists, one confirming sample was collected of materials that previously tested positive. Additionally, where multiple samples of a given homogeneous material were collected, the set was analyzed to first positive.

The unique sample description ID was developed specifically for PSU. The sample ID includes; the PSU building ID; the homogeneous material number; followed by a unique material code (FT = Floor Tile); and lastly the sample number.

Samples were collected in such a manner as to minimize release of the material into the surroundings. Material type, sample number, sample location and other pertinent information were recorded at the time of sampling. Each sample was placed in a sample container labeled with a unique sample number and submitted to Forensic Analytical's NVLAP-accredited laboratory for analysis under chain of custody documentation. Samples were analyzed in accordance with EPA Method 600/R-93-116, using PLM with dispersion staining and using visual area estimation to determine percent asbestos content. This method allows for the identification of the primary types of asbestos used in building materials. The lower limit of detection for this method is one percent. Samples containing less than one percent asbestos by PLM with visual area estimation are reported as Trace.

5.0 LIMITATIONS

Forensic Analytical did not inspect subsurface areas for asbestos. ACM such as underground waterproofing coatings, asbestos-cement water pipe, electrical ducts, or other subsurface materials or equipment may be present beneath the site. Forensic Analytical did not disassemble building equipment; such as fans, ducts, elevator equipment, and electrical equipment. Consequently, equipment may contain untested gaskets, internal components, overspray of building materials and the like. If the aforementioned materials or any other untested suspect materials are encountered during construction or maintenance activities, they should be assumed to be asbestos-containing materials and not disturbed, unless sampling and analysis of the materials proves otherwise.

At PSU's request, the roofs were not sampled as part of this inspection. In addition, the following areas were inaccessible at the time of the survey: 120, 184A, 160A & 420

Forensic Analytical has performed this asbestos sampling in accordance with generally accepted methods and practices of the profession, and consistent with that level of care and skill ordinarily exercised by reputable environmental consultants under similar conditions and circumstances. No other representation, guarantee or warranty, express or implied, is included or intended in this asbestos inspection report.

Respectfully submitted,



Dan Rouse

Reviewed by,



Noal Kraft

APPENDIX A

COMPLETE SAMPLE INVENTORY

SAMPLE ID #	MATERIAL DESCRIPTION	SAMPLE LOCATION	MATERIAL LOCATION	ASB. % AND TYPE	APPROX. QUANTITY	CONDITION
ML-01-CT-1	Ceiling Tile, 2' x 2' Textured	ML - 172	-	ND	-	-
ML-02-FT-1	Floor Tile, 12" x 12" Medium Brown Specked, and Tan Mastic	ML - L550	-	ND	-	-
ML-03-FT-1	Floor Tile, 12" x 12" White w/ Black Pinhole Specks, and Tan Mastic	ML - 501	-	ND	-	-
ML-04-FT-1	Floor Tile, 9" x 9" Tan w/ White and Brown Specks, and Black Mastic	ML - 501	Basement, 3 rd , 4 th and 5 th Floors on the W. Side Running S. to N.	2% Chrysotile Tile 2% Chrysotile Mastic	22,510 sq. ft.	Good
ML-05-CT-1	Ceiling Tile, 2' x 2' Textured w/ Pinholes	ML - 501	-	ND	-	-
ML-06-CT-1	Ceiling Tile, 2' x 4' Pinholes	ML - 501	-	ND	-	-
ML-07-CB-1	Cove Base, 6" Brown, and White Adhesive	ML - L550	-	ND	-	-
ML-08-DWJC-1	Drywall & Joint Compound	ML - L550	-	ND	-	-
ML-08-DWJC-2	Drywall & Joint Compound	ML - 501, West Side	-	ND	-	-
ML-08-DWJC-3	Drywall & Joint Compound	ML - L350	-	ND	-	-
ML-08-DWJC-4	Drywall & Joint Compound	ML - L250	-	ND	-	-
ML-08-DWJC-5	Drywall & Joint Compound	ML - L150	-	ND	-	-

ND – Non-Detected

* This sample is part of a set in which one of the samples tested positive for asbestos.

SAMPLE ID #	MATERIAL DESCRIPTION	SAMPLE LOCATION	MATERIAL LOCATION	ASB. % AND TYPE	APPROX. QUANTITY	CONDITION
ML-08-DWJC-6	Drywall & Joint Compound	ML - L50	-	ND	-	-
ML-09-CB-1	Cove Base, 4" Tan, and White Adhesive	ML - 501	-	ND	-	-
ML-10-SU-1	Sink Undercoating, White	ML - 584	-	ND	-	-
ML-11-FM-1	Floor Material, Grey w/ White and Grey Specks, and Tan Mastic	ML - S450	-	ND	-	-
ML-12-FT-1	Floor Tile, 12" x 12" Grey Specked, and Yellow Mastic	ML - 301	-	ND	-	-
ML-06-CT-2	Ceiling Tile, 2' x 4' Pinholes	ML - 301	-	ND	-	-
ML-13-FM-1	Floor Tile, Brown, Textured Non-Slip, and Grey Mastic	ML - E20	-	ND	-	-
ML-14-CM-1	Carpet Mastic, Yellow	ML - L250	-	ND	-	-
ML-15-FT-1	Floor Tile, 24" x 24" Blue w/ Black and White Specks, and Grey Mastic	ML - V288	-	ND	-	-
ML-16-FS-1	Firestop, Red	ML - 242	-	ND	-	-
ML-17-FM-1	Floor Material, Off-White, Textured, and Tan Mastic	ML - 110	-	ND	-	-
ML-18-FT-1	Floor Tile, 12" x 12" Off-White Specked, and Tan Mastic	ML - 196D	-	ND	-	-

ND – Non-Detected

* This sample is part of a set in which one of the samples tested positive for asbestos.

SAMPLE ID #	MATERIAL DESCRIPTION	SAMPLE LOCATION	MATERIAL LOCATION	ASB. % AND TYPE	APPROX. QUANTITY	CONDITION
ML-19-FT-1	Floor Tile, 12" x 12" Light Green Specked, and Tan Mastic	ML - 196D	-	ND	-	-
ML-06-CT-3	Ceiling Tile, 2' x 4' Pinholes	ML - 30	-	ND	-	-
ML-20-HSC-1	HVAC Seam Compound	ML - Roof	-	ND	-	-
ML-21-TSI-1	Pipe Insulation Encapsulant Compound	ML - SB40	-	ND	-	-
ML-21-TSI-2	Pipe Insulation Encapsulant Compound	ML - SB40	-	ND	-	-
ML-21-TSI-3	Pipe Insulation Encapsulant Compound	ML - SB40	-	ND	-	-
ML-22-TSI-1	Rigid Pipe Insulation, Orange	ML - SB40	Throughout Building	15% Amosite	Partially Inaccessible Not Quantified	Good
ML-22-TSI-2	Rigid Pipe Insulation, Orange	ML - SB40	Throughout Building	* Not Analyzed Due to Prior Positive Result in Series.	Partially Inaccessible Not Quantified	Good
ML-22-TSI-3	Rigid Pipe Insulation, Orange	ML - SB40	Throughout Building	* Not Analyzed Due to Prior Positive Result in Series.	Partially Inaccessible Not Quantified	Good
ML-23-TSI-1	Rigid Pipe Insulation, Yellow	ML - SB40	Throughout Building	10% Amosite	Partially Inaccessible Not Quantified	Good
ML-23-TSI-2	Rigid Pipe Insulation, Yellow	ML - SB40	Throughout Building	* Not Analyzed Due to Prior Positive Result in Series.	Partially Inaccessible Not Quantified	Good
ML-23-TSI-3	Rigid Pipe Insulation, Yellow	ML - SB40	Throughout Building	* Not Analyzed Due to Prior Positive Result in Series.	Partially Inaccessible Not Quantified	Good

ND – Non-Detected

* This sample is part of a set in which one of the samples tested positive for asbestos.

SAMPLE ID #	MATERIAL DESCRIPTION	SAMPLE LOCATION	MATERIAL LOCATION	ASB. % AND TYPE	APPROX. QUANTITY	CONDITION
ML-24-TSI-1	Pipe Fitting Insulation on Rigid Insulated Pipe, Orange	ML - SB40	Throughout Building	10% Amosite	Partially Inaccessible Not Quantified	Good
ML-24-TSI-2	Pipe Fitting Insulation on Rigid Insulated Pipe, Orange	ML - SB40	Throughout Building	* Not Analyzed Due to Prior Positive Result in Series.	Partially Inaccessible Not Quantified	Good
ML-24-TSI-3	Pipe Fitting Insulation on Rigid Insulated Pipe, Orange	ML - SB40	Throughout Building	* Not Analyzed Due to Prior Positive Result in Series.	Partially Inaccessible Not Quantified	Good
ML-25-TSI-1	Pipe Fitting Insulation on Rigid Insulated Pipe, Yellow	ML - SB40	Throughout Building	5% Chrysotile	Partially Inaccessible Not Quantified	Good
ML-25-TSI-2	Pipe Fitting Insulation on Rigid Insulated Pipe, Yellow	ML - SB40	Throughout Building	* Not Analyzed Due to Prior Positive Result in Series.	Partially Inaccessible Not Quantified	Good
ML-25-TSI-3	Pipe Fitting Insulation on Rigid Insulated Pipe, Yellow	ML - SB40	Throughout Building	* Not Analyzed Due to Prior Positive Result in Series.	Partially Inaccessible Not Quantified	Good
ML-26-TSI-1	Rigid Tank Insulation	ML - SB40, Expansion Tank	ML - SB40, Various Tanks	15% Chrysotile	3 Tanks Totaling Approx 120 sq. ft.	Good

