springpoint ARCHITECTS PC

ADDENDUM NO. 1

RE:	Indiana University Bloomington BL000B Multi-Building - BL147, BL414, BL419 Renovate Multiple Restrooms
OWNER:	The Trustees of Indiana University Bloomington, Indiana
PROJECT No.:	20250532
ARCH. PROJECT No.:	25-55
DATE:	February 19, 2026
ISSUED BY:	Springpoint Architects, p.c. 522 West 2nd Street Bloomington, IN 47403
TO:	Bidders

This Addendum modifies the Bidding Documents dated January 28, 2026, and will become part of the Contract Documents. Acknowledge receipt of this Addendum on Bid Form. Failure to do so may subject the Bidder to disqualification.

GENERAL CLARIFICATIONS:

1. Reference attached Pre-Bid Meeting Agenda dated February 17, 2026.
2. Reference attached Pre-Bid Sign-In Sheet dated February 17, 2026.
3. Reference attached asbestos report provided by owner.
4. Substantial Completion is **August 14, 2026** as indicated on the Bid Form.
5. All buildings are open to the public and project areas can be visited at the contractor's convenience during normal business hours. Reference attached Site Access Information.
6. HDPE Toilet Compartments are to be provided at BL147 Merrill Hall, see attached specification.
7. Stainless Steel Toilet Compartments are to be provided at BL414 Myles Brand Hall and BL419 Psychology.

CHANGES TO BIDDING REQUIREMENTS:

1. **The Bid Date has been changed to Tuesday March 3, 2026, 2:00 pm.**

CHANGES TO SPECIFICATIONS:

1. Add Section 044200 NATURAL STONE WALL PANELS, see attached.
2. Add Section 102115 HDPE TOILET COMPARTMENTS, see attached.

CHANGES TO DRAWINGS:

None

LIST OF ATTACHMENTS:

1. Pre-Bid Meeting Notes dated February 17, 2026
2. Pre-Bid Sign-In dated February 17, 2026
3. Pre-Bid Site Access Information
4. Asbestos Report provided by owner
5. 044200 NATURAL STONE WALL PANELS
6. 102115 HDPE TOILET COMPARTMENTS

END OF ADDENDUM

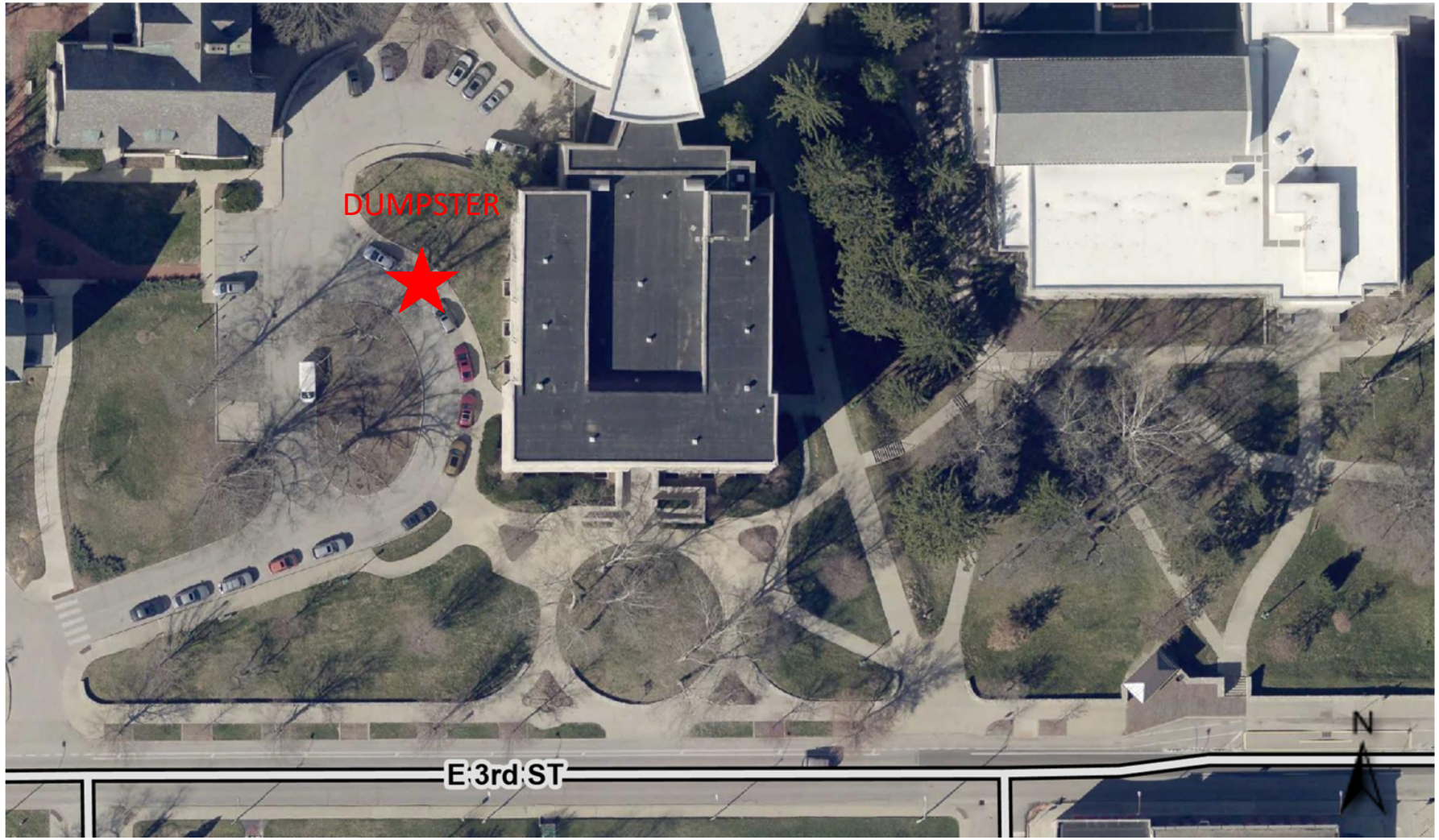
springpoint
ARCHITECTS

INDIANA UNIVERISTY - BLOOMINGTON
20250532 - BL000B Multi-Building – BL147, BL414, BL419 - Renovate Multiple Restrooms

Project No. 20250532

SIGN-IN SHEET February 17, 2026

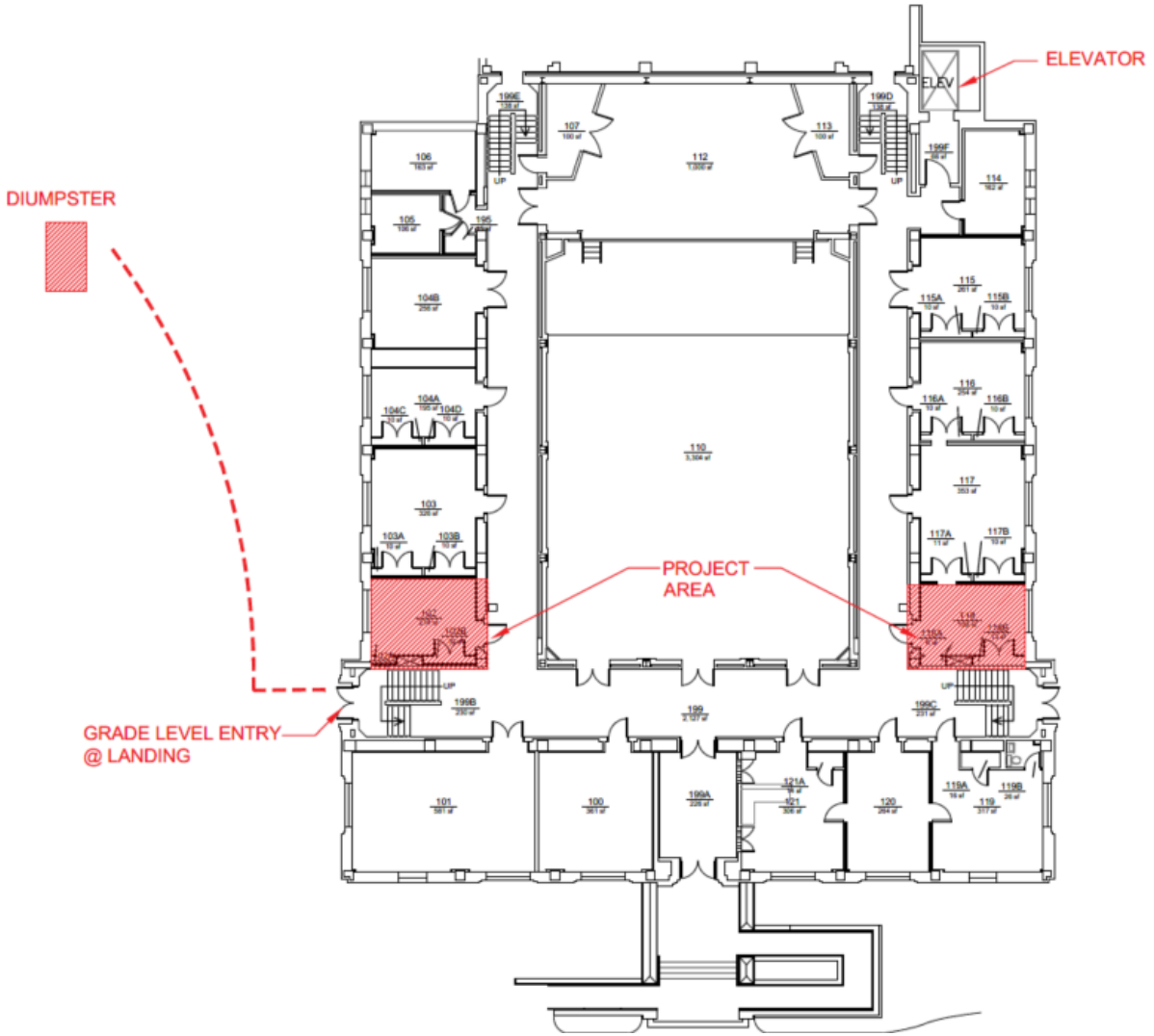
NAME	TELEPHONE	EMAIL ADDRESS
Trace Harruff	(812) 232-3327 (office)	estimating@cdiinc.net
Tyler Schlegel	812-325-6793	tschlegel@harrell-fish.com
RANDY COUCH	317-506-2110	randy@tersteP.COM
Jeremey Boner	317-294-9781	jboner@irishmechanicalservices.com
DAVID RIFFEL	812-325-5560	DARIFFEL@IU.EDU
Dawn Gray	812-219-1271	dawn@springpointarchitects.com
Sihli Ping Lin		lingp@iu.edu
Andy Embrey (Embrey Construction	317-760-7599	andy@embreyconstruction.net