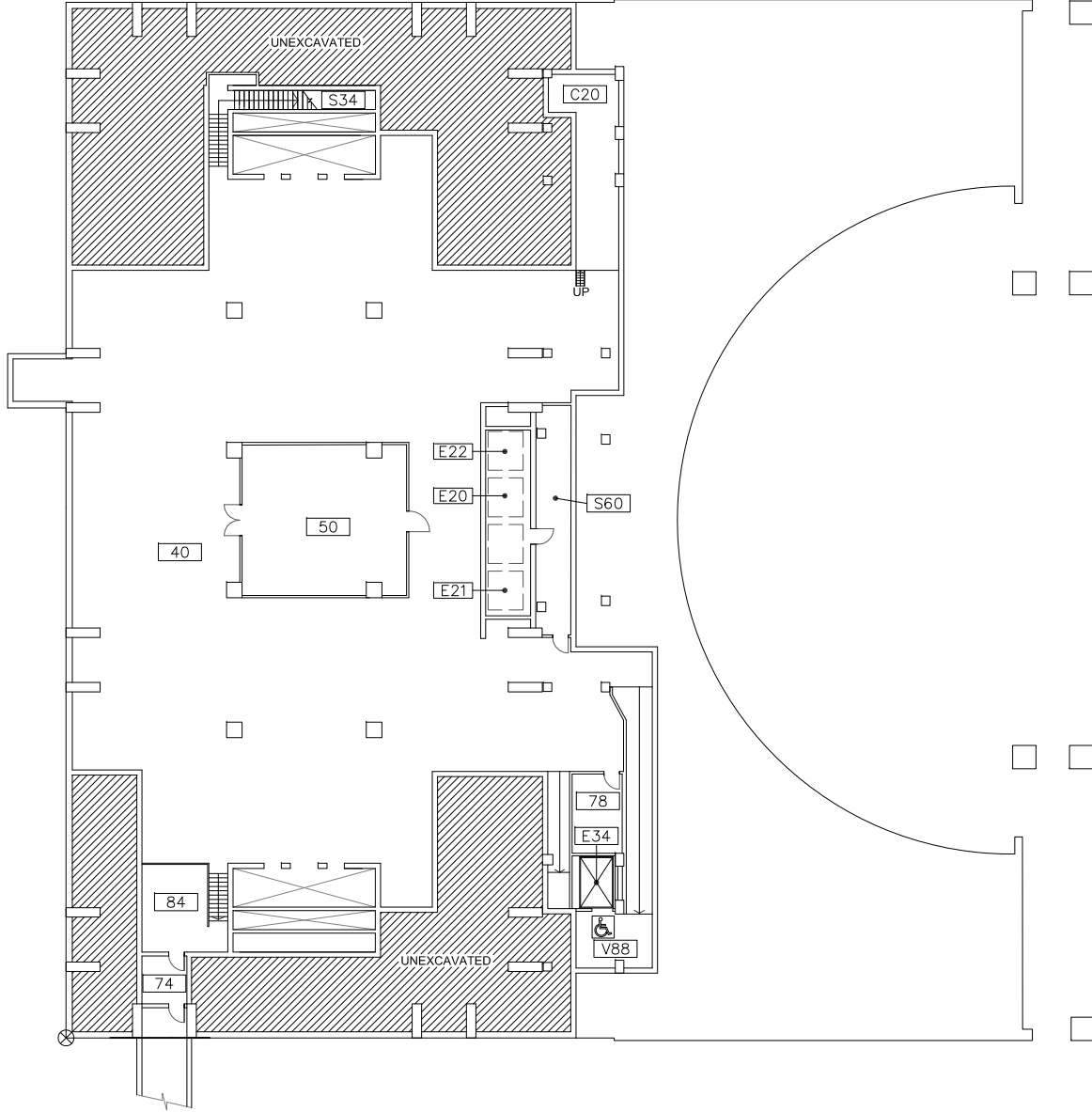
ND – Non-Detected

* This sample is part of a set in which one of the samples tested positive for asbestos.

APPENDIX B

SITE DRAWING(S)

Subbasement



 Floor Tile, 9" x 9" Tan w/ White & Brown Streaks, and Black Mastic

ACM not shown:
 Rigid Pipe Insulation
 Pipe Fitting Insulation
 Rigid Tank Insulation

DATE: 7-22-08	CLIENT: PSU	PROJECT: Brantford Price Miller Library	LOCATION: Portland, Oregon 97201
DRAWN BY: DKR	PROJECT #: PJ6805	<small> This is a preliminary drawing. It is not to be used for construction or other purposes without the written approval of the designer. The designer shall be responsible for the accuracy of the information provided. </small>	
PAGE #: ACM - 1/9			

REVISIONS

Brantford Price Miller Library
 Subbasement
 ACM Locations

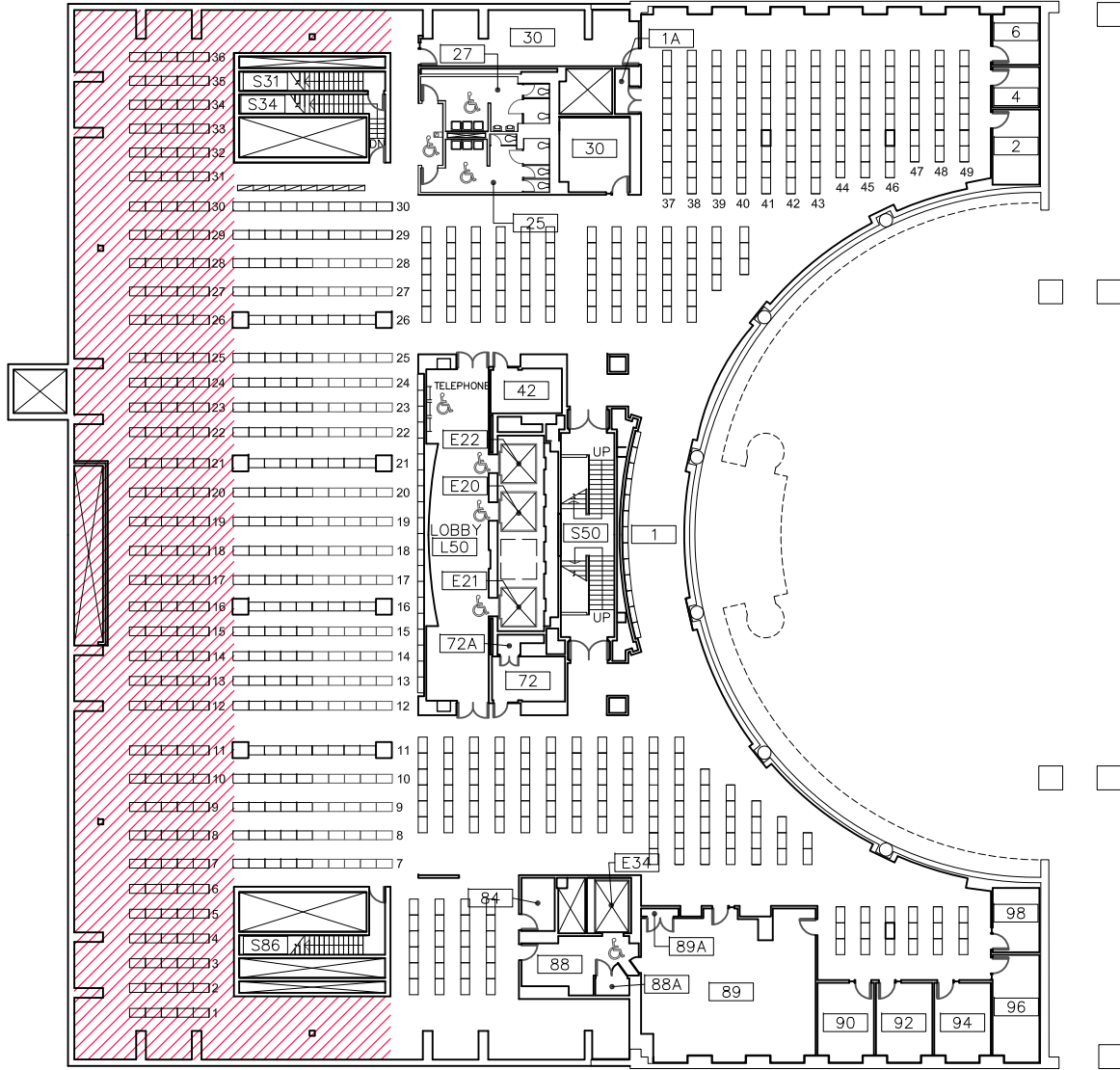


No Scale

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Basement



Floor Tile, 9" x 9" Tan w/ White & Brown Streaks, and Black Mastic

ACM not shown:
 Rigid Pipe Insulation
 Pipe Fitting Insulation
 Rigid Tank Insulation

DATE: 7-22-08
 PROJECT: Brantford Price Miller Library
 LOCATION: Portland, Oregon 97201
 DRAWN BY: DKR
 PROJECT #: PJ6005
 PAGE #: ACM -219

REVISIONS

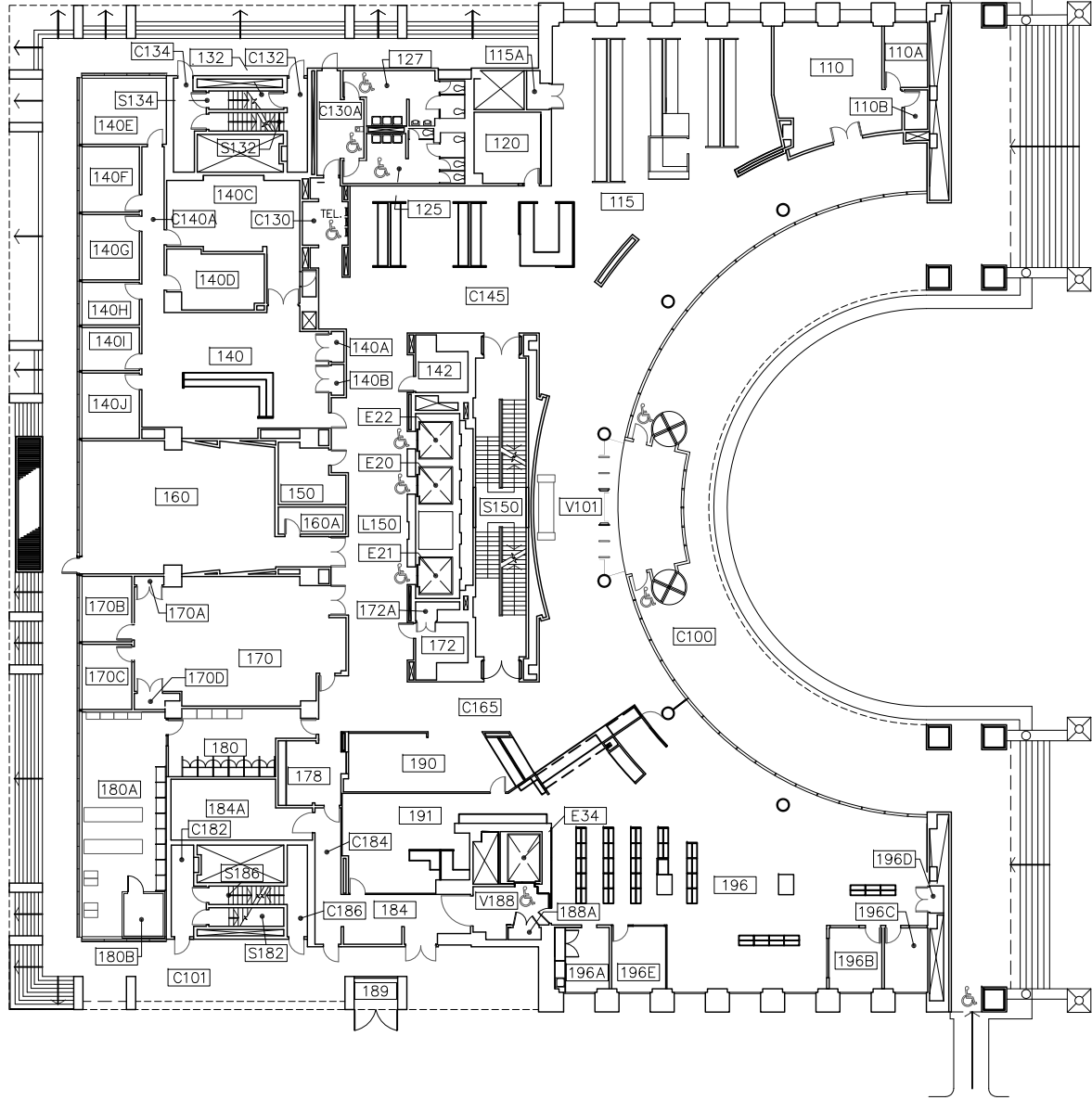
NO.	DESCRIPTION

Brantford Price Miller Library
 Basement
 ACM Locations



No Scale

1st Floor



 Floor Tile, 9" x 9" Tan w/ White & Brown Streaks, and Black Mastic

ACM not shown:
 Rigid Pipe Insulation
 Pipe Fitting Insulation
 Rigid Tank Insulation

DATE: 7-22-08	PROJECT: Brantford Price Miller Library
DRAWN BY: DKR	LOCATION: Portland, Oregon 97201
PAGE #: ACM - 319	PROJECT #: PJ0605

REVISIONS

Brantford Price Miller Library
 1st Floor
 ACM Locations

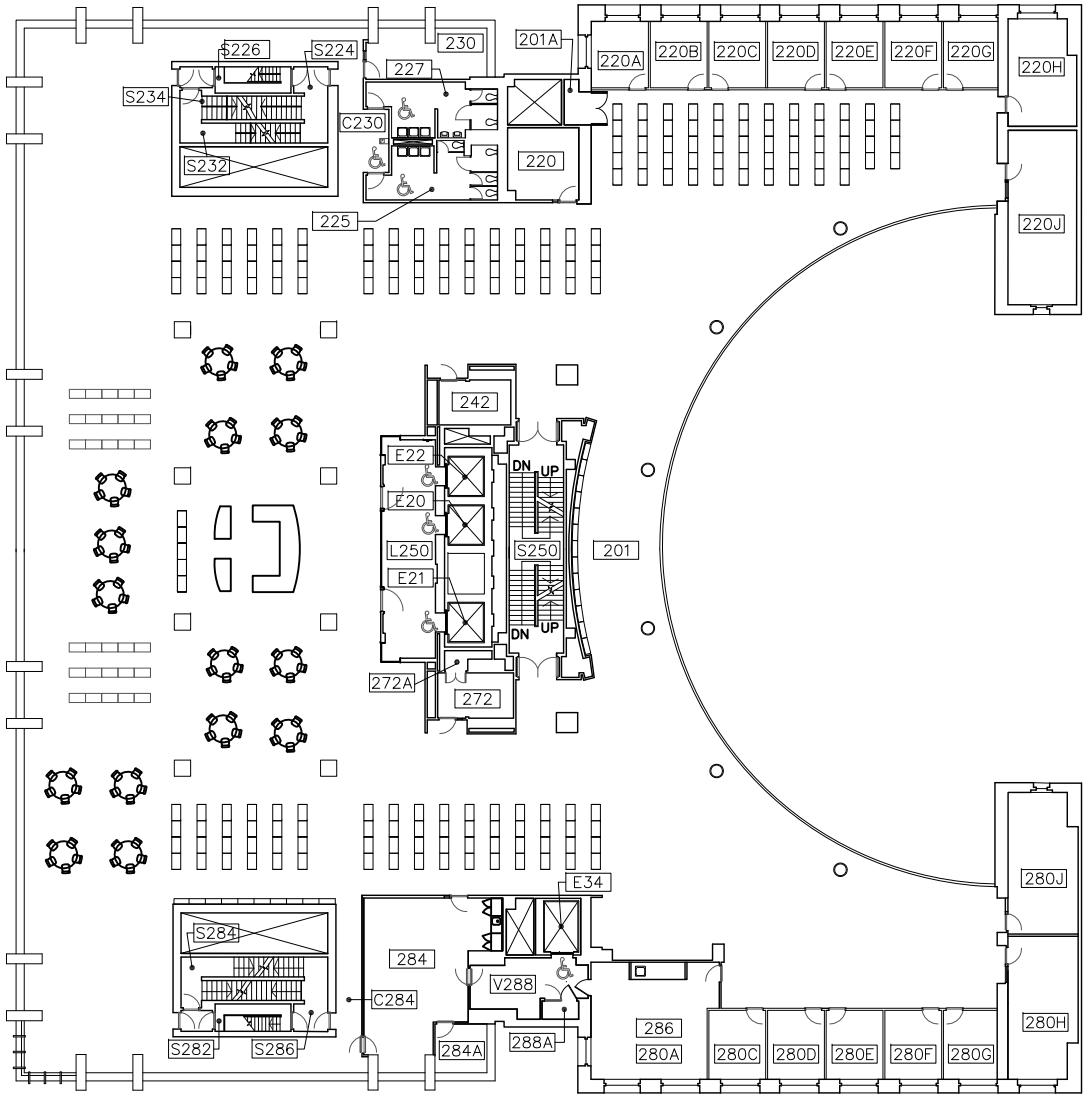


No Scale

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2nd Floor



 Floor Tile, 9" x 9" Tan w/ White & Brown Streaks, and Black Mastic

ACM not shown:
 Rigid Pipe Insulation
 Pipe Fitting Insulation
 Rigid Tank Insulation

DATE: 7-22-08	PROJECT: PSU Brantford Price Miller Library
DRAWN BY: DKR	LOCATION: Portland, Oregon 97201
PAGE #: ACM - 4/9	PROJECT #: PJ6805

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Brantford Price Miller Library
 2nd Floor
 ACM Locations

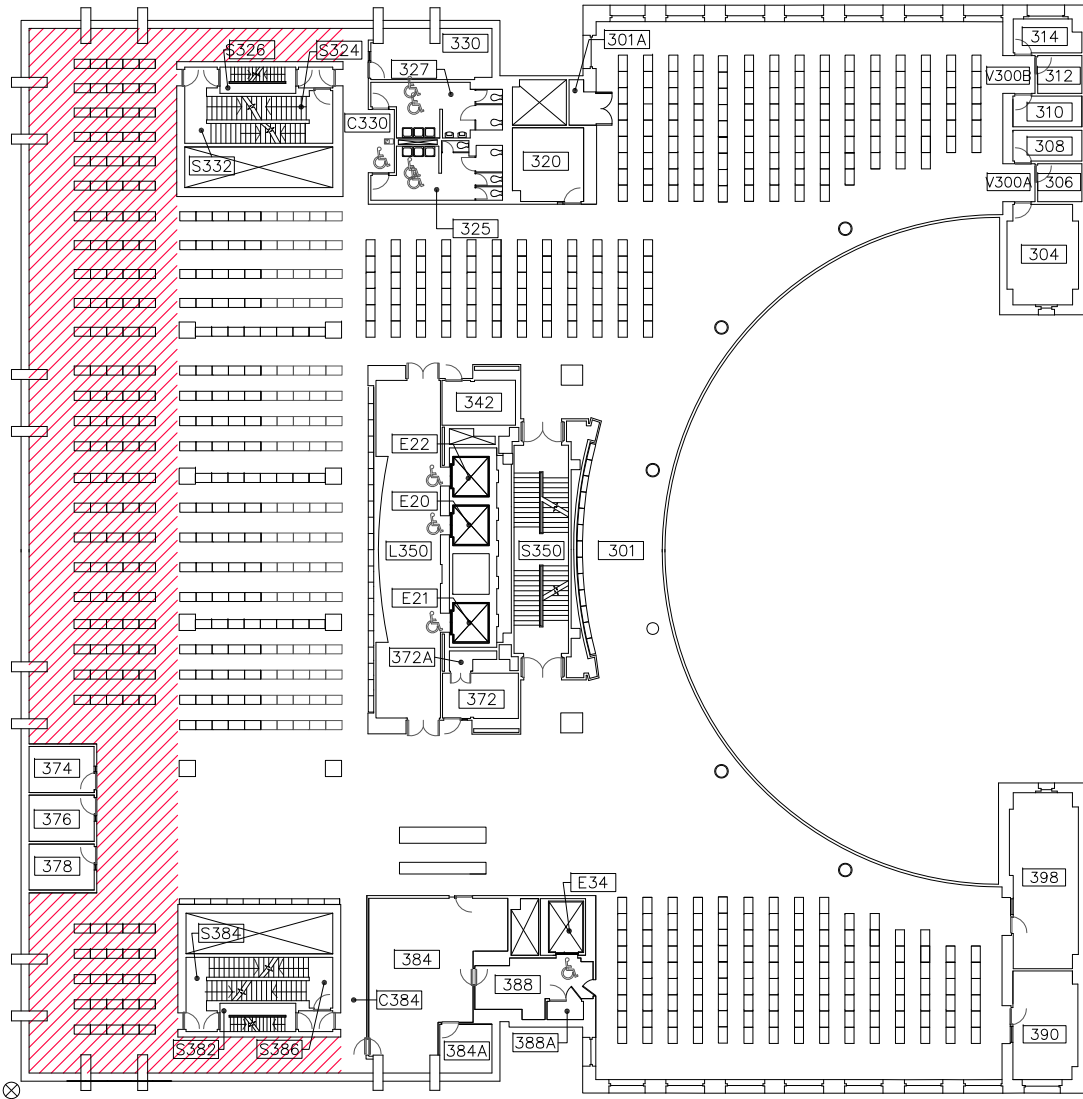


No Scale

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3rd Floor



Floor Tile, 9" x 9" Tan w/ White & Brown Streaks, and Black Mastic

ACM not shown:
 Rigid Pipe Insulation
 Pipe Fitting Insulation
 Rigid Tank Insulation

DATE: 7-22-08	CLIENT: PSU	PROJECT: Brantford Price Miller Library	LOCATION: Portland, Oregon 97201
DRAWN BY: DKR	PROJECT #: PJE605	REVISIONS	
PAGE #: ACM -519	1. This is a preliminary drawing and is not to be used for construction. It is subject to change without notice. The client is responsible for verifying the accuracy of the information provided.		

NO.	DATE	DESCRIPTION

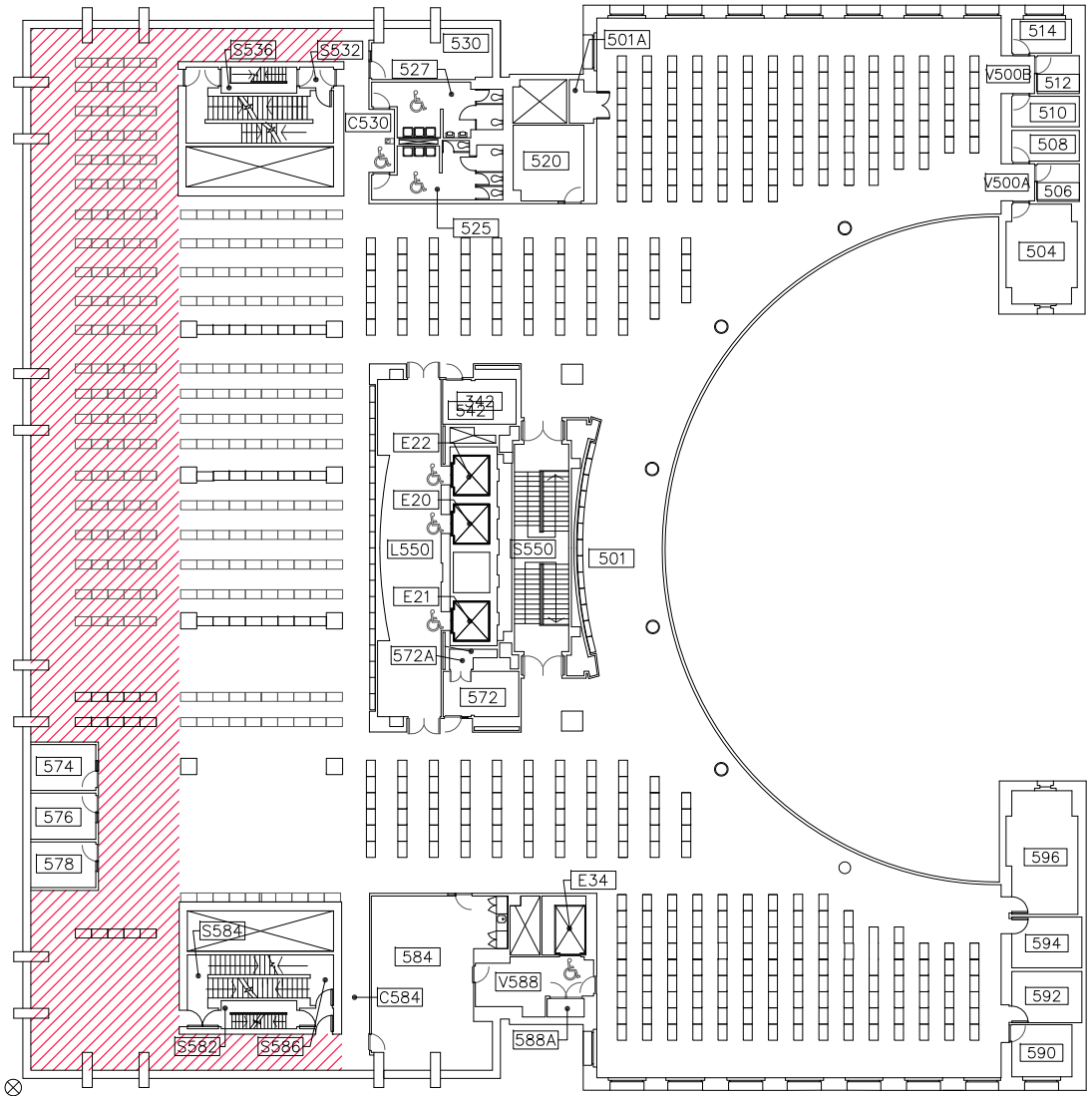
Brantford Price Miller Library
 3rd Floor
 ACM Locations