BL147 MERRILL HALL – AERIAL VIEW

BL147, BL414, BL419

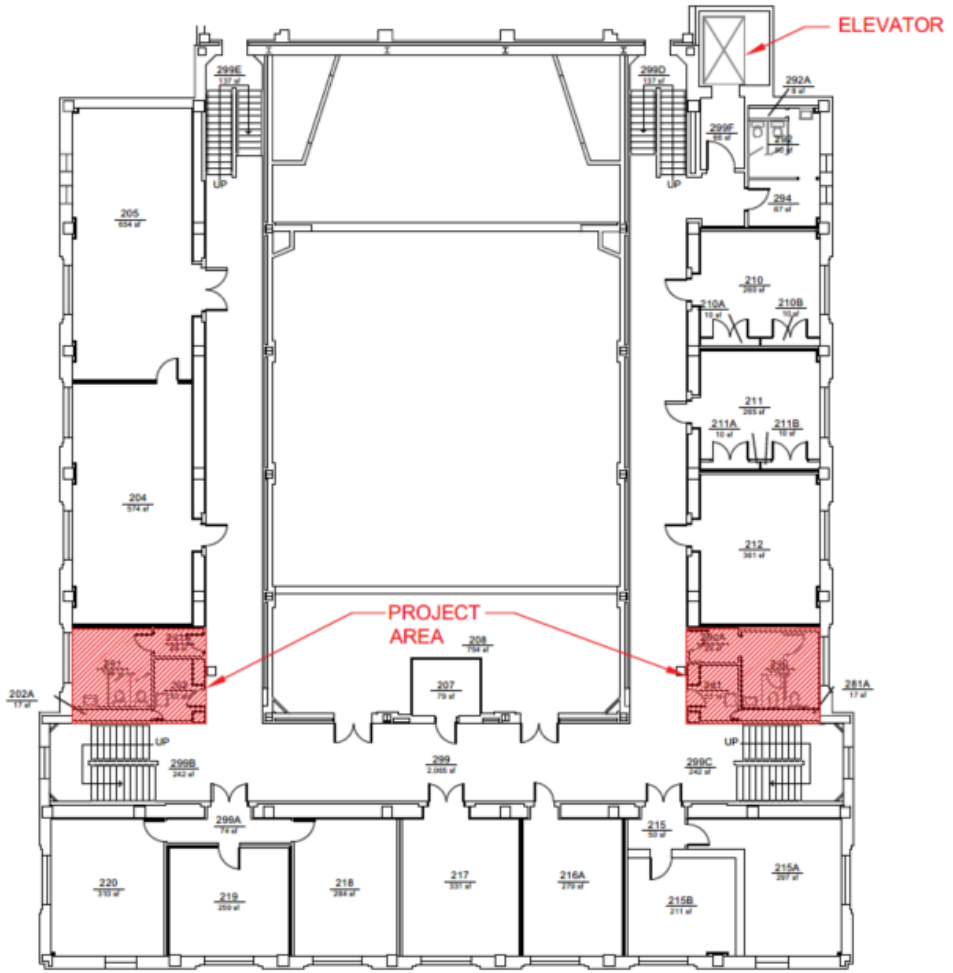
RENOVATE MULTIPLE RESTROOMS



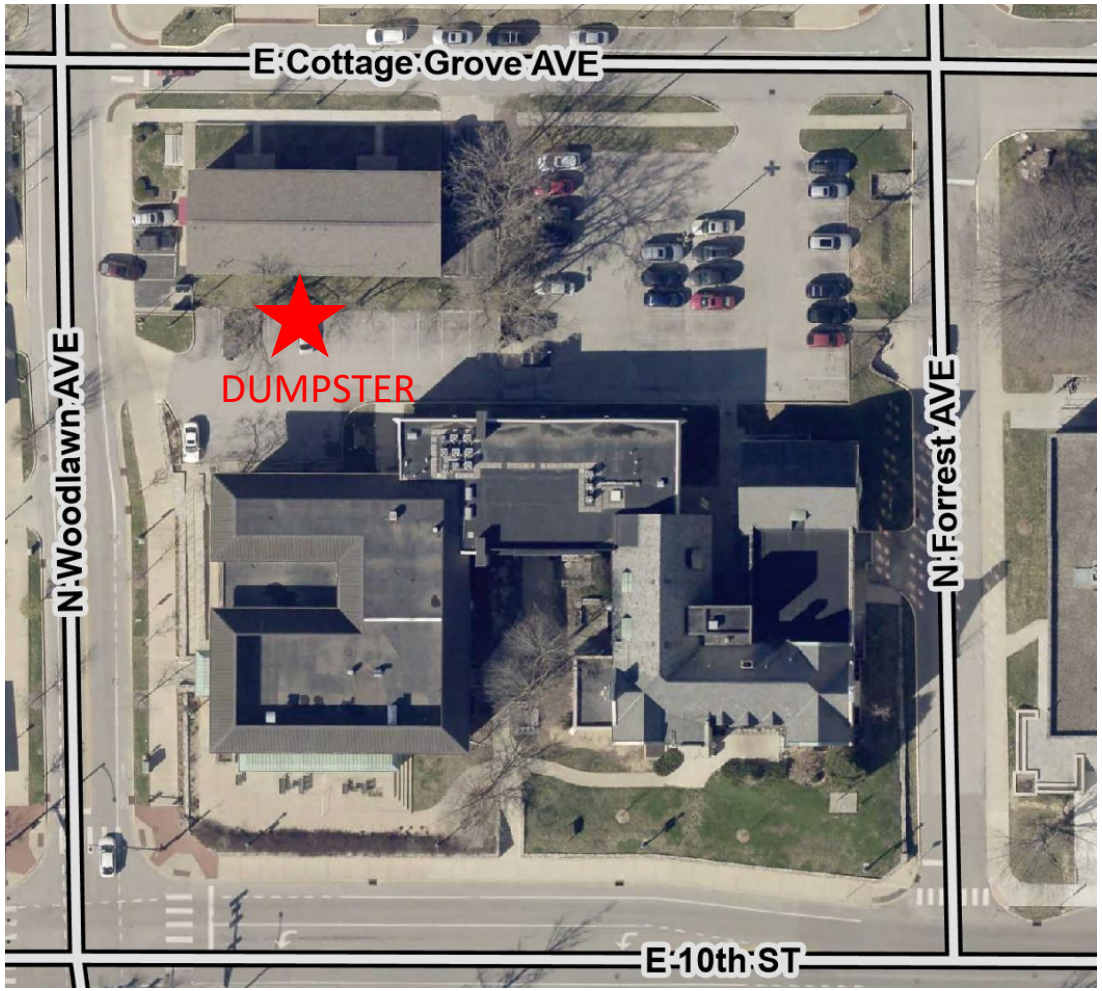
BL147 MERRILL HALL – FIRST FLOOR

BL147, BL414, BL419

RENOVATE MULTIPLE RESTROOMS



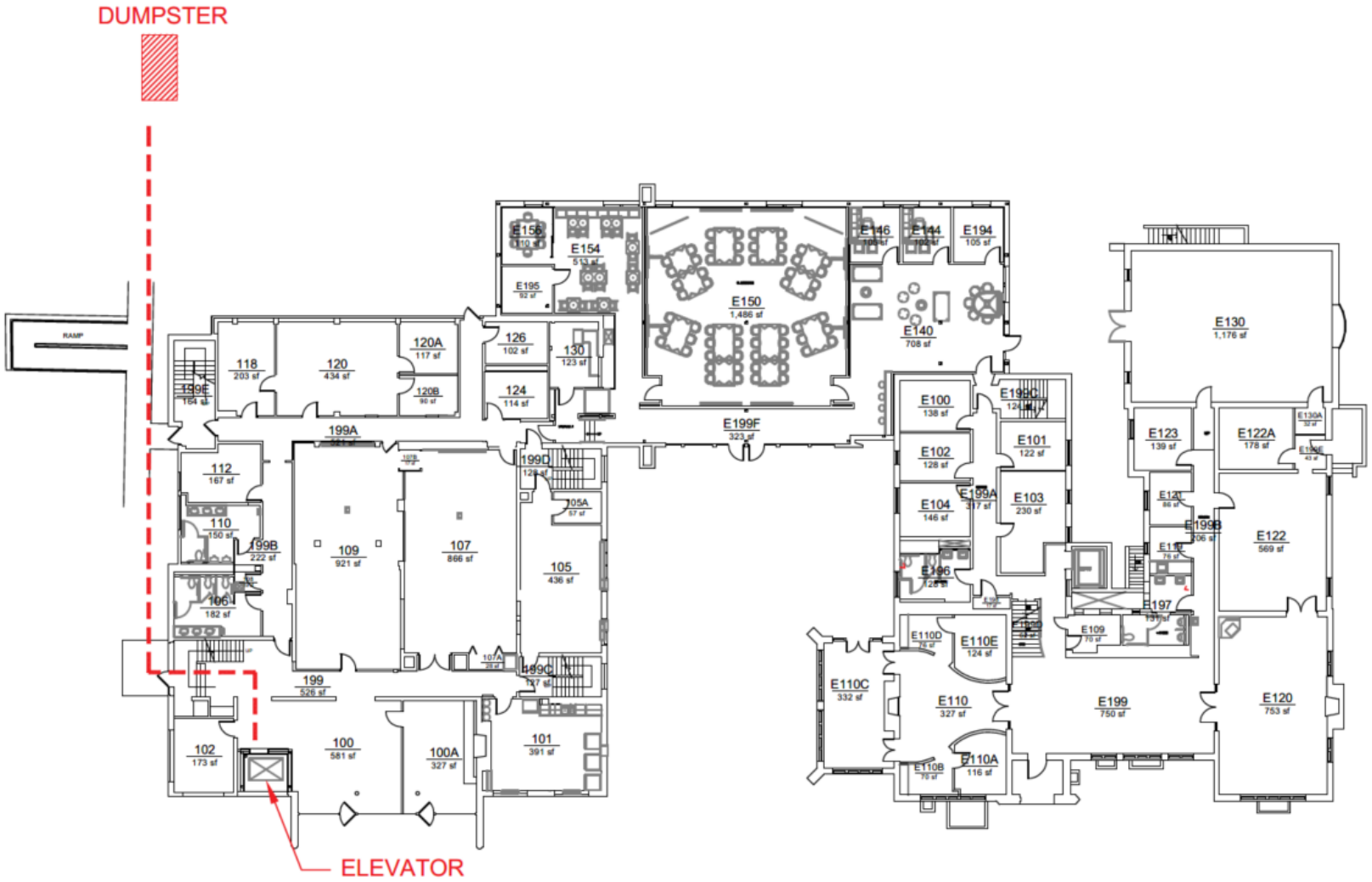
BL147 MERRILL HALL – SECOND FLOOR



BL414 MYLES BRAND – AERIAL VIEW

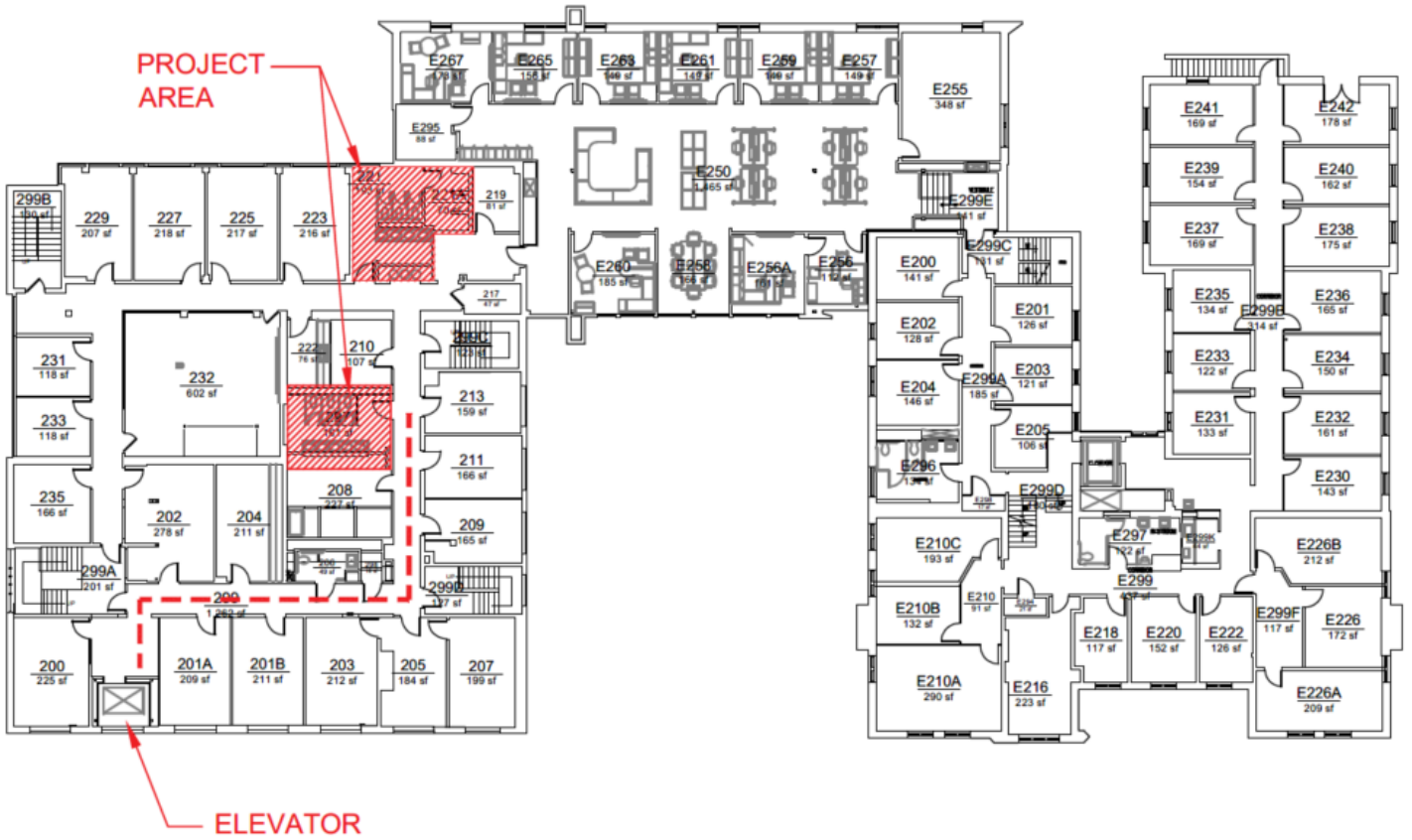
BL147, BL414, BL419

RENOVATE MULTIPLE RESTROOMS



BL414 MYLES BRAND – FIRST FLOOR

BL147, BL414, BL419
RENOVATE MULTIPLE RESTROOMS

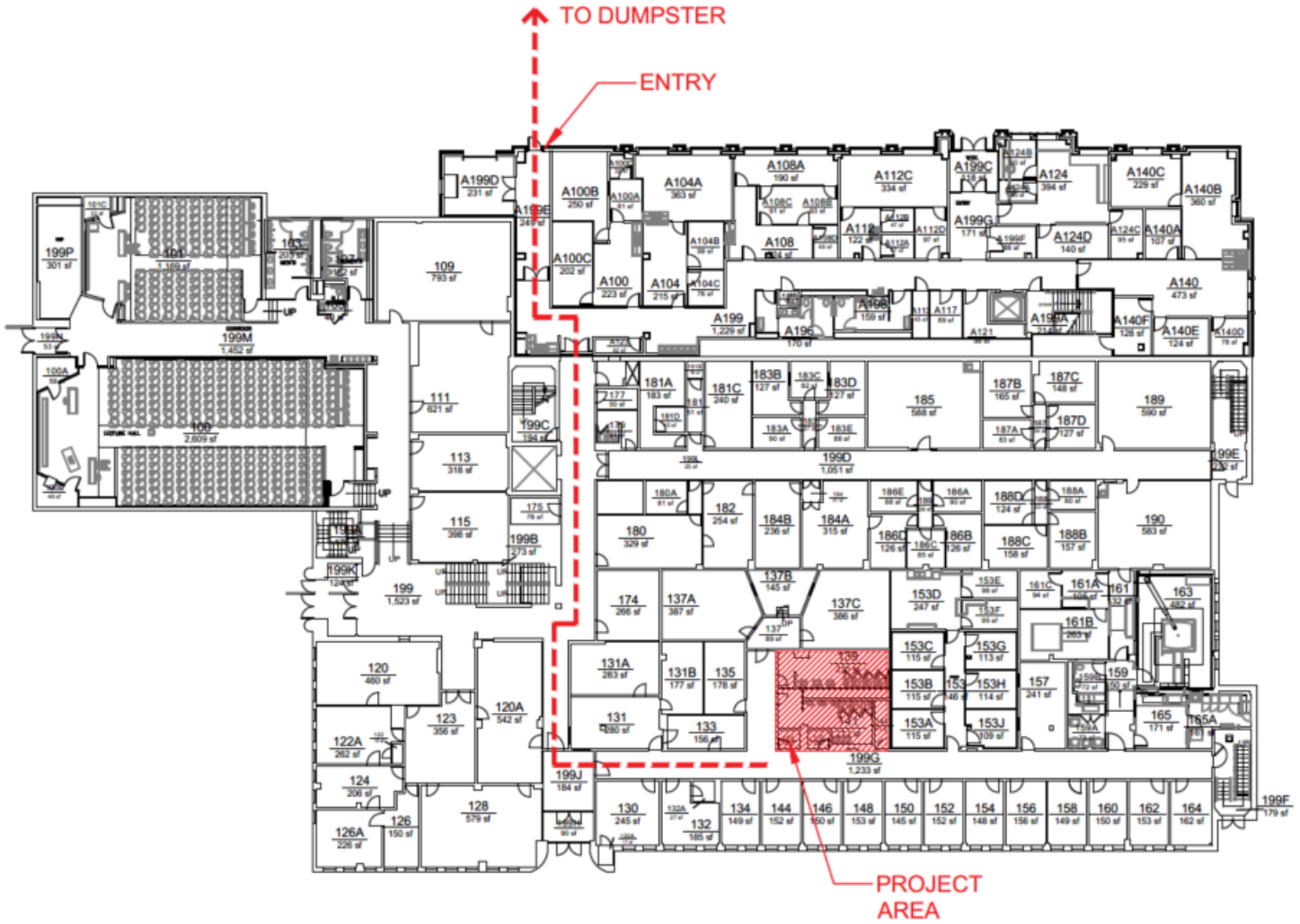


BL414 MYLES BRAND – SECOND FLOOR

BL419 PSYCHOLOGY – AERIAL VIEW

BL147, BL414, BL419

RENOVATE MULTIPLE RESTROOMS



BL419 PSYCHOLOGY – FIRST FLOOR

INDIANA UNIVERSITY
PUBLIC SAFETY
Environmental Health and Safety

To: Shih-Ping
From: Kevin Ooley
Subject: BL 419 Psychology CPF#20250532 - EHS#7201
Date: 8/27/2025

I, Kevin Ooley (IDEM Asbestos inspector license #19041407). Expiration: 7/15/2026), performed the requested evaluation of the following project.

Scope: Perform visual inspection to provide information on the amount and condition of any possible Asbestos Containing Materials (ACM) @ IU Bloomington Campus – BL419 Psychology restrooms 139,141,

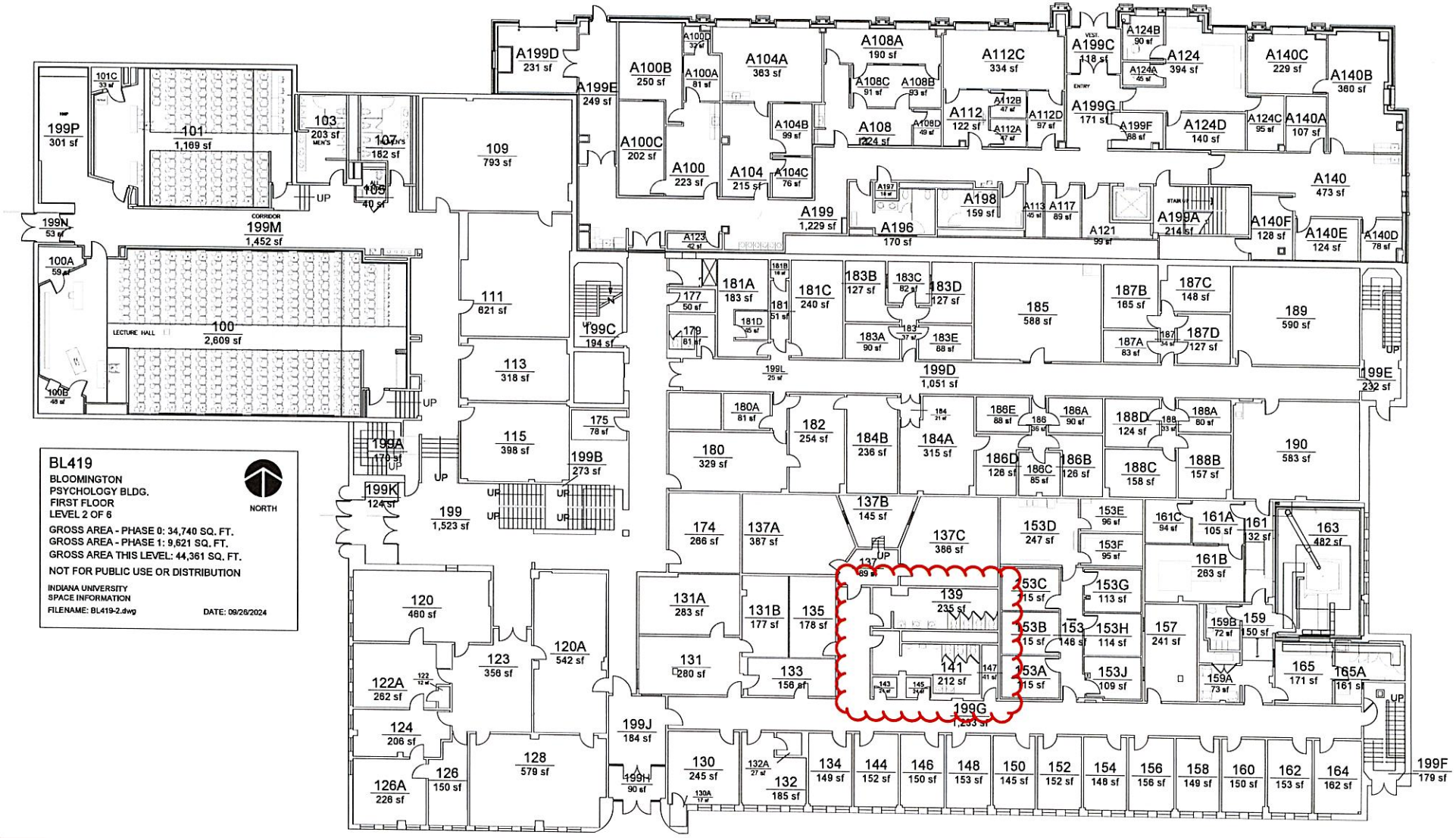
The asbestos survey was performed to prepare restrooms for full renovation in rooms mentioned above. Specifically, the following services were provided.

- Perform visual inspection to provide information on the amount and condition of suspect material present; and
- Collection of suspect ACMs within the above referenced property.
- Analysis of bulk samples utilizing Polarized Light Microscopy (PLM); and
- Generation of a final report that details all sample results, ACM locations, and recommendations based on the results.

Explanation of method used: Prior to collecting any bulk samples from the building, a walk-though/walk-around was performed. The walk-through/walk-around included a visual inspection documenting suspect ACMs, their locations, and approximate quantities. After the suspect materials were identified, bulk samples were collected and placed into individual sealable bags for transportation to an accredited laboratory.

Note: Abatement is required. All TSI ACM pipe insulation needs abated in all pipes chases and above ceilings- estimated at 90 linear feet. Abate all ACM black mastic on duct work above ceilings including the VAV boxes- estimated at 85 linear feet. See report attached.

DISCLAIMER: This inspection was conducted by an Indiana Department of Environmental Management licensed inspector. The inspection and sampling were limited to those materials that were visible or reasonably accessible at the time of the inspection. There may be hidden materials in the building. Should a suspect material become uncovered during the renovation/demolition, activity must stop, and an accredited inspector must be notified to evaluate the material.



INDIANA UNIVERSITY

PSYCHOLOGY

Building: BL419
Level: 02
Report Generated: 09/26/2024

Laboratory Services
304 S. State Avenue ▼ Indianapolis, Indiana 46201
317/756-9320 ▼ Fax 317/756-9324

August 25, 2025

Indiana University
620 North Union Drive, UN 443
Indianapolis, IN 46202

RE: 4 PLM Sample(s) Analyzed
Client Project: EHS #7201 – CPF #20250532 – BL 419 Psychology
ACT Batch No.: 25B0330
ACT Project No.: 250015

Enclosed are the sample results from the bulk asbestos analysis for the 4 sample(s) submitted to the ACT Asbestos Laboratory on August 21, 2025. Percentages were determined by visually estimating the area percentage for each type of fibrous material. Asbestos samples estimated to contain less than ten percent asbestos might require further quantification by either point counting or other alternative methods of analysis.

ACT Laboratory will hold your sample(s) for three months after the completion of analysis. At the end of the three-month period, the laboratory will dispose of the sample(s) unless prior arrangements have been made.

Samples were received in acceptable condition and analyzed at the ACT Laboratory under appropriate environmental conditions, unless noted in the comments in the following table. Enclosed test results relate only to items tested and the information provided by the customer. ACT Environmental Services, Inc. is NOT NVLAP accredited.

We trust this information is responsive to your needs. If you have any questions or comments regarding the sample analysis or results, please do not hesitate to call.

Sincerely,
ACT Environmental Services, Inc.

Nikki L. Brown
Laboratory Technical Manager
AIHA LAP, LLC Accredited Laboratory
Lab# 102853

Method Limitations: Analysis of floor tile and other resinous bound materials by Polarized Light Microscopy (PLM) may yield false negative results due to method limitations. PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative results cannot be guaranteed. ACT Environmental recommends that further analysis be conducted using TEM. For all heterogeneous samples, easily separated into sub-samples, each component will be analyzed separately and noted in lab documentation only. ACT Laboratory is not responsible for the accuracy of the results when requested to physically separate, analyze and report layered samples. Floor Tiles and other resinous bound materials may be heated by hot plate to release fibers.

Limit of Detection: According to method EPA 600/R-93/116, July 1993, the detection limit for visual estimation is a function of the quantity of sample analyzed, the nature of matrix interference, sample preparation, and fiber size and distribution. Asbestos percentages are therefore recognized as Not Detected (no asbestos fibers identified), <1% asbestos (identified but trace amount), 2-100% asbestos (recognized as asbestos containing material).

Laboratory Services
304 S. State Avenue ▼ Indianapolis, Indiana 46201
317/756-9320 ▼ Fax 317/756-9324

Lab ID # 102853

BULK SAMPLE ANALYSIS REPORT

POLARIZED LIGHT MICROSCOPY (PLM)

Performed by EPA 600/R-93/116 Method Modified

August 25, 2025

Client Project:	EHS #7201
ACT Project No.:	250015
ACT Batch No.:	25B0330
Date Sample(s) Collected:	08-20-25
Date Sample(s) Received:	08-21-25
Date Sample(s) Analyzed:	08-25-25

Notes:
- * Indicates Non-Homogeneous Sample
- ** Indicates Homogeneous Sample
- HC High Concentration
- MC Medium Concentration
- LC Low Concentration

Lab I.D. #	Client I. D. #	Sample Color / Texture	Layer (s)	Asbestos Type	%	Other Fibrous Material	%	Non-Fibrous Material	%	Comments
B252478	7201-1	Blue Hard **	1	Not Detected		Wollastonite	40	Binder	60	Ceramic Flooring
B252479	7201-2	Blue Hard **	1	Not Detected		Wollastonite	40	Binder	60	Ceramic Flooring
B252480	7201-3	Pink Hard **	1	Not Detected				Binder	100	Ceramic Flooring
B252481	7201-4	Pink Hard **	1	Not Detected				Binder	100	Ceramic Flooring

Reviewed By: Nikki Brown
Nikki L. Brown
Laboratory Technical Manager

ACT Environmental Services, Inc.
304 S. State Ave. / Indianapolis, IN / 46201
317/756-9320/fax 317/756-9324 / www.actenvironmental.com

CHAIN OF CUSTODY

Client:	Client Project Name/Location:	ACT Project No:	Lab Batch No.:
IU-EHS	EHS# 7201 - CPF# 20250532 - BL 419 Psychology	250015	25B0330

TURNAROUND TIME: ☐ RUSH – 1 hour PCM/PLM; 4 hour Lead/IAQ ☐ Same Day (in lab by 12pm/results by 5pm) ☑ 24 hours (1 day)
☐ 2 days **(PCM/IAQ/Nuisance Dust Standard)** ☐ 3 days **(LEAD/PLM Standard)** ☐ 4 days ☐ 5 days

SAMPLER:	Analyze: ALL ☐ or First positive ☑	Possible Hazards: Yes ☑ Unknown ☐	Sample Disposal: Return to Client ☐ Disposal by Lab ☑	Due Date
KO				

LABORATORY ANALYSIS:
☐ IAQ ☑ ASBESTOS ☐ LEAD ☐ OTHER _____

SAMPLE TYPE:
☐ Air ☐ PCM ☐ TEM ☑ Bulk ☐ Wipe ☐ Soil ☐ Paint
☐ Air-O-Cell ☐ Tape ☐ Swab ☐ Cyclex-D ☐ Other _____

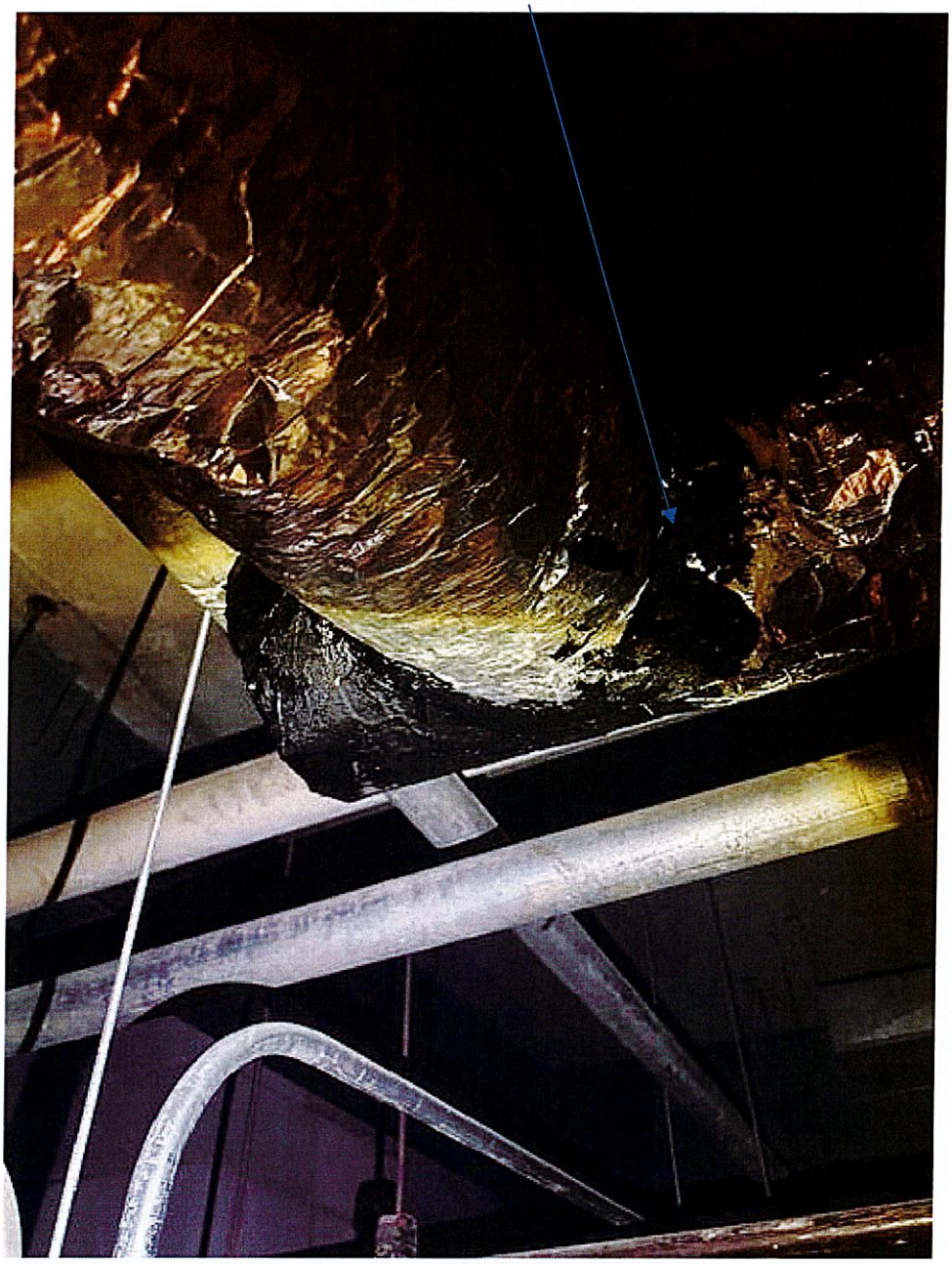
Client Sample I.D.	Sample Collection Location:	Sample Collection Date	Homogenous Area	Lab I.D.:	RESULTS:
7201-1	Room 141- blue 1"x1" ceramic flooring	08/20/25	HA-1	B252478	ND
7201-2	Room 141- blue 1"x1" ceramic flooring	08/20/25	HA-1	79	ND
7201-3	Room 139- pink 1"x1" ceramic flooring	08/20/25	HA-2	80	ND
7201-4	Room 139- pink 1"x1" ceramic flooring	08/20/25	HA-2	81	ND
7201 - 5	No samples- TSI (ACM) pipe insulation - 90 linear feet	08/20/25	HA-3		
7201-6	No samples- (ACM) black duct mastic on duct work- 85 linear feet	08/20/25	HA-4		