No Scale

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5th Floor



 Floor Tile, 9" x 9" Tan w/ White & Brown Streaks, and Black Mastic

ACM not shown:
 Rigid Pipe Insulation
 Pipe Fitting Insulation
 Rigid Tank Insulation

DATE: 7-22-08	PROJECT: Brantford Price Miller Library	CLIENT: PSU	PROJECT #: PJE605
DRAWN BY: DKR	LOCATION: Portland, Oregon 97201	PROJECT #: PJE605	PROJECT #: PJE605
PAGE #: ACM - 7/9			

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Brantford Price Miller Library
 5th Floor
 ACM Locations

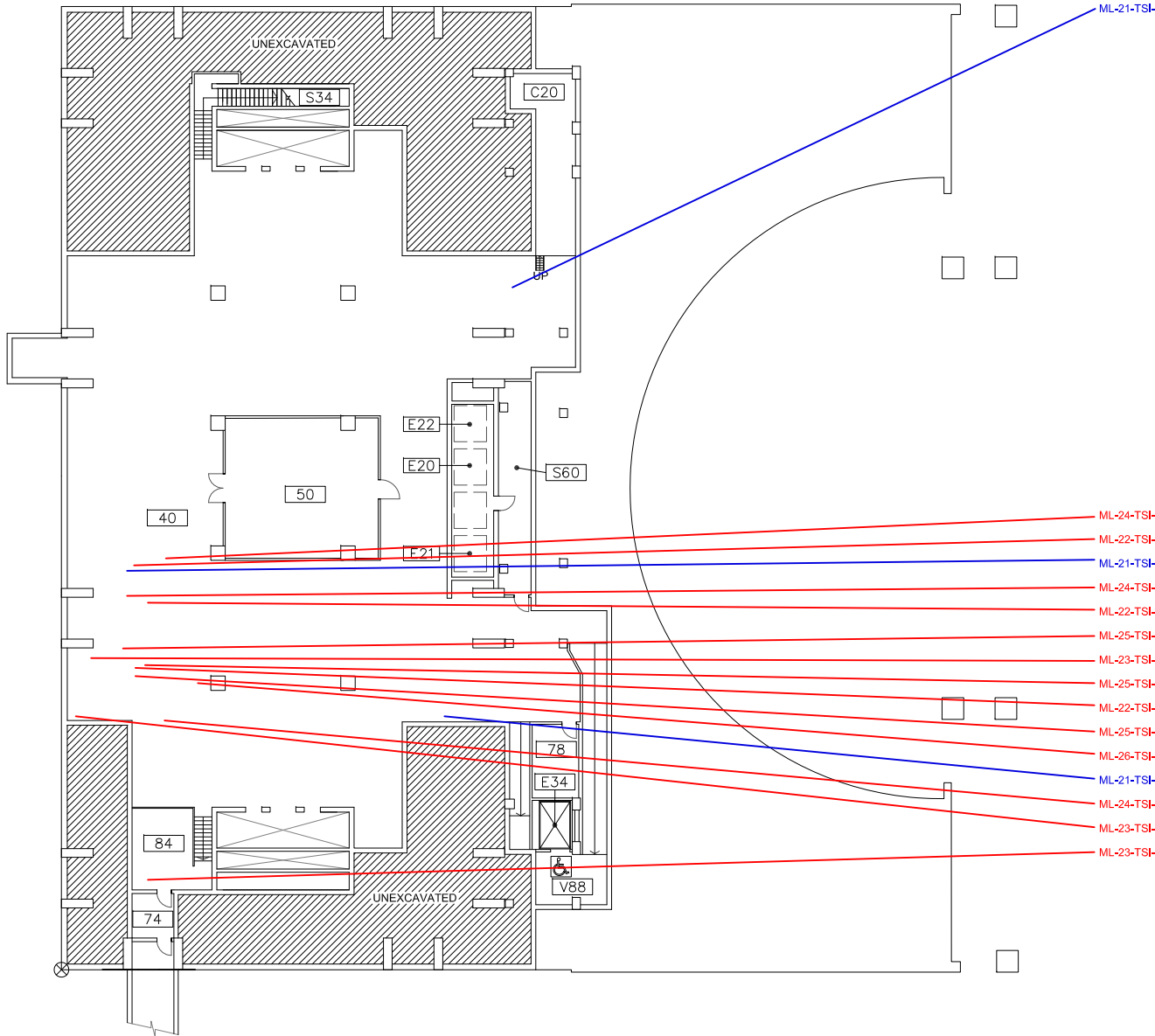


No Scale

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Subbasement



ML-21-TSI-2

- ML-24-TSI-2*
- ML-22-TSI-3*
- ML-21-TSI-3
- ML-24-TSI-1
- ML-22-TSI-2*
- ML-25-TSI-1
- ML-23-TSI-1
- ML-25-TSI-3*
- ML-22-TSI-1
- ML-25-TSI-2*
- ML-26-TSI-1
- ML-21-TSI-1
- ML-24-TSI-3*
- ML-24-TSI-2*
- ML-23-TSI-3*

DATE: 7-22-08	CLIENT: PSU	PROJECT: Branford Price Miller Library
DRAWN BY: DKR	LOCATION: Portland, Oregon 97201	
PAGE #: SAM - 1/9	PROJECT #: PJ6805	

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Branford Price Miller Library
Subbasement
Samples Locations

Report North

No Scale

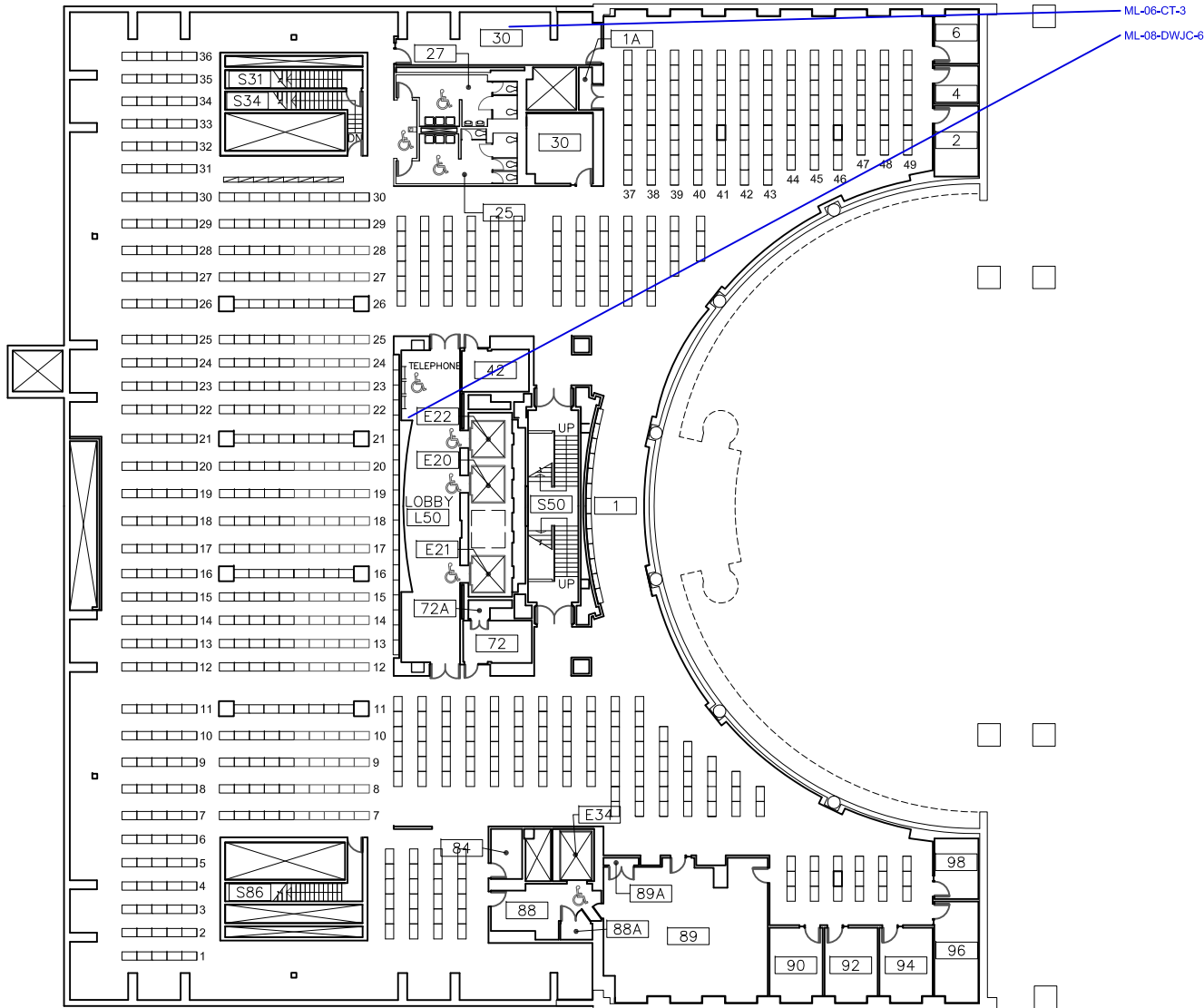
Sample ID # Key
PSU Provided Building Code
Homogeneous Material #
Material Code - Click for Details
ACM Shown in Red
Non-ACM Shown in Blue
ABC-00FT-1

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* - This sample is part of a set in which one of the samples tested positive for asbestos.
** - This sample contained a trace amount of asbestos.

Basement



DATE: 7-22-08
 PROJECT: PSU Branford Price Miller Library
 LOCATION: Portland, Oregon 97201
 DRAWN BY: DKR
 PROJECT #: PJE805
 PAGE #: SAM - 219

REVISIONS

NO.	DATE	DESCRIPTION

Branford Price Miller Library
 Basement
 Samples Locations

Report North



No Scale

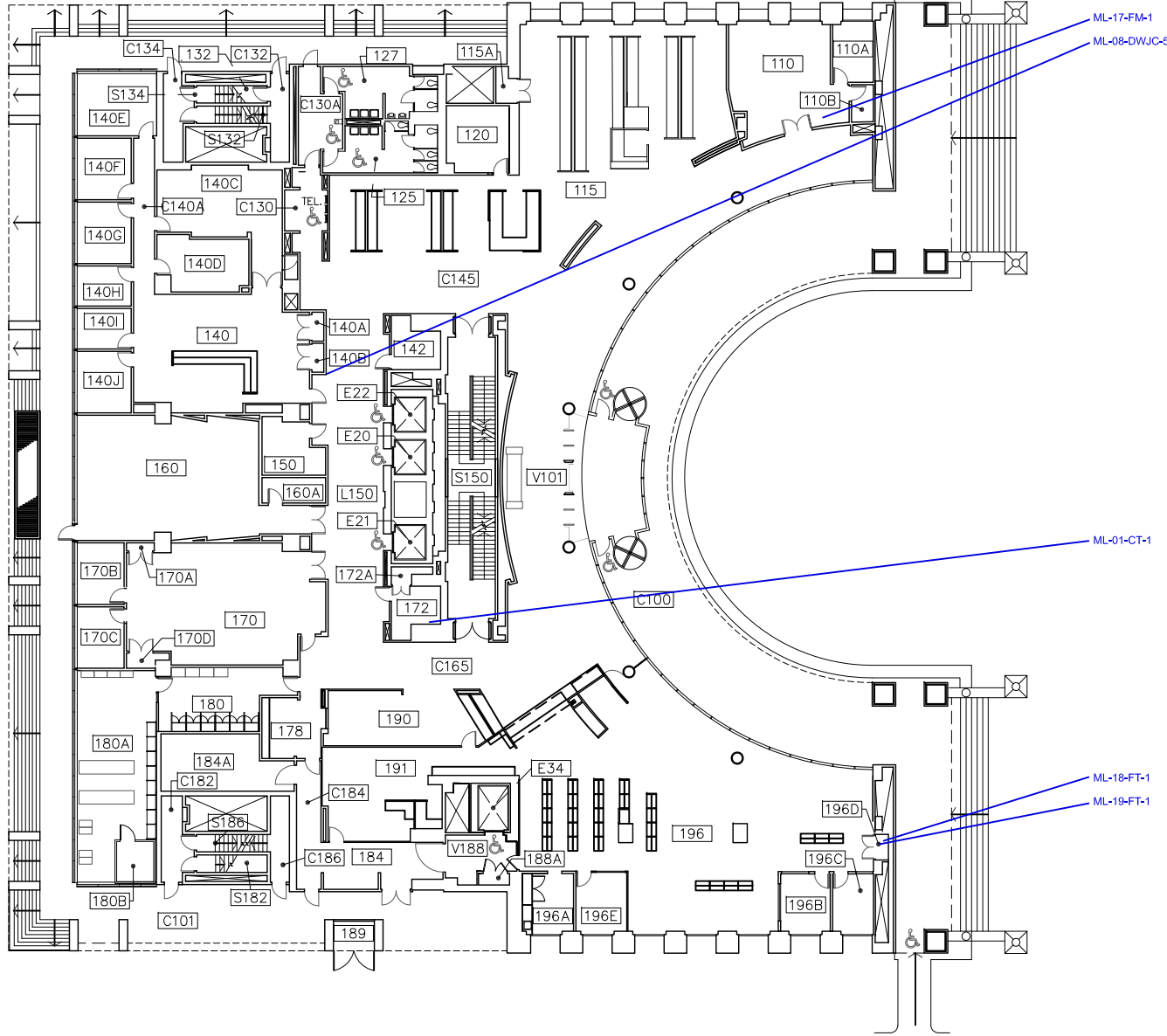
Sample ID # Key
 PSU Prescribed Practices Cycle
 Heterogeneous Material 4
 Natural Crust - Click for Details
 Sample Colors in Red
 None-ACM Shown in Blue
 AEC-08-F-1

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 ** - This sample contained a trace amount of asbestos.

1st Floor



DATE:	7-22-08
CLIENT:	PSU Branford Price Miller Library
PROJECT:	Asbestos Sampling
LOCATION:	Portland, Oregon 97201
DRN BY:	DKR
PAGE #:	SAM - 3/9
PROJECT #:	PJ6805

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Branford Price Miller Library
1st Floor
Samples Locations

Report North

No Scale

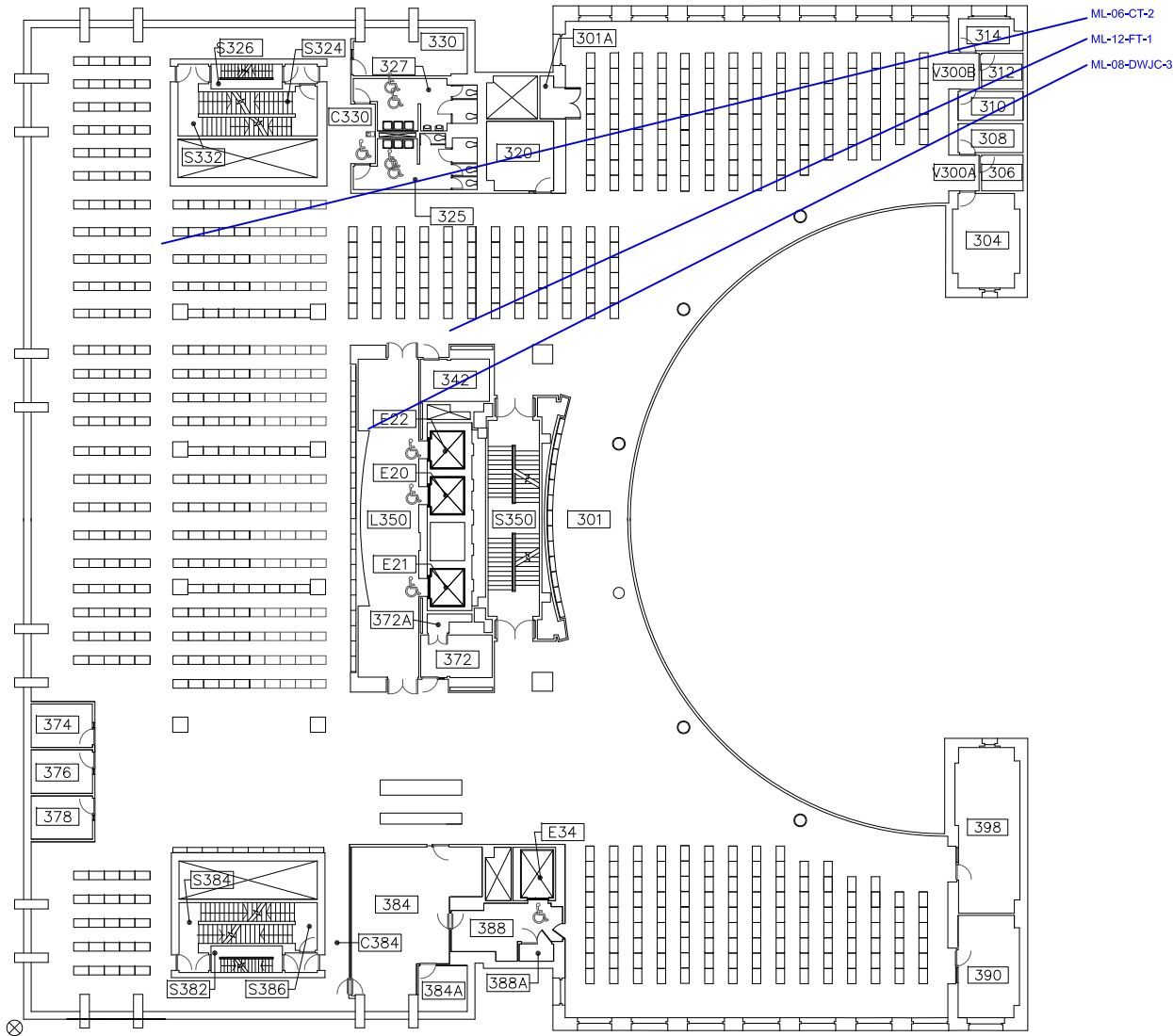
Sample ID # Key	PSU Branford Price Miller Library
	Asbestos Sampling
	Material Code - Click for Details
	AEC-00-F-1
	Sample Location in Bed
	None-ACM Shown in Blue

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* - This sample is part of a set in which one of the samples tested positive for asbestos.
** - This sample contained a trace amount of asbestos.

3rd Floor




DATE:	7-22-08
PROJECT:	PSU Branford Price Miller Library
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PAGE #:	SAM -519
PROJECT #:	PJ606

REVISIONS

Branford Price Miller Library
3rd Floor
Samples Locations

Report North



No Scale

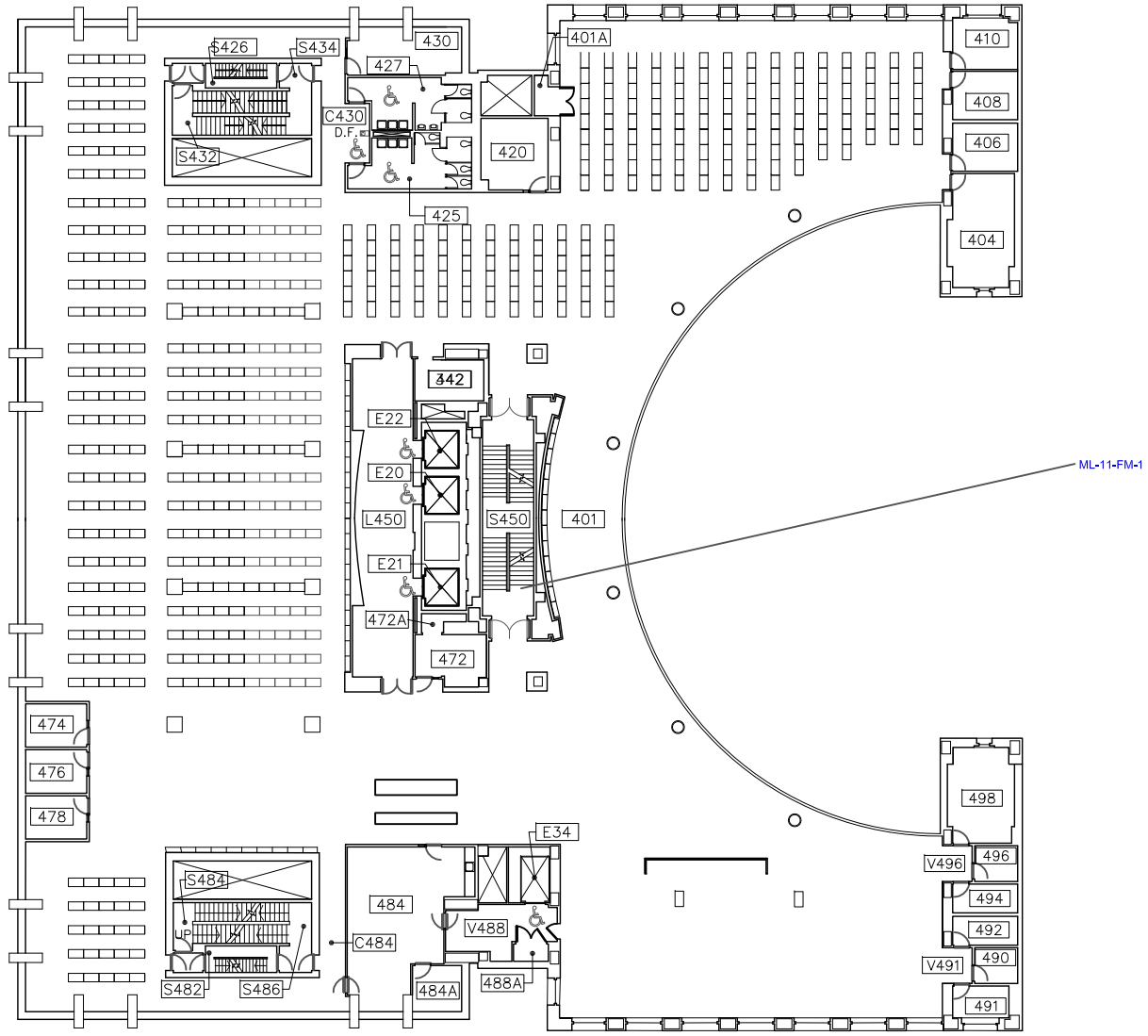
Sample ID # Key	aec-06-FT-1
PSU Branford Price Miller Library	
Homogeneous Material 4	
Natural Cracks - Click for Details	
Sample Location in Bed	
None-ACM Shown in Bluer	

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* - This sample is part of a set in which one of the samples tested positive for asbestos.
** - This sample contained a trace amount of asbestos.