Relinquished By:	Date/Time:	Received By:	Date/Time:	Client Contact Name:
[signature]	8/20/2025 1:00pm	JP	8/21/25 2:00pm	Y/N ☐ Client Contact Phone:
				Y/N ☐ Client Contact Fax/Email: KOOLEY@INDIANA.EDU

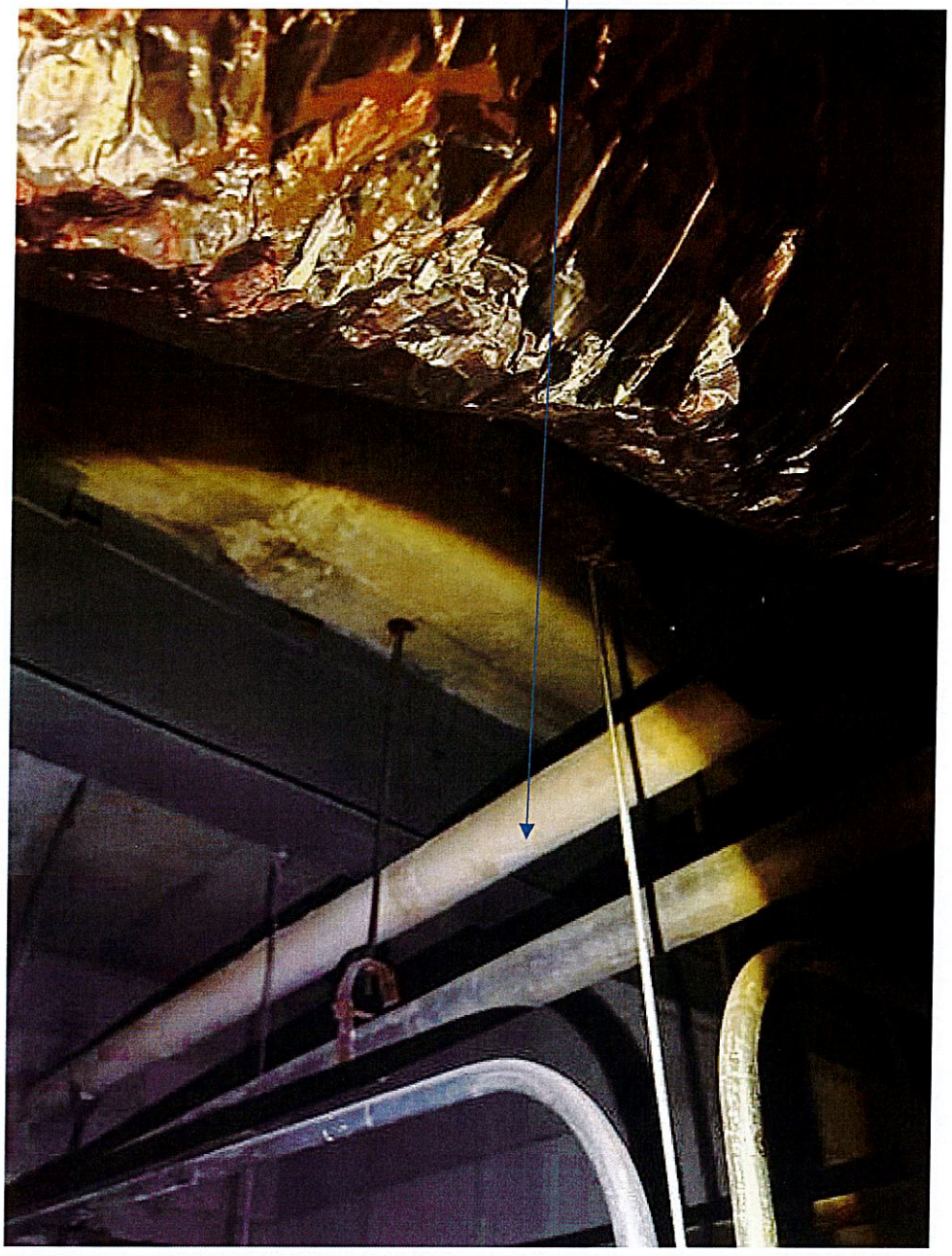
JP Analyst JP 1st QC Review NB 2nd QC Review

Revision: January 2011

Above men's and women's – plaster ceiling- ACM black mastic on duct work and VAV boxes – 85 linear feet



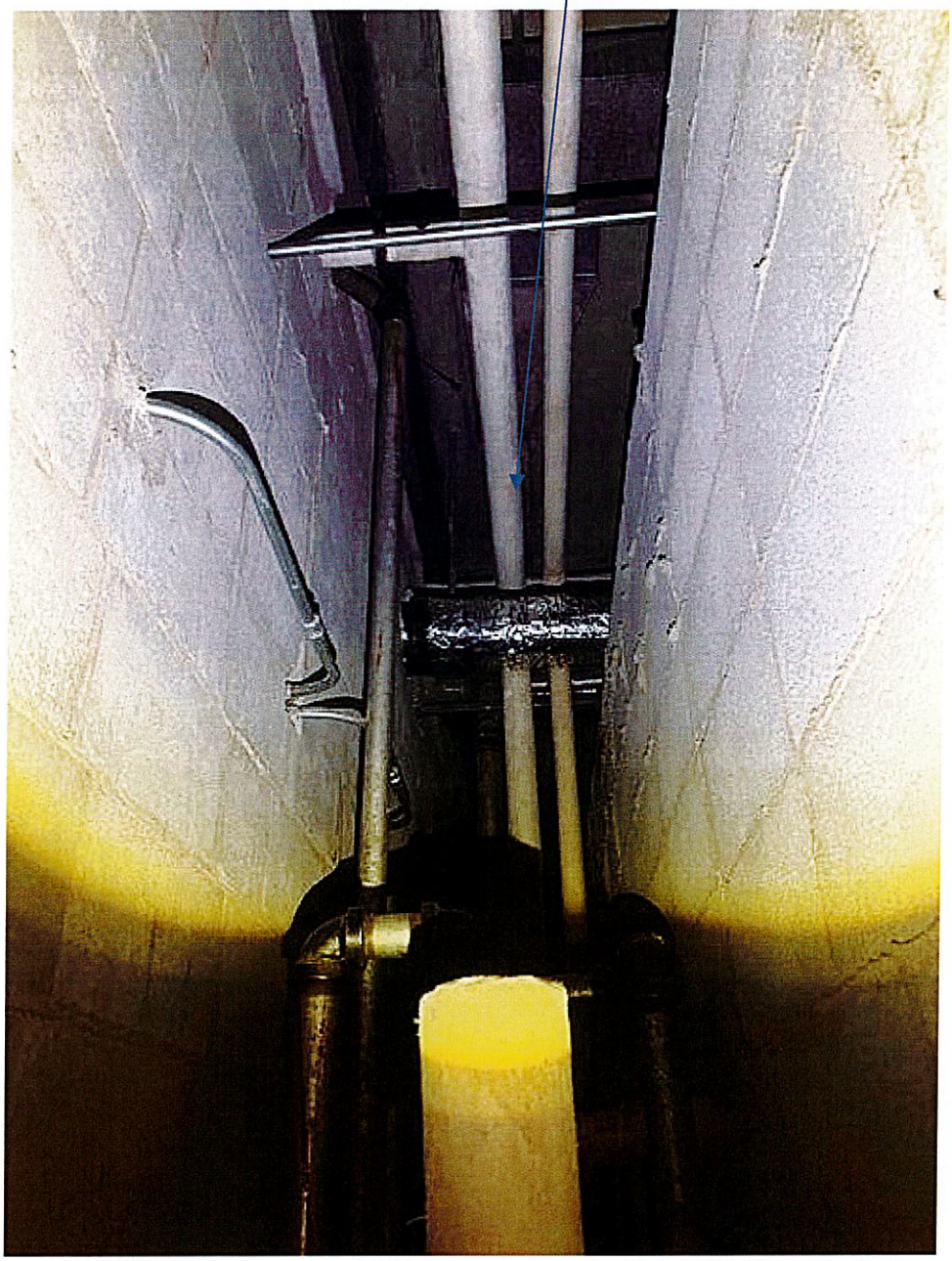
ACM pipe insulation above ceiling -



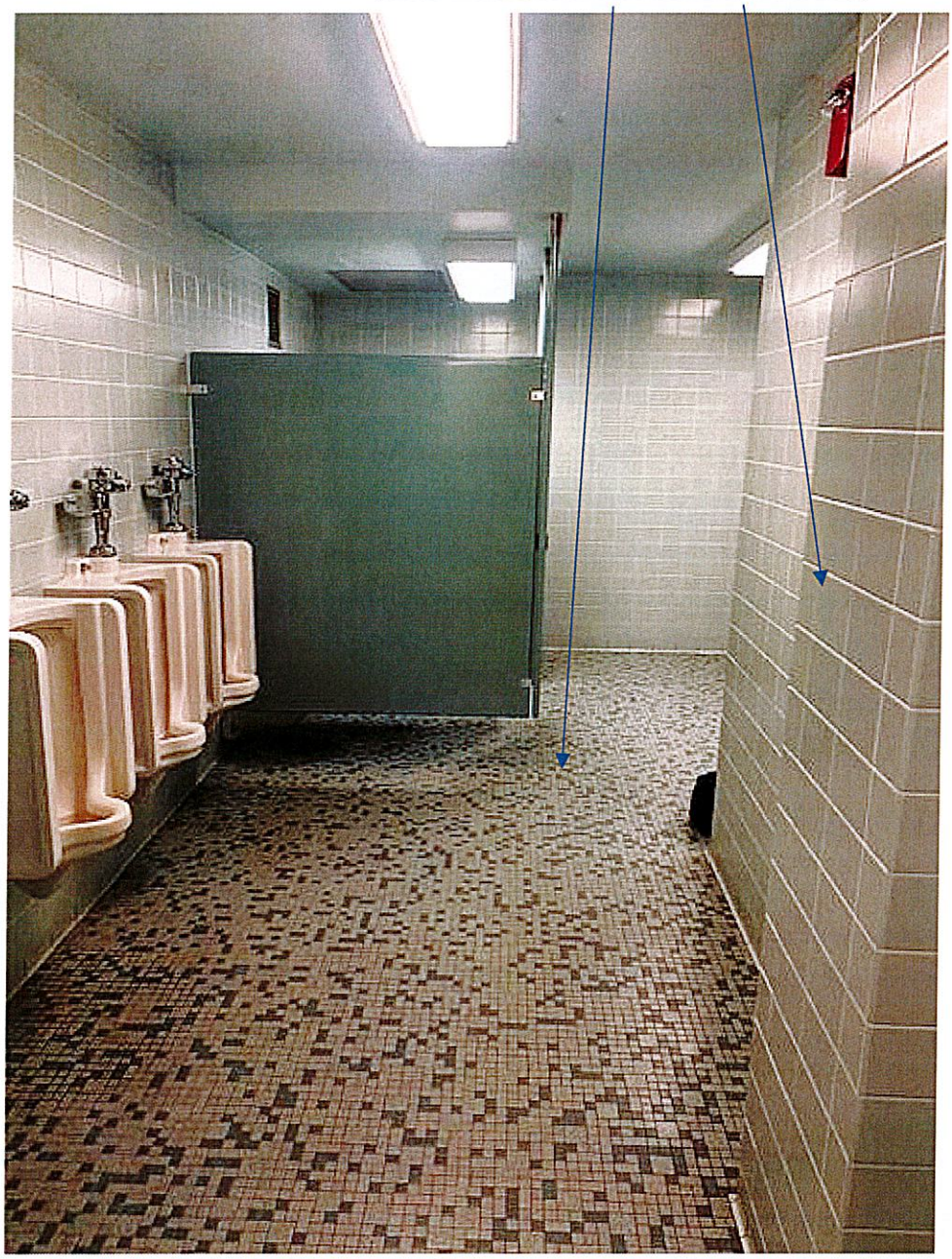
Above men's and women's – plaster ceiling- ACM black mastic on duct work and VAV boxes – 85 linear feet

Pipe chase between men's and women's restroom- 50 linear feet of TSI ACM pipe insulation

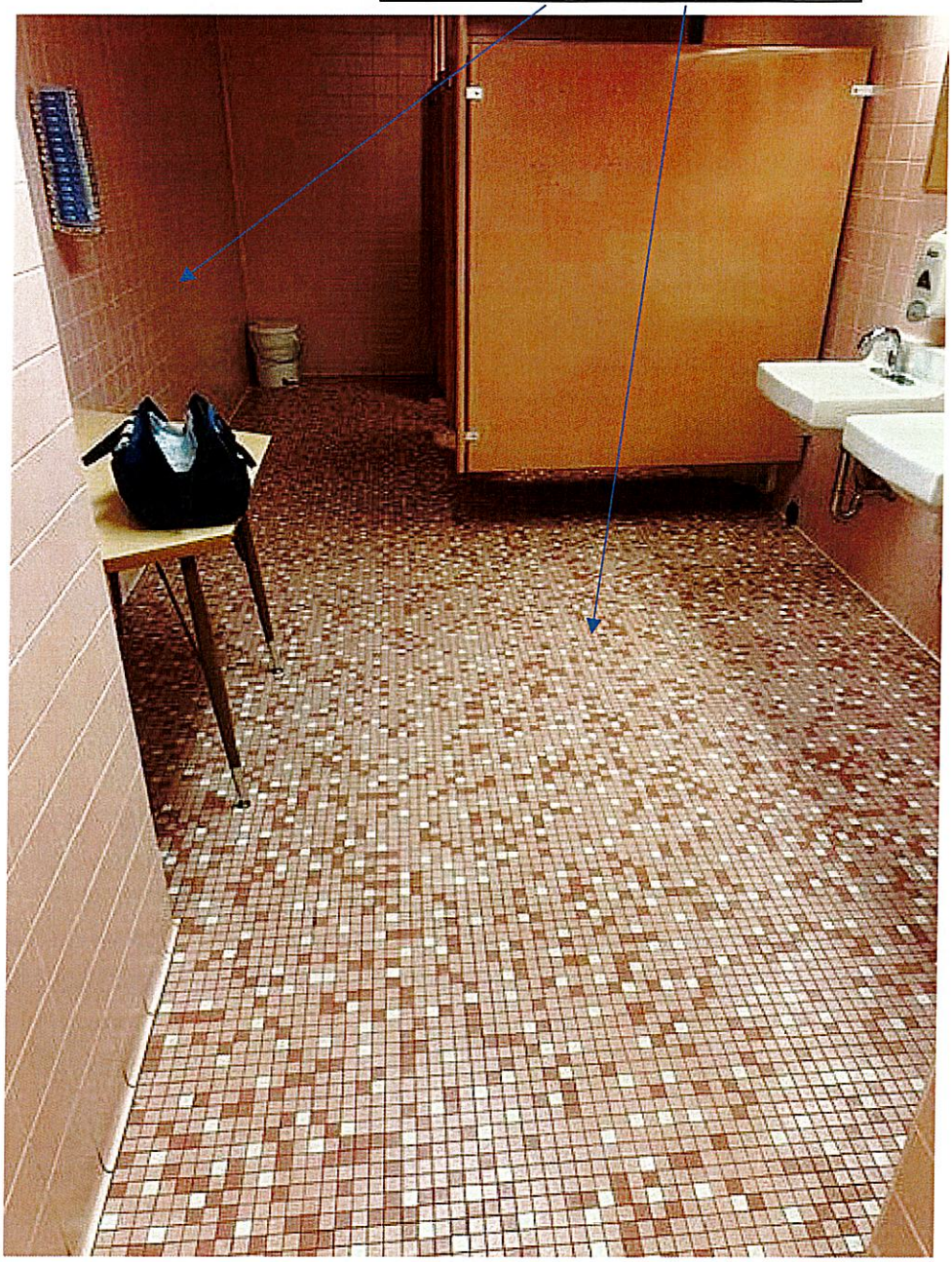
Pipe chase between men's and women's restroom- 50 linear feet of TSI ACM pipe insulation



All ceramic tiles are non- ACM

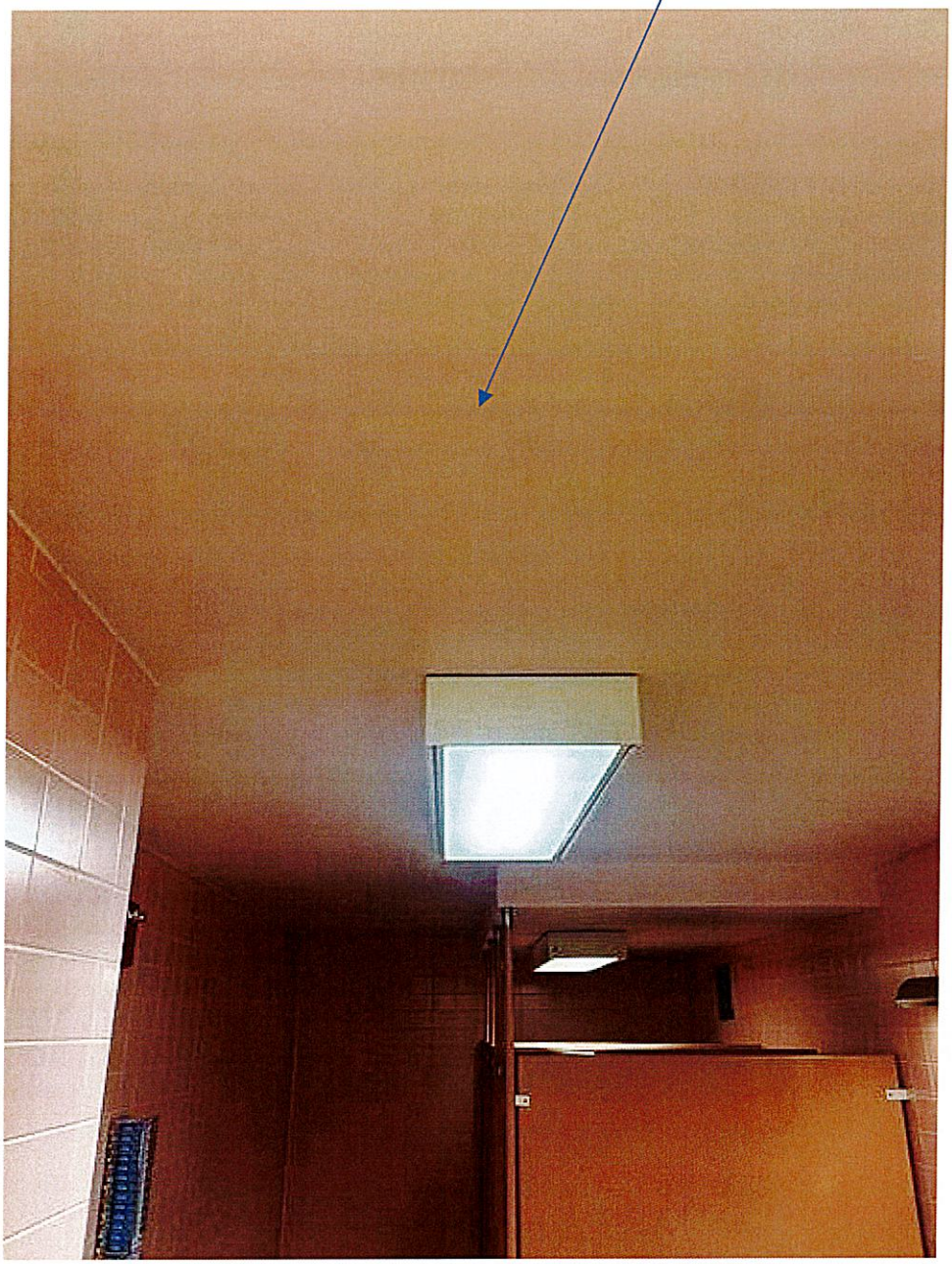


All ceramic tiles are non-ACM



Women's and men's restroom plaster ceiling- non-ACM

139, 141



INDIANA UNIVERSITY
PUBLIC SAFETY
Environmental Health and Safety

To: Shih-Ping
From: Kevin Ooley
Subject: BL 147 Merrill Hall CPF#20250532 - EHS#7198
Date: 10/10/2025

I, Kevin Ooley (IDEM Asbestos inspector license #19041407). Expiration: 7/15/2026), performed the requested evaluation of the following project.