4th Floor



DATE: 7-22-08
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 PROJECT #: PJE005
 PAGE #: SAM - 6/9

REVISIONS

NO.	DATE	DESCRIPTION

Branford Price Miller Library
 4th Floor
 Samples Locations

Report North

No Scale

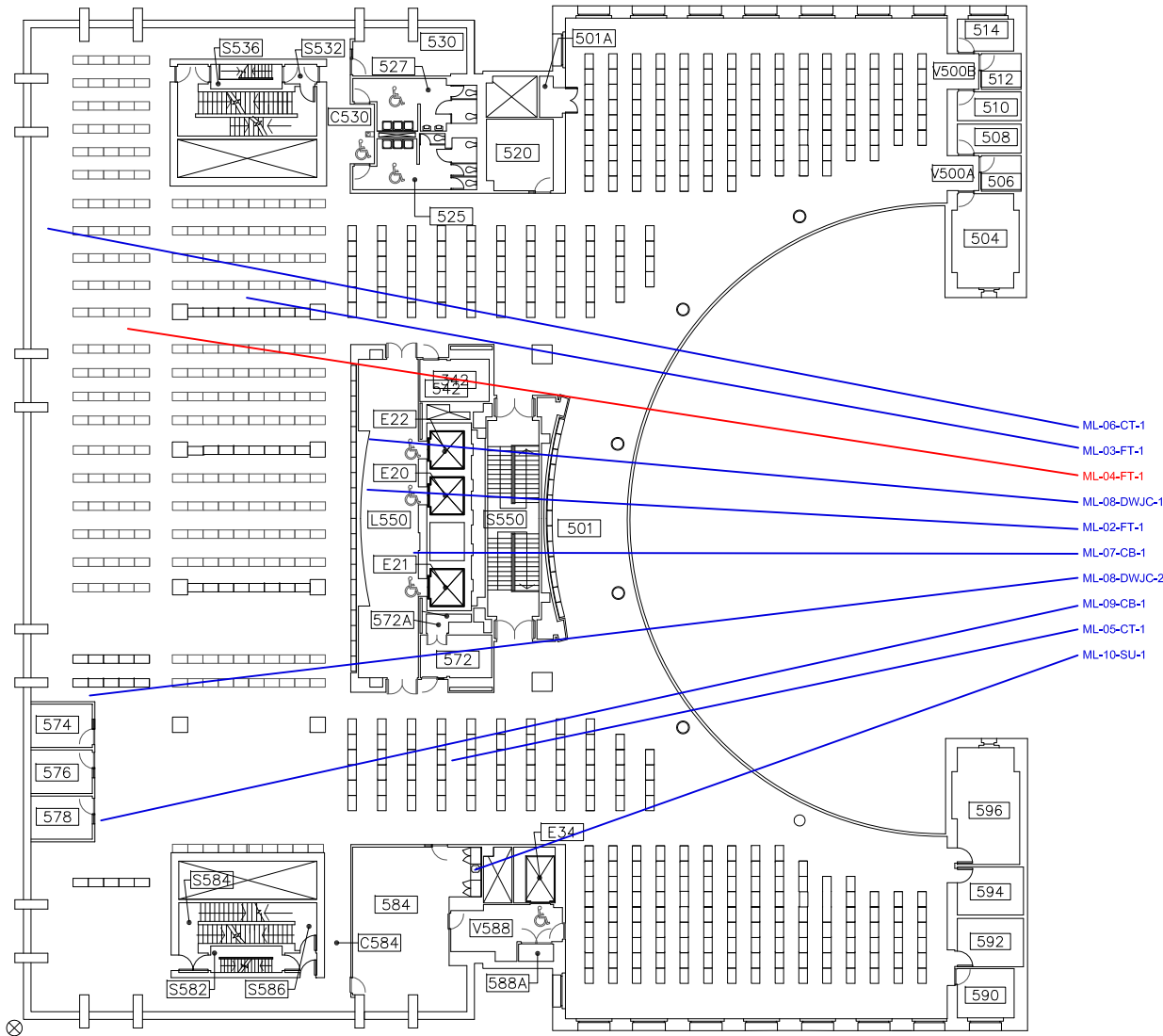
Sample ID # Key
 PSU Prescribed Practices Cycle: Heterogeneous Material & Natural Cracks - Click for Details
 Sample Reference in Bed: AEC-07-F-1
 None-ACM Shown in Blue

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* - This sample is part of a set in which one of the samples tested positive for asbestos.
 ** - This sample contained a trace amount of asbestos.

5th Floor



DATE: 7-22-08
 PROJECT: Branford Price Miller Library
 LOCATION: Portland, Oregon 97201
 DRAWN BY: DKR
 PROJECT #: P-18005
 PAGE #: SAM - 7/9

REVISIONS

NO.	DESCRIPTION

Branford Price Miller Library
 5th Floor
 Samples Locations

Report North

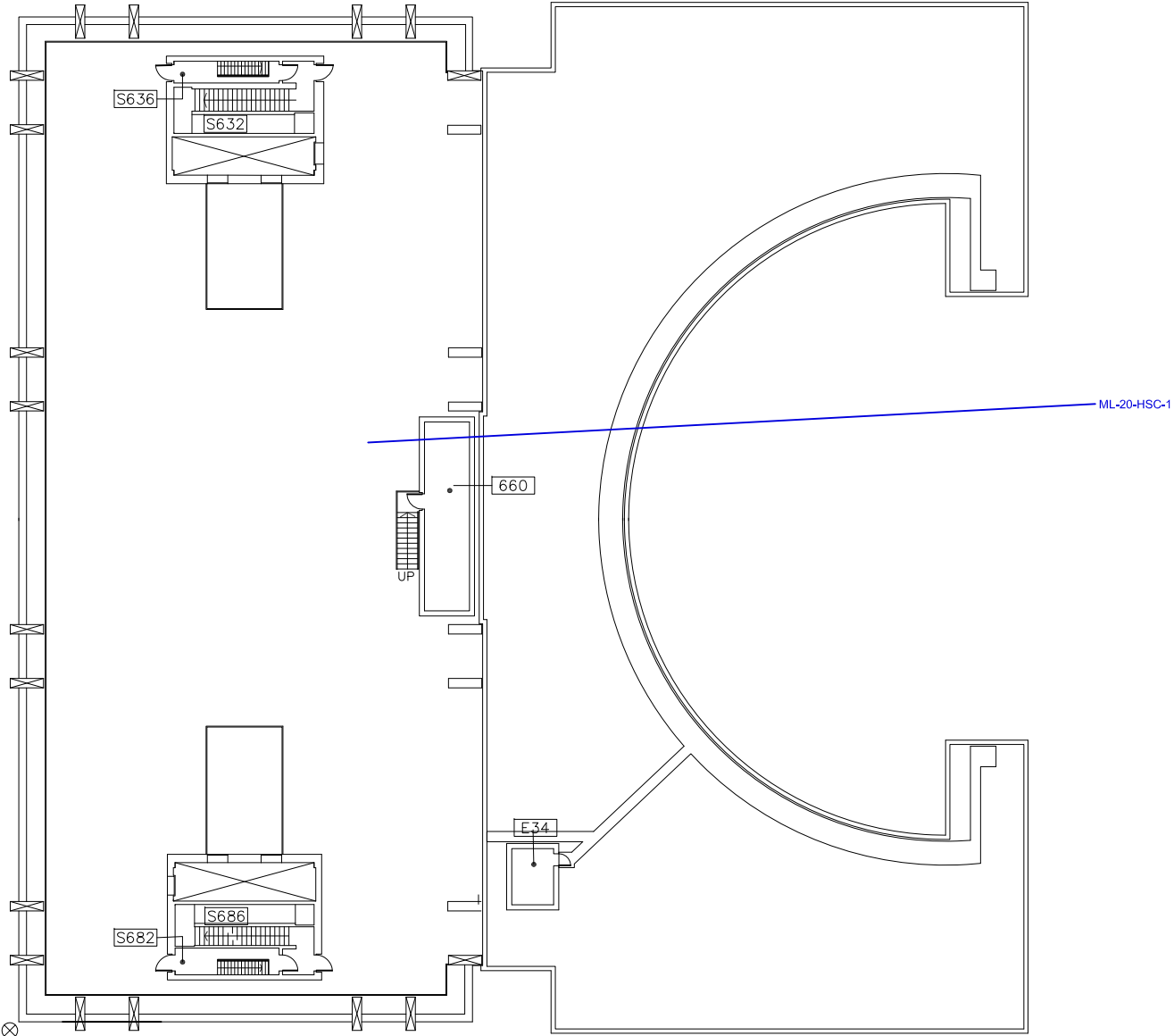
No Scale

Sample ID # Key
 * - This sample is part of a set in which one of the samples tested positive for asbestos.
 ** - This sample contained a trace amount of asbestos.

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* - This sample is part of a set in which one of the samples tested positive for asbestos.
 ** - This sample contained a trace amount of asbestos.

Penthouse



DATE: 7-22-08	CLIENT: PSU	PROJECT: Branford Price Miller Library	LOCATION: Portland, Oregon 97201
DRN BY: DKR	PROJECT #:	PROJECT #:	
PAGE #:	PROJECT #:		
SAM - 8/9			

REVISIONS

Branford Price Miller Library
Penthouse
Samples Locations

Report North



No Scale

Sample ID # Key

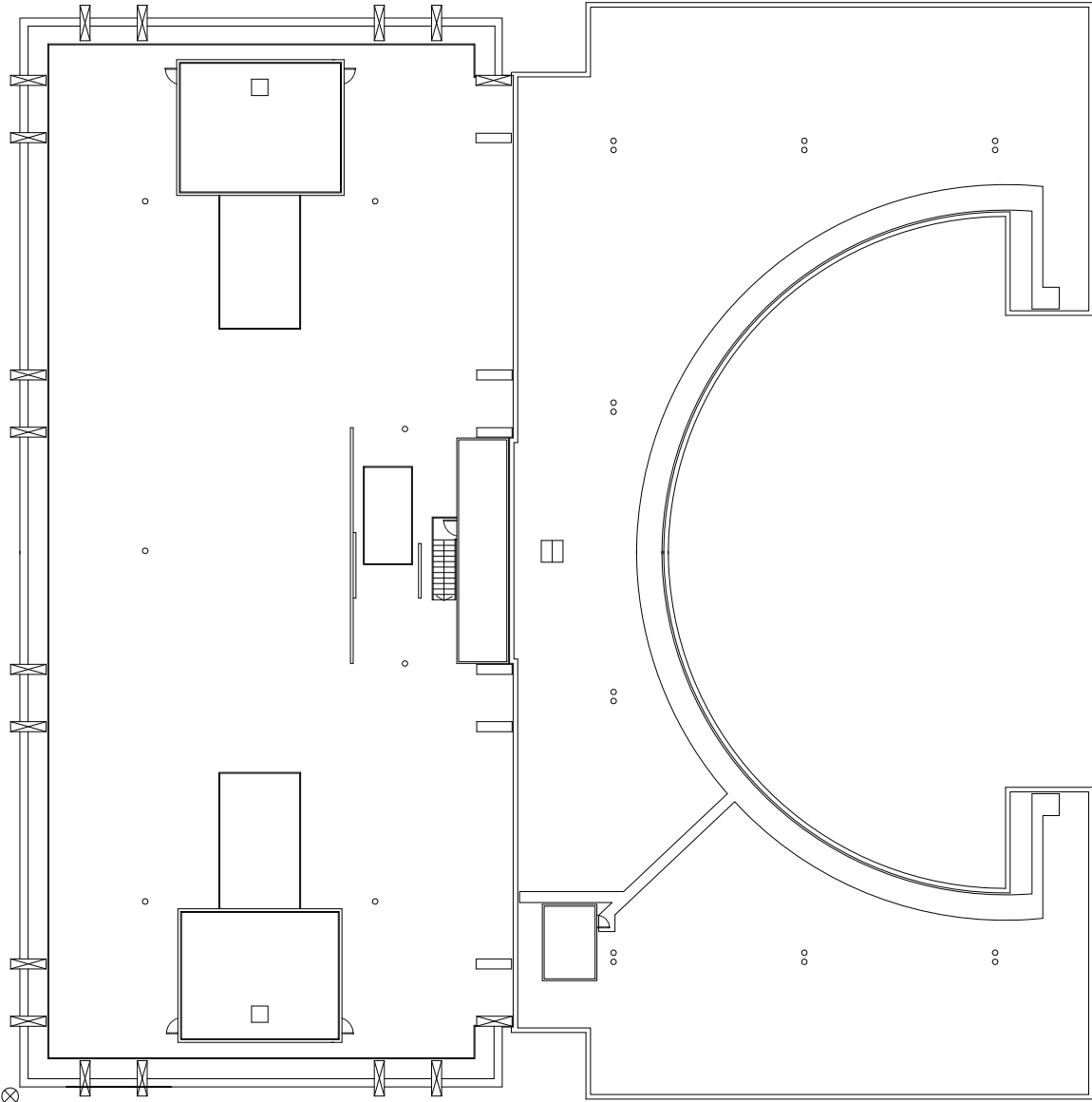
PSU Prescribed Practices Cycle:
Heterogeneous Material: **ABC-0-F-1**
Natural Crust - Click for Detail:
Sample Reference in Red
None-ACM Shown in Blue

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* - This sample is part of a set in which one of the samples tested positive for asbestos.
** - This sample contained a trace amount of asbestos.

Roof Plan



DATE: 7-22-08	CLIENT: PSU
DRN BY: DKR	PROJECT: Branford Price Miller Library
PAGE #: SAM - 919	LOCATION: Portland, Oregon 97201
	PROJECT #: PJE805

REVISIONS

Branford Price Miller Library
Roof Plan
Samples Locations

Report North



No Scale

Sample ID # Key
PSU Prescribed Practice Cycle
Homogeneous Material 2
Natural Crack - Click for Detail
Sample Taken in Bed
None-ACM Shown in Blue

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* - This sample is part of a set in which one of the samples tested positive for asbestos.
** - This sample contained a trace amount of asbestos.

APPENDIX C

**LABORATORY ANALYSIS REPORTS
AND CHAIN OF CUSTODY RECORDS**



Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Forensic Analytical Consulting Svcs
Noal Kraft
17400 SW Upper Boones Ferry Rd
Suite 245
Durham, OR 97224

Client ID: PE21
Report Number: B113586
Date Received: 06/05/08
Date Analyzed: 06/05/08
Date Printed: 06/05/08
First Reported: 06/05/08

Job ID/Site: PJ5605; Kate Vance Branford Price Millar Library (ML) 5 floors with basement and sub-basement 1875 SW Park Ave Portland OR 97201
Date(s) Collected: 06/03/2008

FASI Job ID: PE21
Total Samples Submitted: 1
Total Samples Analyzed: 1

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
ML-01-CT-1	10762907						
Layer: Grey Fibrous Tile			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (2 %)	Fibrous Glass (90 %)						

James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by Forensic Analytical at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by Forensic Analytical to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by Forensic Analytical. The client is solely responsible for the use and interpretation of test results and reports requested from Forensic Analytical. This report must not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government. Forensic Analytical is not able to assess the degree of hazard resulting from materials analyzed. Forensic Analytical reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.



Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Forensic Analytical Consulting Svcs
Noal Kraft
17400 SW Upper Boones Ferry Rd
Suite 245
Durham, OR 97224

Client ID: PE21
Report Number: B113996
Date Received: 06/17/08
Date Analyzed: 06/20/08
Date Printed: 06/20/08
First Reported: 06/20/08

Job ID/Site: PJ5605; Kate Vance Branford Price Millar Library (ML) 5 floors with basement and sub-basement 1875 SW Park Ave Portland OR 97201

FASI Job ID: PE21
Total Samples Submitted: 42
Total Samples Analyzed: 34

Date(s) Collected:

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
ML-02-FT-1	10767365						
Layer: Brown Tile			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
ML-03-FT-1	10767366						
Layer: White Tile			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
ML-04-FT-1	10767367						
Layer: Tan Tile		Chrysotile	2 %				
Layer: Black Mastic		Chrysotile	2 %				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
ML-05-CT-1	10767368						
Layer: Off-White Fibrous Tile			ND				
Layer: Silver Foil			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (2 %) Fibrous Glass (90 %)							
ML-06-CT-1	10767369						
Layer: Beige Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (35 %) Fibrous Glass (45 %)							
ML-07-CB-1	10767370						
Layer: Brown Non-Fibrous Material			ND				
Layer: Off-White Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: Forensic Analytical Consulting Svcs

Report Number: B113996

Date Printed: 06/20/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
ML-08-DWJC-1	10767371						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (10 %)						
ML-08-DWJC-2	10767372						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (10 %)						
ML-08-DWJC-3	10767373						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (10 %)						
ML-08-DWJC-4	10767374						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (10 %)						
ML-08-DWJC-5	10767375						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (10 %)						
ML-08-DWJC-6	10767376						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)	Fibrous Glass (10 %)						
ML-09-CB-1	10767377						
Layer: Tan Non-Fibrous Material			ND				
Layer: Off-White Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: Forensic Analytical Consulting Svcs

Report Number: B113996

Date Printed: 06/20/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
ML-10-SU-1	10767378						
Layer: Off-White Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (15 %) Synthetic (20 %)							
ML-11-FM-1	10767379						
Layer: Grey Tile			ND				
Layer: Tan Mastic			ND				
Layer: White Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace) Synthetic (5 %)							
ML-12-FT-1	10767380						
Layer: Grey Tile			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
ML-06-CT-2	10767381						
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (35 %) Fibrous Glass (45 %)							
ML-13-FM-1	10767382						
Layer: Brown Non-Fibrous Material			ND				
Layer: Grey Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
ML-14-CM-1	10767383						
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
ML-15-FT-1	10767384						
Layer: Blue Tile			ND				
Layer: Off-White Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
ML-16-FS-1	10767385						
Layer: Red Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
ML-17-FM-1	10767386						
Layer: Off-White Tile			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: Forensic Analytical Consulting Svcs

Report Number: B113996

Date Printed: 06/20/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
ML-18-FT-1	10767387						
Layer: Off-White Tile			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
ML-19-FT-1	10767388						
Layer: Light Green Tile			ND				
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
ML-06-CT-3	10767389						
Layer: Tan Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (35 %) Fibrous Glass (45 %)							
ML-20-HSC-1	10767390						
Layer: Grey Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
ML-21-TSI-1	10767391						
Layer: Yellow Fibrous Material			ND				
Layer: White Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Fibrous Glass (95 %) Synthetic (Trace)							
ML-21-TSI-2	10767392						
Layer: Yellow Fibrous Material			ND				
Layer: White Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Fibrous Glass (95 %) Synthetic (Trace)							
ML-21-TSI-3	10767393						
Layer: Yellow Fibrous Material			ND				
Layer: White Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Fibrous Glass (95 %) Synthetic (Trace)							
ML-22-TSI-1	10767394						
Layer: Off-White Semi-Fibrous Material		Amosite	15 %				
Total Composite Values of Fibrous Components:		Asbestos (15%)					
Cellulose (Trace) Fibrous Glass (5 %)							
ML-22-TSI-2	10767395						
Comment: Sample not analyzed due to prior positive result in series.							
ML-22-TSI-3	10767396						
Comment: Sample not analyzed due to prior positive result in series.							

Client Name: Forensic Analytical Consulting Svcs

Report Number: B113996

Date Printed: 06/20/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
ML-23-TSI-1	10767397						
Layer: Off-White Semi-Fibrous Material		Amosite	10 %				
Total Composite Values of Fibrous Components:		Asbestos (10%)					
Cellulose (Trace)	Fibrous Glass (5 %)						
ML-23-TSI-2	10767398						
Comment: Sample not analyzed due to prior positive result in series.							
ML-23-TSI-3	10767399						
Comment: Sample not analyzed due to prior positive result in series.							
ML-24-TSI-1	10767400						
Layer: Off-White Semi-Fibrous Material		Amosite	10 %				
Total Composite Values of Fibrous Components:		Asbestos (10%)					
Cellulose (Trace)	Fibrous Glass (5 %)						
ML-24-TSI-2	10767401						
Comment: Sample not analyzed due to prior positive result in series.							
ML-24-TSI-3	10767402						
Comment: Sample not analyzed due to prior positive result in series.							
ML-25-TSI-1	10767403						
Layer: Grey Semi-Fibrous Material		Chrysotile	5 %				
Total Composite Values of Fibrous Components:		Asbestos (5%)					
Cellulose (Trace)	Fibrous Glass (35 %)						
ML-25-TSI-2	10767404						
Comment: Sample not analyzed due to prior positive result in series.							
ML-25-TSI-3	10767405						
Comment: Sample not analyzed due to prior positive result in series.							
ML-26-TSI-1	10767406						
Layer: Grey Semi-Fibrous Material		Chrysotile	15 %	Amosite	5 %		
Total Composite Values of Fibrous Components:		Asbestos (20%)					
Cellulose (Trace)	Fibrous Glass (10 %)						



James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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Client: PE21 FACS Portland Portland State University	Sampled by: DKR	PM: Noal Kraft	Date: 6-4-08
Contact: Noal Kraft Phone: (503) 595-1001	Special Instructions: E-mail results to NKraft@forensica.com and rtracy@forensica.com		
Site: PJ5587 ⁵⁶⁰⁵ 5605 Kate Vance Bronford Price Miller Lib. W. Scott Center (PSC) ⁵⁶⁰⁵	Turnaround Time:	1-Day	2-Day
Client No.: C6007 FACS Job#: PJ5587	Analysis: <u>PLM Standard</u> / Point Count / Flame AA (Pb) / Other: <i>Analyze bracketed sets to 1st positive</i>	<input checked="" type="checkbox"/>	3-Day
		5-Day	Other
		Due Date & Time:	

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
ML-02-FT-1	FT, 12x12, med. brown speckled	L550			
03-FT-1	FT, 12x12, white w/ black pin-hole specks (tan)	501			
04-FT-1	FT, 9x9, tan w/ white + brown specks (black)	501			
05-CT-1	CT, 2x2, textured pinhole	501			
06-CT-1	CT, 2x4, pinholes	501			
07-CB-1	CB, 6", brown (white)	L550			
08-DWJC-1	DWJC	L550			
2	↓	501, W side			
3	↓	L350			
4	↓	L250			

WB - Wallboard JC - Joint Compound FT - Floor Tile FTM - Floor Tile Mastic BBM - Baseboard Mastic Friable Good / Yea / No Fair / Poor