Scope: Perform visual inspection to provide information on the amount and condition of any possible Asbestos Containing Materials (ACM) @ IU Bloomington Campus – BL 147 Merrill Hall – rooms 102,118 291,290, convert offices space into restrooms

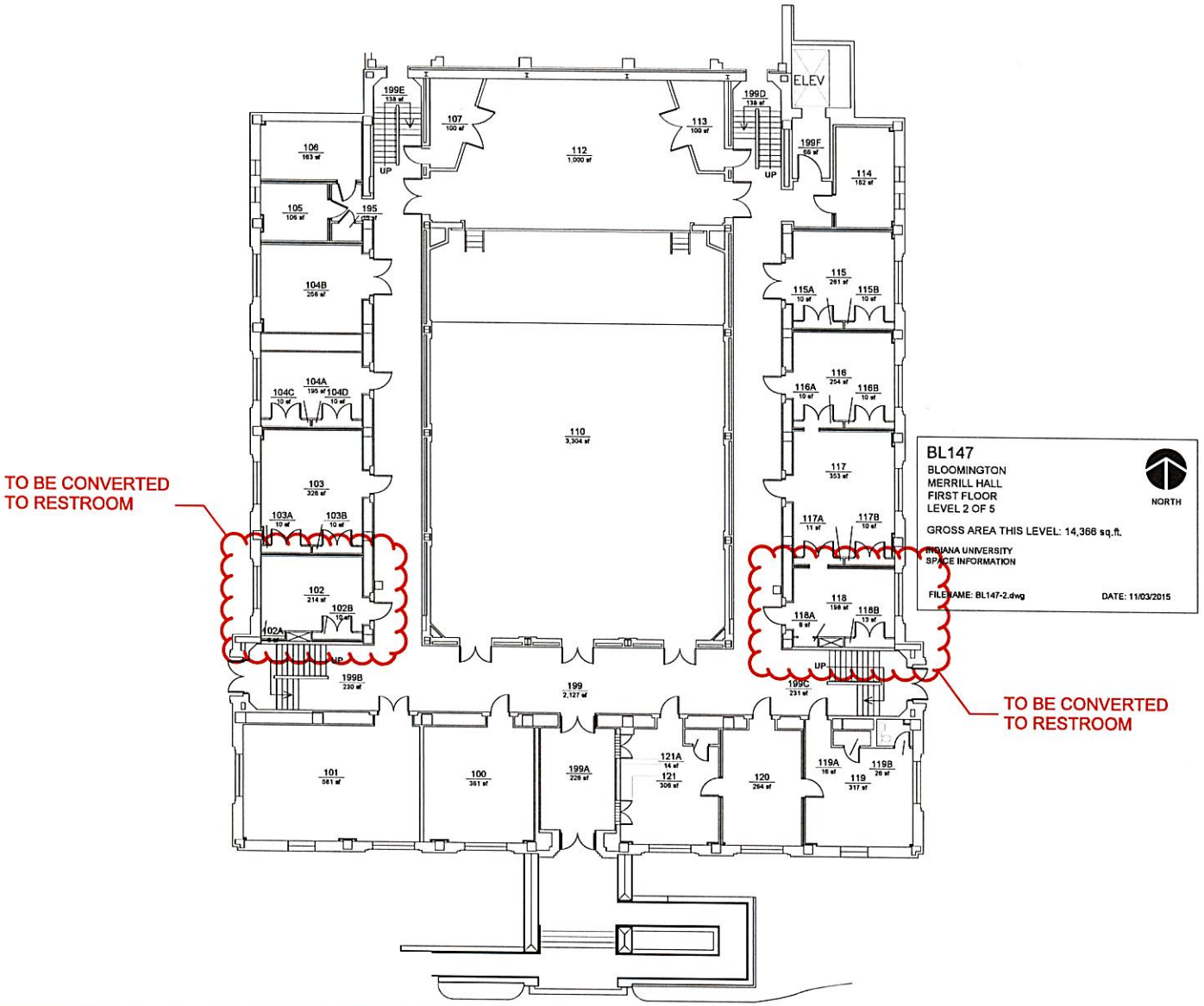
The asbestos survey was performed to prepare rooms for new restrooms in rooms mentioned above. Specifically, the following services were provided.

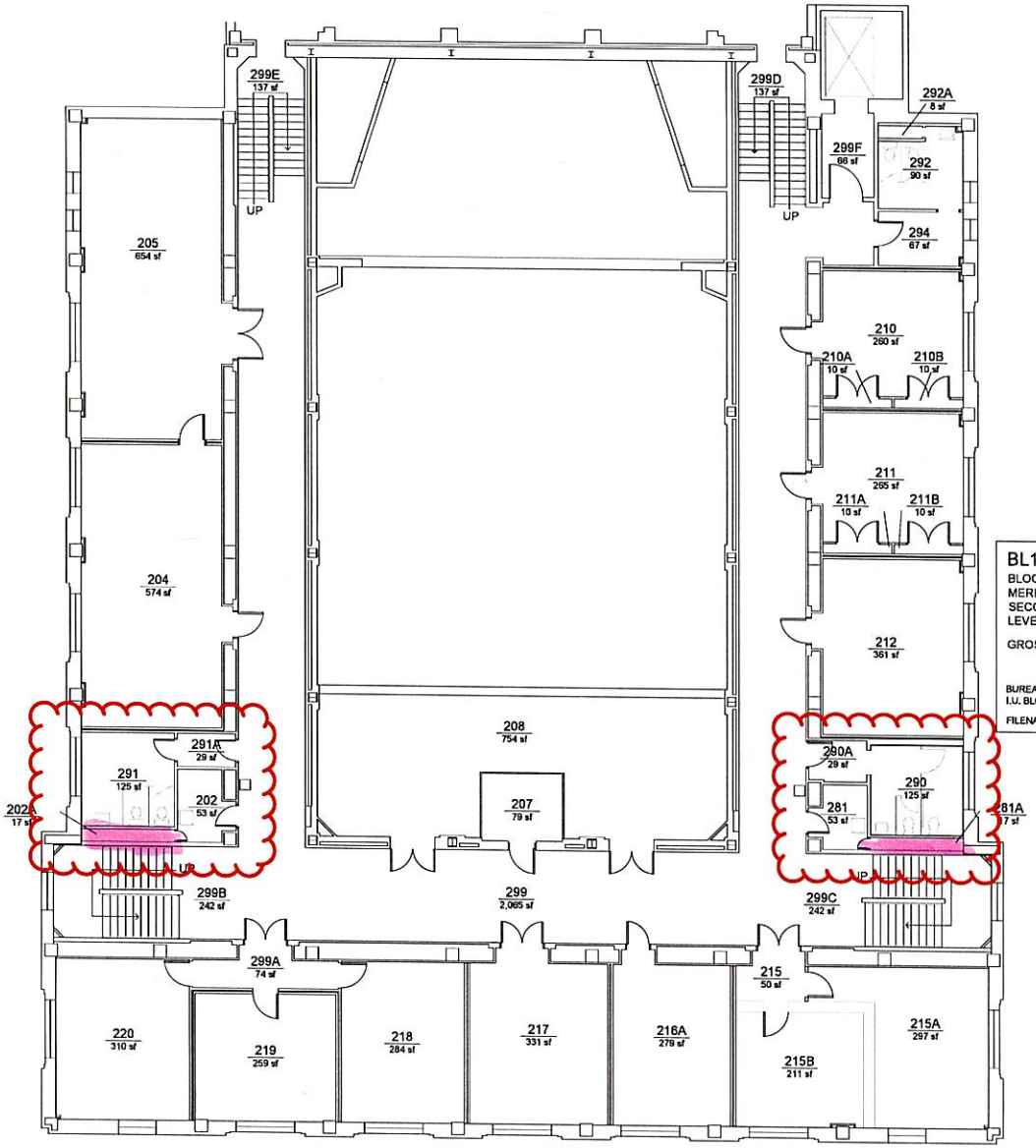
- Perform visual inspection to provide information on the amount and condition of suspect material present; and
- Collection of suspect ACMs within the above referenced property.
- Analysis of bulk samples utilizing Polarized Light Microscopy (PLM); and
- Generation of a final report that details all sample results, ACM locations, and recommendations based on the results.

Explanation of method used: Prior to collecting any bulk samples from the building, a walk-though/walk-around was performed. The walk-through/walk-around included a visual inspection documenting suspect ACMs, their locations, and approximate quantities. After the suspect materials were identified, bulk samples were collected and placed into individual sealable bags for transportation to an accredited laboratory.

Note: Abate estimated 100 linear feet of TSI ACM pipe insulation in pipe chases 290 and 291 restrooms. See lab report attached for lab results for all other materials that is (negative) for ACM.

DISCLAIMER: This inspection was conducted by an Indiana Department of Environmental Management licensed inspector. The inspection and sampling were limited to those materials that were visible or reasonably accessible at the time of the inspection. There may be hidden materials in the building. Should a suspect material become uncovered during the renovation/demolition, activity must stop, and an accredited inspector must be notified to evaluate the material.


TO BE CONVERTED
TO RESTROOM
TO BE CONVERTED
TO RESTROOM
BL147
BLOOMINGTON
MERRILL HALL
FIRST FLOOR
LEVEL 2 OF 5
GROSS AREA THIS LEVEL: 14,366 sq.ft.
INDIANA UNIVERSITY
SPACE INFORMATION
FILE NAME: BL147-2.dwg
DATE: 11/03/2015
NORTH
ELEV
UP


299E
137 sf
299D
137 sf
292A
8 sf
299F
66 sf
292
90 sf
294
67 sf
UP
UP
205
654 sf
210
260 sf
210A
10 sf
210B
10 sf
211
265 sf
211A
10 sf
211B
10 sf
204
574 sf
212
361 sf
208
754 sf
291A
29 sf
291
125 sf
202
53 sf
202A
17 sf
207
79 sf
280A
29 sf
290
125 sf
281
53 sf
281A
17 sf
UP
UP
299B
242 sf
299
2,065 sf
299C
242 sf
299A
74 sf
215
50 sf
220
310 sf
219
259 sf
218
284 sf
217
331 sf
216A
279 sf
215B
211 sf
215A
297 sf
BL147
BLOOMINGTON
MERRILL HALL
SECOND FLOOR
LEVEL 3 OF 5
NORTH
GROSS AREA THIS LEVEL: 14,295 sq.ft.
BUREAU OF FACILITIES PROGRAMMING & UTILIZATION
I.U. BLOOMINGTON
FILENAME: BL147-3.dwg
DATE: 10/30/06

= pipe chases

Laboratory Services
304 S. State Avenue ▼ Indianapolis, Indiana 46201
317/756-9320 ▼ Fax 317/756-9324

August 22, 2025

Indiana University
620 North Union Drive, UN 443
Indianapolis, IN 46202

RE: 24 PLM Sample(s) Analyzed
Client Project: EHS #7198 – CPF #20250532 – BL 147 Merrill Hall
ACT Batch No.: 25B0328
ACT Project No.: 250015

Enclosed are the sample results from the bulk asbestos analysis for the 24 sample(s) submitted to the ACT Asbestos Laboratory on August 21, 2025. Percentages were determined by visually estimating the area percentage for each type of fibrous material. Asbestos samples estimated to contain less than ten percent asbestos might require further quantification by either point counting or other alternative methods of analysis.

ACT Laboratory will hold your sample(s) for three months after the completion of analysis. At the end of the three-month period, the laboratory will dispose of the sample(s) unless prior arrangements have been made.

Samples were received in acceptable condition and analyzed at the ACT Laboratory under appropriate environmental conditions, unless noted in the comments in the following table. Enclosed test results relate only to items tested and the information provided by the customer. ACT Environmental Services, Inc. is NOT NVLAP accredited.

We trust this information is responsive to your needs. If you have any questions or comments regarding the sample analysis or results, please do not hesitate to call.

Sincerely,
ACT Environmental Services, Inc.

Nikki L. Brown
Laboratory Technical Manager
AIHA LAP, LLC Accredited Laboratory
Lab# 102853

Method Limitations: Analysis of floor tile and other resinous bound materials by Polarized Light Microscopy (PLM) may yield false negative results due to method limitations. PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative results cannot be guaranteed. ACT Environmental recommends that further analysis be conducted using TEM. For all heterogeneous samples, easily separated into sub-samples, each component will be analyzed separately and noted in lab documentation only. ACT Laboratory is not responsible for the accuracy of the results when requested to physically separate, analyze and report layered samples. Floor Tiles and other resinous bound materials may be heated by hot plate to release fibers.

Limit of Detection: According to method EPA 600/R-93/116, July 1993, the detection limit for visual estimation is a function of the quantity of sample analyzed, the nature of matrix interference, sample preparation, and fiber size and distribution. Asbestos percentages are therefore recognized as Not Detected (no asbestos fibers identified), <1% asbestos (identified but trace amount), 2-100% asbestos (recognized as asbestos containing material).

Laboratory Services
304 S. State Avenue ▼ Indianapolis, Indiana 46201
317/756-9320 ▼ Fax 317/756-9324

BULK SAMPLE ANALYSIS REPORT
POLARIZED LIGHT MICROSCOPY (PLM)
Performed by EPA 600/R-93/116 Method Modified

August 22, 2025

Client Project:	EHS #7199
ACT Project No.:	250015
ACT Batch No.:	25B0328
Date Sample(s) Collected:	08-19-25
Date Sample(s) Received:	08-21-25
Date Sample(s) Analyzed:	08-22-25

Notes:
* Indicates Non-Homogeneous Sample
** Indicates Homogeneous Sample
HC High Concentration
MC Medium Concentration
LC Low Concentration

Lab I.D. #	Client I. D. #	Sample Color / Texture	Layer (s)	Asbestos Type	%	Other Fibrous Material	%	Non-Fibrous Material	%	Comments
B252441	7198-1	White Hard **	1	Not Detected		Cellulose	2	Binder	98	Plaster
B252442	7198-2	White/Gray Hard/Grainy *	2	Not Detected		Wollastonite	5	Binder	95	Plaster
B252443	7198-3	White/Gray Hard/Grainy *	2	Not Detected		Wollastonite	5	Binder	95	Plaster
B252444	7198-4	White/Gray Hard/Grainy *	2	Not Detected		Wollastonite	5	Binder	95	Plaster
B252445	7198-5	Gray Grainy/ Fibrous **	1	Not Detected		Fiberglass	90	Binder	10	Ceiling Tile
B252446	7198-6	Gray Grainy/ Fibrous **	1	Not Detected		Fiberglass	90	Binder	10	Ceiling Tile
B252447	7198-7	Gray Grainy/ Fibrous **	1	Not Detected		Fiberglass	90	Binder	10	Ceiling Tile
B252448	7198-8	Brown Hard **	1	Not Detected		Fiberglass Wollastonite	20 20	Adhesive	60	Glue
B252449	7198-9	Brown Hard **	1	Not Detected		Fiberglass Wollastonite Cellulose	20 20 <1	Adhesive	60	Glue
B252450	7198-10	Brown Fibrous **	1	Not Detected		Cellulose	100			Ceiling Tile
B252451	7198-11	Brown Fibrous **	1	Not Detected		Cellulose	100			Ceiling Tile
B252452	7198-12	Brown Fibrous **	1	Not Detected		Cellulose	100			Ceiling Tile
B252453	7198-13	White Hard/ Grainy **	1	Not Detected		Cellulose	2	Binder Foam	96 2	Plaster

Laboratory Services
304 S. State Avenue ▼ Indianapolis, Indiana 46201
317/756-9320 ▼ Fax 317/756-9324

BULK SAMPLE ANALYSIS REPORT
POLARIZED LIGHT MICROSCOPY (PLM)
Performed by EPA 600/R-93/116 Method Modified

August 22, 2025

Client Project:	EHS #7199
ACT Project No.:	250015
ACT Batch No.:	25B0328
Date Sample(s) Collected:	08-19-25
Date Sample(s) Received:	08-21-25
Date Sample(s) Analyzed:	08-22-25

Notes:
* Indicates Non-Homogeneous Sample
** Indicates Homogeneous Sample
HC High Concentration
MC Medium Concentration
LC Low Concentration

Lab I.D. #	Client I. D. #	Sample Color / Texture	Layer (s)	Asbestos Type	%	Other Fibrous Material	%	Non-Fibrous Material	%	Comments
B252454	7198-14	White Hard/ Grainy **	1	Not Detected		Cellulose	<1	Binder Foam	98 2	Plaster
B252455	7198-15	White Hard/ Grainy **	1	Not Detected		Cellulose Wollastonite	2 2	Binder Foam	94 2	Plaster
B252456	7198-16	Gray Hard **	1	Not Detected		Wollastonite	20	Binder	80	Grout
B252457	7198-17	Gray Hard **	1	Not Detected		Wollastonite	20	Binder	80	Grout
B252458	7198-18	Brown Hard **	1	Not Detected		Wollastonite	10	Adhesive	90	Glue
B252459	7198-19	Brown Hard **	1	Not Detected		Wollastonite Cellulose	10 2	Adhesive	88	Glue
B252460	7198-20	Brown Hard **	1	Not Detected		Wollastonite	10	Adhesive	90	Glue
B252461	7198-21	Brown Hard **	1	Not Detected				Binder	100	Flooring
B252462	7198-22	Brown Hard **	1	Not Detected				Binder	100	Flooring
B252463	7198-23	Brown Hard **	1	Not Detected				Binder	100	Flooring
B252464	7198-24	Brown Hard **	1	Not Detected				Binder	100	Flooring

Reviewed By: Nikki L. Brown
Laboratory Technical Manager

ACT Environmental Services, Inc.
304 S. State Ave. / Indianapolis, IN / 46201
317/756-9320/fax 317/756-9324 / www.actenvironmental.com

CHAIN OF CUSTODY

Client:	Client Project Name/Location:	ACT Project No:	Lab Batch No.:
IU-EHS	EHS# 7198 - CPF# 20250532 - BL 147 Merrill Hall	25015	25B0328

TURNAROUND TIME: ☐ RUSH – 1 hour PCM/PLM; 4 hour Lead/IAQ ☐ Same Day (in lab by 12pm/results by 5pm) ☑ 24 hours (1 day)
☐ 2 days **(PCM/IAQ/Nuisance Dust Standard)** ☐ 3 days **(LEAD/PLM Standard)** ☐ 4 days ☐ 5 days

SAMPLER:	Analyze: ALL ☐ or First positive ☑	Possible Hazards: Yes ☑ Unknown ☐	Sample Disposal: Return to Client ☐ Disposal by Lab ☑	Due Date
KO				

LABORATORY ANALYSIS:
☐ IAQ ☑ ASBESTOS ☐ LEAD ☐ OTHER _____

SAMPLE TYPE:
☐ Air ☐ PCM ☐ TEM ☑ Bulk ☐ Wipe ☐ Soil ☐ Paint
☐ Air-O-Cell ☐ Tape ☐ Swab ☐ Cyclex-D ☐ Other _____

Client Sample I.D.	Sample Collection Location:	Sample Collection Date	Homogenous Area	Lab I.D.:	RESULTS:
7198-1	Rooms 102,118, plaster walls and ceiling	08/19/25	HA-1	B252441	ND
7198-2	Rooms 102,118, plaster walls and ceiling	08/19/25	HA-1	42	ND
7198-3	Rooms 291,118, plaster walls and ceiling	08/19/25	HA-1	43	ND
7198-4	Rooms 291,118, plaster walls and ceiling	08/19/25	HA-1	44	ND
7198-5	Room 118 - 12x12x1 ceiling tile	08/19/25	HA-2	45	ND
7198-6	Room 118 - 12x12x1 ceiling tile	08/19/25	HA-2	46	ND
7198-7	Room 118 - 12x12x1 ceiling tile	08/19/25	HA-2	47	ND
7198-8	Room 118 - brown glue dots under 12x12x1 ceiling tiles	08/19/25	HA-3	48	ND
7198-9	Room 118 - brown glue dots under 12x12x1 ceiling tiles	08/19/25	HA-3	49	ND
7198-10	Room 102 - 12x12x1 ceiling tiles - pins	08/19/25	HA-4	50	ND

Relinquished By: Date/Time: 1:00pm 8/22/2025
Received By: JP 8/21/25 2:00PM Date/Time:

Client Contact Name:
Y/N ☐ **Client Contact Phone:**
Y/N ☐ **Client Contact Fax/Email:** KOOLEY@INDIANA.EDU

Analyst 1st QC Review 2nd QC Review

Revision: January 2011

ACT Environmental Services, Inc.
304 S. State Ave. / Indianapolis, IN / 46201
317/756-9320/fax 317/756-9324 / www.actenvironmental.com

CHAIN OF CUSTODY

Client:	Client Project Name/Location:	ACT Project No:	Lab Batch No.:
IU-EHS	EHS# 7198 - CPF# 20250532 - BL 147 Merrill Hall		

TURNAROUND TIME: ☐ RUSH – 1 hour PCM/PLM; 4 hour Lead/IAQ ☐ Same Day (in lab by 12pm/results by 5pm) ☑ 24 hours (1 day)
☐ 2 days **(PCM/IAQ/Nuisance Dust Standard)** ☐ 3 days **(LEAD/PLM Standard)** ☐ 4 days ☐ 5 days

SAMPLER:	Analyze: ALL ☐ or First positive ☑	Possible Hazards: Yes ☑ Unknown ☐	Sample Disposal: Return to Client ☐ Disposal by Lab ☑	Due Date _____
KO				

LABORATORY ANALYSIS:
☐ IAQ ☑ ASBESTOS ☐ LEAD ☐ OTHER _____

SAMPLE TYPE:
☐ Air ☐ PCM ☐ TEM ☑ Bulk ☐ Wipe ☐ Soil ☐ Paint
☐ Air-O-Cell ☐ Tape ☐ Swab ☐ Cyclex-D ☐ Other _____

Client Sample I.D.	Sample Collection Location:	Sample Collection Date	Homogenous Area	Lab I.D.:	RESULTS:
7198-11	Room 102 - 12x12x1 ceiling tiles - pins hole	08/19/25	HA-4	B252451	ND
7198-12	Room 102 - 12x12x1 ceiling tiles - pins hole	08/19/25	HA-4	52	ND
7198-13	Rooms 290A and 281 - trowel on material on plaster walls	08/19/25	HA-5	53	ND
7198-14	Rooms 290A and 281 - trowel on material on plaster walls	08/19/25	HA-5	54	ND
7198-15	Rooms 290A and 281 - trowel on material on plaster walls	08/19/25	HA-5	55	ND
7198-16	Rooms 290 and 291 - 1x1 stone floor with grout	08/19/25	HA-6	56	ND
7198-17	Rooms 290 and 291 - 1x1 stone floor with grout	08/19/25	HA-6	57	ND
7198-18	Room 102 - brown glue dots under 12x12x1 ceiling tiles- pins holes	08/19/25	HA-7	58	ND
7198-19	Room 102 - brown glue dots under 12x12x1 ceiling tiles- pins holes	08/19/25	HA-7	59	ND
7198-20	Room 102 - brown glue dots under 12x12x1 ceiling tiles- pins holes	08/19/25	HA-7	60	ND

Relinquished By:	Date/Time:	Received By:	Date/Time:	Client Contact Name:
Kelsey Ooley	8/22/2025 1:00 pm			Y/N ☐ Client Contact Phone:
				Y/N ☐ Client Contact Fax/Email: KOOLEY@INDIANA.EDU

_____ Analyst _____ 1st QC Review _____ 2nd QC Review

Revision: January 2011

ACT Environmental Services, Inc.
304 S. State Ave. / Indianapolis, IN / 46201
317/756-9320/fax 317/756-9324 / www.actenvironmental.com

CHAIN OF CUSTODY

Client:	Client Project Name/Location:	ACT Project No:	Lab Batch No.:
IU-EHS	EHS# 7198 - CPF# 20250532 - BL 147 Merrill Hall		

TURNAROUND TIME: ☐ RUSH – 1 hour PCM/PLM; 4 hour Lead/IAQ ☐ Same Day (in lab by 12pm/results by 5pm) ☑ 24 hours (1 day)
☐ 2 days **(PCM/IAQ/Nuisance Dust Standard)** ☐ 3 days **(LEAD/PLM Standard)** ☐ 4 days ☐ 5 days

SAMPLER:	Analyze: ALL ☐ or First positive ☑	Possible Hazards: Yes ☑ Unknown ☐	Sample Disposal: Return to Client ☐ Disposal by Lab ☑	Due Date
KO				

LABORATORY ANALYSIS: ☐ IAQ ☑ ASBESTOS ☐ LEAD ☐ OTHER _____

SAMPLE TYPE: ☐ Air ☐ PCM ☐ TEM ☑ Bulk ☐ Wipe ☐ Soil ☐ Paint ☐ Air-O-Cell ☐ Tape ☐ Swab ☐ Cyclex-D ☐ Other _____

Client Sample I.D.	Sample Collection Location:	Sample Collection Date	Homogenous Area	Lab I.D.:	RESULTS:
7198-21	Rooms 118 and 102 - 12 x12 x1/2 thick - black flooring material	08/19/25	HA-8	B2524761	ND
7198-22	Rooms 118 and 102 - 12 x12 x1/2 thick - black flooring material	08/19/25	HA-8	62	ND
7198-23	Rooms 118 and 102 - 12 x12 x1/2 thick - black flooring material	08/19/25	HA-8	63	ND
7198-24	Rooms 118 and 102 - 12 x12 x1/2 thick - black flooring material	08/19/25	HA-8	64	ND
7198-25	NO samples- TSI ACM on pipes in all pipe chases- 100 linear feet	08/19/25	HA-9	65	
				8/21/25 JP	

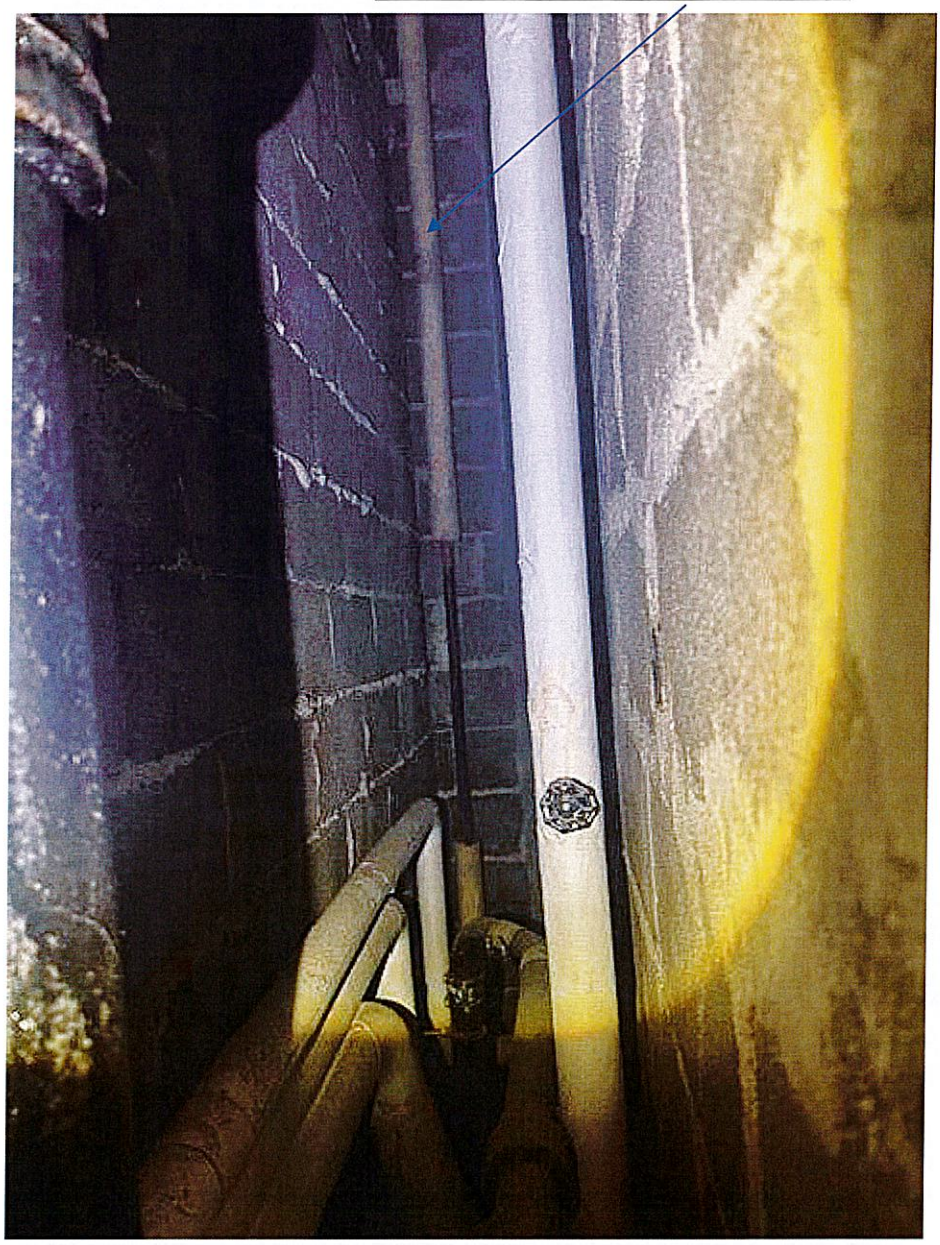
Relinquished By:	Date/Time:	Received By:	Date/Time:	Client Contact Name:
Kevin Ooley	8/22/25 11:00am			Y/N ☐ Client Contact Phone:
				Y/N ☐ Client Contact Fax/Email: KOOLEY@INDIANA.EDU

_____ Analyst _____ 1st QC Review _____ 2nd QC Review

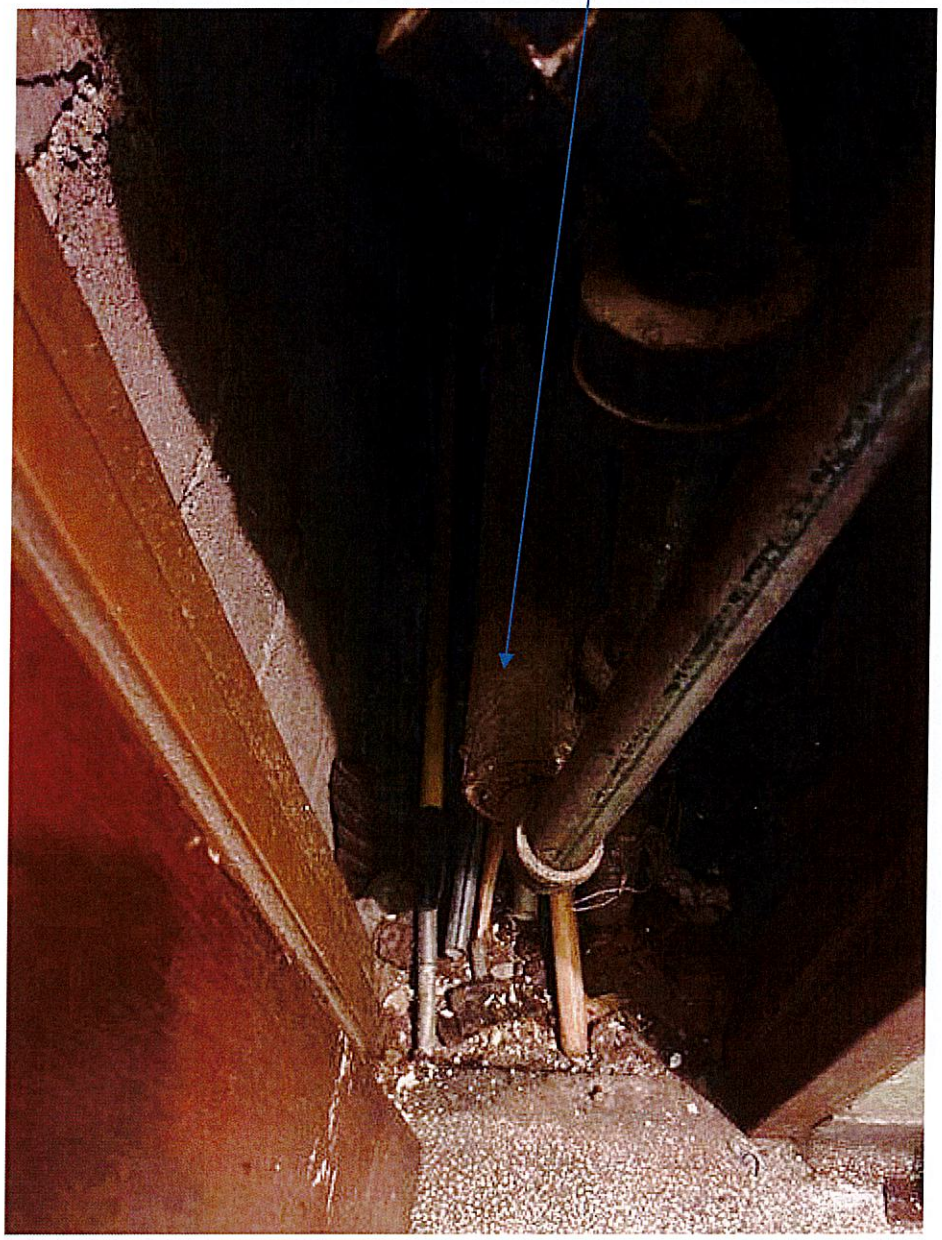
Revision: January 2011

Pipe chases in rooms 291 and 290 estimated at 100 linear feet of TSI ACM pipe insulation and ACM debris on the pipe chase floor

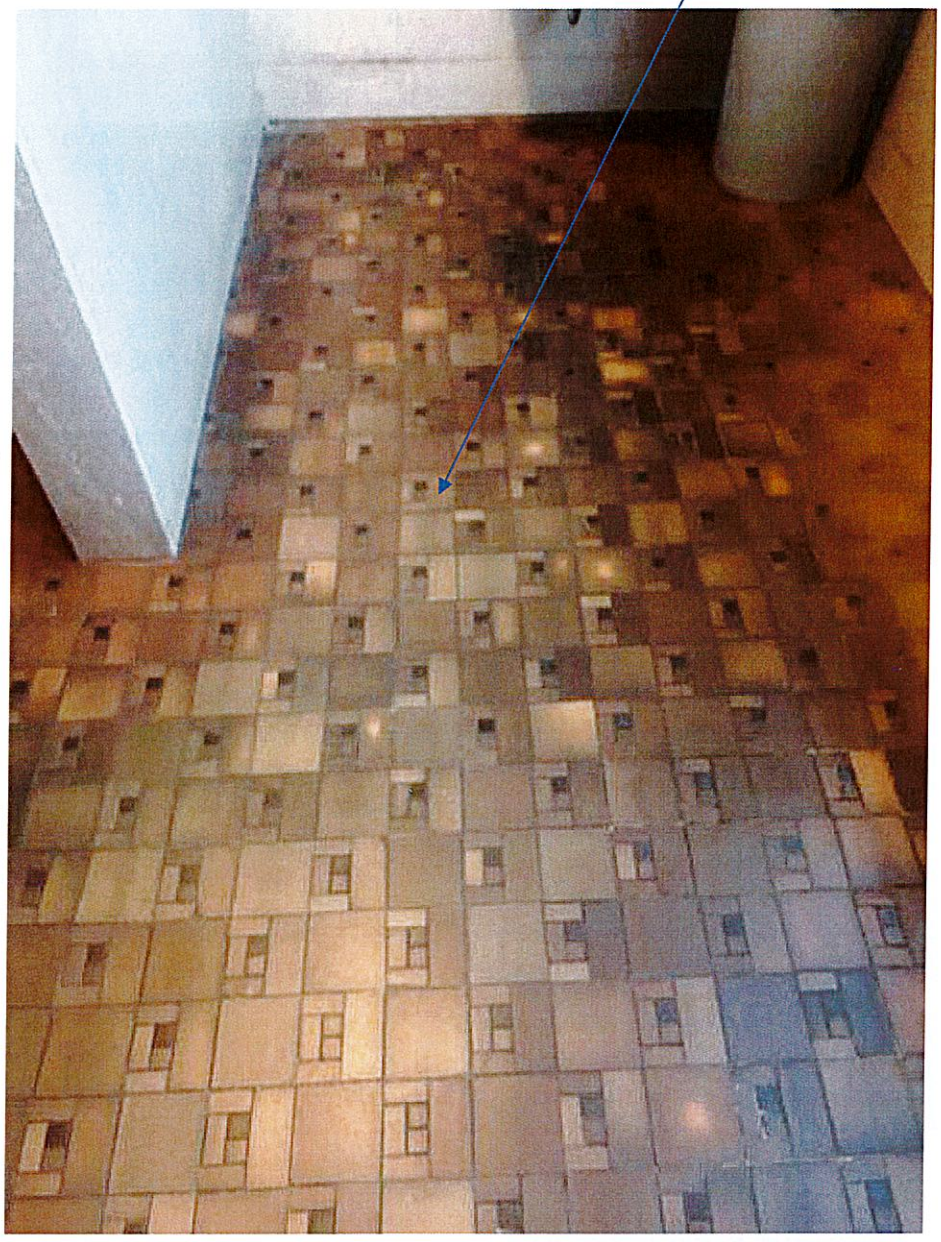
Pipe chases in rooms 291 and 290 estimated at 100 linear feet of TSI ACM pipe insulation and ACM debris on the pipe chase floor



Pipe chases in rooms 291 and 290 estimated at 100 linear feet of TSI ACM pipe insulation and ACM debris on the pipe chase floor



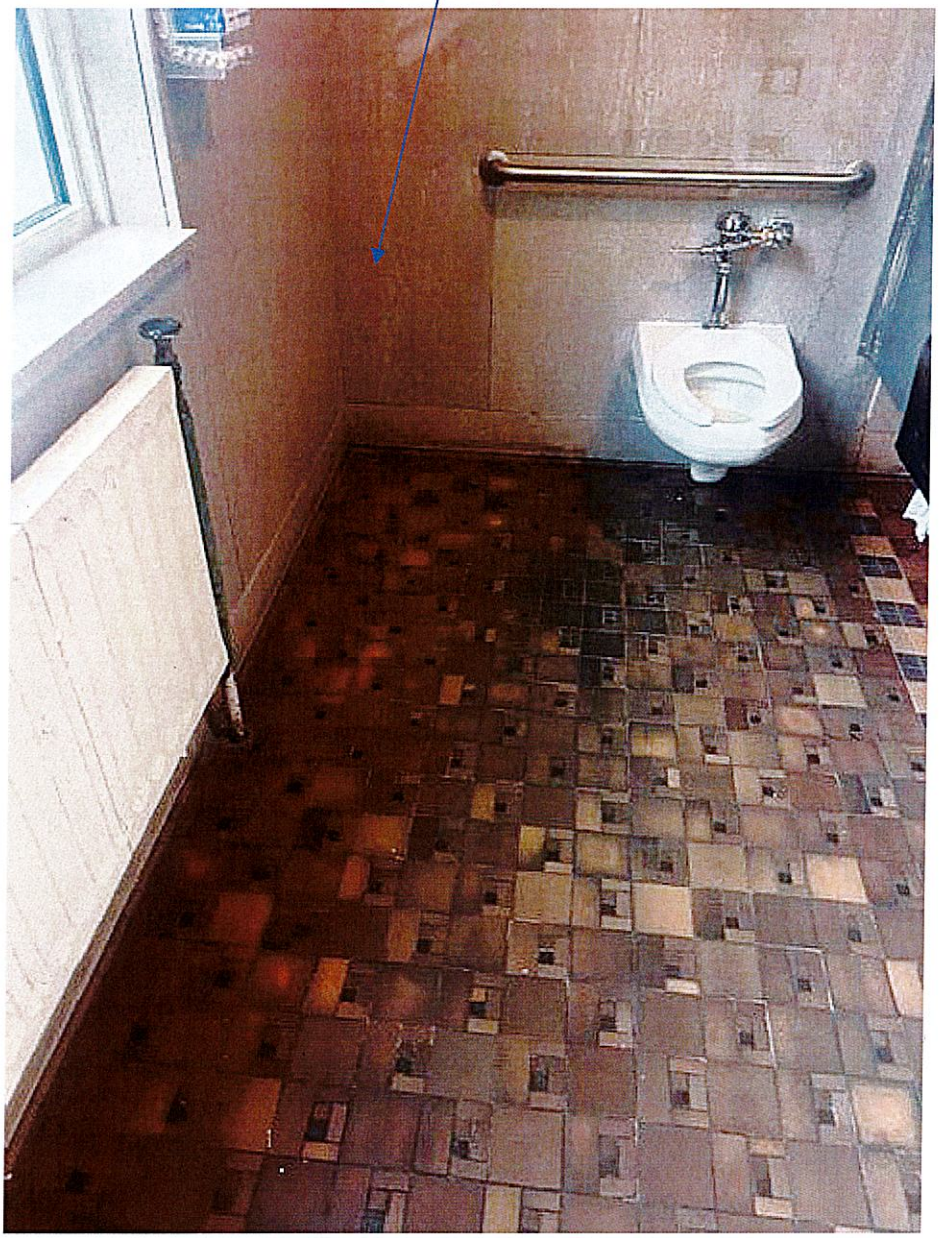
Rooms 290 and 291- stone flooring is non-ACM



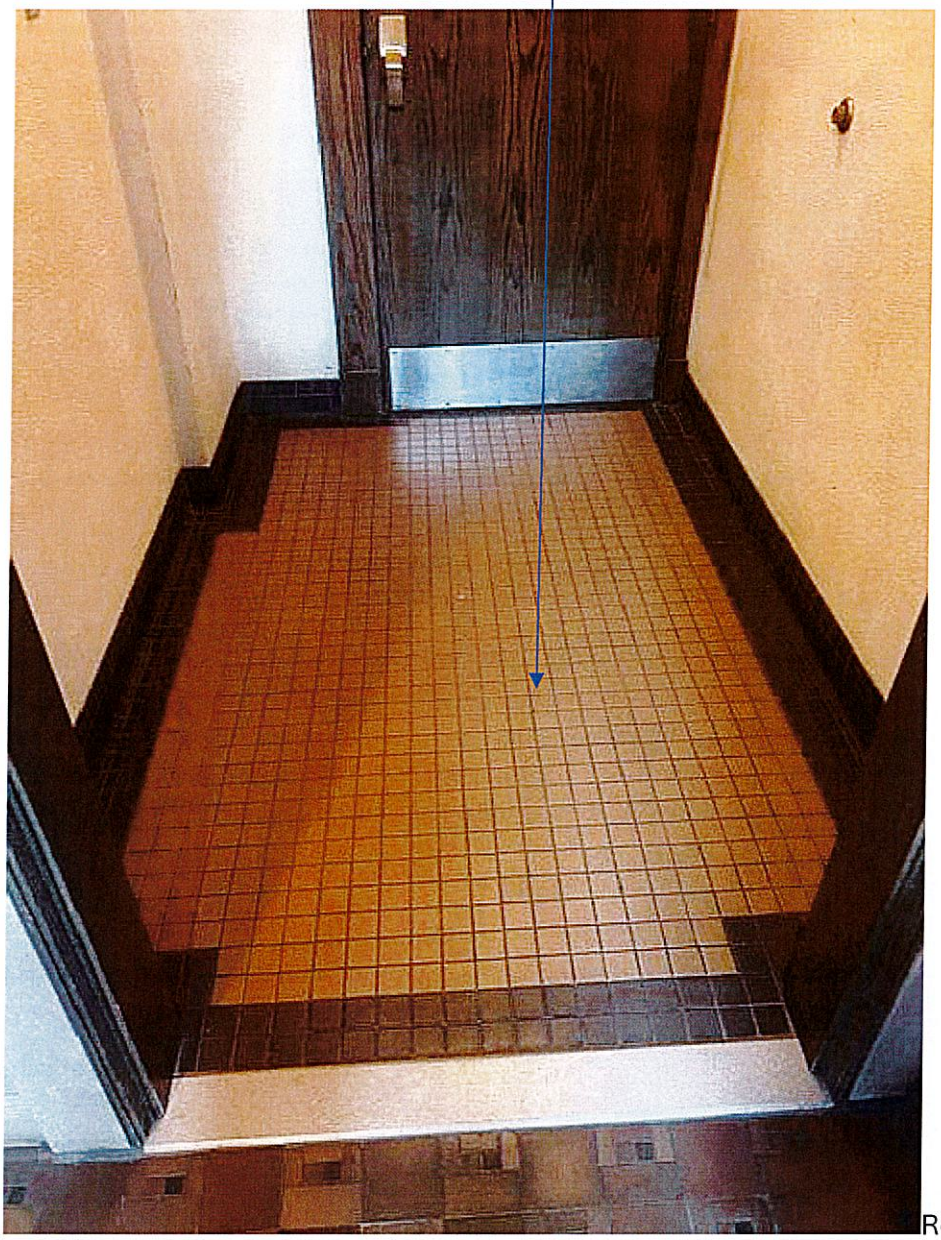
Original terrazzo flooring was not sampled