RSF - Resilient Sheet Flooring CT - Ceiling Tile SAAM - Spray-Applied Acoustical Material WT - Wall Texture

Shipped via: Fed Ex Airborne DPS US Mail Courier XXX Drop Off Other:

Relinquished by:	Received by:
Date & Time: 6-16-08	Date & Time: 6/17/08 10:02 AM

Condition Acceptable Yes No



Client: PE21 FACS Portland Portland State University	Sampled by: <u>DKR</u>	PM: Noal Kraft Date: <u>6-4-08</u>
Contact: Noal Kraft Phone: (503) 595-1001	Special Instructions: E-mail results to <u>NKraft@forensica.com</u> and <u>rtracy@forensica.com</u>	
Site: ⁵⁶⁰⁵ PJ 587 <u>Kate Vance</u> ^{ml} Rater III State Crime Lab (SCC) ⁵⁶⁰⁵	Turnaround Time:	1-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> 3-Day <input checked="" type="checkbox"/> 5-Day <input type="checkbox"/> Other <input type="checkbox"/> Due Date & Time:
Client No.: C6007 FACS Job#: PJ 587	Analysis: <u>PLM Standard</u> / Point Count / Flame AA (Pb) / Other:	

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
<u>ML08-DWJC-5</u>	<u>DWJC</u>	ISSO <u>L150</u>			
<u>6</u>		<u>501 L50</u>			
<u>7</u>	<u>VOID</u>				
<u>09-CB-1</u>	<u>CB, 4" tan (white)</u>	<u>501</u>			
<u>10-SU-1</u>	<u>SU, white</u>	<u>584</u>			
<u>11-FM-1</u>	<u>FM, gray w/ white & grey specks</u>	<u>5450</u>			
<u>12-FT-1</u>	<u>FT, 12x12, grey specked</u>	<u>301</u>			
<u>06-CT-2</u>	<u>CT, 2x4, pinholes</u>	<u>301</u>			
<u>13-FM-1</u>	<u>FT, brown, textured non-slip</u>	<u>E20</u>			
<u>14-CM-1</u>	<u>Carpet mastic, yellow</u>	<u>L250</u>			

WB - Wallboard IC - Joint Compound FT - Floor Tile FTM - Floor Tile Mastic BPM - Baseboard Mastic
 RSF - Resilient Sheet Flooring CT - Ceiling Tile SAAM - Spray-Applied Acoustical Material WT - Wall Texture

Friable Good /
 Yes / No Fair / Poor

Shipped via: Fed Ex Airborne UPS US Mail Courier XXX Drop Off Other:

Relinquished by:

[Signature]

Date & Time:

6-16-08

Received by:

[Signature]

Date & Time:

6/17/08

[Signature]

Condition Acceptable Yes No

[Signature]



Client: PE21 FACS Portland Portland State University	Sampled by: DKR	PM: Noal Kraft	Date: 6-4-08
Contact: Noal Kraft Phone: (503) 595-1001	Special Instructions: E-mail results to NKraft@forensica.com and rtracy@forensica.com		
Site: PJ5587 ⁵⁶⁰⁵ Portland Scott Center (PSC) ^{ML}	Turnaround Time:	1-Day	2-Day
Client No.: C6007 FACS Job#: PJ5587	Analysis: PLM Standard / Point Count / Flame AA (Pb) / Other:	3-Day <input checked="" type="checkbox"/>	5-Day
		Other	Due Date & Time:

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
ML-15-FT-1	FT, 24"x24", blue w/ black + white specks (grey)	V288			
16-FS-1	Firestop, red	242			
17-Fm-1	Fm, textured off white textured	110			
18-FT-1	FT, 12x12, off white specked (tan)	196D			
19-FT-1	FT, 12x12, light green specked (tan)	196D			
06-CT-3	CT, 2x4, pinkholes	30			
20-HSC-1	HVAC Seam Cmpd.	Roof			
21-TST-1	Fire Ins. ^{encapsulation} Seam Cmpd	Sub-basement SB40			
2		SB40			
3		SB40			

WB - Wallboard JC - Joint Compound FT - Floor Tile FTM - Floor Tile Mastic BBM - Baseboard Mastic
 RSF - Resilient Sheet Flooring CT - Ceiling Tile SAAM - Spray-Applied Acoustical Material WT - Wall Texture

Shipped via: Fed Ex Airborne UPS US Mail Courier Drop Off Other: _____

Friable: Yes / No Good / Fair / Poor

Relinquished by:	Received by:
Date & Time: 6-16-08	Date & Time: 6/17/08 10:00 AM

Condition Acceptable No



Client: PE21 FACS Portland Portland State University	Sampled by: DKR	PM: Noal Kraft	Date: 6-4-08				
Contact: Noal Kraft Phone: (503) 595-1001	Special Instructions: E-mail results to NKraft@forensica.com and rtracy@forensica.com						
Site: PJ5605 Kate Vance Branford Price Millar Library (ML)	Turnaround Time:	1-Day	2-Day	3-Day <input checked="" type="checkbox"/>	5-Day	Other	Due Date & Time:
Client No.: C6007 FACS Job#: PJ5605	Analysis: <u>PLM Standard</u> / Point Count / Flame AA (Pb) / Other:						

Sample Number	Material Description	Sample Location	Friable	Cond.	Quantity
ML-22-TSE-1	RIGID Pipe ins (Orange)	SB40			
↓ 2	Wavy Pipe ins (Orange)	SB40			
↓ 3	" " " "	SB40			
23-TSE-1	RIGID PIPE ins (Yellow)	SB40			
↓ 2	" " " "	SB40			
↓ 3	" " " "	SB40			
24-TSE-1	PIPE FITTING ins. on Rigid (Orange)	SB40			
↓ 2	↓	SB40			
↓ 3	↓	SB40			
25-TSE-1	PIPE FITTING ins. on Rigid (Yellow)	SB40			

WB - Wallboard IC - Joint Compound FT - Floor Tile FTM - Floor Tile Mastic BBM - Baseboard Mastic
 RSF - Resilient Sheet Flooring CT - Ceiling Tile SAAM - Spray-Applied Acoustical Material WT - Wall Texture

Friable Yes / No Good / Fair / Poor

Shipped via: Fed Ex Airborne UPS US Mail Courier XXX Drop Off Other:

Relinquished by:

[Signature]

Date & Time:

6-16-08

Received by:

[Signature]

Date & Time:

6/17/08 10:20 AM

Condition Acceptable Yes No

APPENDIX D

GLOSSARY OF TERMS

GLOSSARY OF TERMS

ACM - Asbestos-containing material: Any material containing more than one percent asbestos. This includes suspect and/or presumed ACM.

AHERA: Asbestos Hazard Emergency Response Act of 1986.

AHERA Building Inspector: A person who has successfully completed the training requirements for a building inspector established by EPA Asbestos Model Accreditation Plan; Interim Final Rule (40 CFR Part 763, Appendix C to Subpart E, I.B.3) and whose certification is current.

AHERA Project Designer: A person who has successfully completed the training requirements for an asbestos abatement project designer established by EPA regulations (40 CFR 763.90(g)) and whose certification is current.

Asbestos: Chrysotile, amosite, crocidolite, tremolite, anthophyllite, actinolite and any of these minerals that have been chemically treated and/or altered.

Asbestos Building Inspection: A written report describing an inspection using the procedures contained in EPA regulations (40 CFR 763,86) to determine whether materials or structures to be worked on, renovated, removed, or demolished (including materials on the outside of structures) contain asbestos.

Authorized Person: Any person authorized by the employer and required by work duties to be present in regulated areas.

Chain of Custody Record: Legal documentation that follows samples from collection to the laboratory indicating who has been in possession of the samples.

Competent Person: A person capable of identifying asbestos hazards, selecting appropriate control strategies and having the authority to take prompt corrective measures. Additionally, for Class I and Class II work, one who is specially trained in a training course meeting the criteria of EPA's Model Accreditation Plan (40 CFR 763) for project designer or supervisor, or its equivalent and, for Class II work, who is trained in an operations and Maintenance O & M Course developed by EPA (40 CFR 76392 (a) (2)).

Contractor: The asbestos abatement contractor.

EPA: United States Environmental Protection Agency

Friable: Asbestos-containing material that can be crumbled, pulverized or reduced to powder when dry, by hand pressure.

HEPA - High-Efficiency Particulate Air (Filter): A filter capable of trapping and retaining at least 99.97 percent of all mono-dispersed particles of 0.3 micrometers in diameter.

Intact: ACM that has not crumbled, been pulverized, or otherwise deteriorated so that its no longer likely to be bound within its matrix.

LF: Linear feet

NESHAPs: National Emission Standard for Hazardous Air Pollutants, 40 CFR part 61.

NVLAP: National Voluntary Laboratory Accreditation Program

OSHA: United States Department of Labor - Occupational Safety and Health Administration.

Owner: The legal entity, including a lessee, which exercises control over management and record keeping functions relating to a building and/or facility in which the abatement activities described in this document take place.

Owners Representative: A person authorized by the Owner to act on the Owners behalf.

PLM: Polarized Light Microscopy

PACM - Presumed Asbestos Containing Material: Thermal system insulation and surfacing material found in buildings constructed no later than 1980. The designation of a material as PACM may be rebutted through PLM analysis of samples obtained by certified inspectors.

Removal: All operations where ACM and/or PACM is taken out or stripped from structures or substrate, and includes demolition operations.

Sq. Ft.: Square feet

Surfacing Material: Material that is sprayed, troweled-on or otherwise applied to surfaces.

Suspect ACBM: Material that is suspected of containing asbestos that has not been sampled and analyzed for asbestos content.

TSI - Thermal System Insulation: ACM applied to pipes, fittings, boilers, breaching, tanks, ducts or other structural components to prevent heat loss or gain.

APPENDIX E

ACCREDITATION

Certificate of Completion

This is to certify that

Dan K. Rouse

has satisfactorily completed
4 hours of refresher training as an
Asbestos Building Inspector

to comply with the training requirements of
TSCA Title II / 40 CFR 763 (AHERA)

Certificate Number: 1029792



Instructor

EPA Provider Cert. Number: 1085



Jun 18, 2008

Date(s) of Training

Exam Score: NA

Expiration Date: Jun 18, 2009

Argus Pacific, Inc. • 1900 W. Nickerson, Suite 315 • Seattle, Washington • 98119 • (206) 285.3373 • fax (206) 285.3927

Certificate of Completion

This is to certify that

Noal C. Kraft

has satisfactorily completed
4 hours of refresher training as an
Asbestos Building Inspector

to comply with the training requirements of
TSCA Title III / 40 CFR 763 (AHERA)

Certificate Number: 10267132



Instructor

EPA Provider Cert. Number: 1085



Jul 18, 2007

Date(s) of Training

Exam Score: NA

Expiration Date: Jul 17, 2008

Argus Pacific, Inc. • 1900 W. Nickerson, Suite 315 • Seattle, Washington • 98119 • (206) 285.3373 • fax (206) 285.3927

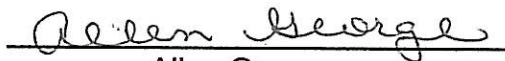
Certificate of Completion

This is to certify that

Robin Sharpe

has attended and successfully completed the requisite training for
accreditation under TSCA Title II, Part 763, Subpart E, Appendix C of 40 CFR
EPA AHERA (Asbestos Hazard Emergency Response Act),
and ASHARA Model Accreditation Program requirements for
AHERA INSPECTOR REFRESHER

as presented by
Bureau Veritas North America, Inc.



Allen George
INSTRUCTOR

Course Date: **04/29/08**
Certification # **08-1061**
Certificate Expiration Date: **04/29/09**



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