All plaster walls and ceiling are non-ACM

Marble partitions are non-ACM



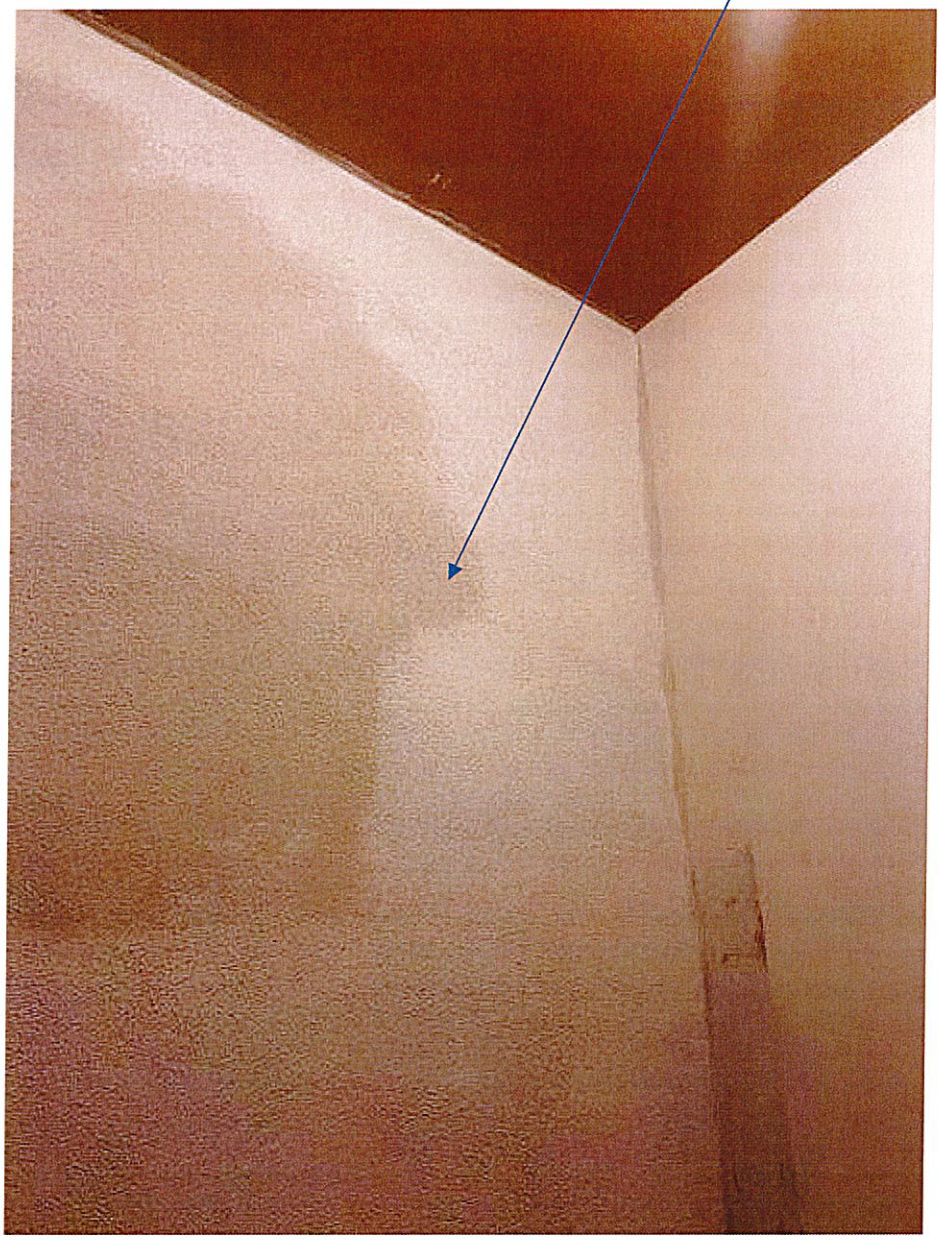
Stone floor is non-ACM



Room 20

Room 290A and 281 – troweled on material on plaster walls – non- ACM

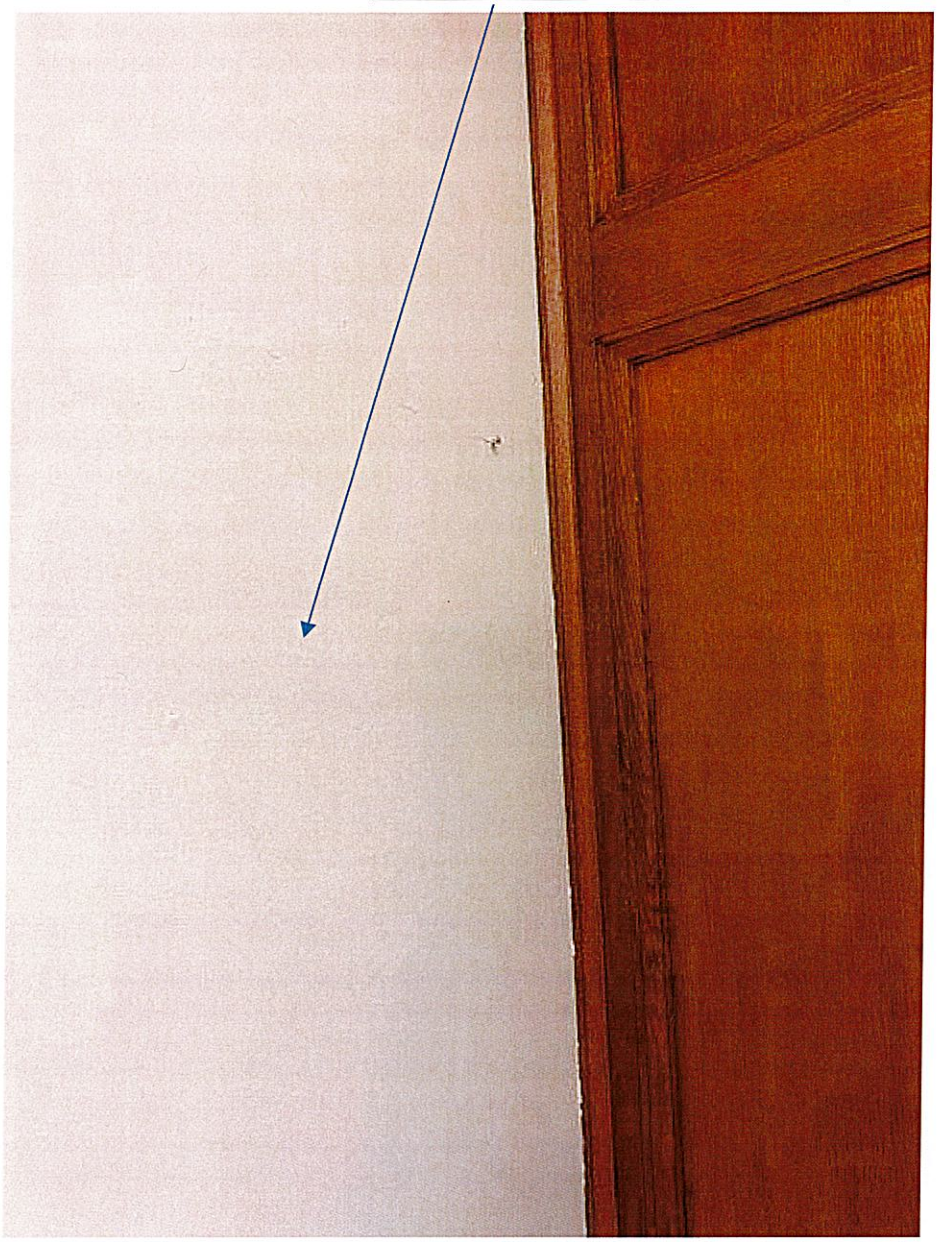
Room 290A and 281 – troweled on material on plaster walls – non- ACM



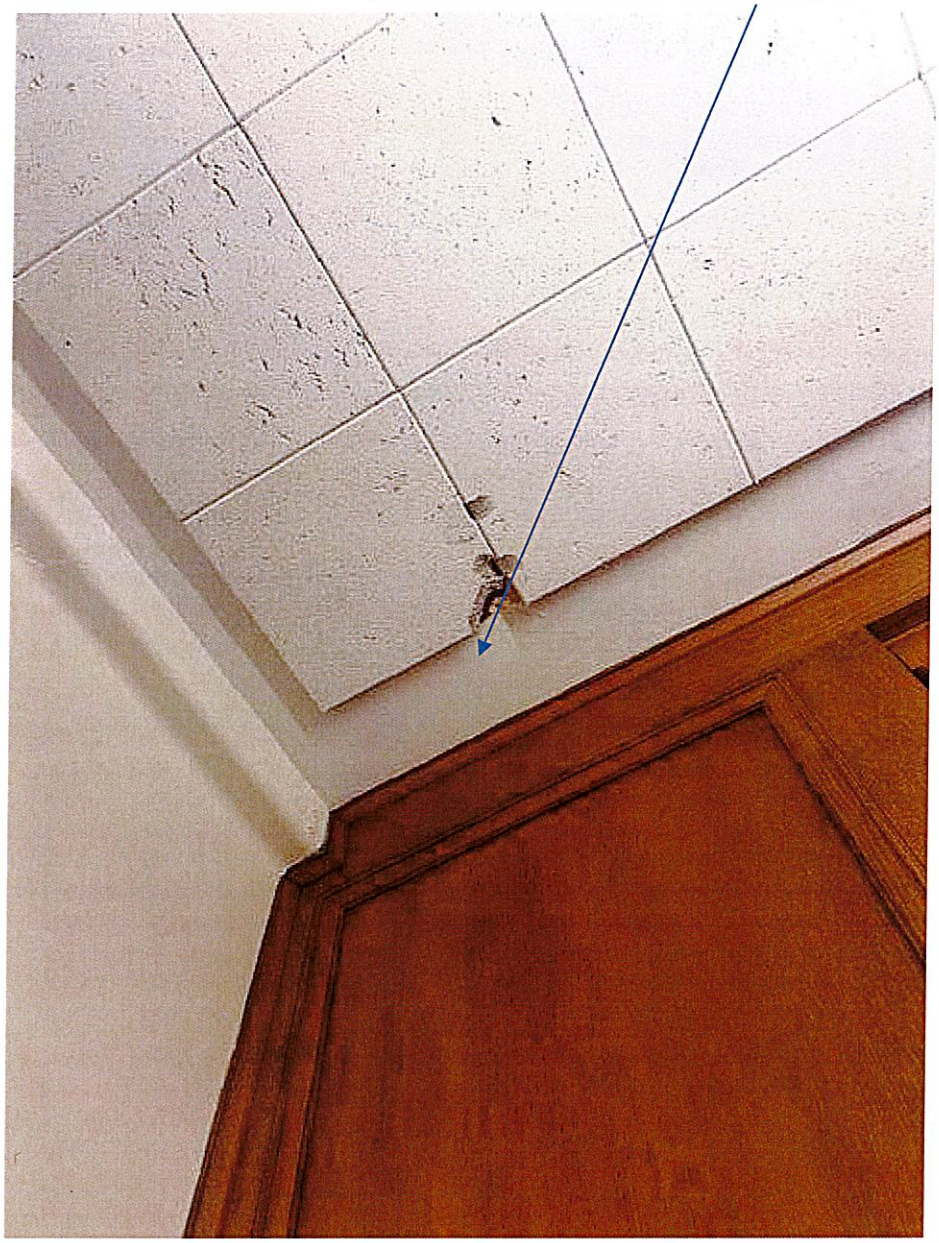
Room 118- 12x12x1 ceiling tiles and brown glue dots – non-ACM

Rooms 102 and 118 – 12x12 cork flooring is non-ACM

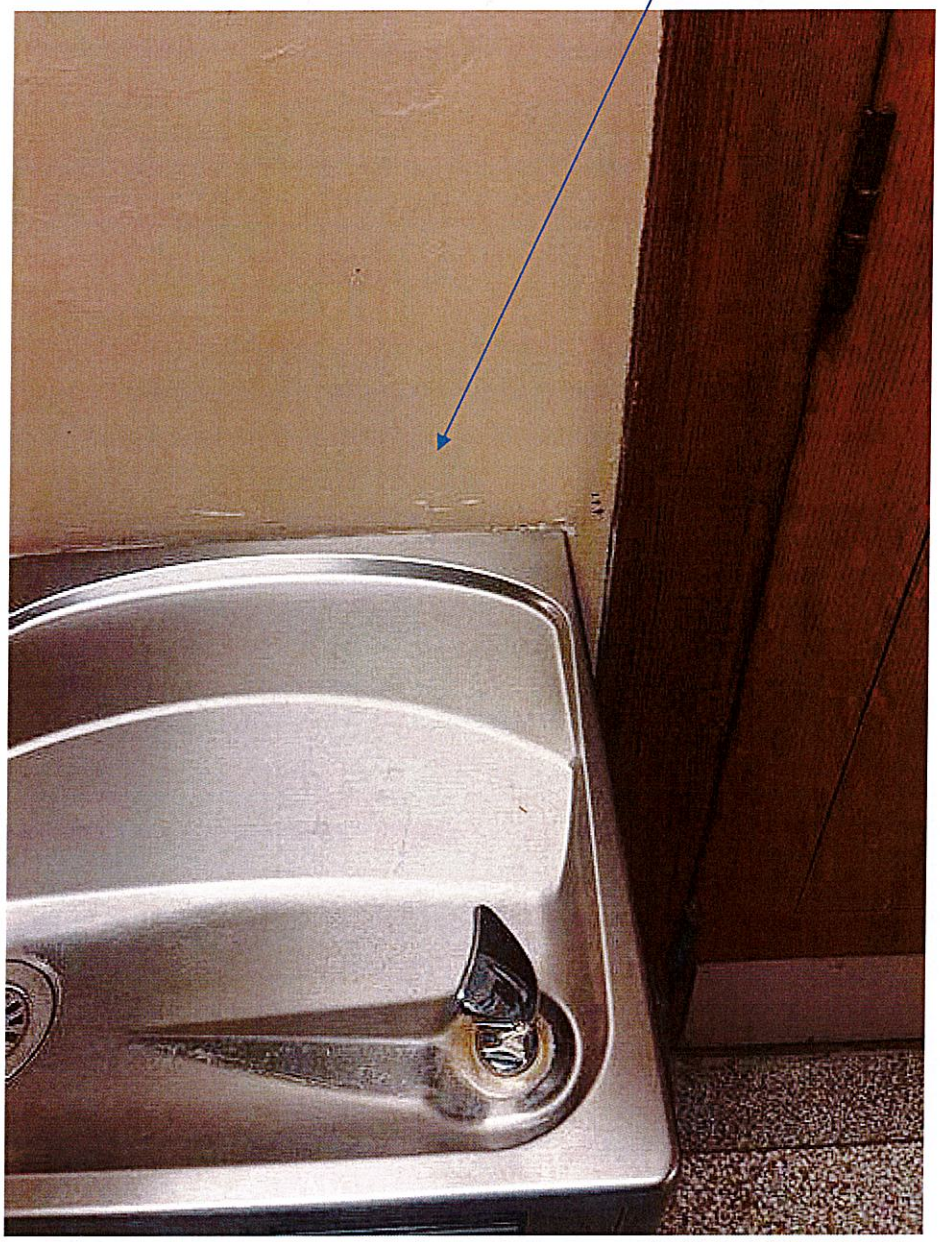
All plaster is non-ACM



Room 118- 12x12x1 ceiling tile and brown glue dots are non-ACM



Possible ACM pipe insulation behind wall next to room 118- estimated at 10 linear feet



Room 102 – 12x12x1 ceiling tile and brown glue dots – non-ACM

All plaster walls and ceilings are non-ACM

INDIANA UNIVERSITY
PUBLIC SAFETY
Environmental Health and Safety

To: Shih-Ping
From: Kevin Ooley
Subject: BL 414 Myers Brand CPF#20250532 - EHS#7200
Date: 8/27/2025

I, Kevin Ooley (IDEM Asbestos inspector license #19041407). Expiration: 7/15/2026), performed the requested evaluation of the following project.

Scope: Perform visual inspection to provide information on the amount and condition of any possible Asbestos Containing Materials (ACM) @ IU Bloomington Campus – BL414 Myles Brand Hall – restrooms 297,221,221A.

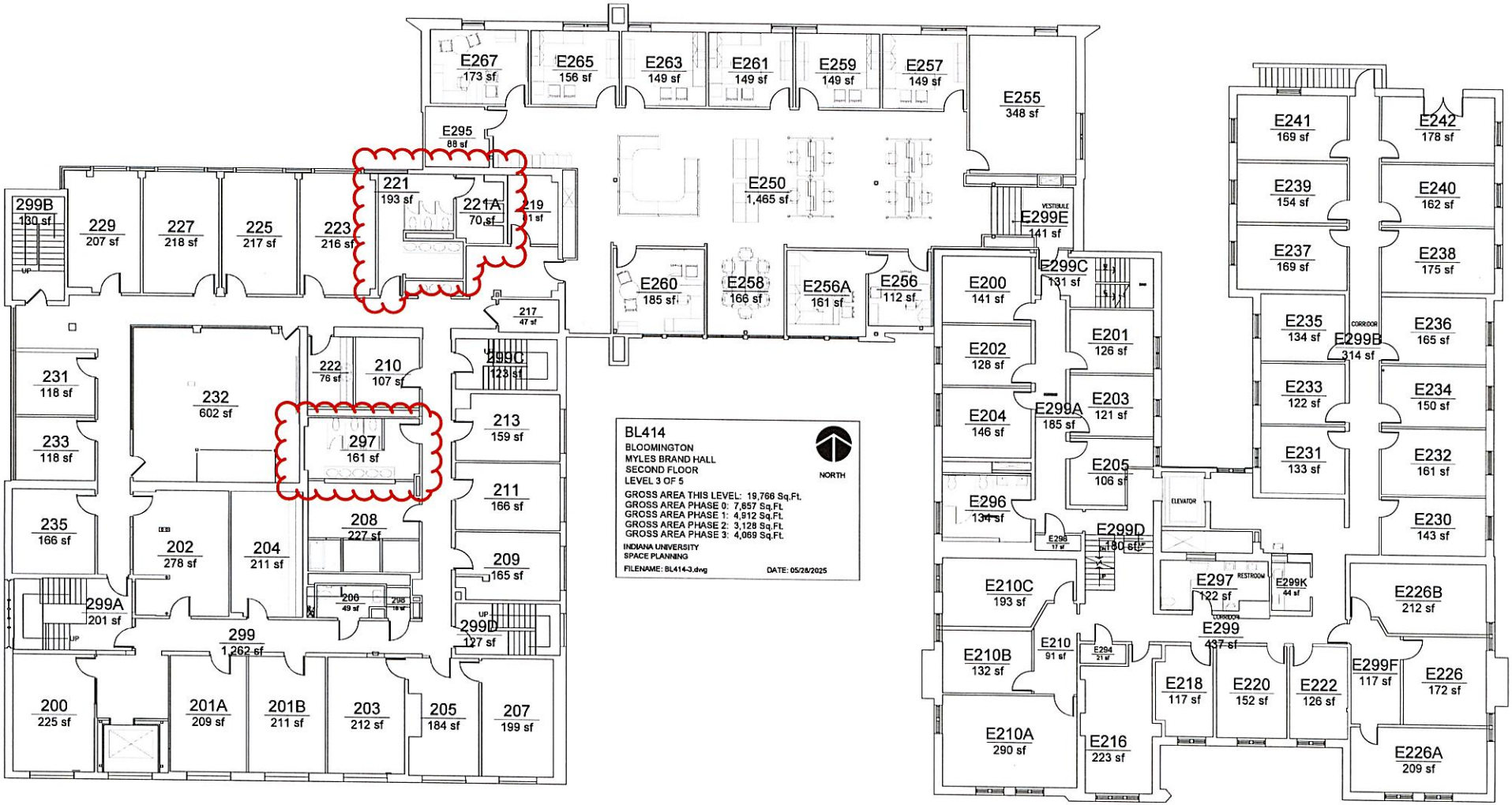
The asbestos survey was performed to prepare restrooms for full renovation in rooms mentioned above. Specifically, the following services were provided.

- Perform visual inspection to provide information on the amount and condition of suspect material present; and
- Collection of suspect ACMs within the above referenced property.
- Analysis of bulk samples utilizing Polarized Light Microscopy (PLM); and
- Generation of a final report that details all sample results, ACM locations, and recommendations based on the results.

Explanation of method used: Prior to collecting any bulk samples from the building, a walk-though/walk-around was performed. The walk-through/walk-around included a visual inspection documenting suspect ACMs, their locations, and approximate quantities. After the suspect materials were identified, bulk samples were collected and placed into individual sealable bags for transportation to an accredited laboratory.

Note: NO asbestos was found during inspection. No abatement is required

DISCLAIMER: This inspection was conducted by an Indiana Department of Environmental Management licensed inspector. The inspection and sampling were limited to those materials that were visible or reasonably accessible at the time of the inspection. There may be hidden materials in the building. Should a suspect material become uncovered during the renovation/demolition, activity must stop, and an accredited inspector must be notified to evaluate the material.


E267 173 sf
E265 156 sf
E263 149 sf
E261 149 sf
E259 149 sf
E257 149 sf
E255 348 sf
E295 88 sf
E250 1,465 sf
E299E VESTIBULE 141 sf
E241 169 sf
E242 178 sf
E239 154 sf
E240 162 sf
E237 169 sf
E238 175 sf
299B 130 sf
229 207 sf
227 218 sf
225 217 sf
223 216 sf
221 193 sf
221A 70 sf
219 11 sf
E260 185 sf
E258 166 sf
E256A 161 sf
E256 112 sf
E299C 131 sf
E200 141 sf
E201 126 sf
E202 128 sf
E204 146 sf
E299A 185 sf
E203 121 sf
E205 106 sf
E296 134 sf
E299D 180 sf
E235 134 sf
CORRIDOR
E299B 314 sf
E236 165 sf
E233 122 sf
E234 150 sf
E231 133 sf
E232 161 sf
E230 143 sf
ELEVATOR
E297 122 sf
RESTROOM
E299K 44 sf
CORRIDOR
E299 437 sf
E226B 212 sf
E210C 193 sf
E210B 132 sf
E210 91 sf
E294 21 sf
E299F 117 sf
E226 172 sf
E218 117 sf
E220 152 sf
E222 126 sf
E210A 290 sf
E216 223 sf
E226A 209 sf
217 47 sf
222 76 sf
210 107 sf
299C 123 sf
213 159 sf
211 166 sf
209 165 sf
231 118 sf
232 602 sf
233 118 sf
297 161 sf
235 166 sf
202 278 sf
204 211 sf
208 227 sf
206 49 sf
208 16 sf
299A 201 sf
299 1,262 sf
299D 127 sf
200 225 sf
201A 209 sf
201B 211 sf
203 212 sf
205 184 sf
207 199 sf
BL414
BLOOMINGTON
MYLES BRAND HALL
SECOND FLOOR
LEVEL 3 OF 5
GROSS AREA THIS LEVEL: 19,766 Sq.Ft.
GROSS AREA PHASE 0: 7,657 Sq.Ft.
GROSS AREA PHASE 1: 4,912 Sq.Ft.
GROSS AREA PHASE 2: 3,128 Sq.Ft.
GROSS AREA PHASE 3: 4,069 Sq.Ft.
INDIANA UNIVERSITY
SPACE PLANNING
FILENAME: BL414-3.dwg
DATE: 05/28/2025
NORTH

Laboratory Services
304 S. State Avenue ▼ Indianapolis, Indiana 46201
317/756-9320 ▼ Fax 317/756-9324

August 25, 2025

Indiana University
620 North Union Drive, UN 443
Indianapolis, IN 46202

RE: 10 PLM Sample(s) Analyzed
Client Project: EHS #7200 – CPF #20250532 – BL 414 Myles Brand
ACT Batch No.: 25B0329
ACT Project No.: 250015

Enclosed are the sample results from the bulk asbestos analysis for the 10 sample(s) submitted to the ACT Asbestos Laboratory on August 21, 2025. Percentages were determined by visually estimating the area percentage for each type of fibrous material. Asbestos samples estimated to contain less than ten percent asbestos might require further quantification by either point counting or other alternative methods of analysis.

ACT Laboratory will hold your sample(s) for three months after the completion of analysis. At the end of the three-month period, the laboratory will dispose of the sample(s) unless prior arrangements have been made.

Samples were received in acceptable condition and analyzed at the ACT Laboratory under appropriate environmental conditions, unless noted in the comments in the following table. Enclosed test results relate only to items tested and the information provided by the customer. ACT Environmental Services, Inc. is NOT NVLAP accredited.

We trust this information is responsive to your needs. If you have any questions or comments regarding the sample analysis or results, please do not hesitate to call.

Sincerely,
ACT Environmental Services, Inc.

Nikki L. Brown
Laboratory Technical Manager
AIHA LAP, LLC Accredited Laboratory
Lab# 102853

Method Limitations: Analysis of floor tile and other resinous bound materials by Polarized Light Microscopy (PLM) may yield false negative results due to method limitations. PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Thus negative results cannot be guaranteed. ACT Environmental recommends that further analysis be conducted using TEM. For all heterogeneous samples, easily separated into sub-samples, each component will be analyzed separately and noted in lab documentation only. ACT Laboratory is not responsible for the accuracy of the results when requested to physically separate, analyze and report layered samples. Floor Tiles and other resinous bound materials may be heated by hot plate to release fibers.

Limit of Detection: According to method EPA 600/R-93/116, July 1993, the detection limit for visual estimation is a function of the quantity of sample analyzed, the nature of matrix interference, sample preparation, and fiber size and distribution. Asbestos percentages are therefore recognized as Not Detected (no asbestos fibers identified), <1% asbestos (identified but trace amount), 2-100% asbestos (recognized as asbestos containing material).

Laboratory Services
304 S. State Avenue ▼ Indianapolis, Indiana 46201
317/756-9320 ▼ Fax 317/756-9324

BULK SAMPLE ANALYSIS REPORT
POLARIZED LIGHT MICROSCOPY (PLM)
Performed by EPA 600/R-93/116 Method Modified

August 25, 2025

Client Project:	EHS #7200
ACT Project No.:	250015
ACT Batch No.:	25B0329
Date Sample(s) Collected:	08-20-25
Date Sample(s) Received:	08-21-25
Date Sample(s) Analyzed:	08-25-25

Notes:
- * Indicates Non-Homogeneous Sample
- ** Indicates Homogeneous Sample
- HC High Concentration
- MC Medium Concentration
- LC Low Concentration

Lab I.D. #	Client I. D. #	Sample Color / Texture	Layer (s)	Asbestos Type	%	Other Fibrous Material	%	Non-Fibrous Material	%	Comments
B252465	7200-1	White Hard/ Fibrous **	1	Not Detected		Wollastonite Cellulose	2 <1	Binder	98	Drywall
B252466	7200-2	White Hard/ Fibrous **	1	Not Detected		Wollastonite Cellulose	2 <1	Binder	98	Drywall
B252467	7200-3	White Hard/ Fibrous **	1	Not Detected		Wollastonite Cellulose	2 <1	Binder	98	Drywall
B252468	7200-4	White Hard **	1	Not Detected		Wollastonite	2	Binder	98	Plaster
B252469	7200-5	White Hard **	1	Not Detected		Wollastonite	2	Binder	98	Plaster
B252470	7200-6	White Hard **	1	Not Detected		Wollastonite	2	Binder	98	Plaster
B252471	7200-7	Pink Hard **	1	Not Detected		Wollastonite	40	Binder	60	Ceramic Tile
B252472	7200-8	Pink Hard **	1	Not Detected		Wollastonite	40	Binder	60	Ceramic Tile
B252473	7200-9	Gray Hard **	1	Not Detected				Binder	100	Ceramic Tile
B252474	7200-10	Gray Hard **	1	Not Detected				Binder	100	Ceramic Tile
B252475	7200-11	White Hard **	1	Not Detected		Wollastonite	5	Binder Mica	15 80	Popcorn Texture
B252476	7200-12	White Hard **	1	Not Detected		Wollastonite	5	Binder Mica	15 80	Popcorn Texture
B252477	7200-13	White Hard **	1	Not Detected		Wollastonite	5	Binder Mica	15 80	Popcorn Texture

Reviewed By: Nikki L. Brown
Laboratory Technical Manager

ACT Environmental Services, Inc.
304 S. State Ave. / Indianapolis, IN / 46201
317/756-9320/fax 317/756-9324 / www.actenvironmental.com

CHAIN OF CUSTODY

Client:	Client Project Name/Location:	ACT Project No:	Lab Batch No.:
IU-EHS	EHS# 7200 - CPF# 20250532 - BL 414 Myles Brand	250915	25B0329

TURNAROUND TIME: ☐ RUSH – 1 hour PCM/PLM; 4 hour Lead/IAQ ☐ Same Day (in lab by 12pm/results by 5pm) ☑ 24 hours (1 day)
☐ 2 days **(PCM/IAQ/Nuisance Dust Standard)** ☐ 3 days **(LEAD/PLM Standard)** ☐ 4 days ☐ 5 days

SAMPLER:	Analyze: ALL ☐ or First positive ☑	Possible Hazards: Yes ☑ Unknown ☐	Sample Disposal: Return to Client ☐ Disposal by Lab ☑	Due Date _____
KO				

LABORATORY ANALYSIS:
☐ IAQ ☑ ASBESTOS ☐ LEAD ☐ OTHER _____

SAMPLE TYPE:
☐ Air ☐ PCM ☐ TEM ☑ Bulk ☐ Wipe ☐ Soil ☐ Paint
☐ Air-O-Cell ☐ Tape ☐ Swab ☐ Cyclex-D ☐ Other _____

Client Sample I.D.	Sample Collection Location:	Sample Collection Date	Homogenous Area	Lab I.D.:	RESULTS:
7200-1	Room 221 and 221A- drywall	08/20/25	HA-1	B252465	ND
7200-2	Room 221 and 221A- drywall	08/20/25	HA-1	66	ND
7200-3	Room 221 and 221A- drywall	08/20/25	HA-1	67	ND
7200-4	Room 297- plaster ceiling	08/20/25	HA-2	68	ND
7200-5	Room 297- plaster ceiling	08/20/25	HA-2	69	ND
7200-6	Room 297- plaster ceiling	08/20/25	HA-2	70	ND
7200-7	Room 297- pink ceramic tile on floor	08/20/25	HA-3	71	ND
7200-8	Room 297- pink ceramic tile on floor	08/20/25	HA-3	72	ND
7200-9	Room 221 and 221A -white ceramic tile on floor	08/20/25	HA-4	73	ND
7200-10	Room 221 and 221A -white ceramic tile on floor	08/20/25	HA-4	74	ND

Relinquished By:	Date/Time:	Received By:	Date/Time:	Client Contact Name:
Kyra Oakley	8/20/2025 1:50PM	JP	8/21/25 2:00PM	Y/N ☐ Client Contact Phone:
				Y/N ☐ Client Contact Fax/Email: KOOLEY@INDIANA.EDU

JP Analyst JP 1st QC Review MB 2nd QC Review

Revision: January 2011

ACT Environmental Services, Inc.
304 S. State Ave. / Indianapolis, IN / 46201
317/756-9320/fax 317/756-9324 / www.actenvironmental.com

CHAIN OF CUSTODY

Client:	Client Project Name/Location:	ACT Project No:	Lab Batch No.:
IU-EHS	EHS# 7200 - CPF# 20250532 - BL 414 Myles Brand		

TURNAROUND TIME: ☐ RUSH – 1 hour PCM/PLM; 4 hour Lead/IAQ ☐ Same Day (in lab by 12pm/results by 5pm) ☑ 24 hours (1 day)
☐ 2 days **(PCM/IAQ/Nuisance Dust Standard)** ☐ 3 days **(LEAD/PLM Standard)** ☐ 4 days ☐ 5 days

SAMPLER:	Analyze: ALL ☐ or First positive ☑	Possible Hazards: Yes ☑ Unknown ☐	Sample Disposal: Return to Client ☐ Disposal by Lab ☑	Due Date
KO				

LABORATORY ANALYSIS: ☐ IAQ ☑ ASBESTOS ☐ LEAD ☐ OTHER _____

SAMPLE TYPE: ☐ Air ☐ PCM ☐ TEM ☑ Bulk ☐ Wipe ☐ Soil ☐ Paint ☐ Air-O-Cell ☐ Tape ☐ Swab ☐ Cyclex-D ☐ Other _____

Client Sample I.D.	Sample Collection Location:	Sample Collection Date	Homogenous Area	Lab I.D.:	RESULTS:
7200-11	Room 221 and 221A -popcorn ceiling material on ceiling	08/20/25	HA-5	B252475	ND
7200-12	Room 221 and 221A -popcorn ceiling material on ceiling	08/20/25	HA-5	↓ 76	ND
7200-13	Room 221 and 221A -popcorn ceiling material on ceiling	08/20/25	HA-5	↓ 77	ND

Relinquished By:	Date/Time:	Received By:	Date/Time:	Client Contact Name:
Kevin Dailey	8/20/2025 1:00pm			Y/N ☐ Client Contact Phone:
				Y/N ☐ Client Contact Fax/Email: KOOLEY@INDIANA.EDU

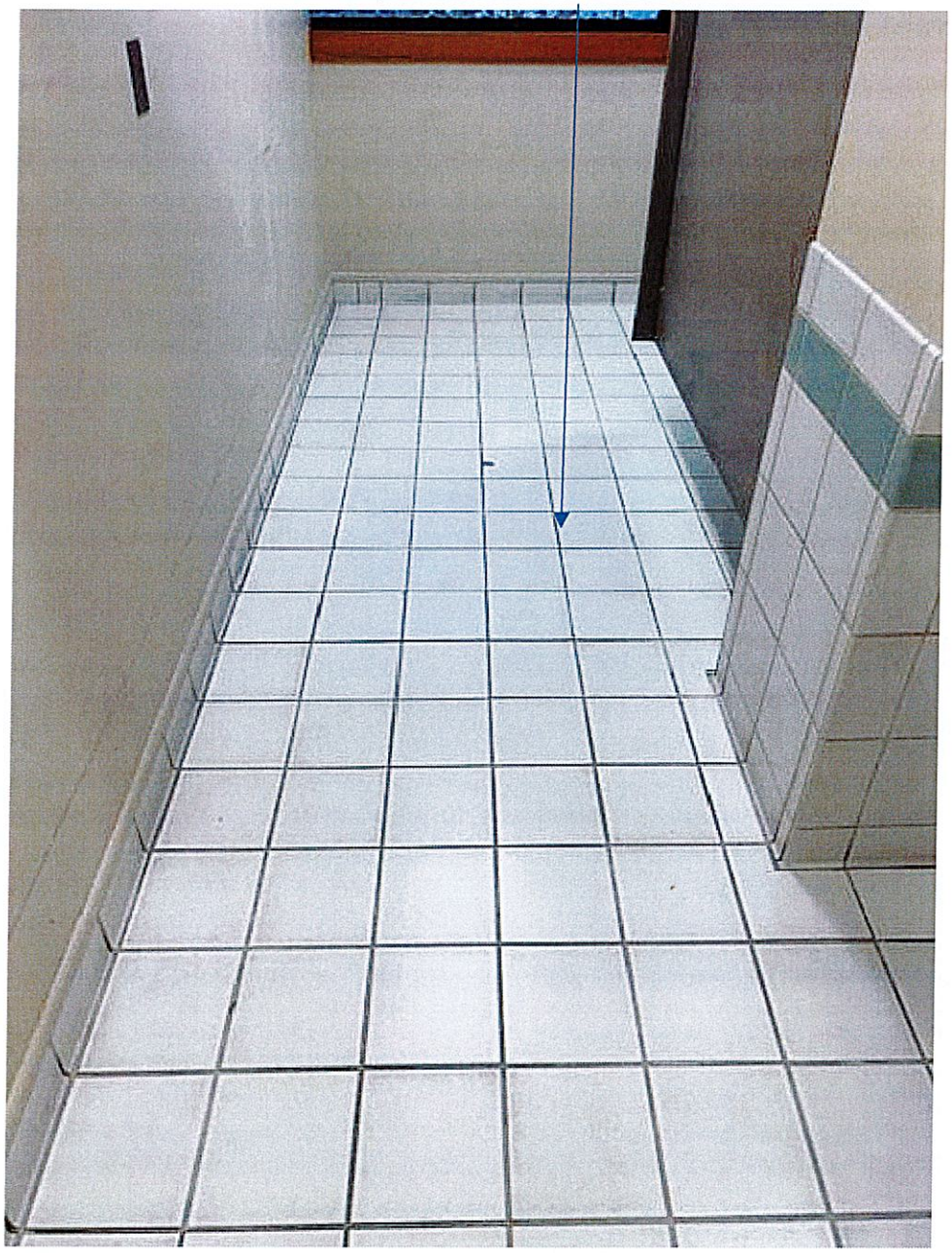
_____ Analyst _____ 1st QC Review _____ 2nd QC Review

Revision: January 2011

All ceramic tile on floors – non-ACM

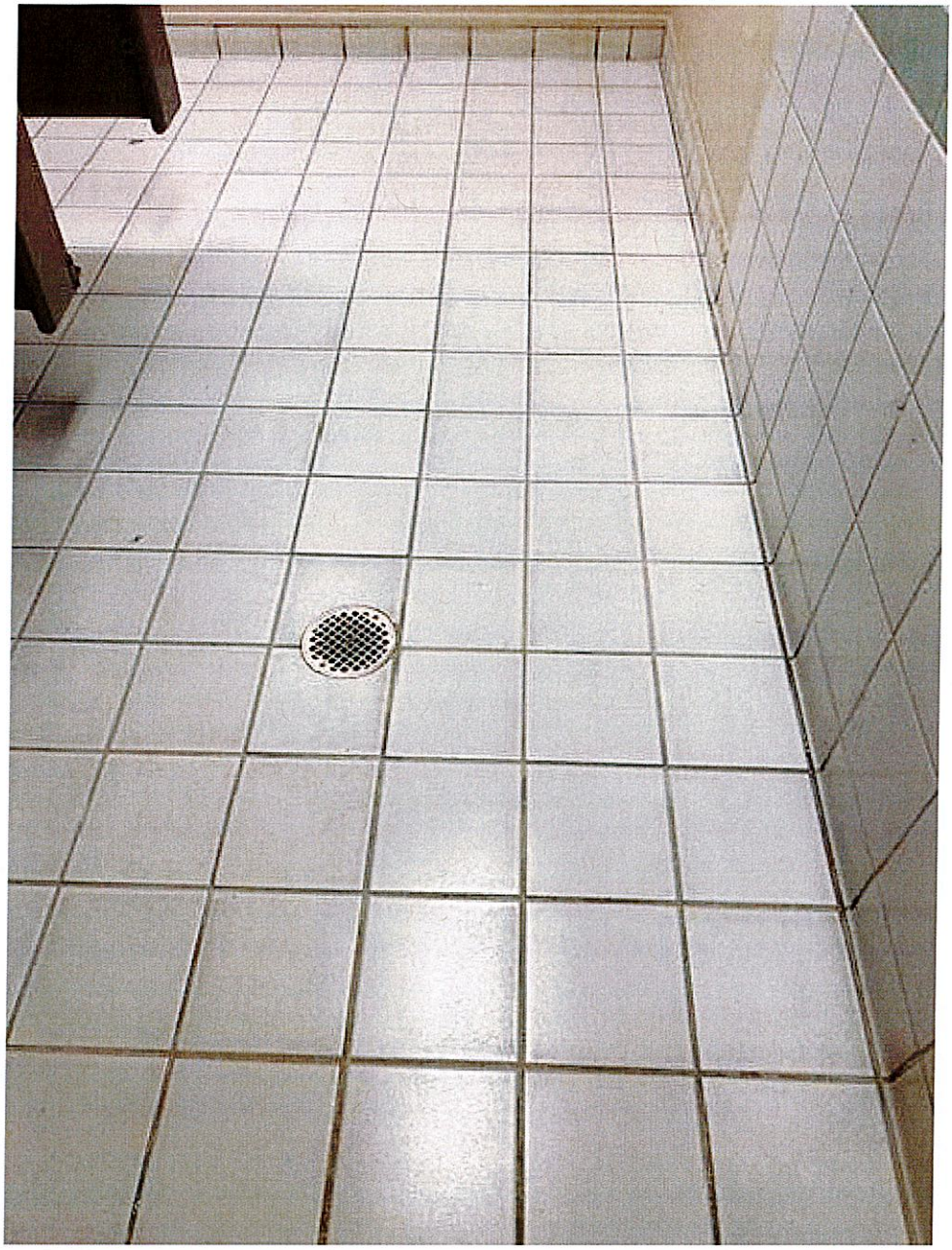
Room 221 – window glazing was not sampled.

Ceramic floor tile – non-ACM



Room 221 and 221A – popcorn ceiling - non-ACM

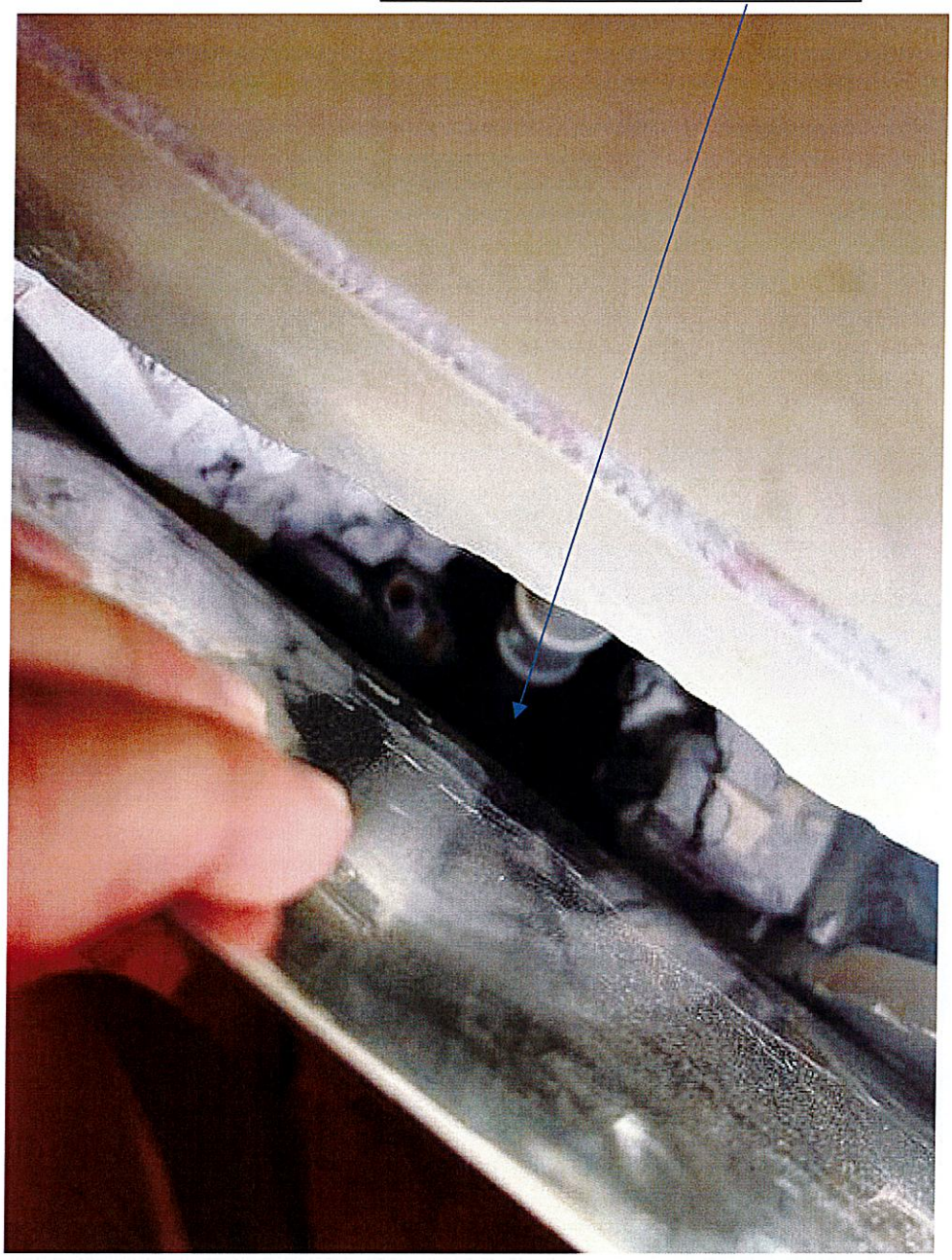
Pipe chase – no access -



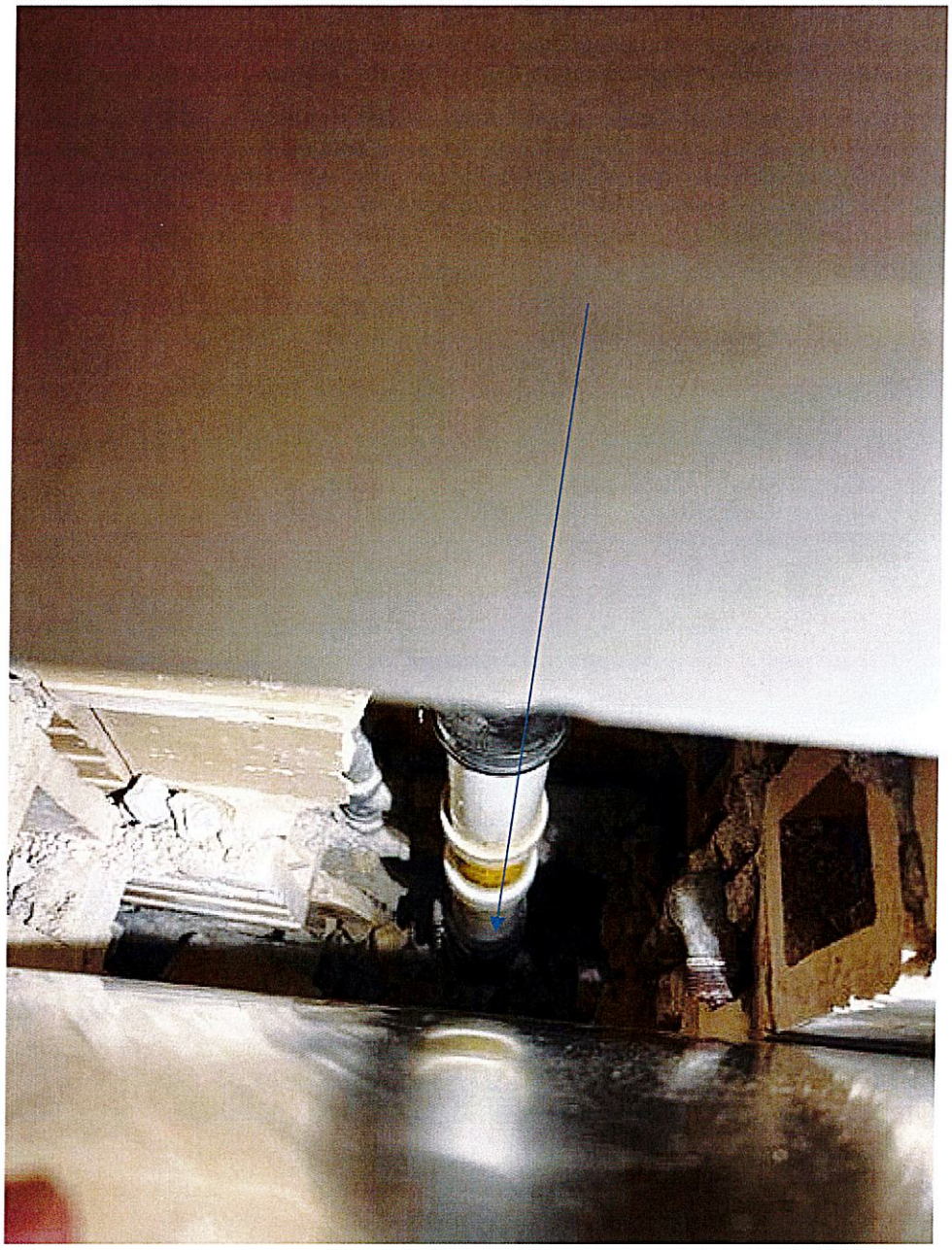
Room 221 and 221A – popcorn ceiling - non-ACM

Back of room 297 – pipe chase to room 297 – no ACM found in pipe chase

Back of room 297 – pipe chase to room 297 – no ACM found in pipe chase



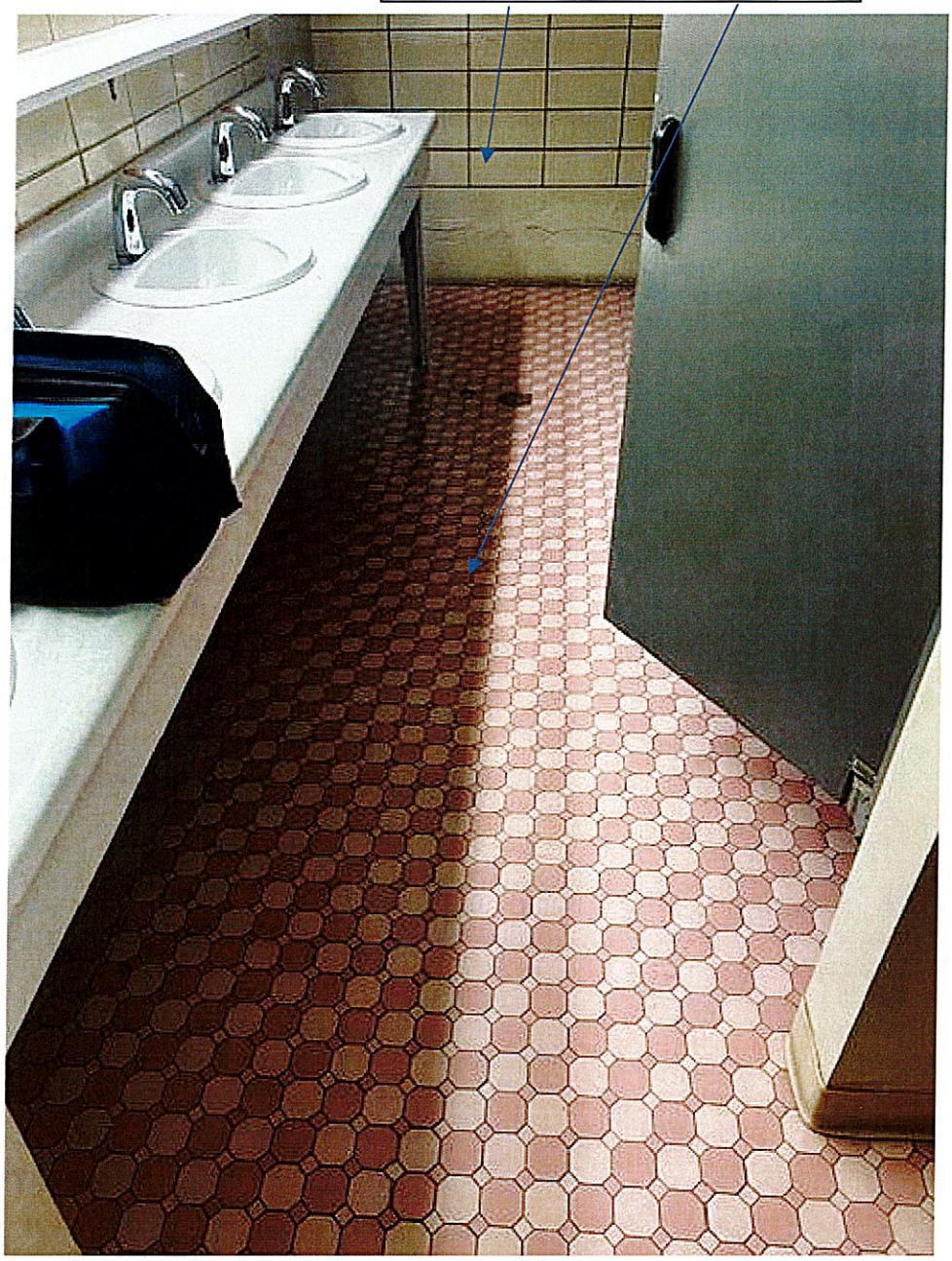
Back of room 297 – pipe chase to room 297 – no ACM found in pipe chase



Back of room 297 – pipe chase to room 297 – no ACM found in pipe chase

Room 297 plaster ceiling – non-ACM

Ceramic blocks and ceramic flooring – non-ACM



Room 221 – drywall – non-ACM

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Tennessee Pink Marble wall panels for interior [and/or exterior] vertical applications.
2. Anchoring systems, attachment devices, and accessories required for complete installation.

B. Related Sections:
1. Section 07 92 00 – Joint Sealants

1.2 REFERENCES

A. Comply with latest editions of:
1. ASTM C97 – Absorption and Bulk Specific Gravity of Dimension Stone.
2. ASTM C99 – Modulus of Rupture of Dimension Stone.
3. ASTM C170 – Compressive Strength of Dimension Stone.
4. ASTM C880 – Flexural Strength of Dimension Stone.
5. ASTM C1242 – Selection, Design, and Installation of Exterior Dimension Stone Anchoring Systems.

1.3 SUBMITTALS

A. Product Data:
1. Quarry source and technical data for Tennessee Pink Marble.
2. Physical properties test reports (ASTM C97, C99, C170, C880).

B. Shop Drawings:
1. Panel layout, dimensions, joint widths, anchoring details.
2. Edge profiles and finish locations.

C. Samples:
1. Minimum 12 in. x 12 in. sample showing full range of color and veining.
2. Sample of each specified finish.

D. Qualification Data:
1. Installer experience with comparable marble panel installations (minimum 5 years).

1.4 QUALITY ASSURANCE

A. Stone Source: Single quarry source for each type of Tennessee Pink Marble to ensure uniformity.

B. Fabricator: Experienced in cutting and finishing marble panels.

C. Installer: Minimum 3 completed projects of similar scope.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Deliver panels crated and labeled for sequence.

B. Store under cover, elevated above grade, protected from staining and physical damage.

C. Handle with padded slings; do not use wire rope directly on stone.

PART 2 - PRODUCTS

2.1 STONE MATERIAL

A. Tennessee Pink Marble
   1. Material: Natural crystalline marble commercially known as Tennessee Pink Marble.
   2. Quarry Location: Tennessee, USA.
   3. Color: Light Rose
   4. Finish:
      a. Polished
   5. Thickness:
      a. Interior veneer: 3/4 inch (20 mm) nominal.
   6. Physical Properties (typical values; verify by testing):
      1. Absorption: ≤ 0.06% (ASTM C97).
      2. Compressive Strength: ≥ 15,000 psi (ASTM C170).
      3. Flexural Strength: ≥ 2,600 psi (ASTM C880).

2.2 FABRICATION

A. Fabricate panels square and true to dimensions indicated.

B. Edge Conditions:
   1. Sawn edges for concealed joints.
   2. Eased or pencil edge for exposed conditions.

B. Tolerances: ±1/16 inch in length and width.

C. Anchor holes shop drilled; do not field drill unless approved.

2.3 ANCHORAGE AND ATTACHMENT

A. Anchors:
   1. Stainless steel Type 304 for interior; Type 316 for exterior.
   2. Kerf clips, dowel anchors, or undercut anchors engineered for loads.

B. Adhesives (if applicable):
   1. Non-staining epoxy compatible with marble.
   2. Back-buttering adhesive as recommended by manufacturer.

C. Setting Materials:
1. Mortar: ANSI A118.4 polymer-modified thin-set for interior adhered systems.
2. Isolation membrane where required.

2.4 ACCESSORIES

A. Shims and Spacers: Non-staining plastic.

B. Sealant Backer Rod: Closed-cell polyethylene.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Verify substrates are plumb, true, and within 1/8 inch in 10 feet tolerance.

B. Do not begin installation until unsatisfactory conditions are corrected.

3.2 INSTALLATION

A. General:
1. Install panels in accordance with approved shop drawings and ASTM C1242.
2. Maintain uniform joint width of 1/8 to 3/8 inch unless noted otherwise.

B. Adhered System (Interior):
1. Apply thin-set mortar uniformly; achieve minimum 95% contact.
2. Align panels plumb and level.

3.3 JOINTING AND SEALING

A. Fill control and perimeter joints with sealant specified in Section 07 92 00.

B. Tool sealant flush with stone surface.

3.4 CLEANING

A. Remove excess mortar and sealant promptly.

B. Clean surfaces with pH-neutral cleaner approved for marble.

C. Do not use acidic cleaners.

3.5 PROTECTION

A. Protect installed stone from impact, staining, and construction traffic.

B. Provide temporary coverings as required until Substantial Completion.

END OF SECTION 044200

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:
   1. Solid plastic toilet compartments including the following:
      a. Floor mounted overhead-braced toilet compartments.
      b. Privacy screens.

1.2 RELATED SECTIONS

A. Section 06 10 00 – Rough Carpentry

1.3 REFERENCES

A. ASTM A666 – Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.

B. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.

C. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.

D. National Fire Protection Association (NFPA) 286 - Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth.

1.4 SUBMITTALS

A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.

B. Shop Drawings: For toilet compartments. Include plans, elevations, sections, details, and attachments to other work.
   1. Show locations of cutouts for compartment-mounted toilet accessories.
   2. Show locations of reinforcements for compartment-mounted grab bars.
   3. Show locations of centerlines of toilet fixtures.
   4. Show overhead support or bracing locations.

C. Samples for Initial Selection: For each type of unit indicated. Include Samples of hardware and accessories involving material and color selection.

D. Samples for Verification: For the following products, in manufacturer's standard sizes unless otherwise indicated:
   1. Each type of material, color, and finish required for units, prepared on 6-inch-square Samples of same thickness and material indicated for Work.
   2. Each type of hardware and accessory.

E. Product Certificates: For each type of toilet compartment, from manufacturer.

F. Maintenance Data: For toilet compartments to include in maintenance manuals.

1.5 QUALITY ASSURANCE

A. Manufacturer Qualifications: A company regularly engaged in manufacture of products specified in this section, and whose products have been in satisfactory use under similar service conditions for not less than 5 years.

B. Installer Qualifications: A company regularly engaged in installation of products specified in this Section, with a minimum of 5 years experience.

C. Materials: Doors, panels and pilasters, constructed from high density polyethylene (HDPE) resins. Partitions to be fabricated from polymer resins compounded under high pressure, forming a single component which is waterproof, nonabsorbent and has a self-lubricating surface that resists marks from pens, pencils, markers and other writing instruments. Cover all plastic components with a protective plastic masking.

D. Performance Requirements:
   1. Fire Resistance: Partition materials shall comply with the following requirements, when tested in accordance with ASTM E 84, Class B:
      a. Tested to meet ASTM E84, Class B flame spread/smoke developed rating.
   2. Material Fire Ratings:
      a. National Fire Protection Association (NFPA) 286: Pass.
      b. International Code Council (ICC): Class B.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging until ready for installation.

1.7 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.8 WARRANTY

A. Manufacturer guarantees its plastic against breakage, corrosion, and delamination under normal conditions for 25 years from the date of receipt by the customer. If materials are found to be defective during that period for reasons listed above, the materials will be replaced free of charge. Labor not included in warranty.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis of Design: Hiny Hiders, Scranton Products

B. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 – Product Requirements

2.2 MATERIAL

A. Plastic Panels: High density polyethylene (HDPE) suitable for exposed applications, waterproof, non-absorbent, and graffiti-resistant textured surface.

B. Zinc Aluminum Magnesium and Copper Alloy (Zamac): ASTM B 86.

C. Stainless Steel Castings: ASTM A167, Type 304.

D. Aluminum: ASTM 6463-T5 alloy.

2.3 SOLID PLASTIC TOILET COMPARTMENTS

A. Basis of Design: Hiny Hiders Toilet Partitions, Scranton Products
   1. Style: Floor mounted overhead-braced toilet compartments

B. Doors, Panels, and Pilasters: 1 inch (25 mm) thick with all edges rounded to a radius. Mount doors and dividing panels based on height of specified system.
   1. Door and Panel Height: 55 inches (1397 mm).
   2. Aluminum heat sink fastened to bottom edges.
   3. Door Design: Standard.
   4. Panel Edge: Shiplap.
   5. Pilasters: 82 inches (2083 mm) high and fastened to floor.

C. Panel Color: Metallic Series.
   1. Nickel – Hammered.

D. Pilaster Shoes: 3 inches (76 mm), 20 gauge stainless steel. Secured to pilasters with a stainless steel tamper resistant bolt.

E. Headrail: Heavy-duty extruded 6463-T5 alloy aluminum with anti-grip design. Finish to be clear anodized. Fastened to headrail brackets with stainless steel tamper resistant bolt, and fastened at the top of the pilaster with stainless steel tamper resistant head screws.
   1. Headrail Brackets: 20 gauge stainless steel with satin finish. Secured to the wall with stainless steel tamper resistant head screws.

F. Wall Brackets:
   1. Stainless Steel Brackets: Stainless steel type 201
   2. Brackets are fastened to pilasters with stainless steel tamper resistant screws and fastened to the panels with stainless steel tamper resistant bolts.
   3. Bracket Type: Continuous 54 inches (1372 mm) aluminum.

G. Door Hardware:
   1. Continuous Stainless Steel Helix Hinge:
      a. Length: 54 inches (1372 mm).

2. Door Strike/Keeper: Heavy-duty extruded aluminum 6436-T5 alloy with a clear anodized finish. Secured to pilasters with stainless steel tamper resistant bolts. Bumper shall be made of extruded black vinyl.
   a. Style: 3 inches (76 mm) stainless steel emergency access.
3. Latch Mechanism: Occupancy Indicator Latch and Housing:
   a. Material: Satin stainless steel
   b. Occupancy indicators: Green for occupied and red not occupied.
   c. Slide bolt and button.
4. Doors supplied with one coat hook/bumper and door pull, clear anodized aluminum or stainless steel.
5. Equip outswing handicapped doors with second door pull and door stop.

2.4 SOLID PLASTIC PRIVACY SCREENS

A. Provide plastic privacy screens in urinal and entry toilet room applications as indicated or scheduled.

B. Panels and pilasters, if required, 1 inch (25 mm) thick with edges rounded to a radius. Screens to be mounted at 14 inches (356 mm) above the finished floor. Color as selected by Architect from manufacturer's full line of current colors.
   1. Aluminum heat sink fastened to bottom edges.

C. Screen Type: Wall mounted
   1. Urinal Screens: 24 inches (610 mm) wide by 55 inches (1397 mm) high.

D. Screen Type: Pilaster supported.
   1. Urinal Screens: 24 inches (610 mm) wide by 55 inches (1397 mm) high.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

C. Examine areas to receive toilet partitions, screens, and shower compartments for correct height and spacing of anchorage/blocking and plumbing fixtures that affect installation of partitions. Report discrepancies to the architect.

3. 3 INSTALATION

A. Install in accordance with manufacturer's instruction.

B. Install partitions rigid, straight, plumb, and level manor, with plastic laid out as shown on shop drawings.

C. Clearance at vertical edges of doors shall be uniform top to bottom and shall not exceed 3/8 inch (9.5 mm).

D. No evidence of cutting, drilling, and/or patching shall be visible on the finished work.

E. Finished surfaces shall be cleaned after installation and be left free of imperfections.

3.4 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION 102115

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